N60042_000047
NAF EL CENTRO, CA
SSIC 5000-33a

PRELIMINARY ASSESSMENT/SITE INSPECTION
09/01/1987
NAVAL ENERGY AND ENVIRONMENTAL SUPPORT ACTIVITY (NEESA) - PORT HUENEME, CA

NOTIFICATION: This Record Contains Sensitive But Unclassified Information Which is Protected by a Freedom of Information Act Exemption(s)

FOIA EXEMPTION 3. (5 USC 552(b)(3))
10 USC Section 130(e) Treatment of Certain Critical Infrastructure Security Information
Pages: 14, 26, 27, 32, 34, 36, 37, 39, 41, 42, 49, 51, 52, 54, 58, 60, 62, 64, 78, 442

Distribution authorized to U.S. Government Agencies and their contractors only.

SEPTEMBER 1987

PRELIMINARY ASSESSMENT/ SITE INSPECTION OF NAVAL AIR FACILITY EL CENTRO, CALIFORNIA

NEESA 13-106

NAVAL ENERGY AND ENVIRONMENTAL SUPPORT ACTIVITY
Port Hueneme, California 93043

RELEASE OF THIS DOCUMENT REQUIRES PRIOR NOTIFICATION OF THE CHIEF OFFICIAL OF THE STUDIED ACTIVITY.

PRELIMINARY ASSESSMENT/SITE INSPECTION

OF

NAVAL AIR FACILITY, EL CENTRO, CALIFORNIA

UIC: N60042

Prepared by:

PRELIMINARY ASSESSMENT/SITE INSPECTION TEAM MEMBERS

JEFFREY L. HENDRIX, PROJECT MANAGER
ENVIRONMENTAL ENGINEER

RONALD E. TICKLE, BIOLOGIST/ENVIRONMENTAL ENGINEER

STEPHEN E. EIKENBERRY, HYDROGEOLOGIST

VERN NOVSTRUP, CIVIL ENGINEER

ENVIRONMENTAL PROTECTION DEPARTMENT
NAVAL ENERGY AND ENVIRONMENTAL SUPPORT ACTIVITY
CODE 112E
PORT HUENEME, CALIFORNIA 93043

SEPTEMBER 1987

EXECUTIVE SUMMARY

This report presents the results of the Preliminary Assessment/Site Inspection (PA/SI) conducted at the Naval Air Facility (NAF) El Centro, California. The purpose of the PA/SI is to identify and assess sites posing a potential threat to human health or to the environment due to contamination from past handling of hazardous materials.

Based on information from historical records, aerial photographs, on-site surveys, and personnel interviews; sixteen potentially contaminated sites were identified. Each site was evaluated for contamination characteristics, migration pathways, and biological receptors.

NAF El Centro is located on a Class III, unconfined aquifer that generally flows northwest towards the New River. Surface drainage is controlled by a series of man-made drainage ditches all leading to the New River. The New River is considered of poor quality due to contamination from various agricultural and industrial sources.

The PA/SI for NAF El Centro concludes that fourteen of the sixteen sites warrant further investigation under the Navy Installation Restoration (IR) Program to assess potential long-term impacts. Further work involving sampling and analyses is recommended to confirm the extent of any problems that may exist.

The fourteen sites recommended for further work are:

Site 1 - Magazine Road Landfill
Site 2 - Patrol Road Landfill
Site 3 - Sludge Burial Area
Site 4 - 4th Street Fire Fighting Training Area
Site 5 - Fire Fighting Training Area East of Hangar #3
Site 6 - Northwest Fire Fighting Training Area
Site 7 - Abandoned Fuel Farm
Site 8 - Scrapyard
Site 9 - Transformer Storage Area
Site 10 - Sewage Stabilization Ponds
Site 11 - Runway Burn Area
Site 14 - Fuel Farm Tank Rinseate Disposal Area
Site 15 - Fuel Farm Filter Cleaning Area
Site 16 - Potassium Ferricyanide Spill Area

Further work at these sites will determine whether a threat to human health or to the environment exists, the extent of contamination, and the potential for contaminant migration. The necessity for remedial actions, or cleanups, will then be determined by evaluating these results. If a site poses no threat to human health or to the environment, no further action will be recommended.

ACKNOWLEDGEMENT

The Preliminary Assessment/Site Inspection team wishes to thank the many people at NAF EL Centro, California whose cooperation made successful completion of this report possible. We are grateful for and acknowledge the efforts and assistance of Western Division, Naval Facilities Engineering Command Branch Office (WESTNAVFACCOMBRO), San Diego. In particular the team acknowledges the outstanding efforts provided by the following people:

- Fred Rivera, Public Works Engineering, NAF El Centro
- Larry G. Caffey, Public Works Engineering, NAF El Centro
- Roger G. Hillhouse, Public Works Engineering, NAF El Centro
- William J. Dougherty, Environmental Engineering Branch, WESTNAVFACCOMBRO San Diego
- Jacqueline R. Francis, Site Contamination Division, NEESA
- Debra A. Kiner, Site Contamination Division, NEESA
- Yvonne M. LeRoy, Environmental Office, NEESA

TABLE OF CONTENTS

	Page
1. INTRODUCTION	
1.1 Program Background	1-1
1.1.1 DOD Program	1-1
1.1.2 Navy Program	1-1
1.2 Authority	1-1
1.3 Scope	1-1
1.3.1 Past Operations	1-1
1.3.2 Results	1-2
1.4 Preliminary Assessment/Site Inspection	1-2
1.4.1 Records Search	1-2
1.4.2 On-Site Survey	1-2
1.4.3 Remedial Investigation/Feasibility Study Criteria	1-2
1.5 Remedial Investigation/Feasibility Study	1-2
1.6 PA/SI Report Content	1-2
2. SIGNIFICANT FINDINGS, CONCLUSIONS AND RECOMMENDATIONS	
2.1 Introduction	2-1
2.2 Potential for Contaminant Migration	2-1
2.2.1 Surface Water	2-1
2.2.2 Ground Water	2-1
2.2.3 Windblown Materials	2-1
2.2.4 Other Factors	2-1
2.3 Potential Contaminant Receptors	2-3
2.3.1 Surface Water Contaminants	2-3
2.3.2 Ground Water Contaminants	2-3
2.3.3 Windblown Contaminants	2-3
2.3.4 Protected Species	2-3
2.4 Site Specific Findings, Conclusions and Recommendations	2-3
2.4.1 Site 1 - Magazine Road Landfill	2-3
2.4.2 Site 2 - Patrol Road Landfill	2-8
2.4.3 Site 3 - Sludge Burial Area	2-13
2.4.4 Site 4 - Fourth Street Fire Fighting Training Area	2-16
2.4.5 Site 5 - Fire Training Area East of Hangar #3	2-18
2.4.6 Site 6 - Northwest Fire Fighting Training Area	2-23
2.4.7 Site 7 - Abandoned Fuel Farm	2-26
2.4.8 Site 8 - Scrapyard	2-28
2.4.9 Site 9 - Transformer Storage Area	2-31
2.4.10 Site 10 - Sewage Stabilization Ponds	2-36
2.4.11 Site 11 - Runway Burn Area	2-38
2.4.12 Site 12 - Open Burn Pit	2-41
2.4.13 Site 13 - Old Incinerator	2-44
2.4.14 Site 14 - Fuel Farm Tank Rinseate Disposal Area	2-44
2.4.15 Site 15 - Fuel Farm Filter Cleaning Area	2-49
2.4.16 Site 16 - Potassium Ferrocyanide Spill Area	2-51
2.5 Summary of Recommendations	2-54

TABLE OF CONTENTS (CON'T)

	Page
3. BACKGROUND	
3.1 Introduction	3-1
3.1.1 Location	3-1
3.1.2 Mission	3-1
3.2 History	3-1
3.2.1 1942-1946	3-1
3.2.2 1947-1949	3-1
3.2.3 1949-1951	3-1
3.2.4 1951-1959	3-3
3.2.5 1959-1963	3-3
3.2.6 1964-Present	3-3
3.3 Historical Resources	3-3
3.4 Adjacent Land Use	3-3
3.4.1 Surrounding Area	3-3
3.4.2 Outlying Areas	3-3
4. PHYSICAL AND BIOLOGICAL FEATURES	
4.1 Introduction	4-1
4.2 Physical Features	4-1
4.2.1 Climate	4-1
4.2.2 Topography and Surface Drainage	4-1
4.2.3 Geology	4-1
4.2.4 Migration Potential	4-12
4.3 Water Supply and Quality	4-13
4.3.1 Water Supply	4-13
4.3.2 Ground Water Quality	4-13
4.3.3 Surface Water Quality	4-13
4.4 Biological Features	4-14
4.4.1 Ecosystems	4-14
4.4.2 Protected Species	4-15
REFERENCES	REF-1
Appendix A Agencies Contacted During Records Search	A-1
Appendix B Contaminant Quantity Calculations	B-1
Appendix C Testing Parameters and EPA Methods	C-1
Appendix D Acronyms/Abbreviations	D-1
Appendix E Preliminary Assessment and Site Inspection Forms	E-1
Appendix F Additional Soil Boring Log	F-1

FIGURES

Figure Number		Page
2-1	Site Locations at NAF El Centro	2-2
2-2	Site 1 - Magazine Road Landfill	2-4
2-3	Recommended Sampling Locations for Site 1	2-7
2-4	Site 2 - Patrol Road Landfill	2-9
2-5	Recommended Sampling Locations for Site 2	2-12
2-6	Site 3 - Sludge Burial Area	2-14
2-7	Recommended Boring Pattern for Site 3	2-15
2-8	Site 4 - 4th Street Fire Fighting Training Area	2-17
2-9	Recommended Sampling Locations for Site 4	2-19
2-10	Site 5 - Fire Fighting Training Area East of Hangar #3	2-20
2-11	Recommended Sampling Locations for Site 5	2-22
2-12	Site 6 - Northwest Fire Fighting Training Area	2-24
2-13	Recommended Sampling Locations for Site 6	2-25
2-14	Site 7 - Abandoned Fuel Farm	2-27
2-15	Recommended Sampling Locations for Site 7	2-29
2-16	Site 8 - Scrapyard	2-30
2-17	Recommended Sampling Locations for Site 8	2-32
2-18	Site 9 - Transformer Storage Area	2-33
2-19	Recommended Sampling Locations for Site 9	2-35
2-20	Site 10 - Sewage Stabilization Ponds	2-37
2-21	Recommended Sampling Locations for Site 10	2-39
2-22	Site 11 - Runway Burn Pit	2-40
2-23	Recommended Sampling Locations for Site 11	2-42
2-24	Site 12 - Open Burn Pit	2-43
2-25	Site 13 - Old Incinerator	2-45
2-26	Site 14 - Fuel Farm Tank Rinseate Disposal Area	2-46
2-27	Recommended Sampling Locations for Site 14	2-48
2-28	Site 15 - Fuel Farm Filter Cleaning Area	2-50
2-29	Recommended Sampling Locations for Site 15	2-52
2-30	Site 16 - Potassium Ferricyanide Spill Area	2-53
2-31	Recommended Sampling Locations for Site 16	2-55
3-1	Location of NAF El Centro	3-2
3-2	Land Use Around NAF El Centro	3-4
4-1	Average Monthly Temperature	4-2
4-2	Average Monthly Precipitation	4-3
4-3	Topography of NAF El Centro and Vicinity	4-4
4-4	Surficial Geology	4-7
4-5	General Soil Types	4-8
4-6	Typical Boring Log	4-9

TABLES

Table Number		Page
2-1	Potential Contaminants Disposed of at Site 1.....	2-5
2-2	Potential Contaminants Disposed of at Site 2.....	2-10
2-3	Potential Contaminants Disposed of at Site 3.....	2-13
2-4	Potential Contaminants Used at Site 4.....	2-16
2-5	Potential Contaminants Used at Site 5.....	2-21
2-6	Potential Contaminants Used at Site 6.....	2-23
2-7	Potential Contaminants Disposed of at Site 7.....	2-26
2-8	Potential Contaminants of Concern at Site 8.....	2-31
2-9	Potential Contaminants Present at Site 9.....	2-34
2-10	Potential Contaminants Disposed of at Site 10.....	2-38
2-11	Potential Contaminants Disposed of at Site 11.....	2-41
2-12	Potential Contaminants Used at Site 12.....	2-44
2-14	Potential Contaminants Disposed of at Site 14.....	2-47
2-15	Potential Contaminants Disposed of at Site 15.....	2-51
2-16	Potential Contaminants Present at Site 16.....	2-54
2-17	Summary of Recommendations.....	2-56
4-1	Generalized Geologic Column For the Vicinity of Naval Air Facility, El Centro, California.....	4-6
4-2	Soil Classifications and Characterizations, Naval Air Facility, El Centro, California.....	4-10
4-3	Estimated Hydraulic Conductivity From Grain Size Distribution, Naval Air Facility, El Centro, California.....	4-11
4-4	New River Water Quality, Naval Air Facility, El Centro, California.....	4-14

CHAPTER 1. INTRODUCTION

1.1 PROGRAM BACKGROUND. Past hazardous waste disposal methods, though acceptable at the time, have often caused unexpected long-term problems by releasing hazardous pollutants into the soil and ground water. In response to a growing recognition to these problems, the U. S. Congress directed the U. S. Environmental Protection Agency (EPA) to develop a program, commonly referred to as "Superfund" to manage and control past disposal sites. This program is outlined in the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) of 1980 and Superfund Amendments and Reauthorization Act (SARA) of 1986.

1.1.1 DOD Program. Department of Defense (DOD) efforts in this area preceded the nationwide CERCLA program. In 1975, the U. S. Army developed a pilot program for DOD to investigate past disposal sites at military installations. In 1980, DOD named this program the Installation Restoration (IR) Program and instructed the services to comply with program guidelines.

1.1.2 Navy Program. The Navy IR Program identifies and investigates potentially hazardous disposal sites and contaminated areas caused by past hazardous substance storage, handling, or disposal practices at naval activities. These sites are then individually evaluated with respect to their threat to human health or to the environment. A Remedial Investigation verifies the presence of contamination and if necessary, characterizes the extent of contamination present at sites of concern and develops additional information regarding their migration pathways. A Feasibility Study evaluates alternative remedial actions for site clean up. A Remedial Action provides the required corrective measures to mitigate or eliminate confirmed problems.

1.2 AUTHORITY. The Chief of Naval Operations (CNO) initiated the Navy IR Program in OPNAVNOTE 6240 of 11 September 1980. This was superceded by OPNAVINST 5090.1 of 26 May 1983. The Naval Facilities Engineering Command (NAVFACENGCOM), manages the program within the existing structure of the Naval Environmental Protection Support Service (NEPSS), which is adminstered by the Naval Energy and Environmental Support Activity (NEESA). Western Division, Naval Facilities Engineering Command requested NEESA to perform a Preliminary Assessment/Site Inspection (PA/SI) at the Naval Air Facility El Centro, California in CO WESTNAVFACENGCOM San Diego letter Ser 1141I/244 of 19 August 1986.

1.3 SCOPE.

1.3.1 Past Operations. The Navy IR Program focuses on past hazardous substance storage, use and disposal practices on Navy property. Current operations are regularly surveyed for conformity to state and federal regulations and therefore are not included in the scope of the Navy IR Program. The PA/SI addresses non-hazardous disposal and storage areas only if they were hazardous waste disposal or storage areas in the past. Current operations are investigated solely to infer types and quantities of chemicals used and the disposal methods practiced in the past.

1.3.2 Results. If necessary, a PA/SI recommends a Remedial Investigation/ Feasibility Study (RI/FS) be administered by the Naval Facilities Engineering Command Engineering Field Division (EFD) under the Navy IR Program. All recommendations made under the Navy IR Program are consistent with the National Contigency Plan (NCP). Based on these recommendations, NAVFACENGCOM schedules an RI/FS for those sites determined by scientific and engineering judgment to be potential hazards to human health or the environment.

1.4 PRELIMINARY ASSESSMENT/SITE INSPECTION.

1.4.1 Records Search. The PA/SI begins with investigation of activity records followed by a records search at various government agencies including EFDs and the U. S. Geological Survey Offices. In this initial step, PA/SI team members review records to assimilate information about the activities past missions, industrial processes, waste disposal records, and known environmental contamination. Typical examples of records include activity master plans and histories, environmental impact statements, cadastral records and aerial photographs. Appendix A list agencies contacted during this study.

1.4.2 On-Site Survey. After the records search, the study team conducts an on-site survey to complete documentation of past operations and disposal practices for the sites identified as potentially contaminated. With the assistance of the activity point-of-contact, the team inspects the identified sites and surrounding areas, and interviews long-term employees and retirees. The on-site survey for NAF El Centro was conducted from 12 through 14 January 1987; information in this report is current as of those dates.

1.4.3 Remedial Investigation/Feasibility Study Criteria. An RI/FS is recommended for sites at which (1) sufficient evidence exists to indicate the presence of contamination, and (2) the contamination poses a potential threat to human health or the environment.

1.5 REMEDIAL INVESTIGATION/FEASIBILITY STUDY. Short-term analytical testing and monitoring is performed to determine whether specific toxic and hazardous materials, identified in the PA/SI, are present in concentrations considered to be hazardous. If required, longer-term analytical testing and monitoring, provides more detailed information concerning the horizontal and vertical extent of contaminant migration as well as hydrogeology. The design of the long-term analytical testing and monitoring depends on the results from the short-term analytical testing and monitoring. If sites require remedial actions or additional monitoring programs, a Feasibility Study recommends a specific remedial action or monitoring program and includes the necessary planning information for the work, such as design parameters and specifications.

1.6 PA/SI REPORT CONTENT. The significant findings and conclusions from the PA/SI are presented in Chapter 2. In addition, RI/FS recommendations as well as waste generation and disposal history, specific migration pathways and receptors, and site locations are included in Chapter 2. Chapter 3 presents general activity information including the base history and past missions.

Chapter 4 details the migration potential and biological receptors characterizing the area.

Appendix A identifies government agencies contacted during the records search; Appendix B describes the methods used to calculate contaminant quantities; Appendix C details testing parameters and corresponding EPA methods; Appendix D provides a list of acronyms and abbreviations used in this report; Appendix E contains PA/SI forms (EPA Form 2070-12 and EPA Form 2070-13) for each site identified; and Appendix F contains an additional boring log from the NAF fuel farm.

CHAPTER 2. SIGNIFICANT FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

2.1 INTRODUCTION. This chapter summarizes the PA/SI team's significant findings, conclusions and recommendations on potential contaminant migration pathways, the potential contaminant receptors, and characteristics of the past disposal and spill sites identified at NAF El Centro. Sixteen sites were identified during the PA/SI. A map of NAF El Centro showing the site locations is included as Figure 2-1. Fourteen of the sites are recommended for further work under the Navy IR Program.

2.2 POTENTIAL FOR CONTAMINANT MIGRATION. Contaminants at NAF El Centro may potentially migrate by the following pathways:

1) Surface water

2) Ground water

3) Wind

2.2.1 Surface Water. Surface water drainage in the vicinity of NAF El Centro is generally controlled by artificial drains such as the Rice and Elder Canals, which flow into the New River. All drains receive runoff from the irrigation of outleased land within the base boundaries, flow from shallow aquifers, and runoff from storm drainage channels. All surface drains in this area flow into the New River which eventually discharges into the Salton Sea.

2.2.2 Ground Water. Ground-water flow in unconfined aquifers is generally to the northwest, although irrigation runoff, surface drains and evapotranspiration may locally change flow patterns. Ground water is expected to travel no more than 100 feet per year in identified silty sand aquifers. This velocity may be lower in soils such as clays and silts and much higher in clean sands and gravels.

Ground-water sources in the area of NAF El Centro are presently classified as Class III (WESTNAVFACENGCOM, 1982a), which are not considered useable as domestic or irrigation water sources, due to high dissolved solids content.

2.2.3 Wind. Because of the arid climate at NAF El Centro, the potential exists for migration of contaminated dust. Sites with little or no ground cover and surface contaminants, such as asbestos, are potential sources of windblown contaminant migration.

2.2.4 Other Factors. Other factors affecting contaminant migration potential and environmental impact of contaminants include soil attenuation, degradation, diffusion, and chemical reaction. All of these factors can alter the concentrations of contaminants.

(b) (3) (B)

2.3 POTENTIAL CONTAMINANT RECEPTORS.

2.3.1 Surface Water Receptors. Surface water contaminants would discharge into the unlined drainage ditches found throughout NAF El Centro or the natural wash found at the northwest corner of the station. Both the ditches and the wash lead off-base and eventually to the New River. Potential receptors include the flora and fauna present throughout the New River floodplain and along the drainage ditches. Receptors include small animals, birds, and vegetation coexisting in these areas. During hunting seasons, small animals from this area are caught and consumed by humans.

2.3.2 Ground-Water Receptors. Potential receptors of ground-water contaminants include users of agricultural products grown in the vicinity of NAF El Centro as well as aquatic riverine habitats found in the New River. No wells are present in the Imperial Valley because the ground water is unsuitable for agricultural, industrial, and domestic use.

2.3.3 Wind Receptors. The potential exists for the physical contact of windblown contaminants with humans in areas containing surface contaminants and little or no ground cover.

2.3.4 Protected Species. Currently no rare, threatened, or endangered species exists in the vicinity of NAF El Centro.

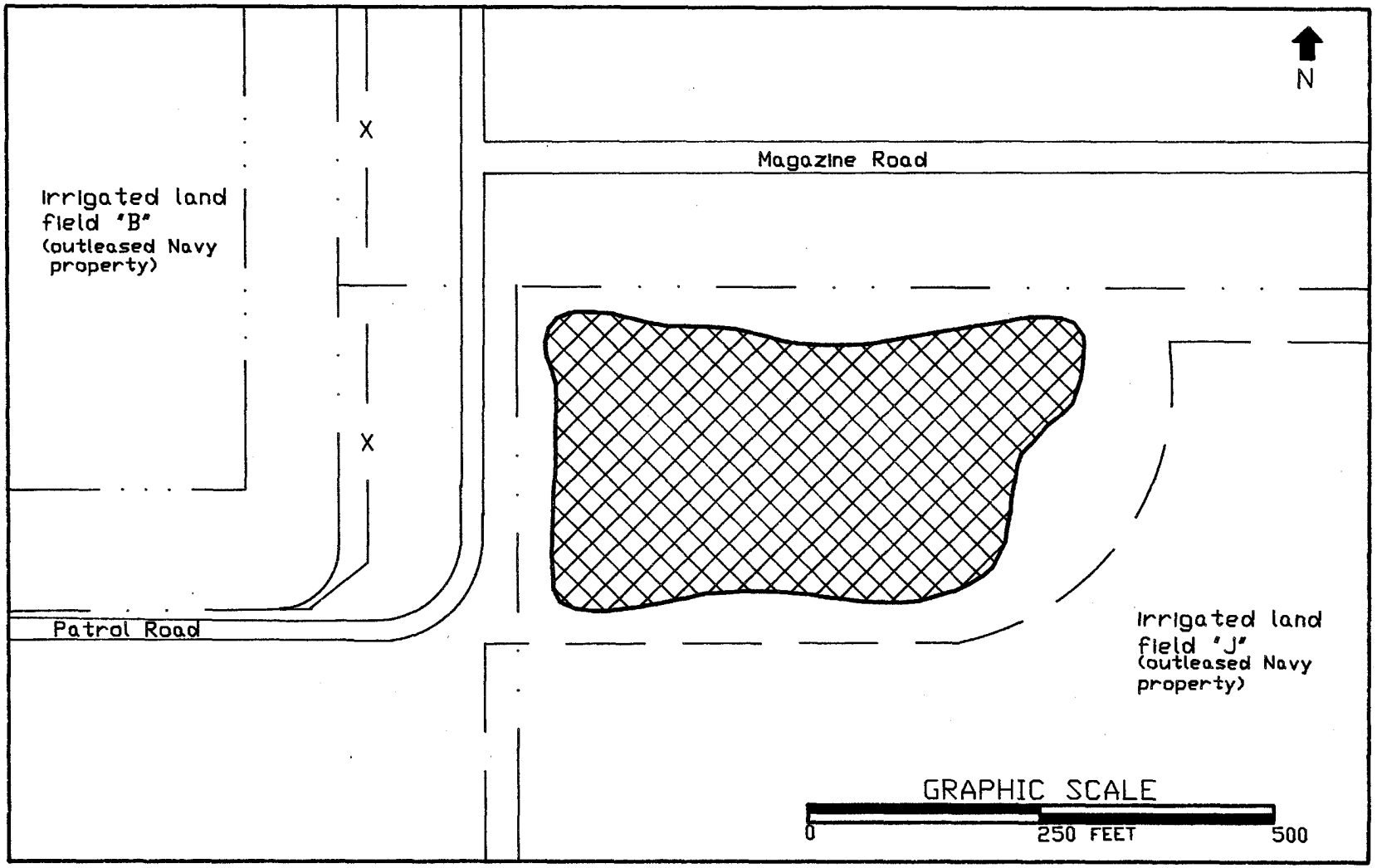
2.4 SITE SPECIFIC FINDINGS, CONCLUSIONS AND RECOMMENDATIONS.

2.4.1 Site 1 - Magazine Road Landfill.

2.4.1.1 Findings. Site 1, located at the intersection of Magazine and Patrol Roads in the northwest corner of the base, is the lowest elevation point on the base. Starting in 1964, this area was used as a borrow pit. In 1965, the 10 to 12 foot pit was designated for the disposal of burnable waste only. With the closure of the Patrol Road Landfill (Site 2) in 1965 however, all waste whether burnable or non-burnable was disposed of here. Burning was performed about once every month throughout the operation of the site. The site boundary extends along Magazine Road for about 600 feet and along Patrol Road for about 300 feet. The total landfill area is about four acres. This site was in operation from 1965 through 1983 when the base began using the Imperial County landfill. This area was the only base landfill for the period 1965 through 1983. Site 1 is shown in Figure 2-2.

Because of its low-lying area, surface runoff from the airfield drains to Site 1. Reportedly, strong odors emanate from this area during periods of heavy rain. Unlined drainage ditches run along the entire length of the northern and western borders of Site 1. These drainage ditches lead off-base and eventually into the New River.

Wastes disposed of in this landfill include: household rubbish, plating waste (which includes cadmium and arsenic), asbestos, water-bearing fuel, paint, solvents, spent 40mm cartridges, photographic chemicals, film, sandblast grit, demolition debris, parachutes, used hydraulic fluid, motor oil, paint thinners, pesticide containers, and batteries. Table 2-1 details the wastes potentially disposed of in this area.



(Base From: WESTNAVFACENGCOM, 1981)

-----EXPLANATION-----

- drainage ditch
- irrigation canal
- X fence
- dirt road
- site boundary

FIGURE 2-2

Site 1 - Magazine Road Landfill

PRELIMINARY ASSESSMENT/
SITE INSPECTION
NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA

TABLE 2-1 Potential Contaminants Disposed of at Site 1, Naval Air Facility, El Centro, California

WASTE TYPE	ESTIMATED QUANTITY[a]	YEARS OF DISPOSAL
Household Rubbish[b]	1,000,000 cubic feet	1965 - 1983
Plating Waste (sludges and liquid containing cadmium and arsenic from case hardening)	30,000 cubic feet	1971 - 1979
Asbestos	5,000 cubic feet	1965 - 1980
Water-bearing Fuel:		
AVGAS (leaded)	8,000 gallons	1965 - 1983
JP-4 (jet fuel)	20,000 gallons	1965 - 1983
JP-5 (jet fuel)	4,000,000 gallons	1965 - 1983
Diesel Fuel (DF-2)	10,000 gallons	1965 - 1983
MOGAS Regular (leaded)	10,000 gallons	1965 - 1983
MOGAS Unleaded	10,000 gallons	1972 - 1983
Hydraulic Fluid (containing chromium, nickel, zinc)	20,000 gallons	1965 - 1983
Paint (containing chromium, lead, zinc)	5,000 gallons	1965 - 1983
Solvents:		
Tetrachloroethylene PD-680 Freon-113	8,000 gallons	1965 - 1983
Trichloroethylene Methyl Ethyl Ketone	5,000 gallons	1965 - 1983
Spent 40mm Cartridges[c]	unknown	1965 - 1982
Photographic Chemicals[d] (cyanide/silver)	unknown	1965 - 1983
Sandblast Grit (containing chromium, lead, zinc)	90,000 pounds	1965 - 1983
Batteries	2,000 batteries	1965 - 1983
Pesticides (chlorinated rinse water/residual)	1,000 gallons	1965 - 1983
Motor Oil	10,000 gallons	1965 - 1983

[a]This landfill was burned monthly from 1965 through 1983, quantities shown are total disposed of before burning. Additional combustible liquids were used as necessary to aid in burning.

[b]includes parachutes, film, and demolition debris

[c]undetermined amount collected from Automatic Skeet Trap Range

[d]disposed of as empty containers and occasionally as expired liquids

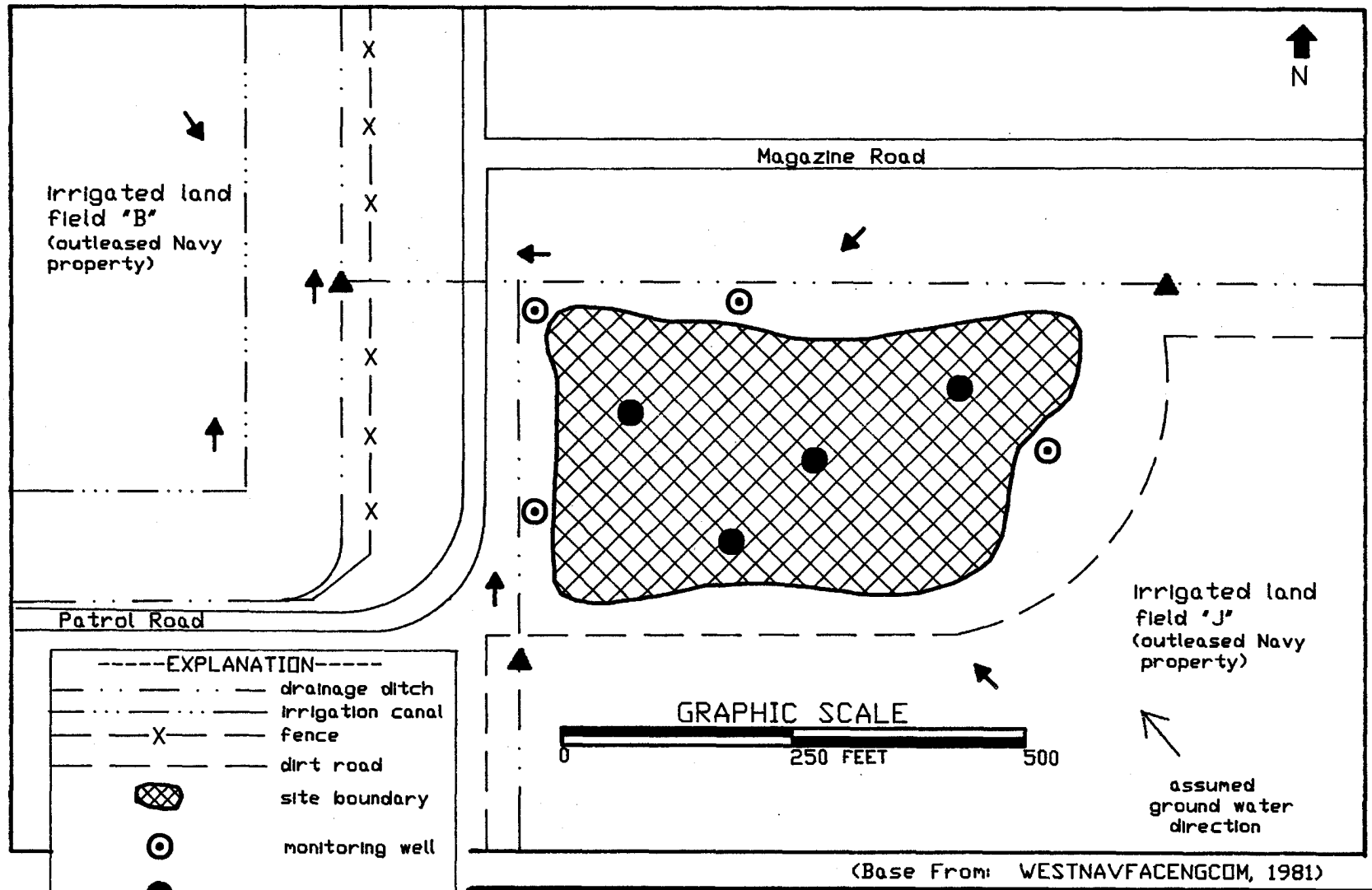
During the on-site survey of January 1987, empty paint cans, film (developed), empty drums, scrap metal, sandblast grit, parachutes, batteries, and possibly asbestos were observed partially covered on the landfill surface.

2.4.1.2 Conclusions. Because Site 1 is located at the lowest elevation point on the base, the potential for contaminants to migrate through the ground water to cultivated fields or off base through surface runoff to the irrigation ditches is high. Surface asbestos contamination may potentially migrate by wind. We therefore recommend Site 1 for futher work under the Navy IR Program.

2.4.1.3 Recommendations. The following first-year sampling program is recommended to verify the presence of contaminants potentially disposed of at Site 1. Figure 2-3 shows the recommended sampling locations.

Monitoring Wells:	4
Types of Samples:	Ground-water, Surface-fiber, Sediment, Soil, Background Soil
Number of Samples:	Ground water - 8 samples Surface-fiber - 1 sample Sediment - 3 samples Soil - 24 samples Background Soil - 2 samples
Sampling Frequency:	Ground water - twice Surface-fiber, Sediment, Soil, and Background Soil - once
Testing Parameters[1]:	Ground water, Sediment, Soil, Background soil: purgeable organic carbon compounds, acid extractable organic compounds, pesticides/poly-chlorinated biphenyls (PCBs), cadmium, chromium, lead, mercury, nickel, silver, zinc, total petroleum hydrocarbons, and xylene Surface-fiber: asbestos Ground water: pH, water level, specific conductance
Remarks:	Wells should be drilled to a maximum depth of 25 feet and screened at least one foot above the highest depth of the ground-water table to the bottom of the well. Ground-water samples should be collected once during the summer and once during the winter. Sediment samples should be taken at a zero to six inch depth; one sample from each location for a total of three samples.

[1]testing parameters are detailed in Appendix C



(Base From: WESTNAVFACENGCOM, 1981)

FIGURE 2-3
Recommended Sampling Locations for Site 1 - Magazine Road Landfill

PRELIMINARY ASSESSMENT/ SITE INSPECTION
NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA

Three soil samples should be taken from each soil boring and monitoring-well boring. These borings should be sampled at depths of visible contamination or at one, five, and 10 foot depths. The last sample should be taken above the water table if the ground-water level is less than 10 feet deep.

One surface-fiber sample should be taken from the landfill in a location where potential asbestos contamination is visible.

Two background soil samples should be taken (recommended locations are shown in Figure 2-1) and analyzed for EPA priority pollutants. The two background samples should be used as background for all soil sampling programs at NAF El Centro.

2.4.2 Site 2 - Patrol Road Landfill.

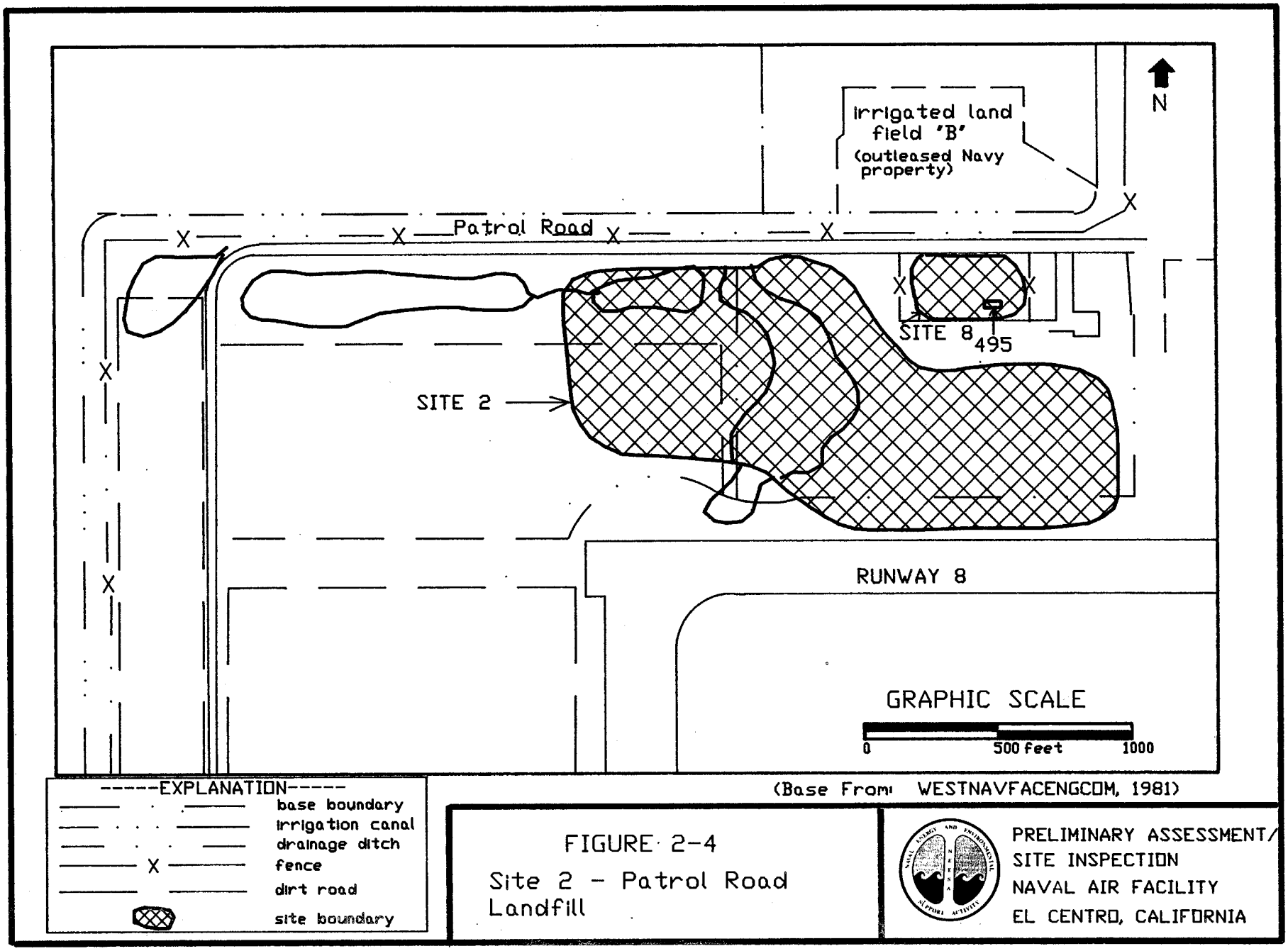
2.4.2.1 Findings. Site 2 is located at the northwest boundary of NAF El Centro along Patrol Road to the southwest of Building 495. The site boundary extends about 2,000 feet along Patrol Road and is about 750 feet wide as shown in Figure 2-4. The total landfill area is about 30 acres. A portion of this area, as shown in Figure 2-4, was a 15 to 20 foot deep natural wash. The wash was used as the base landfill. The rest of the area was used for the disposal of concrete, metal grating, asphalt runway expansion joints, and wood from runway refinishing and construction. This debris was piled on top of the ground surface. Site 2 was in operation from about 1946 until 1965 when landfill operations were switched to Site 1.

Site 2 is adjacent to irrigated land (outleased Navy property within NAF El Centro boundaries). Unlined drainage ditches run along the northern and southern boundaries with a connecting drainage ditch cutting through Site 2. These ditches run along the boundary of NAF El Centro until they merge with the Elder Canal (a lined irrigation canal) and drain off base to the New River.

Wastes disposed of in this landfill include: household rubbish, paint, solvents, photographic chemicals, asbestos, water-bearing fuel, mercury amalgam, batteries, empty drums, parachutes, spray cans, oil filters, sandblast grit, used hydraulic fluid, film, demolition debris, pesticide shop waste, spray paint filters, tires, asphalt, runway expansion joints, wood and battery acid. Table 2-2 lists the wastes potentially disposed of in this area.

During the on-site survey of January 1987, empty paint cans, concrete, asphalt, empty drums, developed film, parachutes, used rags, wood, scrap metal, and possibly asbestos were observed partially covered on the landfill surface.

2.4.2.2 Conclusions. Because of the large amounts of contaminants potentially disposed of in this landfill and the likelihood of off base contaminant migration by ground water, surface water, and wind, we recommend Site 2 for further work under the Navy IR Program.



(Base From: WESTNAVFACENGCOM, 1981)

FIGURE 2-4

Site 2 - Patrol Road Landfill

PRELIMINARY ASSESSMENT/
SITE INSPECTION
NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA

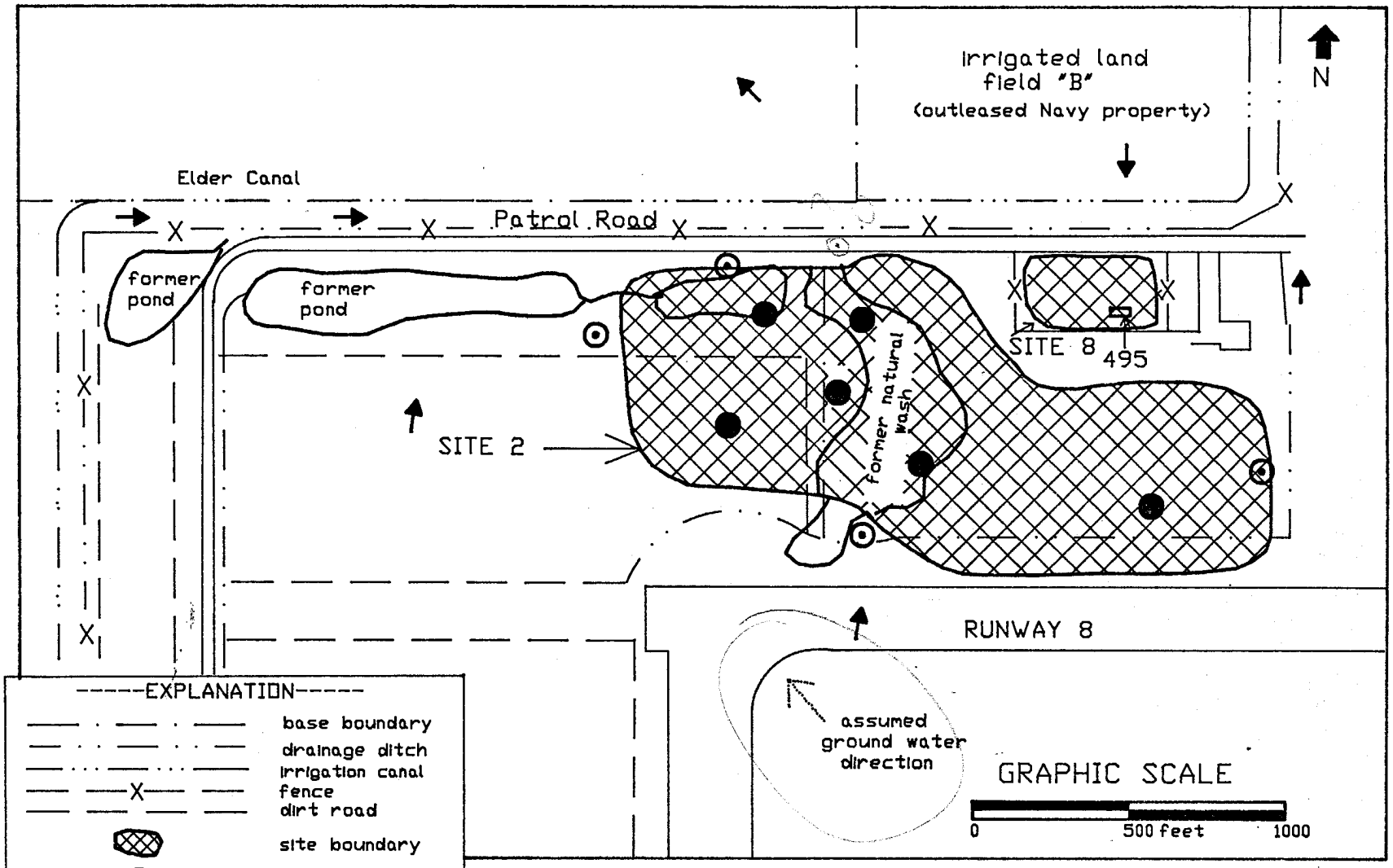
TABLE 2-2 Potential Contaminants Disposed of at Site 2, Naval Air Facility, El Centro, California

WASTE TYPE	ESTIMATED QUANTITY	YEARS OF DISPOSAL
Household Rubbish	3,000,000 cubic feet	1946 - 1965
Paint (containing chromium, lead, zinc)	5,000 gallons	1946 - 1965
Solvents:		
Carbon Tetrachloride Tetrachloroethylene Freon - 113 Trichloroethylene	8,000 gallons	1946 - 1965
Methyl Ethyl Ketone	5,000 gallons	1946 - 1965
Photographic Chemicals[a] (containing silver and cyanide)	unknown	1946 - 1965
Asbestos	50,000 cubic feet	1946 - 1965
Water-bearing Fuel:		
AVGAS (leaded)	1,000,000 gallons	1946 - 1965
Jet Fuel (JP-4, JP-5)	3,000,000 gallons	1946 - 1965
Diesel Fuel (DF-2)	10,000 gallons	1946 - 1965
Regular MOGAS (leaded)	20,000 gallons	1946 - 1965
Hydraulic Fluid (containing chromium, lead, zinc)	20,000 gallons	1946 - 1965
Mercury Amalgam	80 pounds	1946 - 1965
Batteries	2,000 batteries	1946 - 1965
Sandblast Grit (containing chromium lead, zinc)	100,000 pounds	1946 - 1965
Pesticides (chlorinated)	1,000 gallons	1946 - 1965
Acid (battery acid containing lead)	2,000 gallons	1946 - 1965
Motor Oil	10,000 gallons	1946 - 1965
Demolition Debris[b]	unknown	1946 - 1979

[a]disposed of as empty containers and occasionally as expired liquids
[b]includes wood, expansion joints, asphalt, concrete, and metal grating piled on top of the soil covering the entire site boundary

2.4.2.3 Recommendations. The following first-year sampling program is recommended to verify the presence of contaminants potentially disposed of at Site 2. Figure 2-5 shows the recommended sampling locations.

Monitoring Wells:	4
Types of Samples:	Ground-water, Surface water, Sediment, Soil, Surface-fiber
Number of Samples:	Ground water - 8 samples Surface water - 3 samples Sediment - 3 samples Soil - 30 samples Surface-fiber - 1 sample
Sampling Frequency:	Ground water - twice Surface water, Sediment, Soil, Surface-fiber - once
Testing Parameters:	Ground water, Surface water, Sediment, Soil: purgeable organic carbon compounds, acid extractable organic compounds, pesticides/PCBs, cadmium, chromium, lead, mercury, nickel, silver, zinc, total petroleum hydrocarbons, xylene Surface-fiber: asbestos Ground water: pH, specific conductance, water level
Remarks:	Wells should be drilled to a maximum depth of 25 feet and screened from at least one foot above the maximum height of the water table to the bottom of the well. Ground-water samples should be collected once in the summer and once in the winter. Surface water samples should be taken after a storm event, if possible. Sediment samples should be taken at a zero to six inch depth. One sample from each location, for a total of three samples. Three soil samples should be taken from each soil boring and monitoring-well boring. These borings should be sampled at depths of visible contamination or at one, five, and 10 foot depths. The last sample should be taken above the water table if the ground-water level is less than 10 feet deep. One surface-fiber sample should be taken from the landfill in a location where potential asbestos contamination is visible.



(Base From: WESTNAVFACENGCOM, 1981)

FIGURE 2-5

Recommended Sampling Locations for Site 2 - Patrol Road Landfill

PRELIMINARY ASSESSMENT/
SITE INSPECTION
NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA

2.4.3 Site 3 - Sludge Burial Area.

2.4.3.1 Findings. Site 3 is located at the northwest corner of NAF El Centro, about 500 feet to the east of the Sewage Stabilization Ponds, (Site 10), just north of Patrol Road as shown in Figure 2-6. This area was used to bury the sewage sludge from one drying bed in the Sewage Treatment Plant (STP) in 1986.

A pit about 20 feet by 10 feet by five feet deep was excavated for the burial of the sludge. This area has been recently graded. The exact location of the pit could not be determined during the on-site survey. Grab samples of discharge water from previous years show elevated levels of silver and cyanide; up to 500 parts per billion (ppb) total cyanide and 800 ppb silver can be concentrated within the sludge (Fair,1966). Table 2-3 details the contaminants potentially disposed of at Site 3.

Table 2-3 Potential Contaminants Disposed of at Site 3, Naval Air Facility, El Centro, California

WASTE TYPE	ESTIMATED QUANTITY	YEAR OF DISPOSAL
Sewage Sludge: (containing silver and cyanides)	800 cubic feet	1986

2.4.3.2 Conclusions. Because of the potential for silver and cyanide contamination, we recommend Site 3 for further work under the Navy IR Program.

2.4.3.3 Recommendations. The following sampling program is recommended to verify the presence of contaminants potentially disposed of at Site 3.

Types of samples: Soil

Number of samples: 4 samples

Sampling Frequency: once

Testing Parameters: Total cyanides, silver

Remarks: Figure 2-7 shows the recommended boring plan. Each boring should be drilled a maximum of seven feet. A sample should be taken at the visible sludge layer and one foot below the visible sludge layer. When no sludge layer is observed, no sample should be taken. Start with the first boring and continue with the boring plan until two sludge samples and two soil samples have been taken.

(b) (3) (B)

2.4.4 Site 4 - 4th Street Fire Fighting Training Area.

2.4.4.1 Findings. Site 4 is located just south of 4th Street about 200 feet northeast of the current fire fighting training area. Site 4 is an earthen bermed, unlined 15 foot diameter pit as seen in Figure 2-8. This area was used for fire fighting training during the years 1963 through 1975. No visible soil stains were observed in the area during the on-site survey of January 1987. Site 4 was used to burn confiscated drugs and drug paraphernalia after fire fighting exercises ceased operations in this area and prior to the operations at Site 12 (Section 2.4.12).

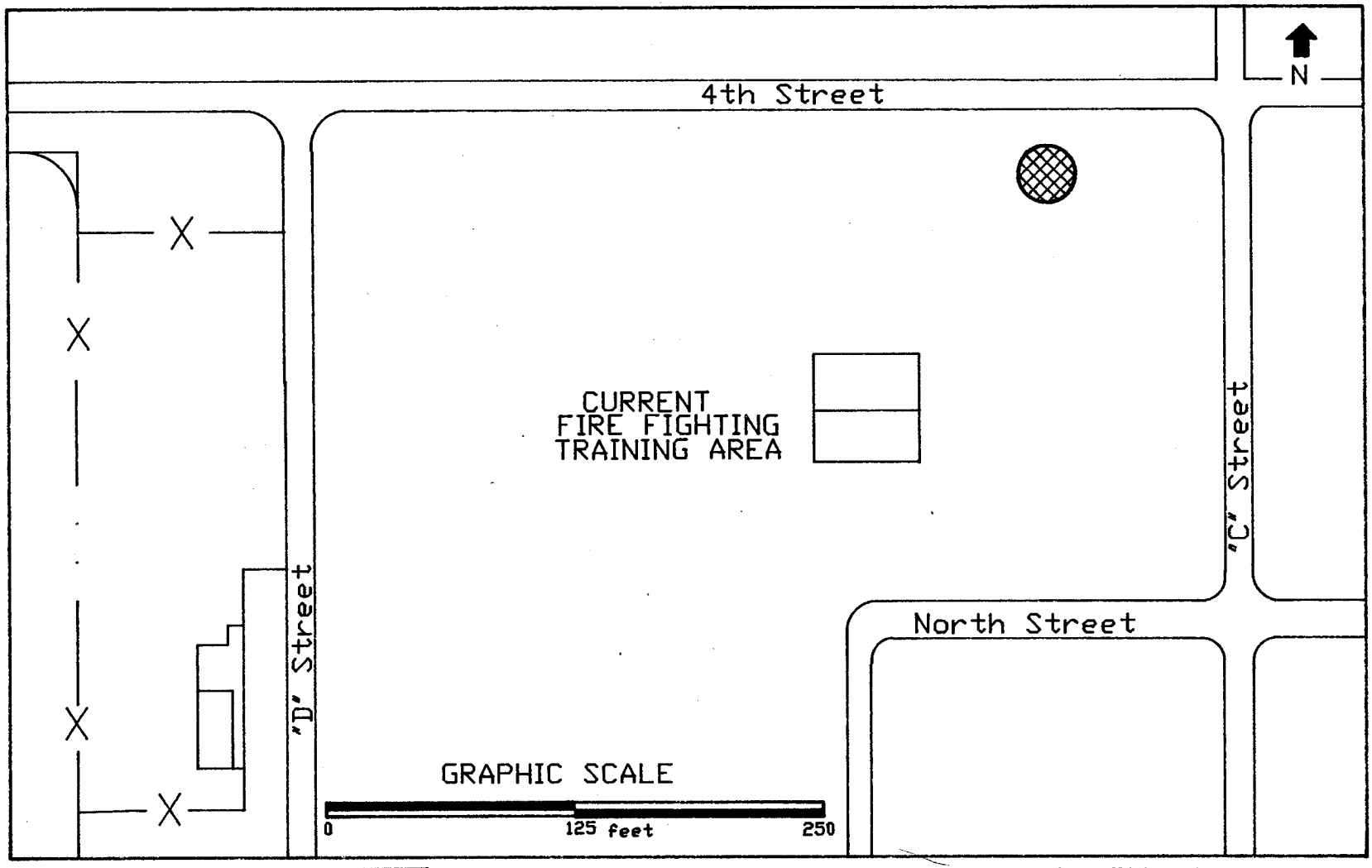
Fire fighting exercises were performed at this site every weekend for nine months of the year. July, August, and September are normally too hot for fire fighting exercises to be performed. The exercise consisted of pouring a layer of water-bearing fuel on top of a water layer and igniting it. The fire is then extinguished with water or Aqueous Film Forming Foam (AFFF). The fuel was always ignited over a layer of water at this pit.

Fuels used at this pit included: regular MOGAS (leaded), AVGAS (leaded), JP-4, JP-5, Diesel Fuel #2 (DF-2), and also used hydraulic fluid (containing chromium, nickel, and zinc). Table 2-4 lists the types and quantities of wastes used at Site 4.

TABLE 2-4 Potential Contaminants Used at Site 4, Naval Air Facility, El Centro, California

WASTE TYPE	ESTIMATED QUANTITY	YEARS OF DISPOSAL
Water-bearing Fuel:		
JP-5	200,000 gallons	1963 - 1975
JP-4	300 gallons	1963 - 1975
AVGAS (leaded)	500 gallons	1963 - 1975
MOGAS Regular (leaded)	1,000 gallons	1963 - 1975
Diesel Fuel #2 (DF-2)	700 gallons	1963 - 1975
Hydraulic Fluid (containing chromium, nickel, and zinc)	20 gallons	1963 - 1975

2.4.4.2 Conclusions. Because of the large quantity of fuels used in this area, Site 4 is recommended for further work under the Navy IR Program. The migration of contaminants to the Elder Canal is possible through ground-water migration. Soils are of low permeability, therefore, contaminants from Site 4 and the current fire fighting training area will be indistinguishable and should be investigated together.



(Base From: WESTNAVFACCOMBRD, 1981)

-----EXPLANATION-----

drainage ditch

fence

site boundary

FIGURE 2-8

Site 4 - 4th Street Fire Fighting Training Area

PRELIMINARY ASSESSMENT/
SITE INSPECTION
NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA

2.4.4.3 Recommendations. The following first-year sampling program is recomme ded to verify the presence of contaminants potentially used at Site 4. Figure 2-9 shows the recommended sampling locations.

Monitoring Wells:	3
Types of samples:	Ground-water, Soil
Number of samples:	Ground water - 6 samples Soil - 9 samples
Sampling Frequency:	Ground water - twice Soil - once
Testing Parameters:	All samples: purgeable organic carbon compounds, chromium, lead, nickel, zinc, total petroleum hydrocarbons, xylene Ground water: pH, specific conductance, water level
Remarks:	Wells should be drilled to a maximum of 25 feet and screened from at least one foot above the highest depth of the ground-water table to the bottom of the well. Ground-water samples should be collected once during the summer and once during the winter. Four inch wells should be used if free product recovery is anticipated. Three soil samples should be taken from each monitoring well boring. These samples should be taken at depths of visible contamination or at one, four, and eight foot depths. The last sample should be taken above the water table if the ground-water level is less than eight feet deep.

2.4.5 Site 5 - Fire Fighting Training Area East of Hangar #3.

2.4.5.1 Findings. Site 5 is about 600 feet to the east of Hangar #3 between Taxiway "E" and the intersection of Runways 3 and 30. Site 5 is a 50 foot diameter, unlined circular area with an earthen berm. This area was used for fire fighting training exercises from before 1958 until 1963. Site 5 is shown in Figure 2-10.

Ten fire fighting training exercises were performed in this area every weekend. Water-bearing fuel was poured into the bermed area as it was generated. There was no water layer beneath the fuel layer. Soils in this area are slightly permeable thus most of the contaminated fuel poured into the pit did not seep into the ground before it evaporated or was ignited.

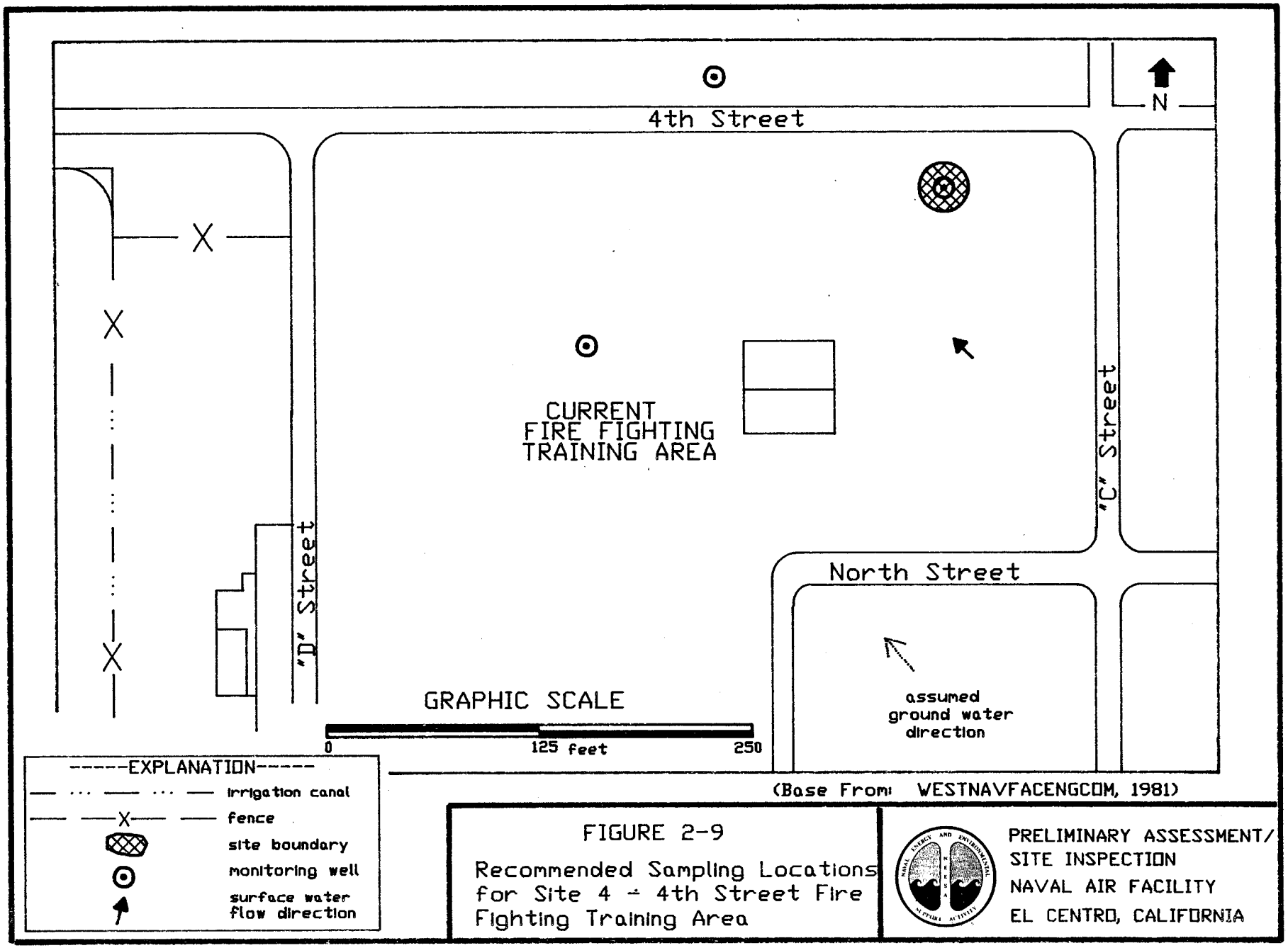


FIGURE 2-9

Recommended Sampling Locations for Site 4 - 4th Street Fire Fighting Training Area

PRELIMINARY ASSESSMENT/
SITE INSPECTION
NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA

(b) (3) (B)

Fuels used at this fire fighting training area include JP-4 and AVGAS (leaded). Table 2-5 lists the types and quantities of fuels used at Site 5.

TABLE 2-5 Potential Contaminants Used at Site 5, Naval Air Facility, El Centro, California

WASTE TYPE	ESTIMATED QUANTITY	YEARS OF DISPOSAL
Water-bearing Fuel:		
JP-4	80,000 gallons	1958 - 1963
AVGAS (leaded)	80,000 gallons	1958 - 1963

2.4.5.2 Conclusions. Because of the large amounts of fuels used in this area and the potential for lead contamination, Site 5 is recommended for further work under the Navy IR Program.

2.4.5.3 Recommendations. The following first-year sampling program is recommended to verify the presence of contaminants potentially used at Site 5. Figure 2-11 shows the recommended sampling locations.

Monitoring Wells: 3

Types of samples: Ground-water, Soil

Number of samples: Ground water - 6 samples
Soil - 6 samples

Sampling Frequency: Ground water - twice
Soil - once

Testing Parameters: All samples: purgeable organic carbon compounds, chromium, lead, nickel, zinc, total petroleum hydrocarbons, xylene

Ground water: pH, specific conductance, water level

Remarks: Wells should be drilled to a maximum of 25 feet and screened from at least one foot above the highest depth of the ground-water table to the bottom of the well. Ground-water samples should be collected once during the summer and once during the winter. Four inch wells should be used if free product recovery is anticipated.

(b) (3) (B)

Soil borings should be drilled to a depth of 15 feet. Three soil samples should be taken from both soil borings. Samples should be taken at depths of visible contamination or at one, four, and eight foot depths. The last sample should be taken above the water table if the ground-water level is less than eight feet deep.

2.4.6 Site 6 - Northwest Fire Fighting Training Area.

2.4.6.1 Findings. The exact location of Site 6 is unknown. The approximate location is within irrigated land field "C" about 750 feet to the east of the sewage treatment plant. Site 6 is about the same size as Site 5. This area was used for fire fighting training exercises from about 1946 through 1958. During the on-site survey of January 1987, no evidence of this fire fighting training area was visible. Old General Development Maps (WESTNAVFACCOMBRO, 1961) and aerial photographs (1953) helped to approximate the location of Site 6. The approximate location of Site 6 is shown on Figure 2-12.

Because the amount of fire fighting training practices required has not changed from 1958 until the present, we assumed it was the same during the operation of Site 6, see Section 2.4.5.1 for a description of fire fighting training exercises.

The only fuel reportedly used at Site 6 was AVGAS (leaded). Table 2-6 lists quantities and years of disposal of AVGAS at Site 6.

TABLE 2-6 Potential Contaminants Used at Site 6, Naval Air Facility, El Centro, California 8015 mod.

WASTE TYPE	ESTIMATED QUANTITY	YEARS OF DISPOSAL
Water-bearing fuel: Kerosine AVGAS (leaded)	300,000 gallons	1946 - 1958

2.4.6.2 Conclusions. Because of the large amount of AVGAS used in this area, its length of operation, and the potential for lead contamination, Site 6 is recommended for further work under the Navy IR Program. Contaminant migration is possible through the ground water to the drainage ditches and eventually the New River.

2.4.6.3 Recommendations. The following sampling program is recommended to verify the presence of contaminants potentially used at Site 6. Figure 2-13 shows the recommended sampling locations.

(b) (3) (B)

(b) (3) (B)

Types of samples: Soil

Number of samples: 18 samples

Sampling Frequency: once

Testing Parameters: All samples: purgeable organic carbon compounds, total petroleum hydrocarbons, xylene, lead

Remarks: Three soil samples should be taken from each soil boring. Samples should be taken at depths of visible contamination or at one, four, and seven foot depths. The last sample should be taken above the water table if the ground water is less than seven feet deep.

2.4.7 Site 7 - Abandoned Fuel Farm.

2.4.7.1 Findings. Site 7 is located about 500 feet north of 4th Street in between Runway 26 and Taxiway "A". Building 459 is about 750 feet to the southwest of the abandoned fuel farm as shown in Figure 2-14. This fuel farm was used prior to the expansion of Runway 26. The fuel farm consisted of five 50,000 gallon underground concrete storage tanks and six 25,000 gallon underground concrete storage tanks. In 1958 the fuel farm was relocated to the southeast corner of the base. The concrete tanks were crushed and filled with dirt. The fuel was removed from the tanks prior to crushing. Whether or not the tanks were leaking is not known.

The fuel farm had four truck fill stations. The underground storage tanks were filled by tankers. These tanks were filled until fuel flowed out the vents. Aircraft refueling trucks and small tankers brought fuel to aircraft refueling points and gas stations. Spillage often occurred at Site 7 during these transfers.

Types of fuels stored at this fuel farm were AVGAS (leaded), Regular MOGAS (leaded), Diesel Fuel, and JP-4. Table 2-7 details the wastes potentially disposed of at Site 7.

TABLE 2-7 Potential Contaminants Disposed of at Site 7, Naval Air Facility, El Centro, California

WASTE TYPE	ESTIMATED QUANTITY	YEARS OF DISPOSAL
Water-bearing Fuel:		
AVGAS (leaded)	10,000 gallons	1942 - 1958
JP-4	10,000 gallons	1942 - 1958
MOGAS Regular (leaded)	10,000 gallons	1942 - 1958
Diesel Fuel (DF-2)	10,000 gallons	1942 - 1958

(b) (3) (B)

2.4.7.2 Conclusions. Because of the frequent spillage that occured in this area and the potential for lead contamination, Site 7 is recommended for further work under the Navy IR Progam.

2.4.7.3 Recommendations. The following sampling program is recommended to verify the presence of contaminants potentially disposed of at Site 7. Figure 2-15 shows the recommended sampling locations.

Types of samples:	Soil
Number of samples:	12 samples
Sampling Frequency:	once
Testing Parameters:	All samples: purgeable organic carbon compounds, total petroleum hydrocarbons, xylene, lead
Remarks:	A geophysical survey may be performed to identify the crushed concrete tank locations. Three soil samples should be taken from each boring. These samples should be taken at depths of visible contamination or at one, five, and 10 foot depths. The last sample should be taken above the water table if the ground water is less than 10 feet deep.

2.4.8 Site 8 - Scrapyard.

2.4.8.1 Findings. Site 8 is located on Patrol Road directly west of Buildings 493 and 494. Buildings 495 is within the site boundaries. The scrapyard is bordered on the south and west by the Patrol Road Landfill (Site 2) as shown on Figure 2-16. Site 8 is a rectangular fenced-in area about 500 feet long and 250 feet wide. The total area covered by the scrapyard is about three acres. The scrapyard was constructed by the Defense Reutilization and Marketing Office (DRMO) in 1958 for the storage of sellable metals.

DRMO attempted to clear the scrapyard in 1982. They contracted the removal of material within the scrapyard for final closure, however the contractor removed only the profitable metals and then abandoned the remaining scrap. Those items the contractor did not remove are currently in the scrapyard.

Items stored at the scrapyard include: old refrigerators, water coolers, empty drums, tanks, pai t cans, film and film canisters, sand blast equipment, spent transformers (probably containing transformer fluid), and any other scrap material made from metal. In 1983, five empty transformers were removed from the scrapyard for off-base disposal. The fluid from these transformers probably leaked onto the soil within the site boundary. The on-site survey of January 1987 showed no visible evidence of oil-stained soil in the area. Table 2-8 lists the identified contaminants of concern potentially disposed of at Site 8.

(b) (3) (B)

(b) (3) (B)

TABLE 2-8 Potential Contaminants of Concern at Site 8, Naval Air Facility, El Centro, California

WASTE TYPE	ESTIMATED QUANTITY	YEARS OF DISPOSAL
Transformer Fluid (containing PCBs)	200 gallons	1958 - 1982
Paint (containing chromium, lead, and zinc)	Unknown[a]	1958 - 1982

[a]paint from old, discarded paint cans and spray paint cans

2.4.8.2 Conclusions. Because of the potential for PCB contamination of the soil within the scrapyard, Site 8 is recommended for further work under the Navy IR Program. Site 8 is flat with no ground cover therefore, creating a potential for windblown migration of contaminants. Contaminants may also migrate through ground water or surface water movement to unlined drainage ditches located near by then eventually draining to the New River.

2.4.8.3 Recommendations. The following sampling program is recommended to verify the presence of contaminants potentially disposed of at Site 8. Figure 2-17 shows the recommended sampling locations.

Types of samples: Soil

Number of samples: 30 samples

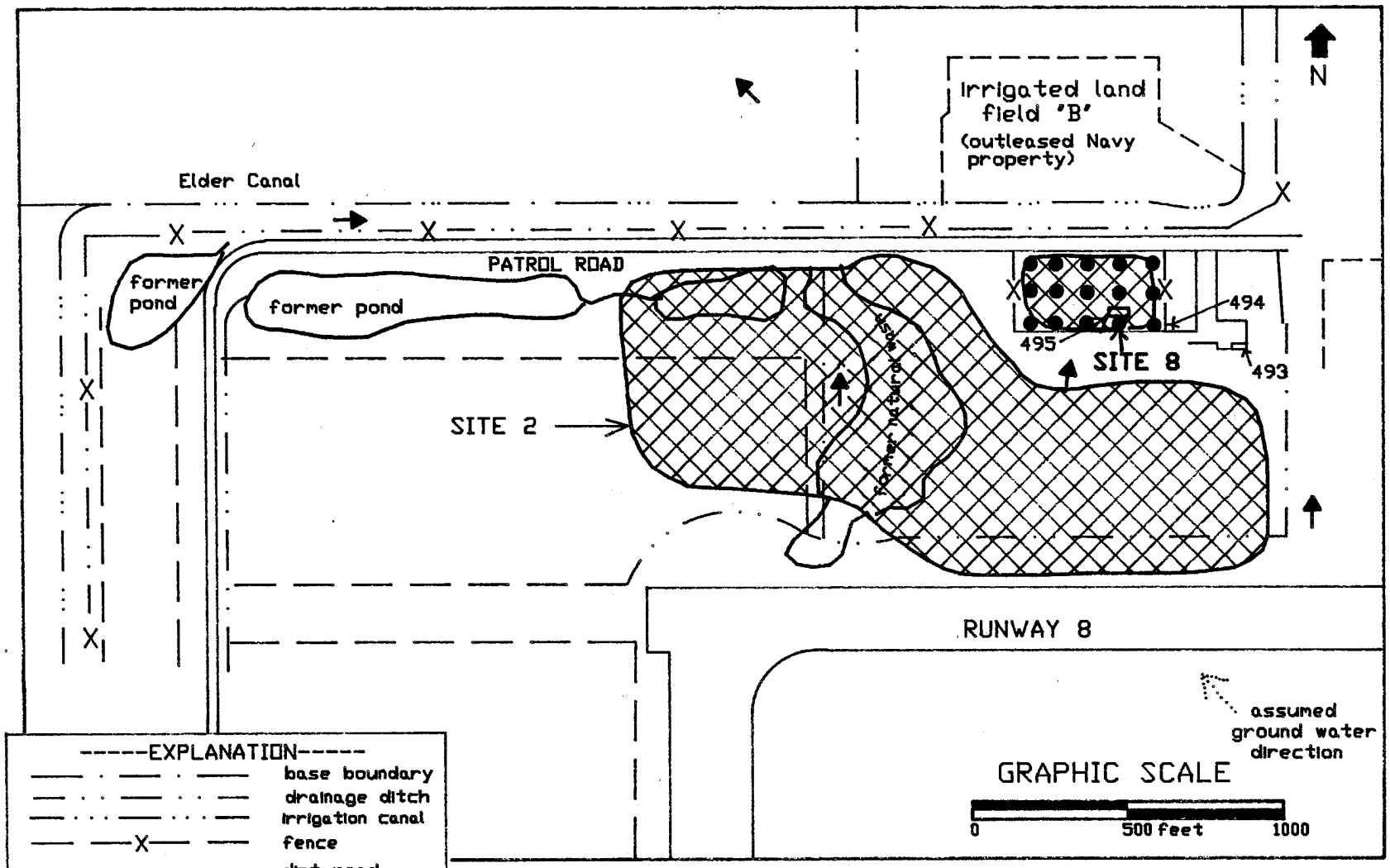
Sampling Frequency: once

Testing Parameters: All Samples: PCBs, hexavalent and total chromium, lead, zinc

Remarks: Soil samples should be collected at depths of visible contamination or from 0 - 1.5 feet and 3.0 - 5.0 feet from each boring.

2.4.9 Site 9 - Transformer Storage Area

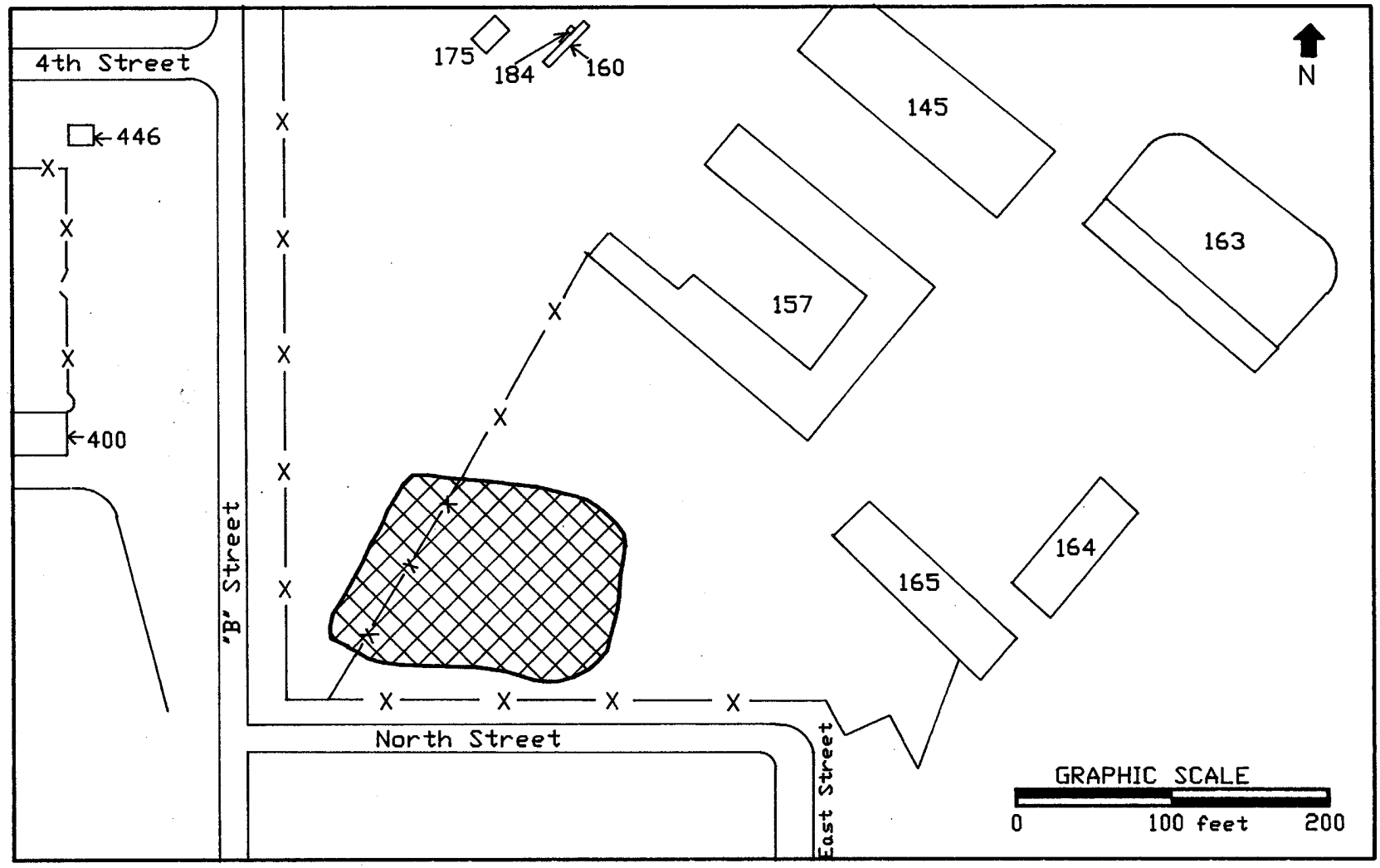
2.4.9.1 Findings. Site 9 is located to the east of "B" Street and to the north of North Street. Building 157 is about 100 feet to the northeast, as shown in Figure 2-18. Site 9 consists of a 150 foot by 150 foot area which is currently divided by a fence. The total area of the site is about 0.5 acre. This area was used to store transformers during the years 1963 through 1983. In 1983, Navy personnel drained, cleaned, and prepared over 100 transformers from this area for off-base disposal by a contractor. This area has been used as a materials/equipment storage area in the past and is the current site of the motor pool. The land surface is completely covered with gravel.



(Base From: WESTNAVFACENGCOM, 1981)

FIGURE 2-17
Recommended Sampling Locations for Site 8 - Scrapyard

PRELIMINARY ASSESSMENT/ SITE INSPECTION
NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA



(Base From: WESTNAVFACENGCOM, 1981)

-----EXPLANATION-----

X fence

site boundary

building

FIGURE 2-18

Site 9 - Transformer Storage Area

PRELIMINARY ASSESSMENT/ SITE INSPECTION
NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA

During the 20 years of operation, active and damaged transformers were stored in this area. This area was always unpaved. Several photographs, taken during the 1983 removal, show leaking and upturned transformers. Several reports confirmed that during several occasions, the soil in this area was saturated with oil. In 1983, some of the leaks were cleaned up by removing the soil and drumming it for off-base disposal, however, a large scale clean up has never taken place. The average size of transformers stored at Site 9 was 85 gallons. Over one half of the t ansformers used at NAF El Centro contained PCBs.

The contaminant of concern is transformer fluid containing PCBs. Table 2-9 lists the contaminants determined to exist at Site 9.

TABLE 2-9 Potential Contaminants Present at Site 9, Naval Air Facility, El Centro, California

WASTE TYPE	ESTIMATED QUANTITY	YEARS OF DISPOSAL
Transformer Fluid (containing PCBs)	500 gallons	1963 - 1983

2.4.9.2 Conclusions. Because of the potential for PCB contamination of the soil at the former transformer storage area, Site 9 is recommended for further work under the Navy IR Program. The effectiveness of the 1983 clean up has never been checked.

2.4.9.3 Recommendations. The following sampling program is recommended to verify the presence of contaminants potentially present at Site 9. Figure 2-19 shows the recommended sampling locations.

Types of samples: Soil

Number of samples: 35 samples

Sampling Frequency: once

Testing Parameters: All Samples: PCBs

Remarks: Two samples should be taken from each soil boring. These samples should be taken at depths of visible contamination or at 0 - 1.0 foot and 1.5 to 3.0 feet depths. The top layer of gravel should be removed. In addition, five borings (recommended locations shown on Figure 2-19) should also be sampled at a 3.5 - 5.0 foot depth.

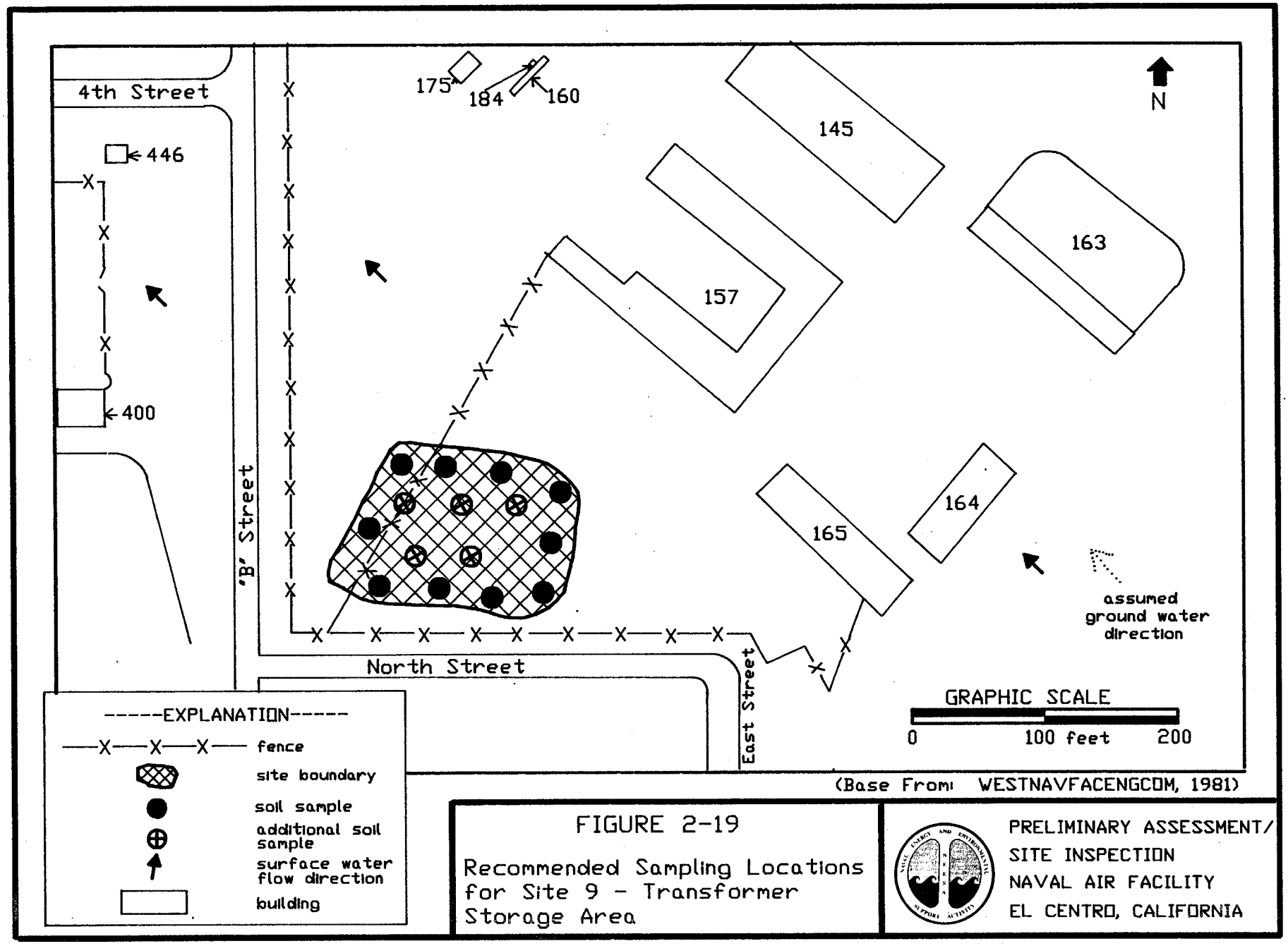


FIGURE 2-19

Recommended Sampling Locations for Site 9 - Transformer Storage Area

2.4.10 Site 10 - Sewage Stabilization Ponds.

2.4.10.1 Findings. Site 10 is located in the extreme northwest corner of the base just north of the current sewage treatment plant (STP). Three unlined ponds comprise this area. The largest pond is about 500 feet long, 250 feet wide, and ten feet deep. The smaller two ponds are about 250 feet long, 100 feet wide, and 10 feet deep each, as shown in Figure 2-20. The total area of Site 10 is about four acres. This area was used prior to 1976 when the STP came on-line. These ponds are currently used as a back-up to the STP. For example, in May 1985, about 300 gallons of JP-5 killed the bacteria in the wastewater at the STP so the wastewater was diverted into one of the smaller ponds.

The stabilization ponds functioned as the only sewage treatment for the base until 1976. Sewage flowed into the ponds, the solids were given time to settle, and the effluent was sent to the New River. Sludge (solids) has never been removed from any of these ponds. Vegetation is abundant in each pond. Currently, all the ponds are dry.

Shops or areas that disposed waste to the sewer system are potential sources of contamination of these ponds. These waste sources include: the photographic shop, aircraft hangars and aprons, and the plating shop.

Table 2-10 lists the potential contaminants at Site 10.

2.4.10.2 Conclusions. Because of the potential for metals contamination of the soil, Site 10 is recommended for further work under the Navy IR Program.

2.4.10.3 Recommendations. The following sampling program is recommended to verify the presence of contaminants potentially disposed of at Site 10. Figure 2-21 shows the recommended sampling locations.

Types of samples:	Soil	
Number of samples:	20 samples	
Sampling Frequency:	once	
Testing Parameters:	All samples:	purgeable organic carbon compounds, arsenic, cadmium, chromium, lead, nickel, silver, zinc, xylene, total cyanides
Remarks:	Two soil samples should be taken from each soil boring. These samples should be taken at depths of visible contamination or at zero and three foot depths.	

(b) (3) (B)

TABLE 2-10 Potential Contaminants Disposed of at Site 10, Naval Air Facility, El Centro, California

WASTE TYPE	ESTIMATED QUANTITY	YEARS OF DISPOSAL
Water-bearing Fuels:		
JP-4	unknown[a]	1958 - 1976
JP-5	300 gallons[a]	1958 - 1985
AVGAS (leaded)	unknown[a]	1946 - 1976
Hydraulic fluid (containing chromium, lead, nickel, zinc)	40,000 gallons	1946 - 1976
Motor Oil	20,000 gallons	1946 - 1976
Ethylene Glycol	20,000 gallons	1946 - 1976
Trichloroethylene	5,000 gallons	1955 - 1972
Carbon Tetrachloride Tetrachloroethylene	5,000 gallons	1946 - 1953
PD-680 Freon-113	2,000 gallons	1971 - 1976
Plating Waste (containing cadmium and arsenic)	100 gallons	1971 - 1976
Photographic Solutions		
Black & White (silver)	200,000 gallons	1946 - 1976
Color (cyanide)	30,000 gallons	until 1976

[a]mainly from spills that reached the sewer system

2.4.11 Site 11 - Runway Burn Area.

2.4.11.1 Findings. Site 11 is located about 250 feet southwest of Runway 30 and 450 feet due northeast of Compass Rose as shown in Figure 2-22. Site 11 is a circular area about 200 feet in diameter. This area was used for aircraft fire fighting exercises during 1979 through 1980.

The remains of a crashed T-28 were periodically set ablaze with JP-5 and then extinguished as a fire fighting training exercise. The on-site survey showed no visible evidence of this area. Information obtained from aerial photographs and interviews identified the site location and operation. Table 2-11 lists the wastes potentially used at Site 11.

(b) (3) (B)

(b) (3) (B)

TABLE 2-11 Potential Contaminants Disposed of at Site 11, Naval Air Facility, El Centro, California

WASTE TYPE	ESTIMATED QUANTITY	YEARS OF DISPOSAL
JP-5	Unknown	1979 - 1980

2.4.11.2 Conclusion. Site 11 is recommended for further work under the Navy IR Program to determine the extent, if any, of contamination in the soil.

2.4.11.3 Recommendations. The following sampling program is recommended to verify the presence of contaminants potentially disposed of at Site 11. Figure 2-23 shows the recommended sampling locations.

Types of samples: Soil

Number of samples: 4 samples

Sampling Frequency: once

Testing Parameters: All Samples: total petroleum hydrocarbons, benzene, toluene, xylene

Remarks: Two soil samples should be taken from each soil boring. These samples should be taken at depths of visible contamination or at one and three foot depths.

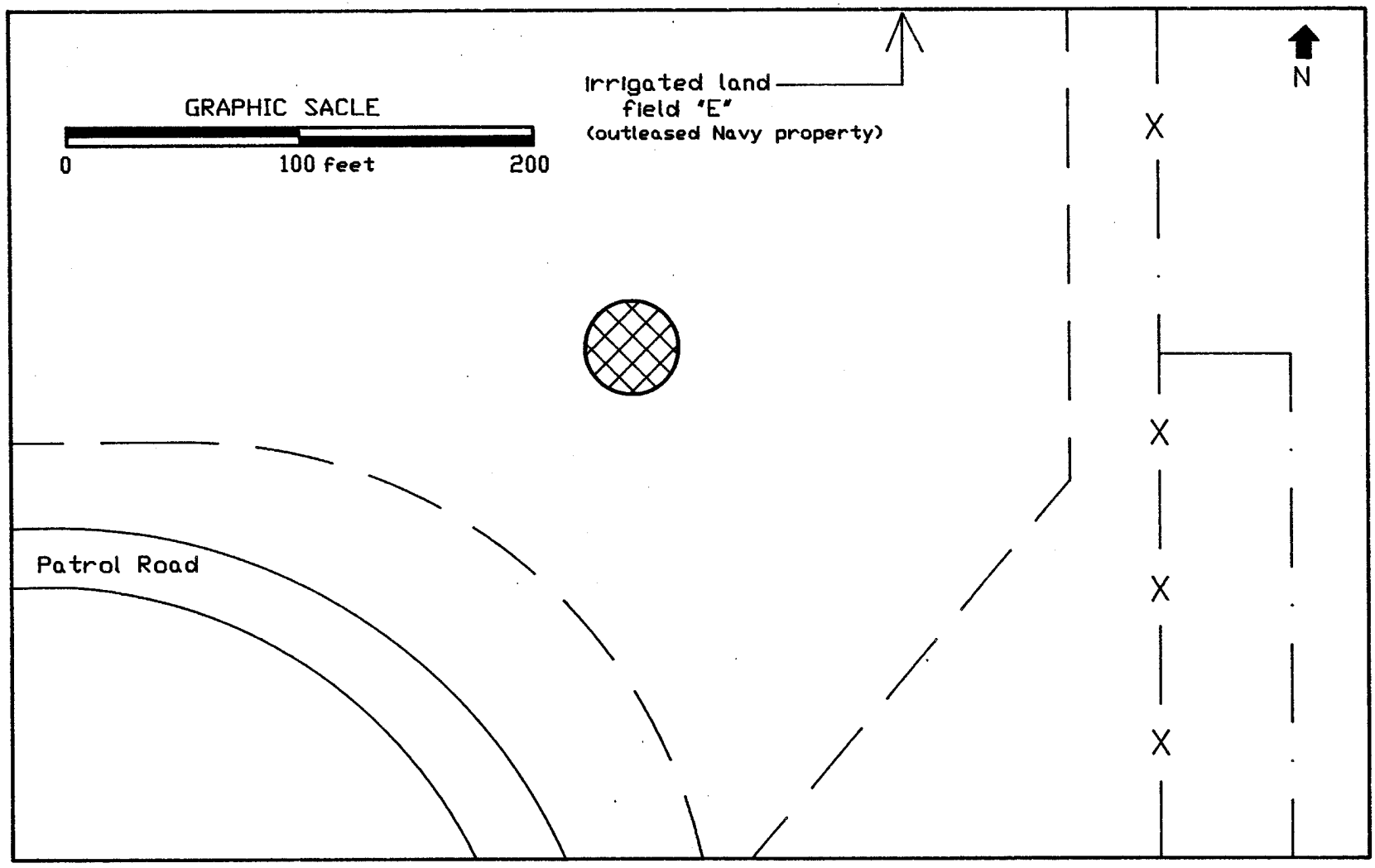
2.4.12 Site 12 - Open Burn Pit.

2.4.12.1 Findings. Site 12 is located along the eastern boundary of the base about 75 feet north of Patrol Road. Irrigated field "E" is about 200 feet to the north. The base boundary is about 200 feet to the east as shown in Figure 2-24. The pit is about 20 feet by 20 feet by 10 feet deep. This pit was used for burning from 1981 to 1986. A new burn pit has been excavated about 50 feet to the west of Site 12 which is currently being used for the same burning operation. The original pit (Site 12) has been filled and graded.

Burning was conducted about once per month at this pit, although burning was intermittent. Confiscated drugs and drug paraphernalia, ceramic pipes, cardboard, tin-coated steel cans, mason jars and wood are doused with water-bearing fuel and allowed to burn to completion. Table 2-12 lists the contaminants of concern used at Site 12.

Since the on-site survey of January 1987, the newly excavated pit 50 feet west of Site 12 has been closed. The burning of confiscated drugs no longer takes place at NAF El Centro.

(b) (3) (B)



(Base From: WESTNAVFACENGCOM, 1981)

-----EXPLANATION-----

- base boundary
- fence
- dirt road
- site boundary

FIGURE 2-24
Site 12 - Open Burn Pit

PRELIMINARY ASSESSMENT/
SITE INSPECTION
NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA

TABLE 2-12 Potential Contaminants Used at Site 12, Naval Air Facility, El Centro, California

WASTE TYPE	ESTIMATED QUANTITY	YEARS OF DISPOSAL
Water-bearing Fuel: JP-5 (unleaded)	3000 gallons (50 gallons per burn)	1981 - 1986

2.4.12.2 Conclusions. Most of the material burned at this pit was combustible. Water-bearing fuel was not applied to the pit contents until the time of burning. Essentially, only JP-5 (unleaded) fuel was used. These factors lead to the conclusion, that any hazardous constituent used at Site 12 (JP-5) has been burned away or volatilized. Site 12 is therefore not recommended for further work under the Navy IR Program.

2.4.13 Site 13 - Old Incinerator.

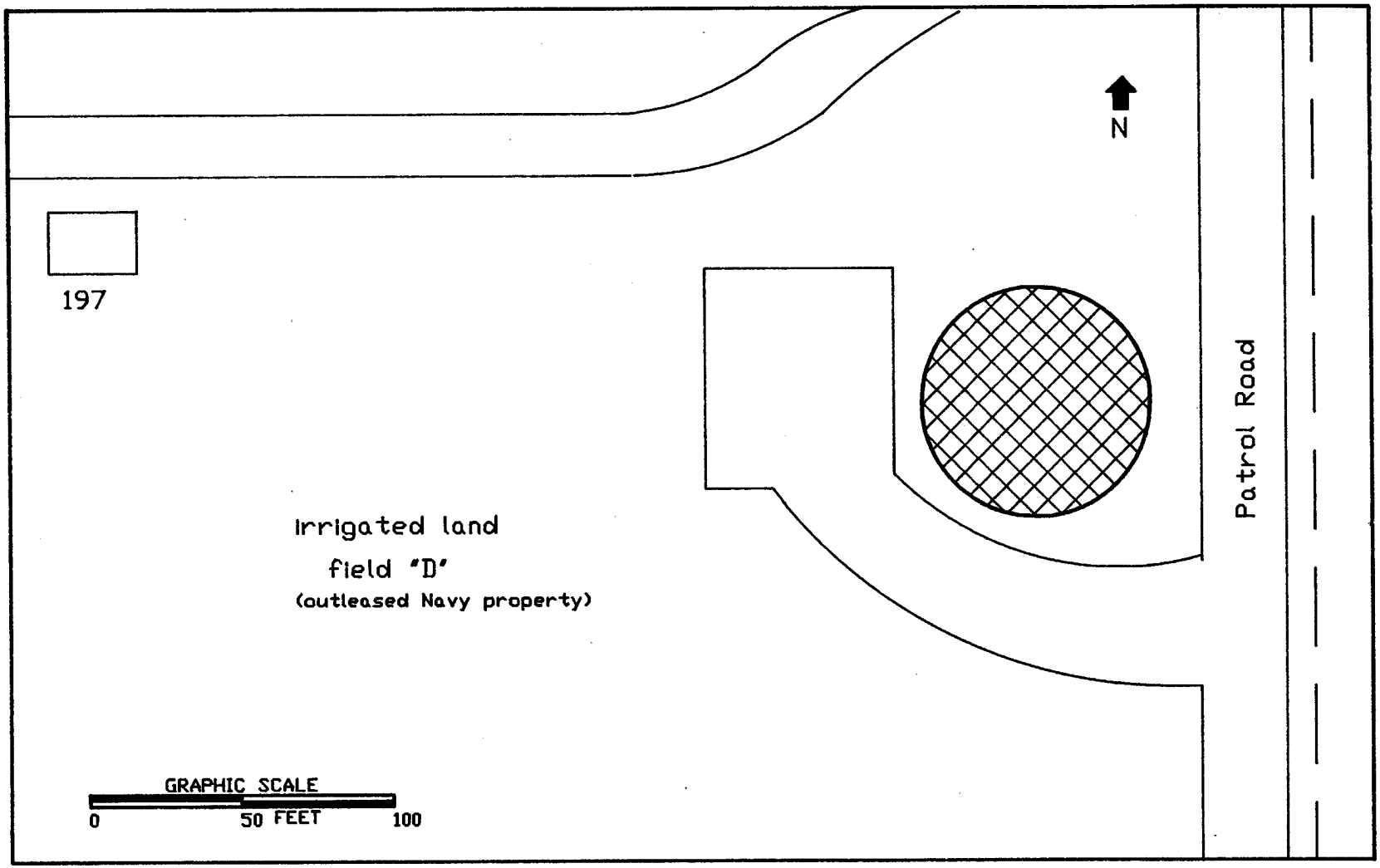
2.4.13.1 Findings. Site 13 is located in the northeast corner of the base along Patrol Road. Building 197 is about 300 feet to the west as shown in Figure 2-25. The incinerator and surrounding ash burial area make up a 50 foot by 50 foot area. The incinerator was used starting in 1942 and ceased operations prior to 1953.

The old incinerator was used for the burning of paper only, probably classified material. The ash from the incinerator was buried in the immediate surrounding area. After ceasing operations as an incinerator, the structure was used to store ammunition for a short period of time. The incinerator was demolished in 1980. No hazardous materials were disposed of here.

2.4.13.2 Conclusions. Because no hazardous materials were ever disposed of here, Site 13 is not recommended for further work under the Navy IR Program.

2.4.14 Site 14 - Fuel Farm Tank Rinseate Disposal Area.

2.4.14.1 Findings. Site 14 is located in the southwest corner of the fuel farm area. The site boundary is about 300 feet southeast of Building 619, 300 feet southwest of Irrigated Field "P", and 15 feet from the base boundary. The site covers an area about 600 feet by 350 feet. The total area of the site is about five acres. This area was used from approximately 1960 through 1985 as a runoff area for rinseate water after cleaning the eight fuel storage tanks in the fuel farm. Site 14 is shown in Figure 2-26.



(Base From: WESTNAVFACENGCOM, 1981)

-----EXPLANATION-----

dirt road

site boundary

FIGURE 2-25

Site 13 - Old Incinerator

PRELIMINARY ASSESSMENT/
SITE INSPECTION
NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA

Cleaning the fuel storage tanks was performed by filling the tanks with water and letting them drain into the site. This area is low-lying so the rinseate would settle in this area until it evaporated or soaked into the soil. All the tanks were cleaned at the same time. Some of the tanks probably contained fuel product as well as sludge. Tanks were cleaned about every other year starting in 1960 until 1985. Contaminants potentially disposed of in this area are: JP-4, JP-5, AVGAS (leaded), Diesel Fuel #2, and MOGAS Regular (leaded) and Unleaded. Table 2-14 lists the contaminants potentially disposed of at Site 14.

TABLE 2-14 Potential Contaminants Disposed of at Site 14, Naval Air Facility, El Centro, California

WASTE TYPE	ESTIMATED QUANTITY	YEARS OF DISPOSAL
Water-bearing Fuel:		
JP-4	500,000 gallons	1960 - 1985
JP-5	500,000 gallons	1960 - 1985
AVGAS (leaded)	3,000 gallons	1960 - 1985
MOGAS - Regular (leaded)	5,000 gallons	1960 - 1985
- Unleaded	2,000 gallons	1960 - 1985
Diesel Fuel #2 (DF-2)	3,000 gallons	1960 - 1985

2.4.14.2 Conclusions. Because of the quantities of fuels disposed of at Site 14 and the possibility of contaminant migration off base by surface runoff to drainage ditches or through ground-water migration, Site 14 is recommended for further work under the Navy IR Program.

2.4.14.3 Recommendations. The following first-year sampling program is recommended to verify the presence of contaminants potentially disposed of at site 14. Figure 2-27 shows the recommended sampling locations.

Monitoring Wells: 1

Types of samples: Ground water, Soil

Number of samples: Ground water - 2 samples
Soil - 12 samples

Sampling Frequency: Ground water - twice
Soil - once

Testing Parameters: All samples: total petroleum hydrocarbons, benzene, toluene, xylene, lead

Ground water: pH, specific conductance, Water level

Remarks: The well should be drilled to a maximum depth of 25 feet and screened from at least one foot above the highest depth of the water table to the bottom of the well. Ground-water samples should be collected once during the summer and once during the winter. Four inch wells are recommended if fuel product recovery is anticipated. The ground-water monitoring program should be combined with Site 15 in order to collect the required hydrologic data for the fuel farm area.

Three soil samples should be collected from each soil boring and monitoring-well boring. These samples should be taken at depths of visible contamination or at one, three, and six foot depths. The last sample should be taken above the water table if the ground water is less than six feet deep.

2.4.15 Site 15 - Fuel Farm Filter Cleaning Area.

2.4.15.1 Findings. Site 15 is located in the northwest corner of the fuel farm area. The site boundary is about 50 feet northeast of Building 616 and 100 feet from Irrigated Field "P", as shown in Figure 2-28. The site covers an area about 250 feet long and 150 feet wide. This area received fuel during filter cleaning from about 1958 until 1981.

Every three years the fuel filters in the fuel farm are cleaned. During this operation, about 100 gallons of fuel is spilled onto the ground. Small sumps were constructed next to each filter. The sides of the sumps were made of concrete and each had a hole in the bottom. The spilled fuel entered the sump and was allowed to seep into the soil about two feet below the surface. Since 1981 these sumps have been filled in. During the on-site survey of January 1987, contaminated soils were visible in several two foot deep holes. Free product was observed in four 13 foot deep trenches. The location of these trenches are shown in Figure 2-28. Approximately five feet of product was observed in Trenches 1 and 2; six inches in Trench 3; and two inches in Trench 4. Soil samples taken in this area show 1200 parts per million (ppm) total petroleum hydrocarbons and 5.8 ppm lead (RGA, 1987).

Contaminants potentially present in this site include: JP-4, JP-5, AVGAS (leaded), MOGAS Regular (leaded) and Unleaded, and diesel fuel (DF-2). Table 2-15 lists the contaminants potentially present at Site 15.

2.4.15.2 Conclusion. Because of the amount of contaminants potentially spilled at this site and the physical evidence of soil contamination, Site 15 is recommended for further work under the Navy IR Program.

2.3.15.3 Recommendations. The following first-year sampling program is recommended to verify the presence of contaminants potentially disposed of at Site 15. Figure 2-29 shows the recommended sampling locations.

TABLE 2-15 Potential Contaminants Disposed of at Site 15, Naval Air Facility, El Centro, California

WASTE TYPE	ESTIMATED QUANTITY	YEARS OF DISPOSAL
Fuel:		
JP-4	900 gallons	1958 - 1974
JP-5	900 gallons	1974 - 1981
AVGAS (leaded)	900 gallons	1958 - 1981
MOGAS - Regular (leaded)	900 gallons	1958 - 1981
- Unleaded	900 gallons	1974 - 1981
Diesel Fuel #2 (DF-2)	900 gallons	1958 - 1981

Monitoring Wells: 4

Types of samples: Ground-water, Soil

Number of samples: Ground water - 8 samples
Soil - 18 samples

Sampling Frequency: Ground water - twice
Soil - once

Testing Parameters: All samples: benzene, toluene, xylene, total petroleum hydrocarbons, lead

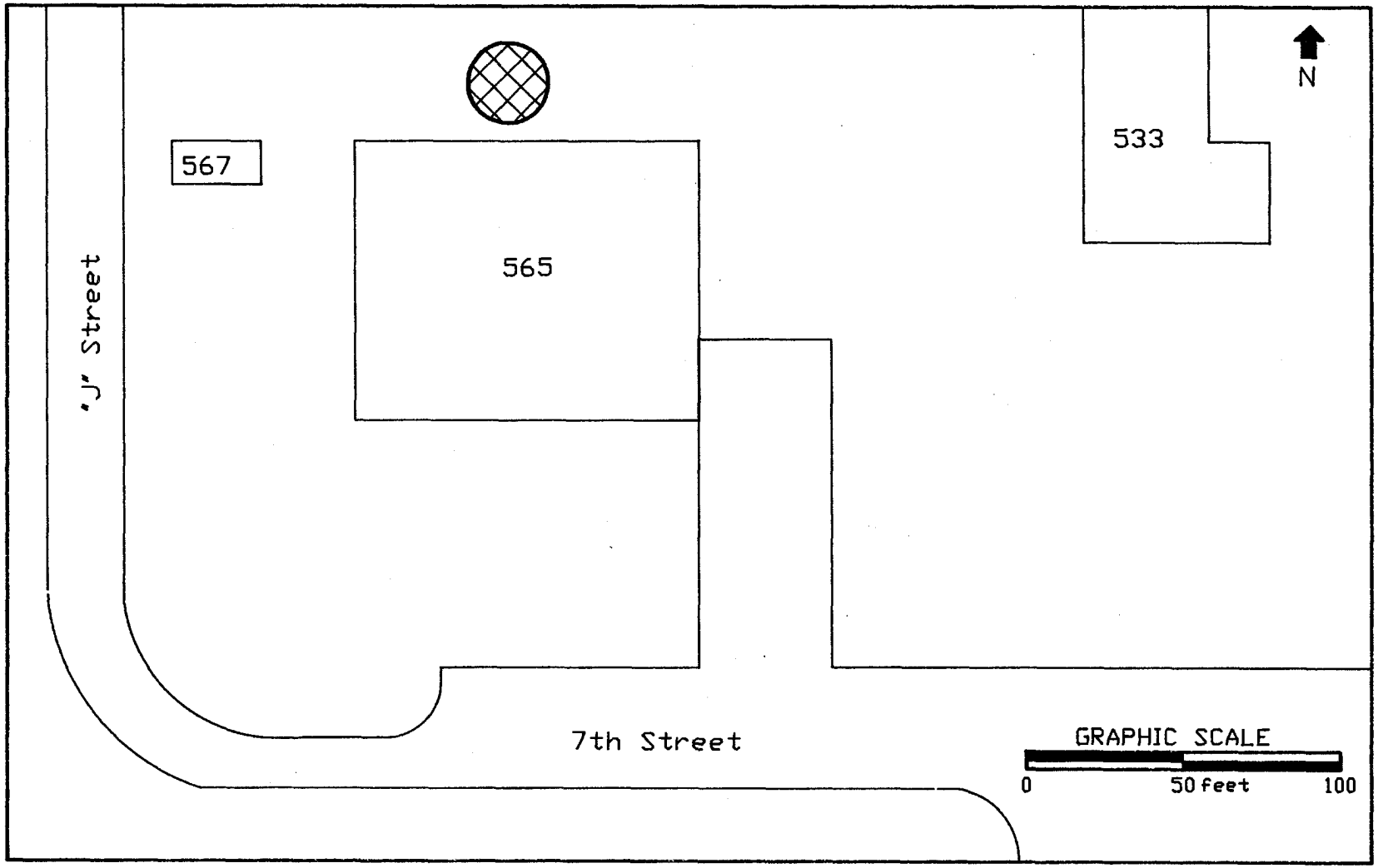
Ground water: pH, specific conductance, water level

Remarks: Wells should be drilled to a maximum depth of 25 feet and screened from at least one foot above highest water table level to the bottom of the well. Ground-water samples should be taken once during the summer and once during the winter. Ground-water data can be combined with Site 14 to determine localized ground-water flow directions. Four inch wells should be used in anticipation of product recovery.

Three samples should be taken from each soil boring and monitoring-well boring. These samples should be taken at depths of visible contamination or at one, three, and six foot depths. The last sample should be taken above the water table if the ground water is less than six feet deep.

2.4.16 Site 16 - Potassium Ferricyanide Spill Area.

2.4.16.1 Findings. Site 16 is located directly to the north of building 565; the photo lab, and covers an area about 15 feet by 15 feet as shown in Figure 2-30. This one-time spill occured in 1981.



(Base From: WESTNAVFACENGCOM, 1981)

-----EXPLANATION-----

site boundary

building

FIGURE 2-30
Site 16 - Potassium Ferricyanide Spill Area

PRELIMINARY ASSESSMENT/
SITE INSPECTION
NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA

Spent potassium ferricyanide, a bleach used in color photo-processing, was collected in a 500 liter (130 gallon) tank outside Building 565 which was sent to be recycled when full. In 1981 the tank ruptured and its contents spilled onto the ground. The site was reportedly cleaned-up in 1983 by removing the soil but, a bluish-green discoloration of the soil is still visible. Table 2-16 lists the potential contaminants disposed of at Site 16.

TABLE 2-16 Potential Contaminants Present at Site 16, Naval Air Facility, El Centro, California

WASTE TYPE	ESTIMATED QUANTITY	YEARS OF DISPOSAL
Potassium Ferricyanide	100 gallons	1983

2.4.16.2 Conclusions. Because of the amount of the spill and the visual evidence of contaminants remaining in the soil, we recommended Site 16 for further work under the Navy IR Program.

2.4.16.3 Recommendations. The following sampling program is recommended to verify the presence of contaminants potentially disposed of at Site 16. Figure 2-31 shows the recommended sampling locations.

Types of samples: Soil

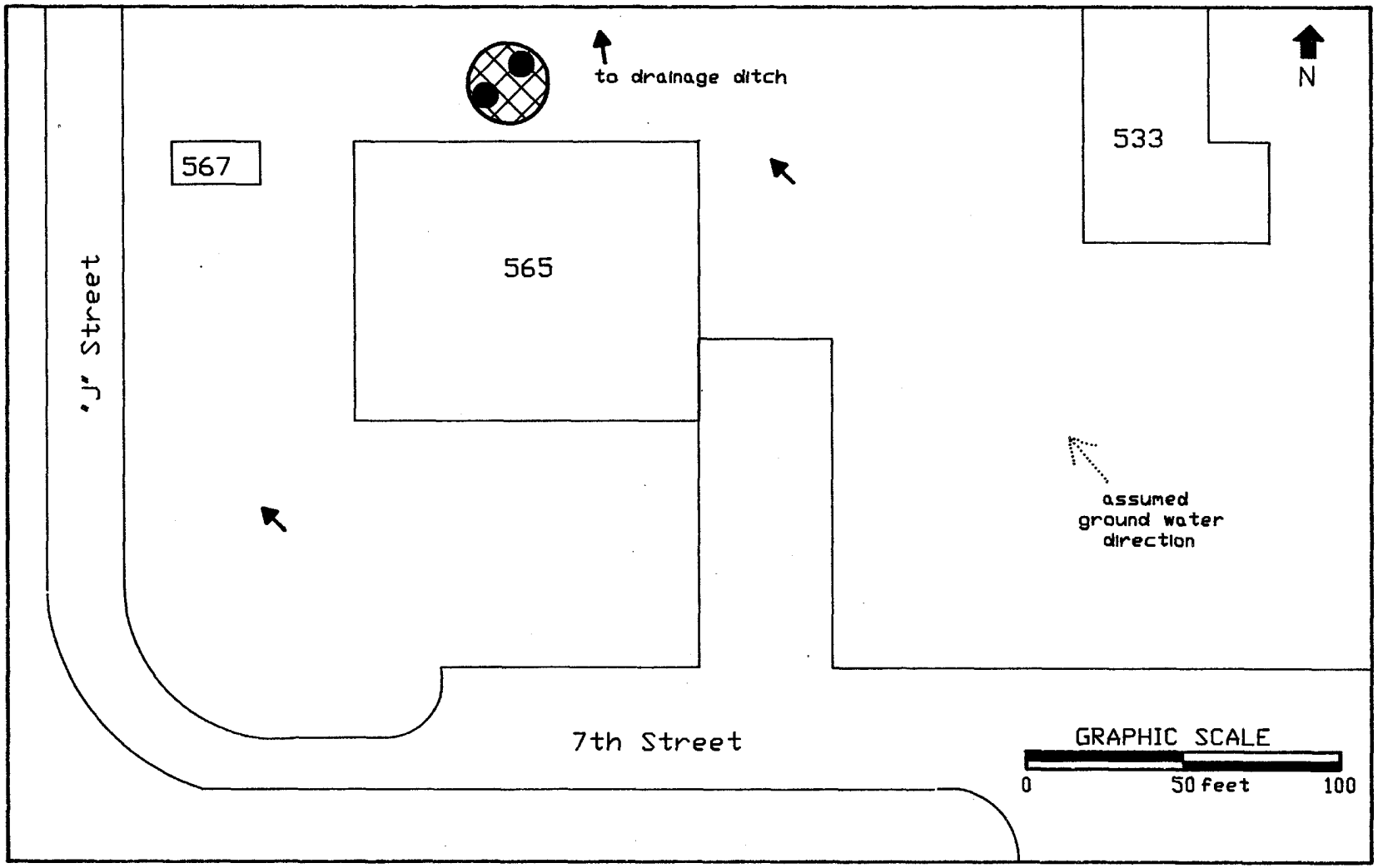
Number of samples: 6 samples

Sampling Frequency: once

Testing Parameters: All Samples: Total Cyanide

Remarks: Three soil samples should be taken from each soil boring. These samples should be taken at depths of visible contamination or at zero, three, and six foot depths.

2.5 SUMMARY OF RECOMMENDATIONS. Table 2-17 presents a summary of recommendations for all sites identified at NAF El Centro.



(Base From: WESTNAVFACENGCOM, 1981)

-----EXPLANATION-----

- site boundary
- building
- soil sample
- surface water flow direction

FIGURE 2-31
Recommended Sampling Locations for Site 16 - Potassium Ferricyanide Spill Area

PRELIMINARY ASSESSMENT/
SITE INSPECTION
NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA

TABLE 2-17 Summary of Recommendations

SITE NAMES

Site 1 - Magazine Road Landfill
Site 2 - Patrol Road Landfill
Site 3 - Sludge Burial Area
Site 4 - 4th Street Fire Fighting Training Area
Site 5 - Fire Fighting Training Area East of Hangar #3
Site 6 - Northwest Fire Fighting Training Area
Site 7 - Abandoned Fuel Farm
Site 8 - Scrapyard
Site 9 - Transformer Storage Area
Site 10 - Sewage Stabilization Ponds
Site 11 - Runway Burn Area
Site 12 - Open Burn Pit
Site 13 - Old Incinerator
Site 14 - Fuel Farm Tank Rinseate Disposal Area
Site 15 - Fuel Farm Filter Cleaning Area
Site 16 - Potassium Ferricyanide Spill Area

Site Number	Number of Monitoring Wells	Number of Samples				Testing Parameters[a]
		Ground Water	Surface Water	Soil	Sediment	
1	4	8	0	27[b]	3	Purgeable Organics Acid Extractables Petroleum Hydrocarbons Xylene, Pesticides/PCBs, Cadmium, Chromiun, Lead, Mercury, Nickel, Silver, Zinc, Asbestos (Surface only)
2	4	8	3	31[c]	3	Purgeable Organics Acid Extractables Petroleum Hydrocarbons xylene, Cadmium, Chromium, Lead, Mercury, Nickel, Silver, Zinc, Asbestos (Surface only)
3	0	0	0	4	0	Total Cyanides, Silver

[a]Detailed description of testing parameters in Appendix C
[b]includes two background soil samples and one surface-fiber sample
[c]includes one surface sample

TABLE 2-17 Summary of Recommendations (continued)

Site Number	Number of Monitoring Wells	Number of Samples				Testing Parameters
		Ground Water	Surface Water	Soil	Sediment	
4	3	6	0	9	0	Purgeable Organics Chromium, Lead, Nickel, Zinc, Petroleum Hydrocarbons, Xylene
5	3	6	0	6	0	Purgeable Organics Petroleum Hydrocarbons Xylene, chromium, Lead, Nickel, Zinc
6	0	0	0	18	0	Purgeable Organics Petroluem Hydrocarbons Xylene, Lead
7	0	0	0	12	0	Purgeable Organics Petroleum Hydrocarbons Xylene, Lead
8	0	0	0	30	0	PCBs, Chromium, Lead, Zinc
9	0	0	0	35	0	PCBs
10	0	0	0	20	0	Purgeable Organics Arsenic, Cadmium, Lead, Chromium, Silver, Zinc, Xylene, Total Cyanides
11	0	0	0	4	0	Petroleum Hydrocarbons Benzene, Toluene, Xylene
12	NOT RECOMMENDED FOR FURTHER WORK					
13	NOT RECOMMENDED FOR FURTHER WORK					

TABLE 2-17 Summary of Recommendations (continued)

Site Number	Number of Monitoring Wells	Number of Samples				Testing Parameters
		Ground Water	Surface Water	Soil	Sediment	
14	1	2	0	12	0	Petroleum hydrocarbons Benzene, Toluene, Xylene, Lead
15	3	6	0	15	0	Petroleum hydrocarbons, Benzene, Toluene, Xylene, Lead
16	0	0	0	6	0	Total cyanides

Chapter 3. BACKGROUND

3.1 INTRODUCTION. The Naval Air Facility (NAF) El Centro is a fully operational shore activity headed by a commanding officer. Command is exercised by the Commander-in-Chief of the U. S. Pacific Fleet through Commander, Naval Air Force, U. S. Pacific Fleet and Commander, Fighter Airborne Early Warning Wing, Pacific. NAF El Centro is subject to the area coordination of the Commander, Naval Station, San Diego (WESTNAVFACENGCOM, 1982a).

3.1.1 Location. As shown on the location map, Figure 3-1, NAF El Centro is located in the southwestern corner of the United States, in the state of California, county of Imperial. The base is located in California's agriculturally rich Imperial Valley, approximately seven miles north of the Mexican border, and sixteen miles south of the Salton Sea. The city of San Diego is approximately 85 air miles to the west and the city of Yuma, Arizona is 60 miles to the east.

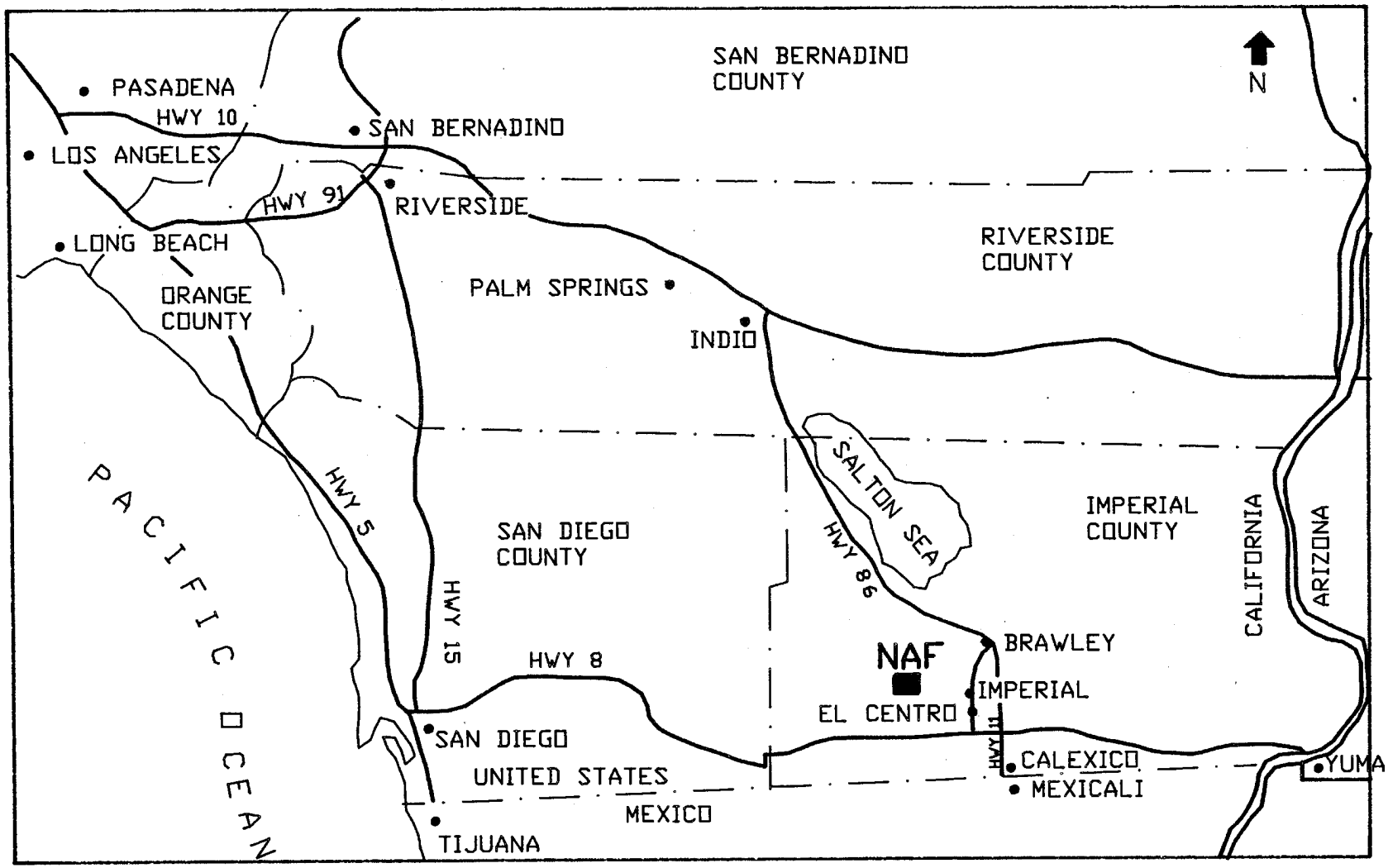
3.1.2 Mission. The mission of NAF El Centro is to maintain and operate facilities and provide services and material to support operations of aviation activities and of the operation forces of the Navy and other activities and units as designated by the Chief of Naval Operations. In support of the Command's mission, the following tasks and functions have been assigned: (1) Operations and Training, (2) Administration, (3) General Engineering Support and Mission Operations, (4) Personnel Support, (5) Medical and Dental Support, (6) Maintenance of Material, (7) Maintenance of Real Property and Utility Operations, and (8) Supply Operations.

3.2 HISTORY. Through the years, NAF El Centro has carried a number of titles: Naval Air Facility (NAF), Naval Auxillary Landing Field (NALF), Naval Air Station (NAS), Naval Auxillary Air Station (NAAS), and National Parachute Test Range (NPTR) (WESTNAVFACENGCOM, 1982a).

3.2.1 1942-1946. In 1942, the base was commissioned as a Marine Corps Air Station with duties involving the maintenance of air-to-ground targets and the maintenance of NAAS Holtville and NAAS Salton Sea. On May 1, 1946, the base was commissioned as Naval Air Station El Centro.

3.2.2 1947-1949. In November of 1947, the Naval Parachute Experimental Unit commenced operations at the Naval Air Station. This Unit was followed by the Navy Air Technical Training Unit in April of 1949 and the Fleet Air Gunnery Unit in July of 1949.

3.2.3 1949-1951. On October 31, 1949, the NAS was reduced to a NAAS with a mission of continuing support to the rotating fleet air squadrons and the Naval Parachute Unit. In 1950, with the start of the Korean War, the NAAS initiated support of Fleet aircraft for night carrier landing practices. In 1951, the 6511th Parachute Test Group, U. S. Air Force, already located on base, joined with the Naval Parachute Unit to form the Department of Defense Joint Air Force - Navy Parachute Test Facility.



GRAPHIC SCALE

0 18 miles 36

FIGURE 3-1

LOCATION OF NAF EL CENTRO, CALIFORNIA

PRELIMINARY ASSESSMENT/
SITE INSPECTION
NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA

3.2.4 1951-1959. During the years 1951 through 1959, the NAAS engaged in highly technical research and development programs to reduce piloted aircraft escape problems; also, missile reentry solutions were greatly expanded. At the end of 1958, NAAS El Centro was directed to commence reduction to a NALF, to be accomplished by 1 July 1959.

3.2.5 1959-1963. During the years 1959 through 1962, the NALF continued its support of the Navy Parachute Test Facility. The support of Air Squardrons of the Fleet Carrier Groups increased with many day and night landings and many target practice requests. In 1962 the NALF was upgraded to the status of NAF El Centro, California.

3.2.6 1964-Present. In 1964, the U. S. Naval Aerospace Recovery Facility was designated and in July, 1973 it was combined with the Naval Air Facility to form the National Parachute Test Range. Six years later, in July 1979, the parachute testing function was transferred to NAS China Lake and El Centro became a Naval Air Facility again.

3.3 HISTORICAL RESOURCES. Archeological and geological evidence suggests man's presence in the Imperial Valley as far back as 45,000 years ago. Archeological findings in an area southwest of the Naval Air Facility, called the Yuha Basin, confirms man's existence in the area as far back as 21,500 years ago. Numerous other historial and archeological sites have been discovered and examined throughout the Imperial Valley. Although the station has never conducted an Executive Order 11593 (archeological) Survey, no sites are known to occur on or in the immediate area of the Naval Air Facility (WESTNAVFACENGCOM, 1982a).

3.4 ADJACENT LAND USE.

3.4.1 Surrounding Area. Land use around NAF El Centro is primarily for agricultural purposes. Residential units in the area are usually farmhouses which serve as housing for individuals who work with the immediate surrounding farmland. The closest residential area is the community of Seeley. Seeley is situated about one mile to the south of NAF El Centro. The current population of Seeley is between 800 and 900 persons. Figure 3-2 illustrates the land use around NAF El Centro (WESTNAVFACENGCOM, 1982a).

3.4.2 Outlying Areas. Three active and one inactive weapons training areas are in the vicinity of NAF El Centro. NAF El Centro provides for the land and facilities maintenance of these ranges. The active ranges are: the Chocolate Mountains Impact Area, the Target 103A/Parachute Drop Area, and Targets 68 and 95. The Carrizo Impact Area is also nearby but is no longer in use. The Chocolate Mountains Impact Area and Targets 68 and 95 are under the operational control of MCAS Yuma, Arizona. The operations of Target 103A are managed by FACSFAC, San Diego, California.

The Chocolate Mountains Impact Area lies about 30 miles northeast of NAF El Centro. Target 68 is approximately 25 miles east and Target 95 is about 25 miles northeast of NAF El Centro. The 103A/Parachute Drop Area is located about 4 miles northwest of the base, while the Carrizo Impact Area lies 25 miles west of NAF El Centro, with its eastern boundary bordering the western boundary of the Target 103A Area.

These ranges are not within the scope of this report.

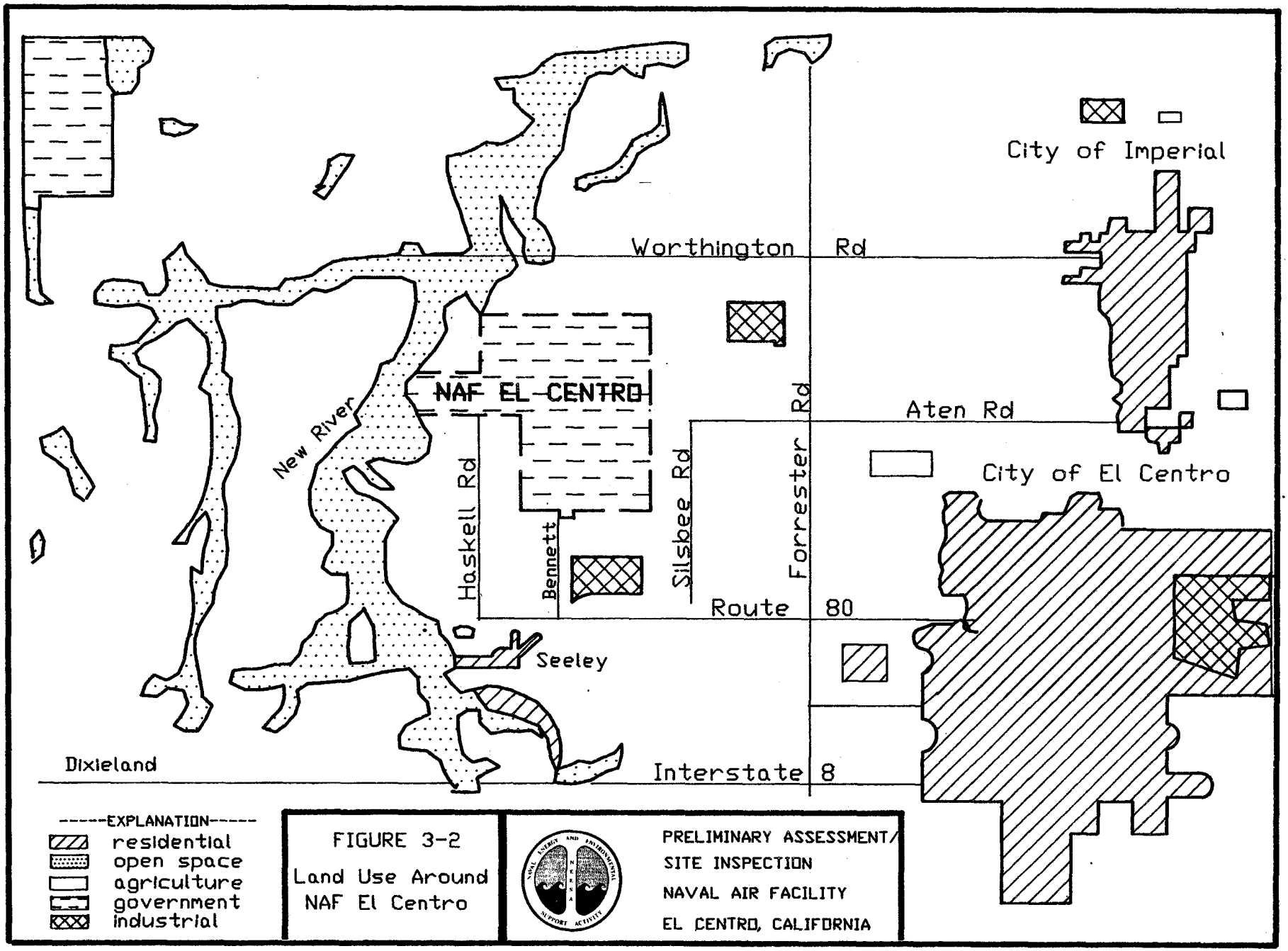


FIGURE 3-2

Land Use Around NAF El Centro

PRELIMINARY ASSESSMENT/ SITE INSPECTION
NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA

CHAPTER 4. PHYSICAL AND BIOLOGICAL FEATURES

4.1 INTRODUCTION. This chapter details the physical features of NAF El Centro including: the climate, topography, geology, and overall migration potential of the contaminants determined to potentially exist at NAF El Centro; the surface water and ground-water qualities; and the possible biological receptors within the vicinity of NAF El Centro.

4.2 PHYSICAL FEATURES

4.2.1 Climate. NAF El Centro and vicinity has an arid climate. Daily summer temperatures average 92 degrees Fahrenheit (^{o}F) with high temperatures often reaching 115°F. Average winter temperatures range from daily lows near 30°F up to daily highs over 80°F (United States Department of Agriculture, 1981). The average monthly temperature for the Imperial Valley is shown on Figure 4-1.

Mean annual rainfall is approximately 2.4 inches. Most rainfall is gentle winter rains or intense summer storms. The average monthly precipitation is shown on Figure 4-2. Evapotranspiration from crops often exceeds six feet per year (United States Department of Agriculture, 1981).

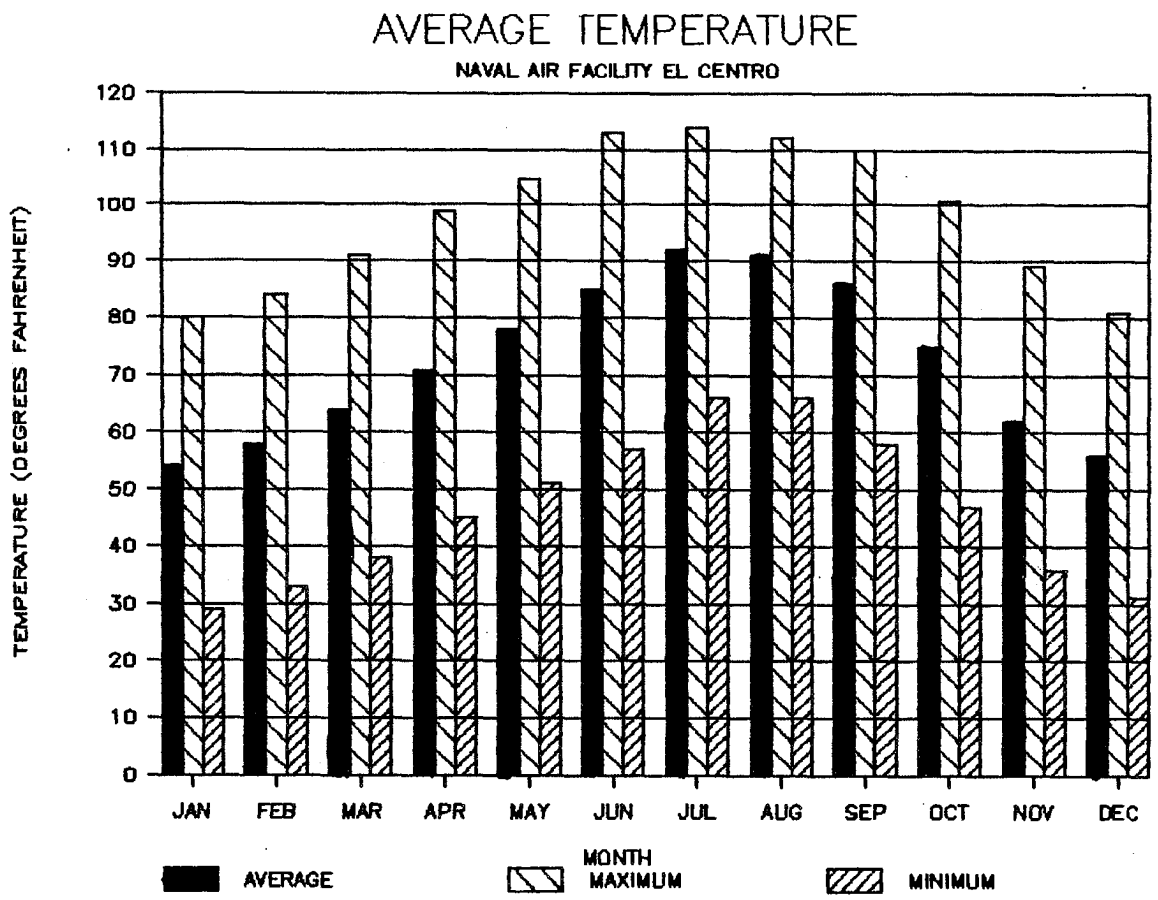
Prevailing winds are westerly in the winter and spring. Winds during the hot summer months are generally from the southeast. Wind speeds are calm to ten knots 78 percent of the time, 11 to 16 knots 12 percent of the time and 16 to 27 knots about eight percent of the time (WESTNAVFACENGCOM, 1981).

4.2.2 Topography and Surface Drainage. NAF El Centro is located near the center of the Imperial Valley. The area is nearly flat with the exception of bluffs adjacent to the New River which provide about 60 feet of vertical relief. Surface elevations on the facility range from 45 feet below mean sea level (MSL) in the southeast corner of the facility to 50 feet below MSL near the northwest corner of the facility. Figure 4-3 shows topography in the area of NAF El Centro.

Surface water drainage in the vicinity of NAF El Centro is generally controlled by artificial drains and irrigation canals such as the Rice Canal and Elder Canal. These drains and canals flow into the New River (United States Geological Survey, 1979). The New River flows generally northward discharging into the Salton Sea. Water from the Salton Sea is lost exclusively through evaporation.

4.2.3 Geology. The Imperial Valley is the northwesterly extension of the structural trough which form the Gulf of California. A low ridge formed by the Colorado River delta separates the Imperial Valley from the Gulf of California. The valley is bounded by the Peninsular Ranges to the west and the Chocolate Mountains to the east (Morton, 1977).

4.2.3.1 Bedrock Geology. the Imperial Valley is underlain by a 20,000 foot thick sequence of Tertiary and Quaternary non-marine sandstones, clays, and lacustrine deposits. The central portion of the valley is underlain by clay



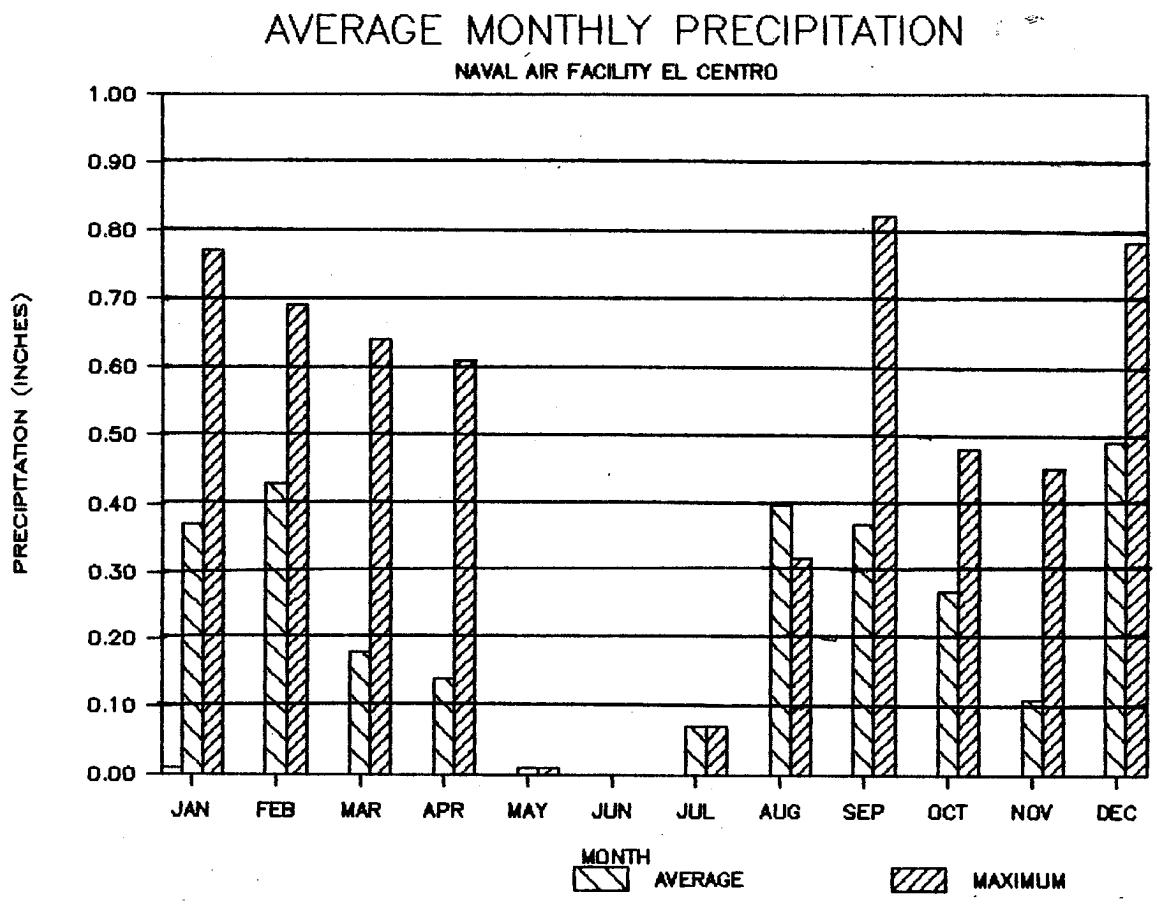
(FROM UNITED STATES DEPARTMENT OF AGRICULTURE, 1981)

FIGURE 4-1

AVERAGE MONTHLY TEMPERATURE

PRELIMINARY ASSESSMENT
SITE INSPECTION

NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA



(FROM UNITES STATES DEPARTMENT OF AGRICULTURE, 1981)

FIGURE 42

AVERAGE MONTHLY PRECIPITATION

PRELIMINARY ASSESSMENT
SITE INSPECTION

NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA

(b) (3) (B)

and silt deposits from the prehistoric Lake Cahuilla. These deposits are generally less then 100 feet thick (Morton, 1977). Table 4-1 is a generalized geologic column for the Imperial Valley.

4.2.3.2 Structural Geology. The Imperial Valley, a northwesterly extension of the Gulf of California, is a rift valley. The east side of the valley is bounded by the San Andreas fault zone, and the west side of the valley is bounded by the Whittier-Elsinore fault system. Other major fault zones in the area include the Superstition Hills, Superstition Mountain, Imperial, Sand Hills, San Jacinto, and Laguna Salada faults. These faults trend to the northwest, with displacement being right lateral (Morton, 1977). The Superstition Mountain and Superstition Hills faults pass within two miles of the facility. Figure 4-4 shows surficial geology and area faults.

4.2.3.3 Geologic Hazards. NAF El Centro is located within the seismically active Imperial Valley. Active faults in the area have maximum credible earthquake magnitude up to 7.5 on the Richter Scale. During the 1979 earthquake, a portion of runway 26R/8L was damaged by liquification caused settlement (WESTNAVFACENGCOM, 1980.). Movement along smaller, unmapped faults could also cause significant damage to the facility.

4.2.3.4 Soils. Soils at NAF El Centro and vicnity generally consist of silty clays, clayey silts, silts, and silty sands. Soil associations identified by the United States Department of Agriculture include the Holtville silty clay, the Imperial silty clay, and the Glenbar silty clay loam. Table 4-2 is soil classifications and charteristics of soils identified at NAF El Centro. Figure 4-5 is a map of soil associations at NAF El Centro.

The Holtville silty clay is very deeply stratified soil. A typical soil profile consists of several feet of slowly permeable silty clay overlaying a very fine sandy silt or silty sand with moderate permeability (4.2×10^{-3} centimeter per second). The surficial clay layer generally has a high expansion potential.

In the area of NAF El Centro the Imperial and Glenbar associations are intermingled in an unpredictable pattern. For purposes of this report, these units are grouped into a single unit. Both soil types have a very deep profile and are composed of low permeability silty clays. Soil expansion potential is generally moderate to high (United States Department of Agriculture, 1981).

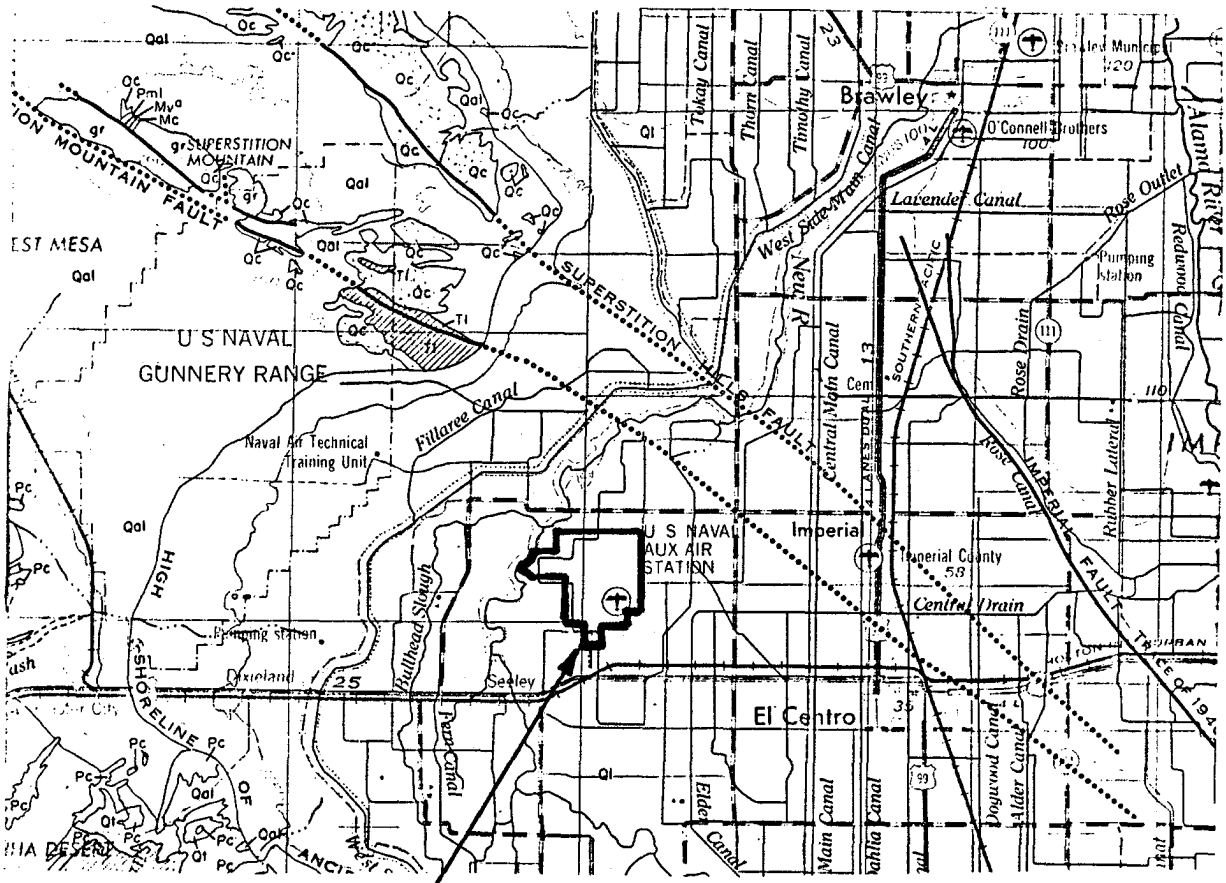
The badlands area is a very steep area that is dissected by tne New River. Soils were not classified by the United States Department of Agriculture (1981). This area has rapid surface runoff and a high potential for erosion.

Geotechnical investigations at several locations on NAF El Centro have classified soils at depths from 0 to 40 feet as silty clays (CL, CH), sandy silts (ML) or silty sand (SM). Reported moisture contents generally range from 16 to 35 percent. Dry densities range from 90 to 105 pounds per cubic foot (Lyons Engineers, 1985 and WESTNAVFACENGCOM, 1980b). Shallow, perched ground water was reported for both soil investigations. Figure 4-6 is a typical boring log from geotechnical investigations at the NAF El Centro. Appendix F contains an additional boring log taken during cathodic protection installation in the fuel farm during June 1987.

TABLE 4-1 Generalized Geologic Column For the Vicinity of Naval Air Facility El Centro, California

SYSTEM	GEOLOGIC Unit	LITHLOGIC CHARACTER
QUATERNARY		
Holocene	ALLUVIUM	UNCONSOLIDATED, CLAY, SILT AND GRAVEL.
	LAKE BEDS	TAN TO GRAY CLAY, SILT, SAND, AND GRAVEL
Pleistocene	BRAWLEY FORMATION	LIGHT GRAY CLAYS, SANDSTONE, AND PEBBLE GRAVELS, OF LUCUSTRINE ORIGIN.
	OCOTILLO FORMATION	GRAY PEBBLE CONGLOMERATE, NON-MARINE ORIGIN.
TERTIARY		
Pliocene	BORREGO FORMATION	GRAY CLAY AND INTEGRBEDDED SANDSTONE, LUCUSTRINE ORIGIN.
	CANEBRAKE CONGLOMERATE	GRANITIC DEBRIS
	PALM SPRINGS FORMATION	INTERBEDDED, LIGHT GRAY ARKOSIC SANDSTONE AND REDDISH CLAY
	IMPERIAL FORMATION	LIGHT YELLOW-GRAY CLAY, INTERBEDDED ARKOSIC SANDSTONE WITH OYSTER SHELL REEFS AND FOSSILIFEROUS CALCAROUS SANDSTONE.
Miocene	FISH CREEK	MASSIVE BEDS OF GYPSUM.
	ALVERSON ANDESITE	ANDESITE FLOWS AND INTERBEDDED TUFF, BRECCIA, AND NONMARINE SEDIMENTS.
	SPLIT MOUNTAIN FORMATION	GRAY CONGLOMERATE AND BROWN ARKOSIC SANDSTONE.
MESOZOIC	UNNAMED	PLUTONIC ROCKS OF INTERMEDIATE COMPOSITION AND PEGMATITE DIKES.

(after Morton, 1977)



EXPLANATION

NAF EL CENTRO

FAULT (DASHED WHERE APPROXIMATELY LOCATED DOTTED WHERE CONCEALED)

- Ql QUATERNARY LAKE DEPOSITS
- Qal QUATERNARY ALLUVIUM
- Qt QUATERNARY NONMARINE TERRACE DEPOSITS
- Qc PLEISTOCENE NONMARINE DEPOSITS
- Pc PLIOCENE NONMARINE DEPOSITS
- Pml PLIOCENE MARINE DEPOSITS
- Tl TERTIARY LAKE DEPOSITS
- gr PRECENOZOIC GRANITIC ROCKS

N

GRAPHIC SCALE

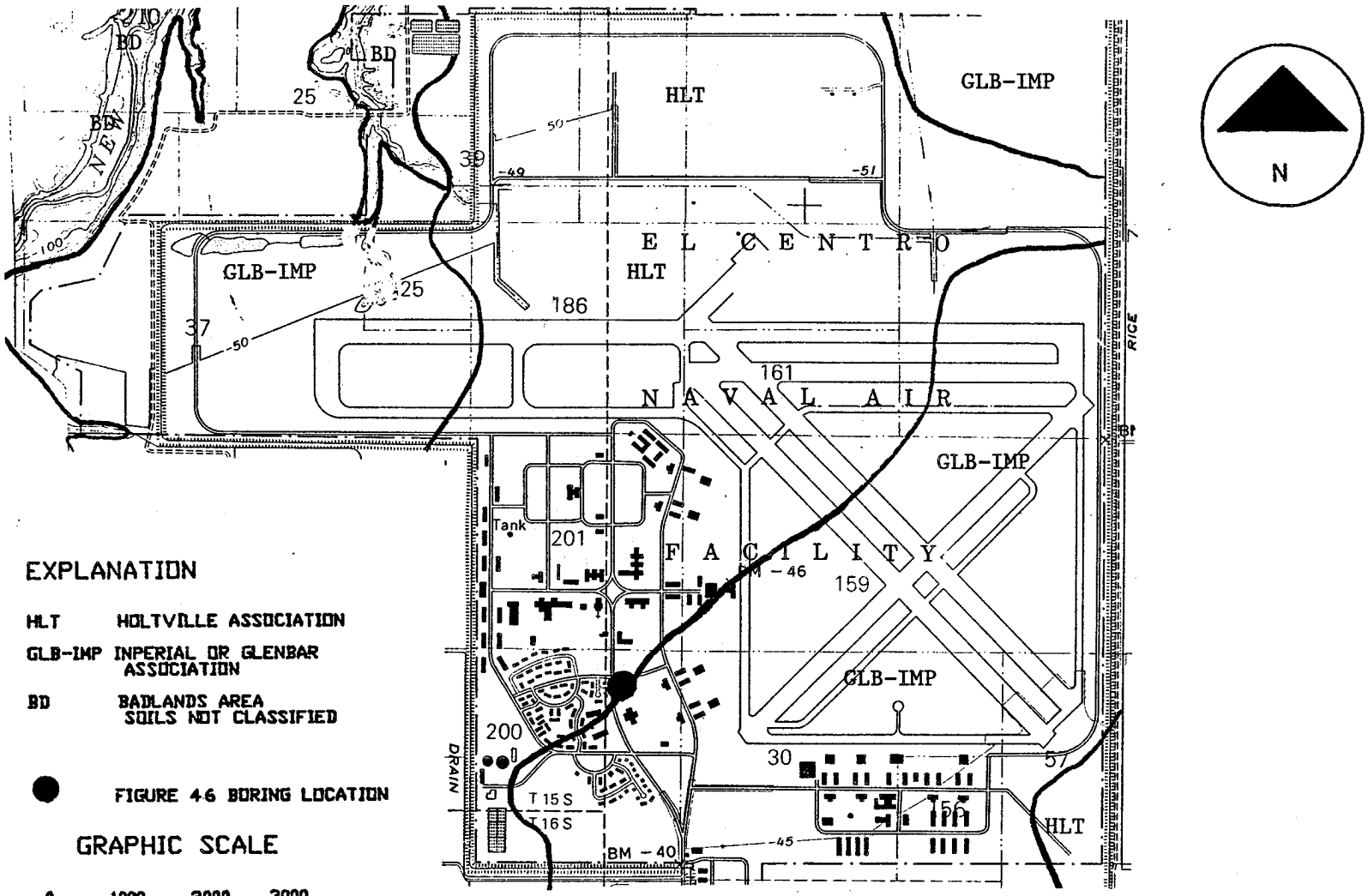
5 0 5

(FROM CALIFORNIA DIVISION OF MINES AND GEOLOGY, 1977)

FIGURE 4-4

SURFICIAL GEOLOGY

PRELIMINARY ASSESSMENT
SITE INSPECTION
NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA



(FROM UNITED STATES DEPARTMENT OF AGRICULTURE, 1981)

FIGURE 4-5

GENERAL SOIL TYPES

PRELIMINARY ASSESSMENT
SITE INSPECTION

NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA

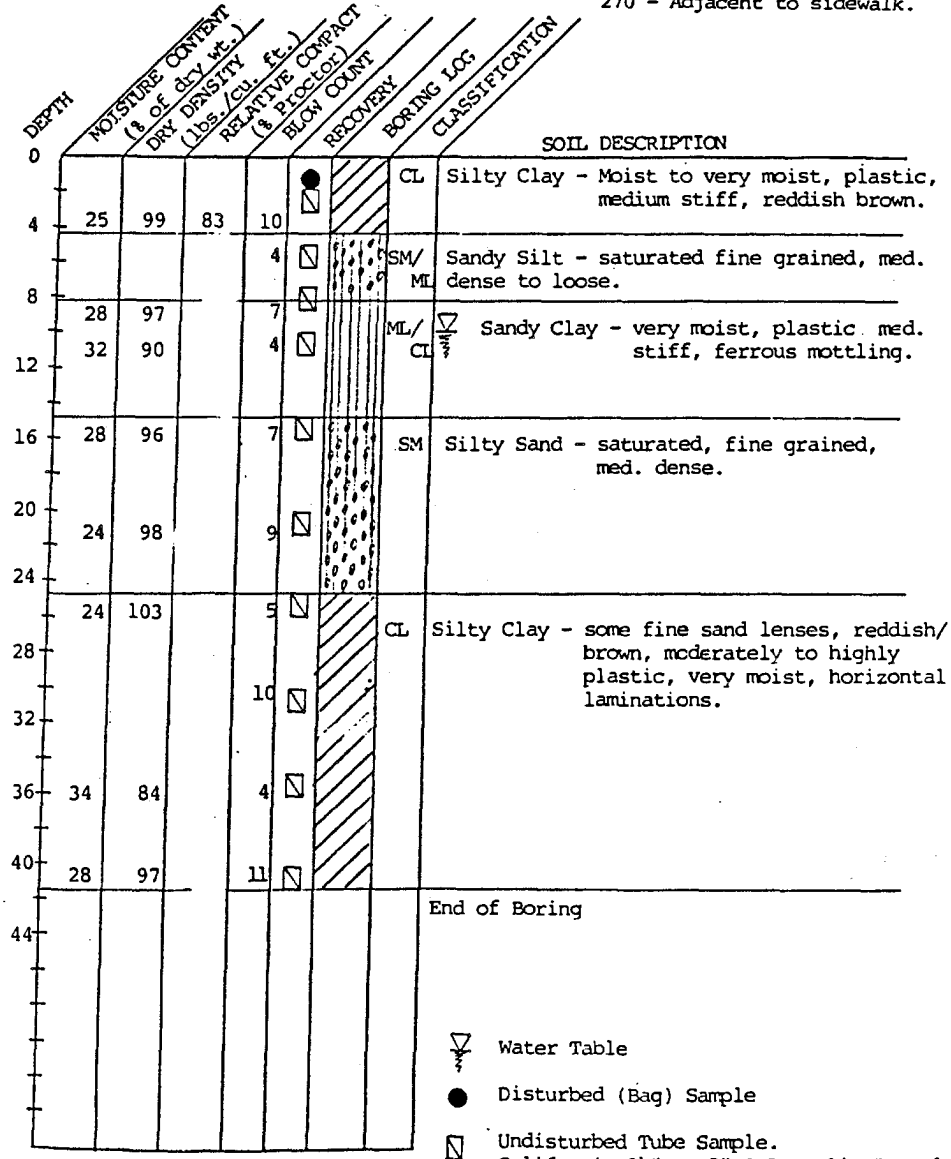
CLIENT: Francais Engineering

BORING No.: B-1

PROJECT: BOQ-Bldg. 270, NAF El Centro, CA

DATE: 12/3/85

LOCATION: East Side Bldg. 270 - Adjacent to sidewalk.



BORING LOG

SEE FIGURE 4.5 FOR BORING LOCATION

(FROM LYON ENGINEERS, 1985)

FIGURE 4-6

TYPICAL BORING LOG

PRELIMINARY ASSESSMENT
SITE INSPECTION
NAVAL AIR FACILITY
EL CENTRO, CALIFORNIA

TABLE 4-2 Soil Classifications and Characteristics
Naval Air Facility, El Centro

Name	Typical Profile Thickness	USDA Texture	Liquid Limit	Plastic Limit	Permeability ($x\ 10^{-3}$) cm/sec	pH	Salinity Mmhos/cm
Holtville (HLT)	0-2 ft	Silty Clay [1](CH-CL)	40-65	20-35	.04-.14	7.4-8.4	2-8
	2-5 ft	Loamy Very Fine Sand (SM-ML)		NP-10	.42-4.2	7.4-8.4	2-8
Imperial (IMP)	0-5 ft	Silty Clay (CH)	50-70	25-45	.04-.14	7.9-8.4	4-8
Glenbar (Glb)	0-5 ft	Silty Clay loam (CL)	35-45	15-30	.14-.42	7.9-8.4	2-8

[1]Unified soil classification
after: United States Department of Agriculture, 1981

4.2.3.5 Hydrology. In the vicinity of NAF El Centro, ground-water data are limited. Therefore, estimates of ground-water movement are based on general assumptions and available data from geotechnical investigations.

Shallow aquifers in the vicinity of NAF El Centro generally consist of silts, clayey silts, sandy silts, and silty sands. Soil units identified in various geotechnical investigations appear to be fine grained recent alluvial deposits, and lake bed deposits from prehistoric Lake Cahuilla.

Estimates of hydraulic conductivity based on grain size analysis indicate conductivities on as low as $6x10^{-6}$ cm/sec for silty clays and as high as $4X10^{-2}$ cm/sec for poorly graded silty sands. Actual permeabilities will vary depending on degree of consolidation and soil grain shape. Table 4-3 gives permeability estimates from grain size distributions. The United States Department of Agriculture (1981) estimated hydraulic conductivity at a maximum of 4.2×10^{-3} cm/sec for Holtville silty sand (SM-ML).

Soil porosity may be estimated based on soil dry density, and soil specific gravity using:

Soil dry density was determined to be 96 pounds per cubic foot, at 16 feet in boring one, by Lyon Engineers(1985)). The particle mass density is assumed to be 165 pounds per cubic foot (2.65 grams per cubic centimeter). These values yield a total porosity of 0.42 (42 percent). Effective porosity is expected to be slightly less because not all pore spaces will be interconnected.

The hydraulic gradient is assumed to approximate the slope of the ground surface which averages one foot per 1,000 feet (0.001).

TABLE 4-3 Estimated Hydraulic Conductivity From Grain Size Distribution, Naval Air Facility, El Centro, California

Soil Description	Sample Depth Feet	Grain Size Distribution Size retained in millimeters 84 %	50%	16%	SIGMA PHI	Hydraulic Conductivity cm/sec	Reference Report
Silty Clay(CH)	3	0.001	0.004	0.7	4.7	$6.4X10^{-6}$	A
Silty Clay(CL)	5	0.001	0.01	1.0	5.0	$1.1X10^{-5}$	A
Silty Clay(CH)	6	0.001	0.003	0.03	2.5	$9.2X10^{-5}$	A
Silty Sand(SM)	8	0.01	0.07	0.10	1.7	$6.1X10^{-3}$	A
Sandy Clay(CL)	8	0.02	0.07	0.10	1.2	$1.2X10^{-2}$	A
Silty Sand(SM)	10	0.06	0.08	0.10	0.3	$3.8X10^{-2}$	A
Sandy Silt(ML)	21	0.04	0.08	0.12	0.8	$2.1X10^{-2}$	B
Sandy Silt(ML)	24	0.001	0.04	0.06	3.0	$6.4X10^{-4}$	B

Reference A: WESTNAVFACENGCOM, 1980b
Boring locations near west end of runway 26R/8L.
B: LYON ENGINEERS, 1985
Boring locations near Building 270.

$$P = 1 - \frac{pb}{ps}$$ (Freeze and Cherry, 1979)

Where: P = total porosity (dimensionless)
pb = bulk mass density (pounds per cubic foot)
ps = particle mass density (pounds per cubic foot)

The formula used for calculating hydraulic conductivity is:

$$K = 0.760*D*2.718^{-1.31*SIGMA\ PHI}$$ (DeWeist, and Davis, 1986)

Where: K = hydraulic conductivity (centimeters per second)
D = mean particle diameter (millimeters)
SIGMA PHI = logarithmic standard deviation of grain size distribution

The rate of ground water movement is calculated from Darcy's Law by:

$$V = \frac{KI}{P}$$ (Freeze and Cherry, 1979)

Where:

V	=	average linear velocity
K_{max}	=	maximum hydraulic conductivity
K_{min}	=	minimum hydraulic conductivity
I	=	hydraulic gradient
P	=	effective porosity (assumed to equal total porosity)

Values used to calculate a maximum and minimum flow velocities are:

K_{max}	=	110 feet/day (4.0×10^{-2} centimeters/second)
K_{min}	=	.02 feet/day (6.4×10^{-6} centimeters/second)
I	=	0.001 (1 foot/1,000 feet)
P	=	0.4 (40%)

These values give a maximum calculated ground-water velocity of 0.3 feet per day for silty sands and minimum velocity of 4.4×10^{-5} feet per day for silty clays. Therefore, ground water in the silty sand aquifer would be expected to travel no more than 100 feet per year. Ground-water flow velocities through silty clay aquatards may be as low as 0.02 feet per year based on the above calculations.

In the vicinity of NAF El Centro, perched ground-water levels were reported as shallow as three to five feet below land surface for the noted soil associations (United States Department of Agriculture, 1981). Available geotechnical investigations indicate perched ground-water levels from eight to 15 feet in depth. Recharge of shallow aquifers in the area of NAF El Centro comes from excessive irrigation water, and leakage from area canals and drains. During periods of high ground water, shallow aquifers may discharge into area drains and the New River. In additon, evapotranspiration may significantly lower shallow waters tables.

Ground-water flow in unconfined aquifers at NAF EL Centro is expected to be generally to the northwest, although irrigation, surface drains, and evapotranspiration may locally change flow patterns.

Information about confined aquifers in the vicinity of NAF El Centro is limited. The nearest known deep well is located about 15 miles east northeast of the facility. This well was completed to a depth of 399 feet. Chemical test results from the well indicate high total dissolved solids and high sodium content, yielding the water unsuitable for most uses. An artesian head pressure 10 feet above surface was reported (Morton, 1977).

4.2.4 Migration Potential. Pathways for migration of contaminants include surface water, ground water, and windblown materials.

4.2.4.1 Surface Water. Surface water drainage in the vicinity of NAF El Centro is generally controlled by artificial drains and irrigation canals such as the Rice Canal and Elder Canal, which flow into the New River. Both drains and canals receive irrigation runoff, flow from shallow aquifers, and runoff from storm drainage channels. All surface drains in this area flow into the New River which discharges into the Salton Sea.

4.2.4.2 Ground water. Ground-water flow in unconfined aquifers in the vicinity of NAF EL Centro is generally to the northwest, although irrigation, surface drains and evapotranspiration may locally change flow patterns. Ground water would be expected to travel no more than 100 feet per year. This velocity may be lower in soils such as clays and silts and much higher in clean sands and gravels.

Other factors affecting contaminant migration potential and environmental impact of contaminants include soil attenuation, degradation, diffusion, and chemical reaction. All of these factors can alter the concentrations of contaminants.

4.2.4.3 Windblown Materials. Insufficient data is available on prevailing wind direction and speed to fully determine the potential for windblown contaminants to migrate. Because of the arid climate at NAF El Centro, the potential for migration of contaminated dust should be considered significant for sites with no ground cover and surface contaminants such as asbestos (Site 1 and Site 2).

4.3 WATER SUPPLY AND QUALITY.

4.3.1 Water Supply. Domestic, industrial, and irrigation water supplies for the Imperial Valley are presently obtained from the Colorado River through a series of canals operated by the Imperial Irrigation District. Raw water for NAF El Centro is obtained from the Elder Canal near the southwest corner of the facility as shown on Figure 4.3. Treatment processes include settling, filtration, and chlorination. No backup water supply sources are available.

4.3.2 Ground-water Quality. Ground water in the area of NAF El Centro is presently classified as class III, which is not considered useable as domestic or irrigation water sources due to high dissolved solids content (WESTNAVFACENGCOM, 1982a). Ground water is not currently used for any purpose.

4.3.3 Surface Water Quality. Water quality within the New River is considered poor due to discharge of contaminated water from Mexico as well as various agricultural sources. Test results from the New River are shown in Table 4-4.

Water from area canals is considered usable for agricultrual and domestic proposes. Because both the Elder Canal and Elm Canal are concrete lined, in the area of NAF El Centro, the potential for contamination of water in the canal by ground-water is considered low.

Test results for tile drains in the area of NAF El Centro indicate a range of total dissolved solids from 3,000 to 10,500 parts per million. Selenium concentrations range from near 0 to 94 parts per billion.

TABLE 4-4 New River Water Quality, Naval Air Facility, El Centro, California

Analysis	Location			Units
	International Boundary	Near Sealy	Salten Sea	
Fecal Coliforn	460,000	180,000	4,700	MPN/100ml
Specific Conductance	7,280	6,710	5,600	umhos/cm
Lead	10	15	5	ug/l
Chromium	15	15	15	ug/l
Arsenic	14	14	10	ug/l

(from Gruenberg, 1984) Samples taken September 26-30, 1977

4.4 BIOLOGICAL FEATURES

4.4.1 Ecosystems. NAF El Centro is located in the southern desert portion of California where the Creosote Bush Scrub plant community dominates. The intense agriculture within the Imperial Valley has displaced much of the natural vegetation resulting in the loss of habitat of native birds and small animals. The rivers, canals and drainage channels in the area provide the primary source of refuge for wildlife. Protection of the riparian habitats is encouraged in the Imperial County General Plan.

4.4.1.1 Fauna. The bird species known or presumed to inhabit NAF El Centro or its outlying areas at some time during the year include: Gambel's quail (*Lophortyx gambelii*), mourning dove (*Zenaida macroura*), ground dove (*Columbina passerina*), starling (*Sturnus vulgaris*), house sparrow (*Passer domesticus*), white-crowned sparrow (*Zonotrichia leucophrys*), and burrowing owl (*Athene cunicularia*). Other species that feed in agricultural areas nearby and may pass through NAF El Centro at certain times of the year are: cattle egret (*Bubulcus ibis*), California gull (*Larus californicus*), rock dove (*Columba livia*), horned lark (*Eremophila alpestris*), and song sparrow (*Melospiza melodia*). Other birds which may be found in the area include the whitewing dove (*Zenadia asiatica*), American coot (*Fulica americana*), roadrunner (*Geococcyx californianus*), common gallinule (*Gallinula chloropus*) and pheasant (Phasianidae).

Most of the small animals in the airfield area are rodents. Studies in similar locales found the Western harvest mouse (*Rheithrodontomys megalotis*), deer mouse (*Peromyscus maniculatus gambeli*), and house mouse (*Mus musculus*) to be common within agricultural areas. Around irrigation canals, the house mouse and the roundtail ground squirrel (*Citellus tereticaudus*) were the most abundunt. Other small mammals found in the general area may include cottontail rabbit (*Oryctolagus cuniculus*), grey fox (*Urocyon cinereoargentaeus*), coyote (*Canis latrans*), bobcat (*Lynx rufus*), muskrat (*Ondatra zibethica*), beaver (*Castor canadensis*), badger (*Taxidea taxus*),

raccoon (Procyon lotor), common skunk (Mephitis), roundtail ground squirrels (Citellus tereticaudus), and antelope ground squirrels (Citellus harrisi).

Aquatic riverine habitats currently support carp (Cyprinus carpio), mullet (Crenimugil labrasus), and catfish (Ictalurus nebulosus). Poor water quality presently precludes the spawning and habitation of more desirable species (WESTNAVFACENGCOM, 1982).

4.3.1.2 Flora. The Imperial Valley once supported a variety of desert plants with creosote bush (Larrea divaricata) being the dominant species. Agricultural activity in the area has eliminated most of the native vegetation.

Vegetation found within NAF El Centro is primarily of three different class types: (1) Indigenous and introduced plant species including creosote bush occurs in the undeveloped areas such as the area between the runway and taxiway; (2) Domestic variety landscaping used to enhance community and housing facilites, in the facilities support area. And, (3) Agricultural vegetation grown on those areas of NAF El Centro outleased for that purpose.

The outlease unit consists of approximately 1325 acres, of which 792 acres are cultivatable and 533 acres are maintenance areas. Farmers are permitted to grow alfalfa and other locally adapted row and field crops which serve to control dust and weeds in this area. The unit is used for crop cultivation only, grazing of livestock is not permitted (WESTNAVFACENGCOM, 1982).

4.4.2 Protected Species: The Endangered Species Act of 1973 (Public Law 93-0205), as amended, provides that all federal agencies shall carry out programs for the conservation of listed endangered and threatened species. Federal agencies must ensure that actions authorized, funded, or carried out by them will not jeopardize the continued existence of any endangered or threatened species or result in the destruction or adverse modification of critical habitats as determined by the Secretary of the Interior (OPNAVINST 5090.1, 1983).

The list of endangered and threatened animal and plant species is published in the Federal Register 50 CFR 17.11-17.12. The offical State of California listing of endangered and rare animals is contained in California Administrative Code, Title 14, Section 670.5 (State of California, 1983). The California Native Plant Protection Act of 1978 assigns primary responsibility to the state Department of Fish and Game for determining California plants to be listed as endangered or rare. As of 20 November 1979, the State of California had listed 75 endangered and 40 rare plants. The Department of Fish and Game uses the California Native Plant Society's Inventory of Rare and Endangered Vascular Plants of California as their species-of-concern list (California Native Plant Society, 1980).

A species is endangered when its prospects of survival and reproduction are in immediate jeopardy. A species is threatened or rare when, although not immediately facing extinction, it is in such small numbers throughout its range that it may become endangered if its present environmental conditions deteriorate.

Consultation with the California Department of Fish and Game and Federal Bureau of Land Management indicated that no rare or endangered species of plants or animals were likely to be found at or near NAF El Centro. (WESTNAVFACENGCOM, 1982).

The range areas off base may be inhabited by one species of lizard which is currently a candidate species for inclusion on the State of California "threatened" species list. The flat tailed horned lizard (Phrynosoma m'calli) would be expected to be living in some of the range areas. The flat tailed horned lizard is restricted to sandy areas, and likes wind blown sand. Consultation with the California Department of Fish and Game indicated that it is unlikely that this species would be found at NAF El Centro.

REFERENCES

California Division of Mines and Geology, 1977. "Geologic Map of California San Diego-El Centro Sheet," California Division of Mines and Geology, Sacramento, California

Davis, Stanley N., and DeWiest, Roger J. M, 1966. Hydrogeology. John Wiley and Sons Inc., New York.

Department of Water Resources, 1986. "Selenium Sampling in Colorado River Basin Region," California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

Fair, Gordon M., et. al., 1966. Water and Wastewater Engineering. John Wiley and Sons, Inc., New York.

Freeze, Allan R., and Cherry John A, 1979. Groundwater. Pentice-Hall Inc., Engelwood Cliffs, New Jersey.

Gruenberg, P., 1984. Report on Preliminary Study of Fate of Selected Pollutants Discharged from Mexicali, Mexico, to the New River. California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

Lory, E. E., et. al., 1981. Management Procedure For Assessment of Friable Asbestos Insulating Material, TR-833. Civil Engineering Laboratory, Port Hueneme, California.

Lyon Engineers, Inc, 1985. "Soils Engineering Report, Bachelor Officers Quarters-Building 270, Naval Air Facility El Centro, CA." Western Division Naval Facilities Engineering Command, San Bruno, California.

Morton, Paul K, 1977. "Geology and Mineral Recources of Imperial County California." California Division of Mines and Geology, Sacaramento, CA.

Naval Energy and Environmental Support Activity (NEESA), 1986. "Hazardous Waste Annual Report CY85," Naval Air Facility, El Centro, California.

RGA Engineering Corporation, 1987. "Subsurface Investigation Repairs to Pavement at Fuel Farm, Naval Air Facility." Tucson, Arizona.

United States Department of Agriculture, 1981. "Soil Survey of Imperial County California, Imperial Valley Area." Soil Conservation Service.

United States Geological Survey, 1979. "Seeley Quadrangle, California, Imperial County, 7.5 minute Series." United States Geological Survey Denver, Colorado.

WESTNAVFACENGCOM, 1972, 1981, 1982, 1983. "Navy Environmental Protection Data Base Reconnaissance - Activity Survey." Western Division, Naval Facilities Engineering Command, San Diego, California.

WESTNAVFACENGCOM, 1982a. Master Plan, Naval Air Facility El Centro California, Western Division, Naval Facilities Engineering Command, San Bruno, California.

WESTNAVFACENGCOM, 1982b. "Soil Investigation at West End of Runway 8L-26R Naval Air Facility, El Centro, CA." Western Division, Naval Facilities Engineering Command, San Bruno, California.

WESTNAVFACENGCOM, 1981. "General Development Map." Western Division Naval Facilities Engineering Command, San Bruno, California.

APPENDIX A

AGENCIES CONTACTED DURING THE RECORD SEARCH

Various Government agencies were contacted for information pertinent to the PA/SI effort. Agencies contacted include:

a. Naval Energy and Environmental Support Activity, Port Hueneme, California

b. Ordnance Environmental Support Office, Indian Head, Maryland

c. Western Division, Naval Facilities Engineering Command, San Diego, California

d. Naval Air Station, North Island, San Diego, California

e. United States Geological Survey, EROS Data Center, Sioux Falls, South Dakota

f. Nautical Ocean Services, NOAA, Rockville, Maryland

g. United States Department of Agriculture, ASCS, Salt Lake City, Utah

h. United States Geological Survey, Washington, D. C.

i. California Division of Mines and Geology, Sacramento, California

j. United States Department of Agriculture, Soil Conservation Service, Imperial County, California

k. California Department of Fish and Game, Imperial, California

l. Naval Air Facility, El Centro, California

APPENDIX B

CONTAMINANT QUANTITY CALCULATIONS

B.0 INTRODUCTION. In order to present estimated contaminant quantities within Chapter 2, certain assumptions were made. The following presents the assumptions made and method of each contaminant calculation on a site by site basis. Information from personnel and retiree interviews, environmental surveys, and activity records were also used in these calculations.

B.1 CONTAMINANT QUANTITY CALCULATIONS.

B.1.1 Site 1 - Magazine Road Landfill. The quantities of the contaminants listed in Table 2-1 were calculated as follows:

* Household rubbish - assuming a 50 percent fill for Site 1, household rubbish makes up half of the total volume of the borrow pit.

* Plating waste - based on cleaning the tank twice a year, twice the volume of the tank times the years of operation.

* Asbestos - the number of buildings demolished after 1965 times the average volume of asbestos used in the buildings, assuming full volume penetration of the asbestos and a 70% asbestos insulation mixture (Lorey, 1981).

* Water-bearing fuel - based on 20,000 gallons of contaminated fuel collected every month; 2,000 gallons used for fire fighting training/18,000 gallons disposed of in landfill.

* Paint - Maintenance procedures and duties have not significantly changed over the years of operation of this landfill from current procedures and duties, therefore the total paint waste generated is based on a generation rate of 20 gallons per month (WESTNAVFACENGCOM, 1983).

* Solvents - This quantity is based on the current generation rate of 400 gallons per year. Generation rates have remained consistent since 1972, only the type of solvent used has changed (WESTNAVFACENGCOM, 1972 and 1983).

* Sandblast grit - Based on a generation rate of 400 pounds per month (WESTNAVFACENGCOM, 1982).

* Batteries - The number of ground support vehicles has not changed significantly since 1963. The total quantity is therefore based on a generation rate of 80 batteries per year. Each battery contained about one gallon of acid containing lead.

* Pesticides - Only small amounts of pesticides were used at NAF El Centro. The current generation rate is less than five gallons of dilute pesticide rinse water per month. This generation rate is consistant with those expected over the years of operation of this landfill (WESTNAVFACENGCOM, 1982).

* Motor oil - Based on the current ground support and service station vehicle maintenance generatio ate of 160 g per 90 days, we can calculate total waste motor oil disposed of assuming this rate is consistent with the ates covering the years of operation of this landfill (WESTNAVFACENGCOM, 1983).

* Methyl ethyl ketone - The most common paint thinne used. Total is based on the current paint thinner generation rate of 20 gallons per month.

B.1.2 Site 2 - Patrol Road Landfill. All calculations are consistent with those found in Section B.1.1 (Site 1) with the following exceptions:

* AVGAS - used more frequently during this time period than currently used, AVGAS makes up a larger fraction of the total contaminated fuel

* Mercury Amalgam - based on a generation rate of two pounds per month (WESTNAVFACENGCOM, 1982)

* Acid - based on current generation rate of 35 gallons per six month period; consisted mainly of battery acid

B.1.3 Site 3 - Sludge Burial Area. The total quantity of sludge buried at Site 3 is based on the volume of one sludge drying bed at the current sewage treatment plant (STP).

B.1.4 Site 4 - 4th Street Fire Fighting Training Area. Generation rates of contaminated fuels have been approximately the same over the use of Site 4 as the current generation rates. Approximately 20,000 gallons of water-bearing fuel, consisting of JP-5, AVGAS Regular and Unleaded MOGAS, and Diesel Fuel #2 a e generated each month. In addition, used hydraulic fluid, collected from maintenance areas around the base and contaminated JP-4 from incoming Air Force aircraft are used at Site 4.

The volume fractions, from current inventory records, of fuels used at NAF El Centro are:

JP-5	0.9896
AVGAS	0.0020
MOGAS Regular	0.0013
Unleaded	0.0041
Diesel Fuel #2	0.0030

About 100 gallons of hydraulic fluid per month and approximately 2000 gallons of JP-4 per mont a e collected. The adjusted olume fractions (to include JP-4 and used hydraulic fluid) are:

JP-5	0.9883
JP-4	0.0012
AVGAS	0.0020
MOGAS Regular	0.0013
Unleaded	0.0041
Diesel Fuel #2	0.0030
Hydraulic Fluid (used)	0.0001

These volume fractions can be used to determine total amounts of fuels used at this site. They are based on current quarterly fuel consumptions.

B.1.5 Site 5 - Fire Fighting Training Area East of Hangar #3. Approximately equal quantities of JP-4 and AVGAS were used at Site 5. Each weekend ten burns were performed using ten drums of water-bearing fuel or about 500 gallons. This site was used at least six years.

B.1.6 Site 6 - Northwest Fire Fighting Training Area. Contaminant quantities were calculated assuming:

(1) The years of operation run from the stations inception in 1946 until 1958.

(2) Same amount of operations as the other three fire fighting training areas (including the current one).

(3) The pit was used 12 months per year as was Site 5.

These assumptions were used to calculate total quantities for Site 6.

B.1.7 Site 7 - Abandoned Fuel Farm. Because the only generation of waste (fuel) at this site occured from spillage or unrecovered tank sludge, contaminant quantities are difficult to estimate. However, interviews with long term and retired personnel indicate sufficient spillage of fuels (about two times each month) to warrant further investigation of this site. Each spill was estimated to be about 25 gallons.

B.1.8 Site 8 - Scrapyard. Contaminant quantities were calculated assuming:

(1) a maximum of five transformers were stored at Site 8

(2) average capacity of transformers at this facility is 85 gallons

(3) about half contained PCBs as is the case with transformers at NAF El Centro

(4) 85 gallons leaked into soil

B.1.9 Site 9 - Transformer Storage Area. Photographs depicting leaking transformers, highly stained areas, and up-turned transformers were studied. From these photographs, about one out of every ten transformers had a leak or spilled. The following assumptions also apply:

(1) average capacity of 85 gallons

(2) adequate storage time to totally drain if leaking

(3) about half the total number of transformers contained PCBs

B.1.10 Site 10 - Sewage Stabilization Ponds. The quantities of the contaminants listed in Table 2-10 were calculated as follows:

* Fuels - periodic spills were washed into the sanitary sewer; Exact quantities or number of spills can not be determined. A 300 gallon spill in 1985 of JP-5 is only known quantity.

* Hydraulic Fluid - based on a generation rate of 100 gallons per month.

* Motor Oil - based on a generation rate of 160 gallon per 90 day period.

* Ethylene Glycol - based on current generation rate of 55 gallons per month.

* Trichloroethylene (1954-1972), Carbon Tetrachloride (1946-1954), and Stoddard Solvent (1972-1976) - based on current generation rates of 400 gallons per year and adjusted for period of use (WESTNAVFACENGCOM, 1983).

* Photographic Solutions - based on peak generation rates of:
  1) Black and White developing solutions - 100 gallons per week
  2) Color Processing Solution - 70 gallons per month

* Plating waste - based on two cleanings of the plating tank per year. Includes sludge and liquid wastes.

B.1.11 Site 11 - Runway Burn Area. Information was not available as to the specifics of the operations here. Soil samples will be taken here to verify and quantify, on a sampling point specific basis, any soil contamination present.

B.1.12 Site 12 - Open Burn Pit. Combustible waste was sprayed with 50 gallons of water-bearing fuel once per month over the operational life of the pit.

B.1.13 Site 13 - Old Incinerator. Hazardous waste has never been disposed of at Site 13.

B.1.14 Site 14 - Fuel Farm Tank Rinseate Disposal Area. Contaminant quantities were calculated based on the following assumptions:

1) 5 percent of the total capacity of the storage tanks in the fuel farm represents the amount of product (total) and sludge left in the tanks.

2) Current usage rates were used except:

   a) JP-4 and JP-5 volume fractions changed over time but the total remained about constant

   b) Same principle as (a) applies to MOGAS Regular and Unleaded

B.1.15 Site 15 - Fuel Farm Filter Cleaning Area. Quantities for this site were estimated based on information from past/present fuel farm personnel interviews. 100 gallons of product was disposed of every three years for each filter.

B.1.16 Site 16 - Potassium Ferricyanide Spill Area. The contaminant quantity was determined using the following assumptions (personnel interviews):

1) The tank was full

2) The entire tank content was spilled

B.2 PRESENTATION OF QUANTITIES. All estimated quantities were rounded to the nearest number of one significant digit. Quantities represent total quantity disposed of. Burning and evaporation were not taken into account.

APPENDIX C

TESTING PARAMETERS AND EPA METHODS

C.0 INTRODUCTION. The following categories were used in Chapter 2 to identify a specific subgroup of EPA listed Priority Pollutants to be included in the analysis: Purgeable Organic Carbon Compounds (Purgeable Organics), Acid-extractable Organic Compounds (Acid Extractables), Pesticides/ Polychlorinated Biphenyls (PCBs), Metals, Asbestos, and Total Cyanides.

The following non-Priority Pollutant designations were used: Xylene and Total Petroleum Hydrocarbons.

C.1 PRIORITY POLLUTANTS. The following lists the specific Priority Pollutants for each category with their associated EPA Method Number.

PURGEABLE ORGANIC CARBON COMPOUNDS

Priority Pollutant	EPA Method Number
Acrolein	624
Acrylonitrile	624
Benzene	624
Toluene	624
Ethylbenzene	624
Carbon tetrachloride	624
Chlorobenzene	624
1,2-Dichloroethane	624
1,1,1-Trichloroethane	624
1,1-Dichloroethane	624
1,1-Dichloroethylene	624
1,1,2-Trichloroethane	624
1,1,2,2-Tetrachloroethane	624
Chloroethane	624
2-Chloroethyl vinyl ether	624
Chloroform	624
1,2-Dichloropropane	624
1,3-Dichloropropane	624
Methylene chloride	624
Methyl Chloride	624
Methyl Bromide	624
Bromoform	624
Dichlorobromomethane	624
Trichlorofluoromethane	624
Dichlorodifluoromethane	624
Chlorodibromomethane	624
Tetrachloroethylene	624
Trichloroethylene	624
Vinyl chloride	624
1,2-trans-Dichloroethylene	624
bis(Chloromethyl)ether	624

ACID-EXTRACTABLE CARBON COMPOUNDS

Priority Pollutant	EPA Met od Number
Phenol	625
2-Nitrophenol	625
4-Nitrophenol	625
2,4-Dinitrophenol	625
4,6-Dinitro-o-cresol	625
Pentachlorophenol	625
p-Chloro-m-cresol	625
2-Chlorophenol	625
2,4-Dichlorophenol	625
2,4,6-Trichlorophenol	625
2,4-Dimethylphenol	625

PESTICIDES/POLYCHLORINATED BIPHENYLS (PCBs)

Priority Pollutant	EPA Method Number
(alpha)-Endosulfan	625
(beta)-Endosulfan	625
Endosulfan sulfate	625
(alpha)-BHC	625
(beta)-BHC	625
(delta)-BHC	625
(gamma)-BHC	625
Aldrin	625
Dieldrin	625
4,4'-DDE	625
4,4'-DDD	625
4,4'-DDT	625
Endrin	625
Endrin aldehyde	625
Heptachlor	625
Heptachlor epoxide	608 (GC)
Chlordane	625
Toxaphene	625
Arochlor 1016	625
Arochlor 1221	625
Arochlor 1232	625
Arochlor 1242	625
Arochlor 1248	625
Arochlor 1254	625
Arochlor 1260	625
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	---

METALS[a]

Priority Pollutant	EPA Method Number
Arsenic	206
Cadmium	213
Chromium	218
Copper	220
Lead	239
Mercury	245
Silver	272
Zinc	289

MISCELLANEOUS

Priority Pollutant	EPA Method Number
Asbestos	7400 (NIOSH)
Total Cyanides	335.2

C.2 NON-PRIORITY POLLUTANTS. Only two non-priority pollutant analyses have been recommended. The analysis for xylene uses EPA Method 624. EPA Method 418.1 (GC) can be used to analyze for total petroleum hydrocarbons.

C.3 METHOD DESIGNATIONS. All methods mentioned above are GC/MS EPA Methods unless labelled otherwise.

[a]The appropriate submethod for metals can be determined after detection limits have been identified

APPENDIX D

ACRONYMS/ABBREVIATIONS

AFFF	Aqueous Film Forming Foam
AVGAS	Aviation Gasoline
CERCLA	Comprehensive Environmental Resource, Conservation and Liability Act
CFR	Code of Federal Register
cm/sec	Centimeters per second
CNO	Chief of Naval Operations
CO	Commanding Officer
DF-2	Diesel Fuel #2
DOD	Department of Defense
DRMO	Defense Reutilization and Marketing Office
EFD	Naval Facilities Engineering Command Engineering Field Division
EPA	Environmental Protection Agency
GC	Gas chromatography
IR	Installation Restoration
Mmhos/cm	Millimhos per centimeter
MS	Mass spectrometry
MSL	Mean sea level
MW	Monitoring well
NAAS	Naval Auxillary Air Station
NAF	Naval Air Facility
NALF	Naval Auxillary Landing Field
NAS	Naval Air Station
NAVFACENGCOM	Naval Facilities Engineering Command
NCP	National Contingency Plan
NEESA	Naval Energy and Environmental Support Activity
NEPSS	Naval Environmental Protection Support Services
NIOSH	National Institute for Occupational Safety and Health
NPTR	National Parachute Test Range
PA/SI	Preliminary Assessment/Site Inspection
PCB	Polychlorinated BiPhenols
pH	Measure of Hydrogen ion content
RI/FS	Remedial Investigation/Feasibility Study
SARA	Superfund Amendments and Reauthorization Act of 1986
STP	Sewage Treatment Plant
USDA	United States Department of Agriculture
WESTNAVFACENGCOM	Western Division, Naval Facilities Engineering Command

APPENDIX E

PRELIMINARY ASSESSMENT AND SITE INSPECTION FORMS

This appendix presents the necessary Preliminary Assessment Forms (EPA Form 2070-12) and Site Inspection Report Forms (EPA Form 2070-13) for each of the sixteen sites identified at Naval Air Facility, El Centro, California.

PRELIMINARY ASSESSMENT/SITE INSPECTION FORMS

SITE 1

MAGAZINE ROAD LANDFILL

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-01

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 1 - Magazine Road Landfill	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE
324923._	1153950._

10 DIRECTIONS TO SITE (Starting from nearest public road) From Interstate 8, go north on Bennet Road to the base gate. Continue north on "B" Street to Patrol Road. Turn west on Patrol Road and continue around the end of the airfield. Site 1 is located at the southeast corner of the intersection of Patrol Road and Magazine Road.

III. RESPONSIBLE PARTIES

01 OWNER (if known)	02 STREET (Business, mailing, residential)
U. S. Navy	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
El Centro	CA	92243-5001	(619) 339-2201

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Same as owner	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☒ B. FEDERAL: U. S. Navy (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 01/12/87 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☒ F. OTHER: Naval Energy and Environmental Support Activity (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1965 (BEGINNING YEAR) | 1983 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Household rubbish, plating waste, asbestos, water-bearing fuel, paint, solvent, spent 40mm cartridges, photographic chemicals, sandblast grit, motor oil, paint thinners, pesticide containers, batteries.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Site 1 is the lowest elevation on the base. Potential exists for contaminant migration through the ground water to cultivated fields or through the surface water to irrigation ditches. Potential for asbestos migration by wind.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Naval Energy and Environmental Support Activity	U. S. Navy	(805) 982-4502

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06/10/87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106-01

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — X POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

The ground water is shallow, approximately 8-12 feet deep. The bottom of the landfill is probably below the water table.

01 X B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — X POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

Site 1 is the lowest elevation on the base, so surface water tends to flow to the landfill. Contaminants may nigrate by means of nearby drainage ditches.

01 X C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE _____) — X POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

Asbestos

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 X F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE _____) — X POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 4 (Acres) — 04 NARRATIVE DESCRIPTION

The soil surrounding the landfill may be contaminated.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-01

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- X A SOLID
- B. POWDER, FINES
- X C SLUDGE
- D. OTHER _____ (Specify)
- E SLURRY
- X F LIQUID
- G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS 37,000

NO OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- X A TOXIC
- B CORROSIVE
- C RADIOACTIVE
- X D PERSISTENT
- E SOLUBLE
- F INFECTIOUS
- X G FLAMMABLE
- X H IGNITABLE
- X I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	30,000	cubic feet	metal sludges
OLW	OILY WASTE	4,000,000	gallons	JP-4,JP-5,diesel,MOGAS,motor oil
SOL	SOLVENTS	13,000	gallons	halogenated and non-halogenated
PSD	PESTICIDES	10,000	gallons	rinse water
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS	5,000	cubic feet	asbestos
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	90,000	pounds	sand blasting grit

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SLU	Cadmium	7440439	in metal sludges		
SLU	Arsenic	7440382	in metal sludges		
OLW	JP-5		Landfill - burning		
OLW	JP-4		Landfill - burning		
OLW	Diesel Fuel #2		Landfill - burning		
OLW	Leaded Gasoline	8006619	Landfill - burning		
OLW	Unleaded MOGAS		Landfill - burning		
OLW	Aviation Gasoline		Landfill - burning		
SOL	Trichloroethylene	79-01-6	Landfill - burning		
SOL	Tetrachloroethylene	127184	Landfill - burning		
SOL	Methyl Ethyl Ketone		Landfill - burning		
IOC	Asbestos	1332214	Landfill		
IOC	Silver	7440224	in photo solutions		
IOC	Lead	7439921	in photo solutions		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, interviews

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106-01

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☒ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Irrigated crops are grown nearby.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Same as Part II, Section VI

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 01

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 1 - Magazine Road Landfill	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE
324923	1153950

10 TYPE OF OWNERSHIP (Check one): ☐ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION (MONTH DAY YEAR)	02 SITE STATUS	03 YEARS OF OPERATION (BEGINNING YEAR / ENDING YEAR)
01 12 87	☐ ACTIVE ☒ INACTIVE	1965 / 1983 ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply): ☐ A. EPA ☐ B. EPA CONTRACTOR ___ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ___ (Name of firm) ☐ E. STATE ☐ F. STATE CONTRACTOR ___ (Name of firm) ☒ G. OTHER Naval Energy & Environmental Support Activity (NEESA) (Name of firm)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jeffrey L. Hendrix	Environmental Engineer	NEESA	(805) 982-3449

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Ronald E. Tickle	Environmental Engineer	NEESA	(805) 982-4502
Stephen E. Eikenberry	Hydrogeologist	NEESA	(805) 982-4067
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Not Applicable			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	0800	Sunny and warm, zero cloud cover, dry

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
Naval Energy and Environmental Support Activity (NEESA)	U.S. Navy	(805) 982-3449

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE (MONTH DAY YEAR)
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06 10 87

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 01

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- [X] A. SOLID
- [ ] B. POWDER, FINES
- [X] C. SLUDGE
- [ ] D. OTHER _____ (Specify)
- [ ] E. SLURRY
- [X] F. LIQUID
- [ ] G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS 37,000
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- [X] A. TOXIC
- [ ] B. CORROSIVE
- [ ] C. RADIOACTIVE
- [X] D. PERSISTENT
- [ ] E. SOLUBLE
- [ ] F. INFECTIOUS
- [X] G. FLAMMABLE
- [X] H. IGNITABLE
- [X] I. HIGHLY VOLATILE
- [ ] J. EXPLOSIVE
- [ ] K. REACTIVE
- [ ] L. INCOMPATIBLE
- [ ] M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	30,000	cubic feet	metal sludges
OLW	OILY WASTE	4,000,000	gallons	JP-4,JP-5,diesel,MOGAS,motor oil
SOL	SOLVENTS	13,000	gallons	halogenated and non-halogenated
PSD	PESTICIDES	10,000	gallons	rinse water
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS	5,000	cubic feet	asbestos
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	90,000	pounds	sand blasting grit

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SLU	Cadmium	7440439	in metal sludges		
SLU	Arsenic	7440382	in metal sludges		
OLW	JP-5		Landfill - burning		
OLW	JP-4		Landfill - burning		
OLW	Diesel Fuel #2		Landfill - burning		
OLW	Leaded Gasoline	8006619	Landfill - burning		
OLW	Unleaded MOGAS		Landfill - burning		
OLW	Aviation Gasoline		Landfill - burning		
SOL	Trichloroethylene	79-01-6	Landfill - burning		
SOL	Tetrachloroethylene	127184	Landfill - burning		
SOL	Methyl Ethyl Ketone		Landfill - burning		
IOC	Asbestos	1332214	Landfill		
IOC	Silver	7440224	in photo solutions		
IOC	Lead	7439921	in photo solutions		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, activity records, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 01

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

The ground water is shallow, approximately 8-12 feet deep. The bottom of the landfill is probably below the water table.

01 ☒ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Site 1 is the lowest elevation on the base, so surface water tends to flow to the landfill. Contaminants may migrate by means of nearby drainage ditches.

01 ☒ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Asbestos

01 ☐ D. FIRE EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 4 (Acres) — 04 NARRATIVE DESCRIPTION

The soil surrounding the landfill may be contaminated.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-01

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☒ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Irrigated crops are grown nearby.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, see References 1 through 17

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-01

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC	N60042			Navy UIC
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☒ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☒ F. LANDFILL	37,000	cubic yds
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER ___ (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☒ H. OTHER open burning (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

4 (Acres)

07 COMMENTS

Site 1 was the only base landfill from 1965 to 1983. Burning was conducted about once per month throughout the operation of the site.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

None

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE. ☐ YES ☒ NO

02 COMMENTS

The waste has been covered with soil

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 01

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☒	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 1 (mi)

B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☒ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL > 10 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
8-12 (ft)	Generally Northwest	N/A (ft)	_____ (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

No wells are located within Imperial County.

10 RECHARGE AREA		11 DISCHARGE AREA	
☐ YES ☒ NO	COMMENTS The irrigation areas may recharge the upper Aquifer which is unused.	☐ YES ☒ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☒ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☒ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
drainage ditches	☐	< .1 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 600 NO OF PERSONS	B. 1600 NO OF PERSONS	C. 1720 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION .5 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

276 Buildings on NAF El Centro
approximately 300 buildings in Seeley.

04 DISTANCE TO NEAREST OFF-SITE BUILDING .25 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are approximately 600 permanent civilians, officers, and enlisted men at NAF El Centro. The town is seeley with a population of between 800 to 900 is approximately one mile to the south of the base boundary. The rest of the area within three miles of NAF El Centro is agricultural.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE: CA | 02 SITE NUMBER: 106- 01

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
> 220 (ft)	(ft)	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
-70 (in)	1 (in)	1 %	Northwest	1 %

09 FLOOD POTENTIAL

SITE IS IN > 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)

OTHER: B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

16 (mi)

ENDANGERED SPECIES: Salton Sea Refuge

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A _____ (mi)	B. 16 (mi)	C. _____ (mi)	D. < .1 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Site 1 is the lowest elevation on NAF El Centro. The Salton Sea Wildlife Refuge is approximately 16 miles north of NAF El Centro.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See References 1, 2, 3, 5, 6, 8, 9, 11, 12, 13, 15, and 16

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 01

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF Naval Energy & Environmental Support Activity
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Naval Energy and Environmental Support Activity

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, see References 13 and 17

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 01

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 01

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME: U.S. Navy	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): NAF El Centro	04 SIC CODE:
05 CITY: El Centro	06 STATE: CA
07 ZIP CODE: 92243-5001	
08 YEARS OF OPERATION: 1965-1983	09 NAME OF OWNER: U.S. Navy

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME:	11 D+B NUMBER:
12 STREET ADDRESS (P.O. Box, RFD #, etc.):	13 SIC CODE:
14 CITY:	15 STATE:
16 ZIP CODE:	

III. PREVIOUS OPERATOR(S) (List most recent first, provide only if different from owner)

01 NAME:	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):	04 SIC CODE:
05 CITY:	06 STATE:
07 ZIP CODE:	
08 YEARS OF OPERATION:	09 NAME OF OWNER DURING THIS PERIOD:

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME:	11 D+B NUMBER:
12 STREET ADDRESS (P.O. Box, RFD #, etc.):	13 SIC CODE:
14 CITY:	15 STATE:
16 ZIP CODE:	

01 NAME:	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):	04 SIC CODE:
05 CITY:	06 STATE:
07 ZIP CODE:	
08 YEARS OF OPERATION:	09 NAME OF OWNER DURING THIS PERIOD:

10 NAME:	11 D+B NUMBER:
12 STREET ADDRESS (P.O. Box, RFD #, etc.):	13 SIC CODE:
14 CITY:	15 STATE:
16 ZIP CODE:	

01 NAME:	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):	04 SIC CODE:
05 CITY:	06 STATE:
07 ZIP CODE:	
08 YEARS OF OPERATION:	09 NAME OF OWNER DURING THIS PERIOD:

10 NAME:	11 D+B NUMBER:
12 STREET ADDRESS (P.O. Box, RFD #, etc.):	13 SIC CODE:
14 CITY:	15 STATE:
16 ZIP CODE:	

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-01

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-01

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☒ S. CAPPING/COVERING — 02 DATE 1983 — 03 AGENCY U.S. Navy
04 DESCRIPTION
The landfill was covered with soil.

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews.

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-01

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
FINAL STRATEGY DETERMINATION

REGION	SITE NUMBER
IX	106-01

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW, Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Site 1 - Magazine Road Landfill	NAF El Centro	
C. CITY	**D. STATE**	**E. ZIP CODE**
El Centro	CA	92243-5001

II. FINAL DETERMINATION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY: EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED					
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCES AVAILABLE *(If yes, complete Section III.)*					
C. REMEDIAL ACTION *(If yes, complete Section IV.)*					
D. ENFORCEMENT ACTION *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)*					

E. RATIONALE FOR FINAL STRATEGY DETERMINATION

The Preliminary Assessment/Site Inspection has been completed at this site. This site has been recommended for a Remedial Investigation (RI). The RI will verify and characterize the extent of contamination, if any. The need for a Remedial Action will be determined from the results of the RI. RI recommendations are given in Chapter 2 of this report.

F. IF A CASE DEVELOPMENT PLAN HAS BEEN PREPARED, SPECIFY THE DATE PREPARED *(mo., day, & yr.)*	G. IF AN ENFORCEMENT CASE HAS BEEN FILED, SPECIFY THE DATE FILED *(mo., day, & yr.)*

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, & yr.)*

III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE

List all remedial actions, such as excavation, removal, etc. to be taken as soon as resources become available. See instructions for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy.

A. REMEDIAL ACTION	B. ESTIMATED COST	C. REMARKS
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
D. TOTAL ESTIMATED COST	$	

Continued From Front

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY ACTIONS *(On Site and Off-Site)*: List all emergency actions taken or planned to bring the site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo, day, & yr)*	3. ACTION END DATE *(mo, day, & yr)*	4. ACTION AGENCY *(EPA, State, Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION: INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

B. LONG TERM STRATEGY *(On Site and Off-Site)*: List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo, day, & yr)*	3. ACTION END DATE *(mo, day, & yr)*	4. ACTION AGENCY *(EPA, State Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION: INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

C. MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL MAN-HOURS FOR REMEDIAL ACTIVITIES	3. TOTAL COST FOR REMEDIAL ACTIVITIES
a. EPA		$
b. STATE		$
c. PRIVATE PARTIES		$
d. OTHER *(specify)*:		$

EPA Form T2070-5 (10-79) REVERSE

REPRODUCED AT GOVERNMENT EXPENSE

REFERENCES FOR PA/SI FORMS

1. California Division of Mines and Geology, 1977. "Geologic Map of California San Diego-El Centro Sheet," California Division of Mines and Geology, Sacramento, California

2. Davis, Stanley N., and DeWiest, Roger J. M, 1966. Hydrogeology. John Wiley and Sons Inc., New York.

3. Department of Water Resources, 1986. "Selenium Sampling in Colorado River Basin Region," California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

4. Fair, Gordon M., et. al., 1966. Water and Wastewater Engineering. John Wileyand Sons, Inc., New York.

5. Freeze, Allan R., and Cherry John A, 1979. Groundwater. Pentice-Hall Inc, Engelwood Cliffs, New Jersey.

6. Gruenberg, P., 1984. Report on Preliminary Study of Fate of Selected Pollutants Discharged from Mexicali, Mexico, to the New River. California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

7. Lory, E. E., et. al., 1981. Management Procedure For Assessment of Friable Asbestos Insulating Material, TR-833. Civil Engineering Laboratory, Port Hueneme, California.

8. Lyon Engineers, Inc, 1985. "Soils Engineering Report, Bachelor Officers Quarters-Building 270, Naval Air Facility El Centro, CA." Western Division Naval Facilities Engineering Command, San Bruno, California.

9. Morton, Paul K, 1977. "Geology and Mineral Recources of Imperial County California." California Division of Mines and Geology, Sacaramento, CA.

10. Naval Energy and Environmental Support Activity (NEESA), 1986. "Hazardous Waste Annual Report CY85," Naval Air Facility, El Centro, California.

11. RGA Engineering Corporation, 1987. "Subsurface Investigation Repairs to Pavement at Fuel Farm, Naval Air Facility." Tucson, Arizona.

12. United States Department of Agriculture, 1981. "Soil Survey of Imperial County California, Imperial Valley Area." Soil Conservation Service.

13. United States Geological Survey, 1979. "Seeley Quadrangle, California, Imperial County, 7.5 minute Series." United States Geological Survey Denver, Colorado.

(con't)

14. WESTNAVFACENGCOM, 1972, 1981, 1982, 1983. "Navy Environmental Protection Data Base Reconnaissance - Activity Survey." Western Division, Naval Facilities Engineering Command, San Diego, California.

15. WESTNAVFACENGCOM, 1982a. Master Plan, Naval Air Facility El Centro California, Western Division, Naval Facilities Engineering Command, San Bruno, California.

16. WESTNAVFACENGCOM, 1982b. "Soil Investigation at West End of Runway 8L-26R Naval Air Facility, El Centro, CA." Western Division, Naval Facilities Engineering Command, San Bruno, California.

17. WESTNAVFACENGCOM, 1981. "General Development Map." Western Division Naval Facilities Engineering Command, San Bruno, California.

PRELIMINARY ASSESSMENT/SITE INSPECTION FORMS

SITE 2

PATROL ROAD LANDFILL

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-02

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 2 - Patrol Road Landfill	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE
324923.	1153950.

10 DIRECTIONS TO SITE (Starting from nearest public road) From Interstate 8 go north on Bennett Road to the base gate. Continue north on "B" Street to Patrol Road. Go right on Patrol Road around the runway. Site 2 is parallel to the taxiway and lies between Patrol Road and the runway.

III. RESPONSIBLE PARTIES

01 OWNER (if known)	02 STREET (Business, mailing, residential)
U. S. Navy	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
El Centro	CA	92243-5001	(619) 339-2201

07 OPERATOR (if known and different from owner)	08 STREET (Business, mailing, residential)
Same as owner	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☒ B. FEDERAL: U. S. Navy (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 01/12/87 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☒ F. OTHER: Naval Energy and Environmental Support Activity (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1946 (BEGINNING YEAR) 1965 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Household rubbish, paint, solvents, photographic chemicals, asbestos, water-bearing fuels, hydraulic fluid, mercury amalgam, batteries, sandblast grit, pesticides, battery acid, motor oil, demolition debris.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Potential migration of contaminants by ground water, surface water to New River. Migration of asbestos by wind is possible. Possible receptors include small animals, birds and vegetation.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Naval Energy and Environmental Support Activity	U. S. Navy	(805) 982-4502

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06/10/87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-02

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- X A. SOLID
- B. POWDER, FINES
- X C. SLUDGE
- E. SLURRY
- X F. LIQUID
- G. GAS
- D. OTHER _____ (Specify)

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

- TONS _____
- CUBIC YARDS 350,000
- NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- X A. TOXIC
- B. CORROSIVE
- C. RADIOACTIVE
- X D. PERSISTENT
- E. SOLUBLE
- F. INFECTIOUS
- X G. FLAMMABLE
- H. IGNITABLE
- I. HIGHLY VOLATILE
- J. EXPLOSIVE
- K. REACTIVE
- L. INCOMPATIBLE
- M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	4,000,000	gallons	JP-4, JP-5, diesel, AVGAS, MOGAS
SOL	SOLVENTS	13,000	gallons	MEK, CCl_4, $C_2H_2Cl_4$, TCE, Freon-113
PSD	PESTICIDES	1,000	gallons	chlorinated pesticides
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS	50,000	cubic feet	asbestos
ACD	ACIDS	2,000	gallons	battery acid, also the battery
BAS	BASES			
MES	HEAVY METALS	100,000	pounds	sandblast grit

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	AVGAS		Landfill		
OLW	Jet fuel (JP-4 & JP-5)		Landfill		
OLW	Diesel fuel		Landfill		
OLW	Regular MOGAS		Landfill		
OLW	Hydraulic fluid		Landfill		
SOL	Methyl ethyl ketone		Landfill		
SOL	Trichloroethylene	79-01-6	Landfill		
SOL	Carbon Tetrachloride	56-23-5	Landfill		
SOL	Tetrachloroethylene	127-18-4	Landfill		
PSD	Chlorinated pesticides		Landfill		
IOC	Asbestos	1332-21-4	Landfill		
IOC	Mercury amalgam		Landfill		
IOC	Sandblast grit		Landfill		
ACD	Battery acid		Landfill		
IOC	Batteries		Landfill		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, engineering field division records, personnel interviews, site visits, aerial photographs, geological reports, base maps

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-02

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — X POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

Ground water is shallow, approximately 8-12 feet below the bottom of the landfill. No digging was done to create this landfill.

01 X B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — X POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

Waste was placed into a deep wash and covered.

01 X C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE _____) — X POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

A white substance believed to a asbestos was observed on the surface of the landfill.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 X F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE _____) — X POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 30 (Acres) — 04 NARRATIVE DESCRIPTION

The surrounding soil where the material was buried may be contaminated. The debris scattered over the 30 acre site may have contaminated additional soil.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-02

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED

04 NARRATIVE DESCRIPTION

Irrigated crops are grown nearby.

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED

04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☒ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED

04 NARRATIVE DESCRIPTION

Crops are grown hearby.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☒ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED

04 NARRATIVE DESCRIPTION

Low potential since the receiving stream is the New River.

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED

04 NARRATIVE DESCRIPTION

The unlined drainage ditches and the Elder Canal run along the site boundary; which empty into the New River.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED

04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Same as Part II, Section VI

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-02

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 2 - Patrol Road Landfill	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
324923	1153950	☐ A. PRIVATE ☒ B. FEDERAL US Navy ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
01 12 87 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	1946 (BEGINNING YEAR) 1965 (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☒ G. OTHER Naval Energy & Environmental Support Activity (NEESA)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jeffrey L. Hendrix	Environmental Engineer	NEESA	(805) 982-3449
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Ronald E. Tickle	Environmental Engineer	NEESA	(805) 982-4502
Stephen E. Eikenberry	Hydrogeologist	NEESA	(805) 982-4067
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Not Applicable			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT		Sunny and warm, zero cloud cover, dry

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
Naval Energy and Environmental Support Activity (NEESA)	U.S. Navy	(805) 982-3449

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06 10 87 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-02

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- [X] A. SOLID
- [ ] B. POWDER, FINES
- [X] C. SLUDGE
- [ ] D. OTHER _____ (Specify)
- [ ] E. SLURRY
- [X] F. LIQUID
- [ ] G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS 350,000
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- [X] A. TOXIC
- [ ] B. CORROSIVE
- [ ] C. RADIOACTIVE
- [X] D. PERSISTENT
- [ ] E. SOLUBLE
- [ ] F. INFECTIOUS
- [X] G. FLAMMABLE
- [ ] H. IGNITABLE
- [ ] I. HIGHLY VOLATILE
- [ ] J. EXPLOSIVE
- [ ] K. REACTIVE
- [ ] L. INCOMPATIBLE
- [ ] M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	4,000,000	gallons	JP-4, JP-5, diesel, AVGAS, MOGAS
SOL	SOLVENTS	13,000	gallons	MEK, CCl_4, $C_2H_2Cl_4$, TCE, Freon-113
PSD	PESTICIDES	1,000	gallons	chlorinated pesticides
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS	50,000	cubic feet	asbestos
ACD	ACIDS	2,000	gallons	battery acid, also the battery
BAS	BASES			
MES	HEAVY METALS	100,000	pounds	sandblast grit

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	AVGAS		Landfill		
OLW	Jet fuel (JP-4 & JP-5)		Landfill		
OLW	Diesel fuel		Landfill		
OLW	Regular MOGAS		Landfill		
OLW	Hydraulic fluid		Landfill		
SOL	Methyl ethyl ketone		Landfill		
SOL	Trichloroethylene	79-01-6	Landfill		
SOL	Carbon Tetrachloride	56-23-5	Landfill		
SOL	Tetrachloroethylene	127-18-4	Landfill		
PSD	Chlorinated pesticides		Landfill		
IOC	Asbestos	1332-21-4	Landfill		
IOC	Mercury amalgam		Landfill		
IOC	Sandblast grit		Landfill		
ACD	Battery acid		Landfill		
IOC	Batteries		Landfill		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, activity records, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 02

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Ground water is shallow, approximately 8-12 feet below the bottom of the landfill. No digging was done to create this landfill.

01 ☒ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Waste was placed into a deep wash and covered.

01 ☒ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

A white substance believed to a asbestos was observed on the surface of the land.

01 ☐ D. FIRE EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 30 (Acres) — 04 NARRATIVE DESCRIPTION

The surrounding soil where the material was buried may be contaminated. The debris scattered over the 30 acre site may have contaminated additional soil.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-02

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Irrigated crops are grown nearby.

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☒ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Crops are grown nearby.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☒ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Low potential since the receiving stream is the New River.

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

The unlined drainage ditches and the Elder Canal run along the site boundary; which empty into the New River.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, see References 1 through 17

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 02

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC	N60042			Navy UIC
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☒ B. PILES	Unknown	
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☒ F. LANDFILL	100,000	cubic yd
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

30 (Acres)

07 COMMENTS

A natural wash was used for landfilling operations. The 30 acres is the area which was used for above ground disposal.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

None

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE. ☒ YES ☐ NO

02 COMMENTS

The waste disposed of on the surface is accessible by people on the base.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-02

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☒	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 0.75 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☒ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL > 10 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
8-12 (ft)	Generally Northwest	N/A (ft)	_____ (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

No wells are located within Imperial County.

10 RECHARGE AREA
☐ YES ☒ NO
COMMENTS The irrigation areas may recharge the upper Aquifer which is unused.

11 DISCHARGE AREA
☐ YES ☒ NO
COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☒ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☒ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
drainage ditch	☐	< 0.1 (mi)
Elder Canal	☐	< 0.1 (mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 600 NO. OF PERSONS	B. 1600 NO. OF PERSONS	C. 1720 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION _____ (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE
276 Buildings on NAF El Centro
approximately 300 buildings in Seeley.

04 DISTANCE TO NEAREST OFF-SITE BUILDING _____ (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are approximately 600 permanent civilians, officers, and enlisted men at NAF El Centro. The town is seeley with a population of between 800 to 900 is approximately one mile to the south of the base boundary. The rest of the area within three miles of NAF El Centro is agricultural.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-02

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
> 220 (ft)	(ft)	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
-70 (in)	1 (in)	< 1 %	north	< 1 %

09 FLOOD POTENTIAL: SITE IS IN > 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum): ESTUARINE A. (mi) OTHER B. (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species): 16 (mi)

ENDANGERED SPECIES:

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. (mi)	B. 16 (mi)	C. (mi)	D. (mi)

14. DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The Salton Sea Wildlife Refuge is approximately 16 miles to the north. Landfilling was conducted in a naturally occuring wash. The was completely filled. Demolition debris was disposed of on the surface of the 30 acre site.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See References 1, 2, 3, 5, 6, 8, 9, 11, 12, 13, 15, and 16

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 02

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF Naval Energy & Environmental Support Activity
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Naval Energy and Environmental Support Activity

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references e.g., state files, sample analysis, reports)

Activity records, see References 13 and 17

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 02

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 02

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

08 YEARS OF OPERATION	09 NAME OF OWNER
	U.S. Navy

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first, provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 02

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, records)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-02

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☒ S. CAPPING/COVERING — 02 DATE 1965 — 03 AGENCY U.S. Navy
04 DESCRIPTION The landfill portion of the site was covered with soil. The cap is shallow and incomplete.

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

On-site survey, activity records, personnel interviews.

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-02

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity Records.

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
FINAL STRATEGY DETERMINATION

REGION	SITE NUMBER
IX	106-02

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force *(EN-335)*; 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Site 2 - Patrol Road Landfill	NAF El Centro	
C. CITY	**D. STATE**	**E. ZIP CODE**
El Centro	CA	92243-5001

II. FINAL DETERMINATION

Indicate the recommended action*(s)* and agency*(ies)* that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY: EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED					
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCES AVAILABLE *(If yes, complete Section III.)*					
C. REMEDIAL ACTION *(If yes, complete Section IV.)*					
D. ENFORCEMENT ACTION *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)*					

E. RATIONALE FOR FINAL STRATEGY DETERMINATION

The Preliminary Assessment/Site Inspection has been completed at this site. This site has been recommended for a Remedial Investigation (RI). The RI will verify and characterize the extent of contamination, if any. The need for a Remedial Action will be determined from the results of the RI. RI recommendations are given in Chapter 2 of this report.

F. IF A CASE DEVELOPMENT PLAN HAS BEEN PREPARED, SPECIFY THE DATE PREPARED *(mo., day, & yr.)*	G. IF AN ENFORCEMENT CASE HAS BEEN FILED, SPECIFY THE DATE FILED *(mo., day, & yr.)*

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, & yr.)*

III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE

List all remedial actions, such as excavation, removal, etc. to be taken as soon as resources become available. See instructions for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy.

A. REMEDIAL ACTION	B. ESTIMATED COST	C. REMARKS
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
D. TOTAL ESTIMATED COST	$	

Continued From Front

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY ACTIONS *(On Site and Off-Site)*: List all emergency actions taken or planned to bring the site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo,day,&yr)*	3. ACTION END DATE *(mo,day,&yr)*	4. ACTION AGENCY *(EPA, State, Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION. INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

B. LONG TERM STRATEGY *(On Site and Off-Site)*: List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo,day,&yr)*	3. ACTION END DATE *(mo,day,&yr)*	4. ACTION AGENCY *(EPA, State Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION: INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

C. MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL MAN-HOURS FOR REMEDIAL ACTIVITIES	3. TOTAL COST FOR REMEDIAL ACTIVITIES
a. EPA		$
b. STATE		$
c. PRIVATE PARTIES		$
d. OTHER *(specify)*:		$

EPA Form T2070-5 (10-79) REVERSE

REPRODUCED AT GOVERNMENT EXPENSE

REFERENCES FOR PA/SI FORMS

1. California Division of Mines and Geology, 1977. "Geologic Map of California San Diego-El Centro Sheet," California Division of Mines and Geology, Sacramento, California

2. Davis, Stanley N., and DeWiest, Roger J. M, 1966. Hydrogeology. John Wiley and Sons Inc., New York.

3. Department of Water Resources, 1986. "Selenium Sampling in Colorado River Basin Region," California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

4. Fair, Gordon M., et. al., 1966. Water and Wastewater Engineering. John Wileyand Sons, Inc., New York.

5. Freeze, Allan R., and Cherry John A, 1979. Groundwater. Pentice-Hall Inc, Engelwood Cliffs, New Jersey.

6. Gruenberg, P., 1984. Report on Preliminary Study of Fate of Selected Pollutants Discharged from Mexicali, Mexico, to the New River. California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

7. Lory, E. E., et. al., 1981. Management Procedure For Assessment of Friable Asbestos Insulating Material, TR-833. Civil Engineering Laboratory, Port Hueneme, California.

8. Lyon Engineers, Inc, 1985. "Soils Engineering Report, Bachelor Officers Quarters-Building 270, Naval Air Facility El Centro, CA." Western Division Naval Facilities Engineering Command, San Bruno, California.

9. Morton, Paul K, 1977. "Geology and Mineral Recources of Imperial County California." California Division of Mines and Geology, Sacaramento, CA.

10. Naval Energy and Environmental Support Activity (NEESA), 1986. "Hazardous Waste Annual Report CY85," Naval Air Facility, El Centro, California.

11. RGA Engineering Corporation, 1987. "Subsurface Investigation Repairs to Pavement at Fuel Farm, Naval Air Facility." Tucson, Arizona.

12. United States Department of Agriculture, 1981. "Soil Survey of Imperial County California, Imperial Valley Area." Soil Conservation Service.

13. United States Geological Survey, 1979. "Seeley Quadrangle, California, Imperial County, 7.5 minute Series." United States Geological Survey Denver, Colorado.

(con't)

14. WESTNAVFACENGCOM, 1972, 1981, 1982, 1983. "Navy Environmental Protection Data Base Reconnaissance - Activity Survey." Western Division, Naval Facilities Engineering Command, San Diego, California.

15. WESTNAVFACENGCOM, 1982a. Master Plan, Naval Air Facility El Centro California, Western Division, Naval Facilities Engineering Command, San Bruno, California.

16. WESTNAVFACENGCOM, 1982b. "Soil Investigation at West End of Runway 8L-26R Naval Air Facility, El Centro, CA." Western Division, Naval Facilities Engineering Command, San Bruno, California.

17. WESTNAVFACENGCOM, 1981. "General Development Map." Western Division Naval Facilities Engineering Command, San Bruno, California.

PRELIMINARY ASSESSMENT/SITE INSPECTION FORMS

SITE 3

SLUDGE BURIAL AREA

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-03

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 3 - Sludge Burial Area	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE
324923._	1153950._

10 DIRECTIONS TO SITE (Starting from nearest public road) From Interstate 8 go north on Bennett Road to the base gate. Continue north on "B" Street. At Patrol Road head right around the runway. Site 3 is located at the northern boundary of the base, about 500 feet east of the sewage stabilization ponds.

III. RESPONSIBLE PARTIES

01 OWNER (if known)	02 STREET (Business, mailing, residential)
U. S. Navy	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
El Centro	CA	92243-5001	(619) 339-2201

07 OPERATOR (if known and different from owner)	08 STREET (Business, mailing, residential)
Same as owner	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☒ B. FEDERAL: U. S. Navy (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: ____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 01/12/87 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☒ F. OTHER: Naval Energy and Environmental Support Activity (Specify)
CONTRACTOR NAME(S): ____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1986 (BEGINNING YEAR) 1986 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

800 cubic feet of sewage sludge

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

The sludge may contain metals such as silver and cyanides.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Naval Energy and Environmental Support Activity	U. S. Navy	(805) 982-4502

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06/10/87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-03

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A SOLID
- B POWDER, FINES
- X C SLUDGE
- D. OTHER _____ (Specify)
- E SLURRY
- F LIQUID
- G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS 90

NO OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- A TOXIC
- B CORROSIVE
- C RADIOACTIVE
- X D PERSISTENT
- E SOLUBLE
- F INFECTIOUS
- G FLAMMABLE
- H IGNITABLE
- I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	90	cubic yards	WWTP Sludge
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	Silver	7440-22-4	Burial in sludge		
IOC	Cyanide	57125	Burial in sludge		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, Interviews

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106-03

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 [ ] OBSERVED (DATE _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

Ground water is shallow, approximately 8-12 feet deep. Sludge was buried at a depth of about 5 feet

01 [ ] B. SURFACE WATER CONTAMINATION — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] C. CONTAMINATION OF AIR — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] E. DIRECT CONTACT — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [X] F. CONTAMINATION OF SOIL — 02 [ ] OBSERVED (DATE _____) — [X] POTENTIAL — [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: small (Acres) — 04 NARRATIVE DESCRIPTION

Sludge is buried in a pit approximately 20 feet X 10 feet X 5 feet deep.

01 [ ] G. DRINKING WATER CONTAMINATION — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] H. WORKER EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] I. POPULATION EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106-03

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☒ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Crops are grown nearby, however, metals are relatively immobile in silty clays such as are found at NAF El Centro

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☒ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Crops are grown nearby.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, personnel interviews.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-03

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 3 - Sludge Burial Area	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES — LATITUDE: 324923 — LONGITUDE: 1153950

10 TYPE OF OWNERSHIP (Check one): ☐ A. PRIVATE ☒ B. FEDERAL US Navy ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 01/12/87 (MONTH DAY YEAR)

02 SITE STATUS: ☐ ACTIVE ☒ INACTIVE

03 YEARS OF OPERATION: 1986 (BEGINNING YEAR) | 1986 (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply): ☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm) ☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☒ G. OTHER Naval Energy & Environmental Support Activity (NEESA)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jeffrey L. Hendrix	Environmental Engineer	NEESA	(805) 982-3449

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Ronald E. Tickle	Environmental Engineer	NEESA	(805) 982-4502
Stephen E. Eikenberry	Hydrogeologist	NEESA	(805) 982-4067
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Not Applicable			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	1200	Sunny and warm, zero cloud cover, dry

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
Naval Energy and Environmental Support Activity (NEESA)	U.S. Navy	(805) 982-3449

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06/10/87 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 03

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☒ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☐ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS 90
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	90	cubic yards	WWTP Sludge
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	Silver	7440-22-4	Burial in sludge		
IOC	Cyanide	57125	Burial in sludge		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, activity records, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 03

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Ground water is shallow, approximately 8-12 feet deep. Sludge was buried at a depth of about 5 feet

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: small (Acres) — 04 NARRATIVE DESCRIPTION

Sludge is buried in a pit approximately 20 feet X 10 feet X 5 feet deep.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-03

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED

04 NARRATIVE DESCRIPTION

Crops are grown nearby, however, metals are relatively immobile in ailty clays such as are found at NAF El Centro

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED

04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☒ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED

04 NARRATIVE DESCRIPTION

Crops are grown nearby.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED

04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, see References 1 through 17

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 03

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☒ A. NPDES	CA0104906			
☒ B. UIC	N60042			Navy UIC
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☒ F. LANDFILL	800	cubic feet
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE: 0.05 (Acres)

07 COMMENTS

The treated sludge was disposed of in a pit 20 feet by 10 feet by 5 feet deep.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☒ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

The silty clay soil present at this site would decrease the mobility of the metals potentially present.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE. ☐ YES ☒ NO

02 COMMENTS

The sludge was buried

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 03

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as appropriate)

	SURFACE	WELL
COMMUNITY	A. ☒	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 2 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☒ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL > 10 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
8-12 (ft)	Generally Northwest	N/A (ft)	_____ (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

No wells are located within Imperial County.

10 RECHARGE AREA

☐ YES ☒ NO

COMMENTS: The irrigation areas may recharge the upper Aquifer which is unused.

11 DISCHARGE AREA

☐ YES ☒ NO

COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☒ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☒ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
drainage ditch	☐	< 0.1 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 600 NO. OF PERSONS	B. 1600 NO. OF PERSONS	C. 1720 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION 1.0 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

276 Buildings on NAF El Centro
approximately 300 buildings in Seeley.

04 DISTANCE TO NEAREST OFF-SITE BUILDING 0.2 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are approximately 600 permanent civilians, officers, and enlisted men at NAF El Centro. The town is seeley with a population of between 800 to 900 is approximately one mile to the south of the base boundary. The rest of the area within three miles of NAF El Centro is agricultural.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-03

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
> 220 (ft)	(ft)	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
-70 (in)	1 (in)	< 1 %	north	< 1 %

09 FLOOD POTENTIAL

SITE IS IN > 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)

OTHER: B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

_____ (mi)

ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A _____ (mi)	B. 16 (mi)	C. _____ (mi)	D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The sludge burial pit is not visible from the surface. This area was recently graded prior to the PA/SI.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See References 1, 2, 3, 5, 6, 8, 9, 11, 12, 13, 15, and 16

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 03

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER Sludge		Analytical results in STP log.	

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF Naval Energy & Environmental Support Activity (Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Naval Energy and Environmental Support Activity

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

The analytical results printed in the PA/SI were obtained from the STP operator.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, see References 13 and 17

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-03

II. CURRENT OWNER(S)			PARENT COMPANY (If applicable)		
01 NAME U.S. Navy	02 D+B NUMBER		08 NAME	09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) NAF El Centro	04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	
05 CITY El Centro	06 STATE CA	07 ZIP CODE 92243-5001	12 CITY	13 STATE	14 ZIP CODE
01 NAME	02 D+B NUMBER		08 NAME	09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME	02 D+B NUMBER		08 NAME	09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME	02 D+B NUMBER		08 NAME	09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)			IV. REALTY OWNER(S) (If applicable, list most recent first)		
01 NAME	02 D+B NUMBER		01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER		01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER		01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 03

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

08 YEARS OF OPERATION	09 NAME OF OWNER
1986	U.S. Navy

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first, provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-03

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 03

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-03

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
FINAL STRATEGY DETERMINATION

REGION	SITE NUMBER
IX	106- 03

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force *(EN-335)*; 401 M St., SW, Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Site 3 - Sludge Burial Area	NAF El Centro	
C. CITY	**D. STATE**	**E. ZIP CODE**
El Centro	CA	92243-5001

II. FINAL DETERMINATION

Indicate the recommended action*(s)* and agency*(ies)* that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY			
		EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED					
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCES AVAILABLE *(If yes, complete Section III.)*					
C. REMEDIAL ACTION *(If yes, complete Section IV.)*					
D. ENFORCEMENT ACTION *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)*					

E. RATIONALE FOR FINAL STRATEGY DETERMINATION

The Preliminary Assessment/Site Inspection has been completed at this site. This site has been recommended for a Remedial Investigation (RI). The RI will verify and characterize the extent of contamination, if any. The need for a Remedial Action will be determined from the results of the RI. RI recommendations are given in Chapter 2 of this report.

F. IF A CASE DEVELOPMENT PLAN HAS BEEN PREPARED, SPECIFY THE DATE PREPARED *(mo., day, & yr.)*	G. IF AN ENFORCEMENT CASE HAS BEEN FILED, SPECIFY THE DATE FILED *(mo., day, & yr.)*

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, & yr.)*

III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE

List all remedial actions, such as excavation, removal, etc. to be taken as soon as resources become available. See instructions for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy.

A. REMEDIAL ACTION	B. ESTIMATED COST	C. REMARKS
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
D. TOTAL ESTIMATED COST	$	

REPRODUCED AT GOVERNMENT EXPENSE

Continued From Front

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY ACTIONS *(On Site and Off-Site)*: List all emergency actions taken or planned to bring the site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo,day,&yr)*	3. ACTION END DATE *(mo,day,&yr)*	4. ACTION AGENCY *(EPA, State, Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION. INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

B. LONG TERM STRATEGY *(On Site and Off-Site)*: List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo,day,&yr)*	3. ACTION END DATE *(mo,day,&yr)*	4. ACTION AGENCY *(EPA, State Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION: INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

C. MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL MAN-HOURS FOR REMEDIAL ACTIVITIES	3. TOTAL COST FOR REMEDIAL ACTIVITIES
a. EPA		$
b. STATE		$
c. PRIVATE PARTIES		$
d. OTHER *(specify)*:		$

EPA Form T2070-5 (10-79) REVERSE

REPRODUCED AT GOVERNMENT EXPENSE

REFERENCES FOR PA/SI FORMS

1. California Division of Mines and Geology, 1977. "Geologic Map of California San Diego-El Centro Sheet," California Division of Mines and Geology, Sacramento, California

2. Davis, Stanley N., and DeWiest, Roger J. M, 1966. Hydrogeology. John Wiley and Sons Inc., New York.

3. Department of Water Resources, 1986. "Selenium Sampling in Colorado River Basin Region," California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

4. Fair, Gordon M., et. al., 1966. Water and Wastewater Engineering. John Wileyand Sons, Inc., New York.

5. Freeze, Allan R., and Cherry John A, 1979. Groundwater. Pentice-Hall Inc, Engelwood Cliffs, New Jersey.

6. Gruenberg, P., 1984. Report on Preliminary Study of Fate of Selected Pollutants Discharged from Mexicali, Mexico, to the New River. California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

7. Lory, E. E., et. al., 1981. Management Procedure For Assessment of Friable Asbestos Insulating Material, TR-833. Civil Engineering Laboratory, Port Hueneme, California.

8. Lyon Engineers, Inc, 1985. "Soils Engineering Report, Bachelor Officers Quarters-Building 270, Naval Air Facility El Centro, CA." Western Division Naval Facilities Engineering Command, San Bruno, California.

9. Morton, Paul K, 1977. "Geology and Mineral Recources of Imperial County California." California Division of Mines and Geology, Sacaramento, CA.

10. Naval Energy and Environmental Support Activity (NEESA), 1986. "Hazardous Waste Annual Report CY85," Naval Air Facility, El Centro, California.

11. RGA Engineering Corporation, 1987. "Subsurface Investigation Repairs to Pavement at Fuel Farm, Naval Air Facility." Tucson, Arizona.

12. United States Department of Agriculture, 1981. "Soil Survey of Imperial County California, Imperial Valley Area." Soil Conservation Service.

13. United States Geological Survey, 1979. "Seeley Quadrangle, California, Imperial County, 7.5 minute Series." United States Geological Survey Denver, Colorado.

(con't)

14. WESTNAVFACENGCOM, 1972, 1981, 1982, 1983. "Navy Environmental Protection Data Base Reconnaissance - Activity Survey." Western Division, Naval Facilities Engineering Command, San Diego, California.

15. WESTNAVFACENGCOM, 1982a. Master Plan, Naval Air Facility El Centro California, Western Division, Naval Facilities Engineering Command, San Bruno, California.

16. WESTNAVFACENGCOM, 1982b. "Soil Investigation at West End of Runway 8L-26R Naval Air Facility, El Centro, CA." Western Division, Naval Facilities Engineering Command, San Bruno, California.

17. WESTNAVFACENGCOM, 1981. "General Development Map." Western Division Naval Facilities Engineering Command, San Bruno, California.

PRELIMINARY ASSESSMENT/SITE INSPECTION FORMS

SITE 4

4TH STREET FIRE FIGHTING TRAINING AREA

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-04

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 4 - 4th Street Fire Fighting Training Area	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial		

09 COORDINATES LATITUDE	LONGITUDE
324923.	1153950.

10 DIRECTIONS TO SITE (Starting from nearest public road)
From Interstate 8 go north on Bennett Road to the base gate. Continue north on "B" Street to Patrol Road. Site 4 is on the left side of Patrol Road, midway between "C" and "D" Streets.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
U. S. Navy	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
El Centro	CA	92243-5001	(619) 339-2201

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Same as owner	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☒ B. FEDERAL: U. S. Navy (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 01/12/87 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☒ F. OTHER: Naval Energy and Environmental Support Activity (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1963 (BEGINNING YEAR) | 1975 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
JP-5, JP-4, Aviation gasoline, MOGAS (regular), Diesel fuel #2, used Hydraulic fluid.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Migration of contaminants is possible to the Elder Canal.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Naval Energy and Environmental Support Activity	U. S. Navy	(805) 982-4502

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06/10/87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-04

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A SOLID
- B POWDER, FINES
- C SLUDGE
- D. OTHER _____ (Specify)
- E SLURRY
- X F LIQUID
- G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO OF DRUMS 3,700

03 WASTE CHARACTERISTICS (Check all that apply)

- X A TOXIC
- B CORROSIVE
- C RADIOACTIVE
- X D PERSISTENT
- E SOLUBLE
- F INFECTIOUS
- X G FLAMMABLE
- H IGNITABLE
- I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	200,000	gallons	Burned on top of a water layer.
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	JP-5		Burned on water layer		
OLW	JP-4		Burned on water layer		
OLW	AVGAS		Burned on water layer		
OLW	MOGAS	8006619	Burned on water layer		
OLW	Hydraulic Fluid		Burned on water layer		
OLW	Diesel Fuel #2		Burned on water layer		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, Engineering Field Division records, Personnel Interviews, Site Visits, Aerial Photos, Geological Reports.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-04

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — X POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

The ground water is shallow, approximately 8-12 feet deep.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 X F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE _____) — X POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) — 04 NARRATIVE DESCRIPTION

The soil surrounding the site may be contaminated with the fuels used and lead.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-04

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☒ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

The ground water may flow into the Elder Canal, which flows into the New River (A poor quality water river)

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, Engineering Field Division Records, Interviews, Geological Reports, Site Visit

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 04

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 4 - 4th Street Fire Fighting Training Area	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
324923	1153950	☐ A. PRIVATE ☒ B. FEDERAL US NAVY ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION (MONTH DAY YEAR)	02 SITE STATUS	03 YEARS OF OPERATION (BEGINNING YEAR / ENDING YEAR)
01 12 87	☐ ACTIVE ☒ INACTIVE	1963 / 1975 ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☒ G. OTHER Naval Energy & Environmental Support Activity (NEESA)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jeffrey L. Hendrix	Environmental Engineer	NEESA	(805) 982-3449
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Ronald E. Tickle	Environmental Engineer	NEESA	(805) 982-4502
Stephen E. Eikenberry	Hydrogeologist	NEESA	(805) 982-4067
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Not Applicable			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	1400	Sunny and warm, zero cloud cover, dry

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
Naval Energy and Environmental Support Activity (NEESA)	U.S. Navy	(805) 982-3449

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE (MONTH DAY YEAR)
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06 10 87

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 04

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
NO. OF DRUMS 3,700

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☒ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	200,000	gallons	Burned on top of a water layer.
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	JP-5		Burned on water layer		
OLW	JP-4		Burned on water layer		
OLW	AVGAS		Burned on water layer		
OLW	MOGAS	8006619	Burned on water layer		
OLW	Hydraulic Fluid		Burned on water layer		
OLW	Diesel Fuel #2		Burned on water layer		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, activity records, see References 10 and 14

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 04

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

The ground water is shallow, approximately 8-12 feet deep.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) — 04 NARRATIVE DESCRIPTION

The soil surrounding the site may be contaminated with the fuels used and lead.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-04

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☒ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

The ground water may flow into the Elder Canal, which flows into the New River (A poor quality water river)

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, reports)

Personnel interviews, see References 1 through 17

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 04

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC	N60042			Navy UIC
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☒ I. OTHER Burn Pit (Specify)	200,000	gallon

04 TREATMENT (Check all that apply)

- ☒ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER _____ (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

0.004 (Acres)

07 COMMENTS

A small pit was used for fire fighter training. Water was placed in the pit, then a fuel layer was ignited on top.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

None

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE. ☐ YES ☒ NO

02 COMMENTS

Waste is within soil at site

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE: CA | 02 SITE NUMBER: 106- 04

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☒	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 1 (mi)

B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☒ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL > 10 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
8-12 (ft)	Generally Northwest	N/A (ft)	_____ (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

No wells are located within Imperial County.

10 RECHARGE AREA: ☐ YES ☒ NO — COMMENTS: The irrigation areas may recharge the upper Aquifer which is unused.

11 DISCHARGE AREA: ☐ YES ☒ NO — COMMENTS:

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☒ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☒ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
None	☐	_____ (mi)
	☐	_____ (mi)
	☐	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 600 NO OF PERSONS	B. 1600 NO OF PERSONS	C. 1720 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION _____ (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE
276 Buildings on NAF El Centro
approximately 300 buildings in Seeley.

04 DISTANCE TO NEAREST OFF-SITE BUILDING _____ (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are approximately 600 permanent civilians, officers, and enlisted men at NAF El Centro. The town is seeley with a population of between 800 to 900 is approximately one mile to the south of the base boundary. The rest of the area within three miles of NAF El Centro is agricultural.

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE: CA | 02 SITE NUMBER: 106- 04

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
> 220 (ft)	(ft)	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
-70 (in)	1 (in)	< 1 %	northwest	< 1 %

09 FLOOD POTENTIAL

SITE IS IN > 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)

OTHER: B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

16 (mi)

ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. _____ (mi)	B. 16 (mi)	C. _____ (mi)	D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Small circular area. Identical to surrounding unpaved areas. Sparsely vegetated.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See References 1, 2, 3, 5, 6, 8, 9, 11, 12, 13, 15, and 16

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 04

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF Naval Energy & Environmental Support Activity
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Naval Energy and Environmental Support Activity

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, see References 13 and 17

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 04

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 04

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME: U.S. Navy	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): NAF El Centro	04 SIC CODE:
05 CITY: El Centro	06 STATE: CA
07 ZIP CODE: 92243-5001	
08 YEARS OF OPERATION:	09 NAME OF OWNER: U.S. Navy

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME:	11 D+B NUMBER:
12 STREET ADDRESS (P.O. Box, RFD #, etc.):	13 SIC CODE:
14 CITY:	15 STATE:
16 ZIP CODE:	

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME:	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):	04 SIC CODE:
05 CITY:	06 STATE:
07 ZIP CODE:	
08 YEARS OF OPERATION:	09 NAME OF OWNER DURING THIS PERIOD:

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME:	11 D+B NUMBER:
12 STREET ADDRESS (P.O. Box, RFD #, etc.):	13 SIC CODE:
14 CITY:	15 STATE:
16 ZIP CODE:	

01 NAME:	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):	04 SIC CODE:
05 CITY:	06 STATE:
07 ZIP CODE:	
08 YEARS OF OPERATION:	09 NAME OF OWNER DURING THIS PERIOD:

10 NAME:	11 D+B NUMBER:
12 STREET ADDRESS (P.O. Box, RFD #, etc.):	13 SIC CODE:
14 CITY:	15 STATE:
16 ZIP CODE:	

01 NAME:	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):	04 SIC CODE:
05 CITY:	06 STATE:
07 ZIP CODE:	
08 YEARS OF OPERATION:	09 NAME OF OWNER DURING THIS PERIOD:

10 NAME:	11 D+B NUMBER:
12 STREET ADDRESS (P.O. Box, RFD #, etc.):	13 SIC CODE:
14 CITY:	15 STATE:
16 ZIP CODE:	

01 NAME:	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):	04 SIC CODE:
05 CITY:	06 STATE:
07 ZIP CODE:	
08 YEARS OF OPERATION:	09 NAME OF OWNER DURING THIS PERIOD:

10 NAME:	11 D+B NUMBER:
12 STREET ADDRESS (P.O. Box, RFD #, etc.):	13 SIC CODE:
14 CITY:	15 STATE:
16 ZIP CODE:	

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 04

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**03 STREET ADDRESS (P.O. Box, RFD #, etc.)**	**04 SIC CODE**
05 CITY	**06 STATE / 07 ZIP CODE**	**05 CITY**	**06 STATE / 07 ZIP CODE**
01 NAME	**02 D+B NUMBER**	**01 NAME**	**02 D+B NUMBER**
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**03 STREET ADDRESS (P.O. Box, RFD #, etc.)**	**04 SIC CODE**
05 CITY	**06 STATE / 07 ZIP CODE**	**05 CITY**	**06 STATE / 07 ZIP CODE**

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**03 STREET ADDRESS (P.O. Box, RFD #, etc.)**	**04 SIC CODE**
05 CITY	**06 STATE / 07 ZIP CODE**	**05 CITY**	**06 STATE / 07 ZIP CODE**
01 NAME	**02 D+B NUMBER**	**01 NAME**	**02 D+B NUMBER**
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**03 STREET ADDRESS (P.O. Box, RFD #, etc.)**	**04 SIC CODE**
05 CITY	**06 STATE / 07 ZIP CODE**	**05 CITY**	**06 STATE / 07 ZIP CODE**

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 04

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-04

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
FINAL STRATEGY DETERMINATION

REGION	SITE NUMBER
IX	106-04

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW, Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Site 4 - 4th Street Fire Fighting Training Area	NAF El Centro	
C. CITY	**D. STATE**	**E. ZIP CODE**
El Centro	CA	92243-5001

II. FINAL DETERMINATION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY: EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED					
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCES AVAILABLE *(If yes, complete Section III.)*					
C. REMEDIAL ACTION *(If yes, complete Section IV.)*					
D. ENFORCEMENT ACTION *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)*					

E. RATIONALE FOR FINAL STRATEGY DETERMINATION

The Preliminary Assessment/Site Inspection has been completed at this site. This site has been recommended for a Remedial Investigation (RI). The RI will verify and characterize the extent of contamination, if any. The need for a Remedial Action will be determined from the results of the RI. RI recommendations are given in Chapter 2 of this report.

F. IF A CASE DEVELOPMENT PLAN HAS BEEN PREPARED, SPECIFY THE DATE PREPARED *(mo., day, & yr.)*	G. IF AN ENFORCEMENT CASE HAS BEEN FILED, SPECIFY THE DATE FILED *(mo., day, & yr.)*

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, & yr.)*

III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE

List all remedial actions, such as excavation, removal, etc. to be taken as soon as resources become available. See instructions for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy.

A. REMEDIAL ACTION	B. ESTIMATED COST	C. REMARKS
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
D. TOTAL ESTIMATED COST	$	

Continued From Front

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY ACTIONS *(On Site and Off-Site)*: List all emergency actions taken or planned to bring the site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE (mo,day,&yr)	3. ACTION END DATE (mo,day,&yr)	4. ACTION AGENCY (EPA, State, Private Party)	5. COST	6. SPECIFY 311 OR OTHER ACTION. INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

B. LONG TERM STRATEGY *(On Site and Off-Site)*: List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE (mo,day,&yr)	3. ACTION END DATE (mo,day,&yr)	4. ACTION AGENCY (EPA, State Private Party)	5. COST	6. SPECIFY 311 OR OTHER ACTION: INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

C. MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL MAN-HOURS FOR REMEDIAL ACTIVITIES	3. TOTAL COST FOR REMEDIAL ACTIVITIES
a. EPA		$
b. STATE		$
c. PRIVATE PARTIES		$
d. OTHER *(specify)*:		$

EPA Form T2070-5 (10-79) REVERSE

REPRODUCED AT GOVERNMENT EXPENSE

REFERENCES FOR PA/SI FORMS

1. California Division of Mines and Geology, 1977. "Geologic Map of California San Diego-El Centro Sheet," California Division of Mines and Geology, Sacramento, California

2. Davis, Stanley N., and DeWiest, Roger J. M, 1966. Hydrogeology. John Wiley and Sons Inc., New York.

3. Department of Water Resources, 1986. "Selenium Sampling in Colorado River Basin Region," California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

4. Fair, Gordon M., et. al., 1966. Water and Wastewater Engineering. John Wileyand Sons, Inc., New York.

5. Freeze, Allan R., and Cherry John A, 1979. Groundwater. Pentice-Hall Inc, Engelwood Cliffs, New Jersey.

6. Gruenberg, P., 1984. Report on Preliminary Study of Fate of Selected Pollutants Discharged from Mexicali, Mexico, to the New River. California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

7. Lory, E. E., et. al., 1981. Management Procedure For Assessment of Friable Asbestos Insulating Material, TR-833. Civil Engineering Laboratory, Port Hueneme, California.

8. Lyon Engineers, Inc, 1985. "Soils Engineering Report, Bachelor Officers Quarters-Building 270, Naval Air Facility El Centro, CA." Western Division Naval Facilities Engineering Command, San Bruno, California.

9. Morton, Paul K, 1977. "Geology and Mineral Recources of Imperial County California." California Division of Mines and Geology, Sacaramento, CA.

10. Naval Energy and Environmental Support Activity (NEESA), 1986. "Hazardous Waste Annual Report CY85," Naval Air Facility, El Centro, California.

11. RGA Engineering Corporation, 1987. "Subsurface Investigation Repairs to Pavement at Fuel Farm, Naval Air Facility." Tucson, Arizona.

12. United States Department of Agriculture, 1981. "Soil Survey of Imperial County California, Imperial Valley Area." Soil Conservation Service.

13. United States Geological Survey, 1979. "Seeley Quadrangle, California, Imperial County, 7.5 minute Series." United States Geological Survey Denver, Colorado.

(con't)

14. WESTNAVFACENGCOM, 1972, 1981, 1982, 1983. "Navy Environmental Protection Data Base Reconnaissance - Activity Survey." Western Division, Naval Facilities Engineering Command, San Diego, California.

15. WESTNAVFACENGCOM, 1982a. Master Plan, Naval Air Facility El Centro California, Western Division, Naval Facilities Engineering Command, San Bruno, California.

16. WESTNAVFACENGCOM, 1982b. "Soil Investigation at West End of Runway 8L-26R Naval Air Facility, El Centro, CA." Western Division, Naval Facilities Engineering Command, San Bruno, California.

17. WESTNAVFACENGCOM, 1981. "General Development Map." Western Division Naval Facilities Engineering Command, San Bruno, California.

PRELIMINARY ASSESSMENT/SITE INSPECTION FORMS

SITE 5

FIRE FIGHTING TRAINING AREA EAST OF HANGAR #3

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-05

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 5 - Fire Fighting Training Area East of Hangar #3	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE
324923.	1153950.

10 DIRECTIONS TO SITE (Starting from nearest public road) From Interstate 8 go north on Bennett Road to the base gate. Head north on "A" Street for about 3/4 of a mile. Hangar #3 is a large building on the right side of "A" Street. The training area is about 600 feet east of Hangar #3.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
U. S. Navy	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
El Centro	CA	92243-5001	(619) 339-2201

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Same as owner	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☒ B. FEDERAL: U. S. Navy (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: / / (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: / / (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 01/12/87 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☒ F. OTHER: Naval Energy and Environmental Support Activity (Specify)
CONTRACTOR NAME(S):

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1958 (BEGINNING YEAR) 1963 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

JP-4, Aviation gasoline (AVGAS)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Possible lead contamination remaining at the site.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Naval Energy and Environmental Support Activity	U. S. Navy	(805) 982-4502

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06/10/87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-05

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A SOLID
- B POWDER, FINES
- C SLUDGE
- D. OTHER _____ (Specify)
- E SLURRY
- X F LIQUID
- G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO. OF DRUMS 3,000

03 WASTE CHARACTERISTICS (Check all that apply)

- X A TOXIC
- B CORROSIVE
- C RADIOACTIVE
- X D PERSISTENT
- E SOLUBLE
- F INFECTIOUS
- G FLAMMABLE
- X H IGNITABLE
- I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	160,000	Gallons	JP-4, AVGAS
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	JP-4		Stored in an unlined		
OLW	AVGAS		pit until burned		
			weekly.		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Interviews, Activity records, Engineering Field Division Records, Aerial Photos, Geological Report.

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-05

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — X POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

The ground water is shallow, approximately 8-12 feet deep. It has been 25 years since the area was last used.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 X F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE _____) — X POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: small (Acres) — 04 NARRATIVE DESCRIPTION

Lead from fuels may remain in the silty clay soil.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-05

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

The only hazard remaining is possible lead contamination in soil.

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, Engineering Field Division Records, Interviews, Geological Reports, Site visits

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-05

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 5 - Fire Fighting Training Area East of Hangar #3	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
324923	1153950	☐ A. PRIVATE ☒ B. FEDERAL US NAVY ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION (Month Day Year)	02 SITE STATUS	03 YEARS OF OPERATION
01,12,87	☐ ACTIVE ☒ INACTIVE	1958 (Beginning Year) 1963 (Ending Year) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ___ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ___ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR ___ (Name of firm) ☒ G. OTHER Naval Energy & Environmental Support Activity (NEESA)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jeffrey L. Hendrix	Environmental Engineer	NEESA	(805) 982-3449
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Ronald E. Tickle	Environmental Engineer	NEESA	(805) 982-4502
Stephen E. Eikenberry	Hydrogeologist	NEESA	(805) 982-4067
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Not Applicable			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT		Sunny and warm, zero cloud cover, dry

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
Naval Energy and Environmental Support Activity (NEESA)	U.S. Navy	(805) 982-3449

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06,10,87 (Month Day Year)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-05

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO. OF DRUMS 3,000

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☒ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	160,000	gallons	JP-4, AVGAS
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	JP-4		Stored in an unlined		
OLW	AVGAS		pit until burned		
			weekly.		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, activity records, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 05

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

The ground water is shallow, approximately 8-12 feet deep. It has been 25 years since the area was last used.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: small (Acres) — 04 NARRATIVE DESCRIPTION

Lead from fuels may remain in the silty clay soil.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106-05

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

The only hazard remaining is possible lead contamination in soil.

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, see References 1 through 17

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 05

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC	N60042			Navy UIC
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☒ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)
☒ A. SURFACE IMPOUNDMENT			☒ A. INCENERATION
☐ B. PILES			☐ B. UNDERGROUND INJECTION
☐ C. DRUMS, ABOVE GROUND			☐ C. CHEMICAL/PHYSICAL
☐ D. TANK, ABOVE GROUND			☐ D. BIOLOGICAL
☐ E. TANK, BELOW GROUND			☐ E. WASTE OIL PROCESSING
☐ F. LANDFILL			☐ F. SOLVENT RECOVERY
☐ G. LANDFARM			☐ G. OTHER RECYCLING/RECOVERY
☐ H. OPEN DUMP			☐ H. OTHER (Specify)
☒ I. OTHER (Specify) Burn pit			

05 OTHER

☐ A. BUILDINGS ON SITE

06 AREA OF SITE

.045 (Acres)

07 COMMENTS

Site 5 was a fifty foot diameter unlined area surrounded by an earthern berm. Fuels were stored in this bermed area throughout the week until the fire training exercises were conducted on the weekend.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

None

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS

The contaminants potentially present have been in the soil for approximately 25 years.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-05

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☒	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 1 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☒ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL > 10 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
8-12 (ft)	Generally Northwest	N/A (ft)	_____ (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

No wells are located within Imperial County.

10 RECHARGE AREA
☐ YES
☒ NO
COMMENTS The irrigation areas may recharge the upper Aquifer which is unused.

11 DISCHARGE AREA
☐ YES
☒ NO
COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☒ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☒ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
None	☐	_____ (mi)
	☐	_____ (mi)
	☐	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 600 NO OF PERSONS	B. 1600 NO OF PERSONS	C. 1720 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION < .1 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE
276 Buildings on NAF El Centro
approximately 300 buildings in Seeley.

04 DISTANCE TO NEAREST OFF-SITE BUILDING < .1 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are approximately 600 permanent civilians, officers, and enlisted men at NAF El Centro. The town is seeley with a population of between 800 to 900 is approximately one mile to the south of the base boundary. The rest of the area within three miles of NAF El Centro is agricultural.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 05

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
> 220 (ft)	(ft)	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
-70 (in)	1 (in)	<1 %	northwest	<1 %

09 FLOOD POTENTIAL

SITE IS IN > 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)

OTHER: B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

16 (mi)

ENDANGERED SPECIES: Salton Sea Refuge

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A _____ (mi)	B. 16 (mi)	C. _____ (mi)	D. .5 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Site 5 is no longer visible from the surface.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See References 1, 2, 3, 5, 6, 8, 9, 11, 12, 13, 15, and 16

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 05

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF Naval Energy & Environmental Support Activity
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Naval Energy and Environmental Support Activity

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, see References 13 and 17

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 05

II. CURRENT OWNER(S)			PARENT COMPANY (If applicable)		
01 NAME U.S. Navy		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) NAF El Centro		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY El Centro	06 STATE CA	07 ZIP CODE 92243-5001	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)			IV. REALTY OWNER(S) (If applicable, list most recent first)		
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 05

II. CURRENT OPERATOR (Provide if different from owner)			OPERATOR'S PARENT COMPANY (If applicable)		
01 NAME: U.S. Navy	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.): NAF El Centro	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY: El Centro	06 STATE: CA	07 ZIP CODE: 92243-5001	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION: 1958-1963	09 NAME OF OWNER: U.S. Navy				

III. PREVIOUS OPERATOR(S) (List most recent first, provide only if different from owner)			PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)		
01 NAME	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
01 NAME	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
01 NAME	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 05

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 05

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-05

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
FINAL STRATEGY DETERMINATION

REGION	SITE NUMBER
IX	106- 05

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force *(EN-335)*; 401 M St., SW, Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Site 5 - Fire Fighting Training Area East of Hangar #3	NAF El Centro	
C. CITY	**D. STATE**	**E. ZIP CODE**
El Centro	CA	92243-5001

II. FINAL DETERMINATION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY			
		EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED					
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCES AVAILABLE *(If yes, complete Section III.)*					
C. REMEDIAL ACTION *(If yes, complete Section IV.)*					
D. ENFORCEMENT ACTION *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)*					

E. RATIONALE FOR FINAL STRATEGY DETERMINATION

The Preliminary Assessment/Site Inspection has been completed at this site. This site has been recommended for a Remedial Investigation (RI). The RI will verify and characterize the extent of contamination, if any. The need for a Remedial Action will be determined from the results of the RI. RI recommendations are given in Chapter 2 of this report.

F. IF A CASE DEVELOPMENT PLAN HAS BEEN PREPARED, SPECIFY THE DATE PREPARED *(mo., day, & yr.)*	G. IF AN ENFORCEMENT CASE HAS BEEN FILED, SPECIFY THE DATE FILED *(mo., day, & yr.)*

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, & yr.)*

III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE

List all remedial actions, such as excavation, removal, etc. to be taken as soon as resources become available. See instructions for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy.

A. REMEDIAL ACTION	B. ESTIMATED COST	C. REMARKS
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
D. TOTAL ESTIMATED COST	$	

REPRODUCED AT GOVERNMENT EXPENSE

Continued From Front

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY ACTIONS *(On Site and Off-Site)*: List all emergency actions taken or planned to bring the site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE (mo,day,&yr)	3. ACTION END DATE (mo,day,&yr)	4. ACTION AGENCY (EPA, State, Private Party)	5. COST	6. SPECIFY 311 OR OTHER ACTION. INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

B. LONG TERM STRATEGY *(On Site and Off-Site)*: List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE (mo,day,&yr)	3. ACTION END DATE (mo,day,&yr)	4. ACTION AGENCY (EPA, State Private Party)	5. COST	6. SPECIFY 311 OR OTHER ACTION: INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

C. MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL MAN-HOURS FOR REMEDIAL ACTIVITIES	3. TOTAL COST FOR REMEDIAL ACTIVITIES
a. EPA		$
b. STATE		$
c. PRIVATE PARTIES		$
d. OTHER *(specify)*:		$

EPA Form T2070-5 (10-79) REVERSE

REPRODUCED AT GOVERNMENT EXPENSE

REFERENCES FOR PA/SI FORMS

1. California Division of Mines and Geology, 1977. "Geologic Map of California San Diego-El Centro Sheet," California Division of Mines and Geology, Sacramento, California

2. Davis, Stanley N., and DeWiest, Roger J. M, 1966. Hydrogeology. John Wiley and Sons Inc., New York.

3. Department of Water Resources, 1986. "Selenium Sampling in Colorado River Basin Region," California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

4. Fair, Gordon M., et. al., 1966. Water and Wastewater Engineering. John Wileyand Sons, Inc., New York.

5. Freeze, Allan R., and Cherry John A, 1979. Groundwater. Pentice-Hall Inc, Engelwood Cliffs, New Jersey.

6. Gruenberg, P., 1984. Report on Preliminary Study of Fate of Selected Pollutants Discharged from Mexicali, Mexico, to the New River. California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

7. Lory, E. E., et. al., 1981. Management Procedure For Assessment of Friable Asbestos Insulating Material, TR-833. Civil Engineering Laboratory, Port Hueneme, California.

8. Lyon Engineers, Inc, 1985. "Soils Engineering Report, Bachelor Officers Quarters-Building 270, Naval Air Facility El Centro, CA." Western Division Naval Facilities Engineering Command, San Bruno, California.

9. Morton, Paul K, 1977. "Geology and Mineral Recources of Imperial County California." California Division of Mines and Geology, Sacaramento, CA.

10. Naval Energy and Environmental Support Activity (NEESA), 1986. "Hazardous Waste Annual Report CY85," Naval Air Facility, El Centro, California.

11. RGA Engineering Corporation, 1987. "Subsurface Investigation Repairs to Pavement at Fuel Farm, Naval Air Facility." Tucson, Arizona.

12. United States Department of Agriculture, 1981. "Soil Survey of Imperial County California, Imperial Valley Area." Soil Conservation Service.

13. United States Geological Survey, 1979. "Seeley Quadrangle, California, Imperial County, 7.5 minute Series." United States Geological Survey Denver, Colorado.

(con't)

14. WESTNAVFACENGCOM, 1972, 1981, 1982, 1983. "Navy Environmental Protection Data Base Reconnaissance - Activity Survey." Western Division, Naval Facilities Engineering Command, San Diego, California.

15. WESTNAVFACENGCOM, 1982a. Master Plan, Naval Air Facility El Centro California, Western Division, Naval Facilities Engineering Command, San Bruno, California.

16. WESTNAVFACENGCOM, 1982b. "Soil Investigation at West End of Runway 8L-26R Naval Air Facility, El Centro, CA." Western Division, Naval Facilities Engineering Command, San Bruno, California.

17. WESTNAVFACENGCOM, 1981. "General Development Map." Western Division Naval Facilities Engineering Command, San Bruno, California.

PRELIMINARY ASSESSMENT/SITE INSPECTION FORMS

SITE 6

NORTHWEST FIRE FIGHTING TRAINING AREA

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-06

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Site 6 - Northwest Fire Fighting Training Area	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE
324923.	1153950.

10 DIRECTIONS TO SITE (Starting from nearest public road)
From Interstate 8 go north on Bennet Road to the base gate. Continue north on B Street to Patrol Road. Remain on Patrol Road to the sewage treatment plant. Site 6 is located about 750 feet east of the STP, within irrigated land field "C".

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
U. S. Navy	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
El Centro	CA	92243-5001	(619) 339-2201

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Same as owner	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☒ B. FEDERAL: U. S. Navy (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 01/13/87 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☒ F. OTHER: Naval Energy and Environmental Support Activity (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1946 (BEGINNING YEAR) 1958 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Aviation gasoline (AVGAS)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Potential for lead-contaminated soil in a cultivated field.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Naval Energy and Environmental Support Activity	U. S. Navy	(805) 982-4502

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06/10/87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-06

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A SOLID
- B POWDER, FINES
- C SLUDGE
- D. OTHER _____ (Specify)
- E SLURRY
- X F LIQUID
- G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO OF DRUMS 5,500

03 WASTE CHARACTERISTICS (Check all that apply)

- A TOXIC
- B CORROSIVE
- C RADIOACTIVE
- X D PERSISTENT
- E SOLUBLE
- F INFECTIOUS
- X G FLAMMABLE
- H IGNITABLE
- X I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	300,000	Gallons	Aviation Gasoline
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	Aviation Gasoline		Stored in an unlined pit, burned weekly.		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Interviews, Activity records, Engineering Field Division Records, Aerial Photography, Base Maps, Geological Reports.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106-06

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE _____) [X] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

The ground water is shallow, approximately 8-12 feet deep. The site was last used in 1958.

01 [ ] B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [ ] C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [ ] E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [X] F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: .045 (Acres)
02 [ ] OBSERVED (DATE _____) [X] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

Lead from the AVGAS may be present in the silty clay.

01 [ ] G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [ ] H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [ ] I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA | 02 SITE NUMBER: 106-06

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☒ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Crops are grown in this area.

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☒ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Crops such as hay and alfalfa are grown in this area.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

The only hazard remaining 30 years after the pit's last use is lead in the soil and its potential to be found in the crops.

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, Engineering Field Division Records, Interviews, Geological Reports, Site visits, Base maps, Aerial Photos

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 06

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 6 - Northwest Fire Fighting Training Area	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
324923	1153950	☐ A. PRIVATE ☒ B. FEDERAL US NAVY ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
01,13,87 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	1946 (BEGINNING YEAR) 1958 (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☒ G. OTHER Naval Energy & Environmental Support Activity (NEESA) (Name of firm)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jeffrey L. Hendrix	Environmental Engineer	NEESA	(805) 982-3449
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Ronald E. Tickle	Environmental Engineer	NEESA	(805) 982-4502
Stephen E. Eikenberry	Hydrogeologist	NEESA	(805) 982-4067
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Not Applicable			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT		Sunny and warm, zero cloud cover, dry

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
Naval Energy and Environmental Support Activity (NEESA)	U.S. Navy	(805) 982-3449

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06,10,87 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 06

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO. OF DRUMS 5,500

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☒ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☒ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	300,000	gallons	Aviation Gasoline
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	Aviation Gasoline		Stored in an unlined pit, burned weekly.		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, activity records, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 06

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

The ground water is shallow, approximately 8-12 feet deep. The site was last used in 1958.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: .045 (Acres) — 04 NARRATIVE DESCRIPTION

Lead from the AVGAS may be present in the silty clay.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106-06

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Crops are grown in this area.

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☒ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Crops such as hay and alfalfa are grown in this area.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

The only hazard remaining 30 years after the pit last use in lead in the soil and its potential to be found in the crops.

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, see References 1 through 17

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 06

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☒ B. UIC	N60042			Navy UIC
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☒ A. SURFACE IMPOUNDMENT	300,000	gallons
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☒ I. OTHER Burn Pit (Specify)		

04 TREATMENT (Check all that apply)
- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER _____ (Specify)

05 OTHER
- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE: .045 (Acres)

07 COMMENTS

The waste AVGAS was stored in the unlined pit as it was generated throughout the week. The fire training exercises were conducted on weekends.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE. ☐ YES ☒ NO

02 COMMENTS

Any remaining lead from the AVGAS would be in the sility clay soil of the site.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 06

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☒	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 2 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☒ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL > 10 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
8-12 (ft)	Generally Northwest	N/A (ft)	_____ (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

No wells are located within Imperial County.

10 RECHARGE AREA
☐ YES
☒ NO
COMMENTS: The irrigation areas may recharge the upper Aquifer which is unused.

11 DISCHARGE AREA
☐ YES
☒ NO
COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☒ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☒ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
None	☐	_____ (mi)
	☐	_____ (mi)
	☐	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 600	B. 1600	C. 1720
NO OF PERSONS	NO OF PERSONS	NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION .25 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE
276 Buildings on NAF El Centro
approximately 300 buildings in Seeley.

04 DISTANCE TO NEAREST OFF-SITE BUILDING .25 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are approximately 600 permanent civilians, officers, and enlisted men at NAF El Centro. The town is seeley with a population of between 800 to 900 is approximately one mile to the south of the base boundary. The rest of the area within three miles of NAF El Centro is agricultural.

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 06

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
> 220 (ft)	(ft)	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
-70 (in)	1 (in)	< 1 %	northwest	< 1% %

09 FLOOD POTENTIAL

SITE IS IN > 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)

OTHER: B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

16 (mi)

ENDANGERED SPECIES: Salton Sea Refuge

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A _____ (mi)	B. 16 (mi)	C. _____ (mi)	D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Site 6 is not visible from the surface.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See References 1, 2, 3, 5, 6, 8, 9, 11, 12, 13, 15, and 16

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 06

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF Naval Energy & Environmental Support Activity
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Naval Energy and Environmental Support Activity

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, see References 13 and 17

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 06

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 06

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

08 YEARS OF OPERATION	09 NAME OF OWNER
1946-1958	U.S. Navy

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 06

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 06

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-06

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
FINAL STRATEGY DETERMINATION

REGION	SITE NUMBER
IX	106-06

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force *(EN-335)*; 401 M St., SW, Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Site 6 - Northwest Fire Fighting Training Area	NAF El Centro	
C. CITY	**D. STATE**	**E. ZIP CODE**
El Centro	CA	92243-5001

II. FINAL DETERMINATION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY: EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED					
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCES AVAILABLE *(If yes, complete Section III.)*					
C. REMEDIAL ACTION *(If yes, complete Section IV.)*					
D. ENFORCEMENT ACTION *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)*					

E. RATIONALE FOR FINAL STRATEGY DETERMINATION

The Preliminary Assessment/Site Inspection has been completed at this site. This site has been recommended for a Remedial Investigation (RI). The RI will verify and characterize the extent of contamination, if any. The need for a Remedial Action will be determined from the results of the RI. RI recommendations are given in Chapter 2 of this report.

F. IF A CASE DEVELOPMENT PLAN HAS BEEN PREPARED, SPECIFY THE DATE PREPARED *(mo., day, & yr.)*	G. IF AN ENFORCEMENT CASE HAS BEEN FILED, SPECIFY THE DATE FILED *(mo., day, & yr.)*

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, & yr.)*

III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE

List all remedial actions, such as excavation, removal, etc. to be taken as soon as resources become available. See instructions for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy.

A. REMEDIAL ACTION	B. ESTIMATED COST	C. REMARKS
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
D. TOTAL ESTIMATED COST	$	

Continued From Front

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY ACTIONS *(On Site and Off-Site)*: List all emergency actions taken or planned to bring the site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo,day,&yr)*	3. ACTION END DATE *(mo,day,&yr)*	4. ACTION AGENCY *(EPA, State, Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION. INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

B. LONG TERM STRATEGY *(On Site and Off-Site)*: List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo,day,&yr)*	3. ACTION END DATE *(mo,day,&yr)*	4. ACTION AGENCY *(EPA, State Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION: INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

C. MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL MAN-HOURS FOR REMEDIAL ACTIVITIES	3. TOTAL COST FOR REMEDIAL ACTIVITIES
a. EPA		$
b. STATE		$
c. PRIVATE PARTIES		$
d. OTHER *(specify)*:		$

EPA Form T2070-5 (10-79) REVERSE

REPRODUCED AT GOVERNMENT EXPENSE

REFERENCES FOR PA/SI FORMS

1. California Division of Mines and Geology, 1977. "Geologic Map of California San Diego-El Centro Sheet," California Division of Mines and Geology, Sacramento, California

2. Davis, Stanley N., and DeWiest, Roger J. M, 1966. Hydrogeology. John Wiley and Sons Inc., New York.

3. Department of Water Resources, 1986. "Selenium Sampling in Colorado River Basin Region," California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

4. Fair, Gordon M., et. al., 1966. Water and Wastewater Engineering. John Wileyand Sons, Inc., New York.

5. Freeze, Allan R., and Cherry John A, 1979. Groundwater. Pentice-Hall Inc, Engelwood Cliffs, New Jersey.

6. Gruenberg, P., 1984. Report on Preliminary Study of Fate of Selected Pollutants Discharged from Mexicali, Mexico, to the New River. California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

7. Lory, E. E., et. al., 1981. Management Procedure For Assessment of Friable Asbestos Insulating Material, TR-833. Civil Engineering Laboratory, Port Hueneme, California.

8. Lyon Engineers, Inc, 1985. "Soils Engineering Report, Bachelor Officers Quarters-Building 270, Naval Air Facility El Centro, CA." Western Division Naval Facilities Engineering Command, San Bruno, California.

9. Morton, Paul K, 1977. "Geology and Mineral Recources of Imperial County California." California Division of Mines and Geology, Sacaramento, CA.

10. Naval Energy and Environmental Support Activity (NEESA), 1986. "Hazardous Waste Annual Report CY85," Naval Air Facility, El Centro, California.

11. RGA Engineering Corporation, 1987. "Subsurface Investigation Repairs to Pavement at Fuel Farm, Naval Air Facility." Tucson, Arizona.

12. United States Department of Agriculture, 1981. "Soil Survey of Imperial County California, Imperial Valley Area." Soil Conservation Service.

13. United States Geological Survey, 1979. "Seeley Quadrangle, California, Imperial County, 7.5 minute Series." United States Geological Survey Denver, Colorado.

(con't)

14. WESTNAVFACENGCOM, 1972, 1981, 1982, 1983. "Navy Environmental Protection Data Base Reconnaissance - Activity Survey." Western Division, Naval Facilities Engineering Command, San Diego, California.

15. WESTNAVFACENGCOM, 1982a. Master Plan, Naval Air Facility El Centro California, Western Division, Naval Facilities Engineering Command, San Bruno, California.

16. WESTNAVFACENGCOM, 1982b. "Soil Investigation at West End of Runway 8L-26R Naval Air Facility, El Centro, CA." Western Division, Naval Facilities Engineering Command, San Bruno, California.

17. WESTNAVFACENGCOM, 1981. "General Development Map." Western Division Naval Facilities Engineering Command, San Bruno, California.

PRELIMINARY ASSESSMENT/SITE INSPECTION FORMS

SITE 7

ABANDONED FUEL FARM

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-07

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 7 - Abandoned Fuel Farm	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE
324923.	1153950.

10 DIRECTIONS TO SITE (Starting from nearest public road)

From Interstate 8 go north on Bennet Road to the base gate. Continue north on B Street, then left on Patrol Road. The fuel farm is located north of Patrol Road, mostly between B and C Streets.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
U. S. Navy	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
El Centro	CA	92243-5001	(619) 339-2201

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Same as owner	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)

☐ A. PRIVATE ☒ B. FEDERAL: U. S. Navy (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL

☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES DATE 01/13/87 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☒ F. OTHER: Naval Energy and Environmental Support Activity (Specify)

CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)

☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION

1942 (BEGINNING YEAR) | 1958 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

water bearing fuel: AVGAS, JP-4, MOGAS, Diesel fuel

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Possible lead contamination of the soil in the area.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Naval Energy and Environmental Support Activity	U. S. Navy	(805) 982-4502

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06/10/87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-07

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A SOLID
- B POWDER, FINES
- C SLUDGE
- D. OTHER _____ (Specify)
- E SLURRY
- X F LIQUID
- G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO OF DRUMS 800

03 WASTE CHARACTERISTICS (Check all that apply)

- A TOXIC
- B CORROSIVE
- C RADIOACTIVE
- D PERSISTENT
- E SOLUBLE
- F INFECTIOUS
- X G FLAMMABLE
- X H IGNITABLE
- I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	40,000	Gallons	Due to Spillage & Sludge
SOL	SOLVENTS			left in abandoned tanks
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	AVGAS (Aviation gasoline)		Spillage		
OLW	JP-4 (jet fuel)		Spillage		
OLW	MOGAS	8006619	Spillage		
OLW	Diesel fuel		Spillage		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, Personnel Interviews, Engineering Field Division, Records, Aerial Photographs, Base Map, Geological Reports.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-07

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — X POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

The ground water is shallow, approximately 8-12 feet deep. It has been 29 years since the last spillage.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 X F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE _____) — X POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 8 (Acres) — 04 NARRATIVE DESCRIPTION

The fuel spills seeped into the soil. Sludge was disposed of in place.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-07

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids, leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

The abandoned fuel farm is between the current taxiway and the runway.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, Engineering Field Division Records, Personnel Interviews, Geological Reports, Site Visits.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 07

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 7 - Abandoned Fuel Farm	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE
32 49 23	115 39 50

10 TYPE OF OWNERSHIP (Check one): ☐ A. PRIVATE ☒ B. FEDERAL US NAVY ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION (MONTH DAY YEAR)	02 SITE STATUS	03 YEARS OF OPERATION (BEGINNING YEAR / ENDING YEAR)
01 13 87	☐ ACTIVE ☒ INACTIVE	1942 / 1958 ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply): ☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm) ☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☒ G. OTHER Naval Energy & Environmental Support Activity (NEESA)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jeffrey L. Hendrix	Environmental Engineer	NEESA	(805) 982-3449

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Ronald E. Tickle	Environmental Engineer	NEESA	(805) 982-4502
Stephen E. Eikenberry	Hydrogeologist	NEESA	(805) 982-4067
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Not Applicable			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	1000	Sunny and warm, zero cloud cover, dry

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
Naval Energy and Environmental Support Activity (NEESA)	U.S. Navy	(805) 982-3449

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE (MONTH DAY YEAR)
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06 10 87

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 07

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO. OF DRUMS 800

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☒ G. FLAMMABLE
- ☒ H. IGNITABLE
- ☒ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	40,000	gallons	Due to Spillage & Sludge
SOL	SOLVENTS			left in abandoned tanks
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	AVGAS (Aviation gasoline)		Spillage		
OLW	JP-4 (jet fuel)		Spillage		
OLW	MOGAS	8006619	Spillage		
OLW	Diesel fuel		Spillage		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, activity records, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 07

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

The ground water is shallow, approximately 8-12 feet deep. It has been 29 years since the last spillage.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 8 (Acres) — 04 NARRATIVE DESCRIPTION

The fuel spills seeped into the soil. Sludge was disposed of in place.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 07

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

The abandoned fuel farm is between the current taxiway and the runway.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, see References 1 through 17

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☒ B. UIC	N60042			Navy UIC
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☒ E. TANK, BELOW GROUND	11	tanks
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER ___ (Specify)		

04 TREATMENT (Check all that apply)
- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER ___ (Specify)

05 OTHER
- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE: 8 (Acres)

07 COMMENTS

Site 7 - Abandoned fuel farm consisted of five 50,000 gallon underground concrete storage tanks and six 25,000 gallon underground concrete storage tanks. In 1958 the fuel was removed and the tanks were crushed and filled with dirt. During the site's operational history, spills often occured during regueling and fuel tansfers.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE. ☐ YES ☒ NO

02 COMMENTS

The site is located between a runway and a taxiway. It is not accessible.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106-07

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☒	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE
A. 1 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☒ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL > 10 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
8-12 (ft)	Generally Northwest	N/A (ft)	_____ (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

No wells are located within Imperial County.

10 RECHARGE AREA: ☐ YES ☒ NO
COMMENTS: The irrigation areas may recharge the upper Aquifer which is unused.

11 DISCHARGE AREA: ☐ YES ☒ NO
COMMENTS:

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☒ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☒ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
None	☐	_____ (mi)
	☐	_____ (mi)
	☐	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 600 NO OF PERSONS	B. 1600 NO OF PERSONS	C. 1720 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION: 1/8 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE
276 Buildings on NAF El Centro
approximately 300 buildings in Seeley.

04 DISTANCE TO NEAREST OFF-SITE BUILDING: 1/8 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are approximately 600 permanent civilians, officers, and enlisted men at NAF El Centro. The town is seeley with a population of between 800 to 900 is approximately one mile to the south of the base boundary. The rest of the area within three miles of NAF El Centro is agricultural.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 07

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
> 220 (ft)	(ft)	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
-70 (in)	1 (in)	<1 %	very flat	<1 %

09 FLOOD POTENTIAL

SITE IS IN > 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)

OTHER: B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

16 (mi)

ENDANGERED SPECIES: Salton Sea Refuge

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A _____ (mi)	B. 16 (mi)	C. _____ (mi)	D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The abandoned fuel farm is located between Taxiway "A" and Runway 26. The area is very flat.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See References 1, 2, 3, 5, 6, 8, 9, 11, 12, 13, 15, and 16

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 07

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF Naval Energy & Environmental Support Activity
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Naval Energy and Environmental Support Activity

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, see References 13 and 17

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 07

II. CURRENT OWNER(S)			PARENT COMPANY (If applicable)		
01 NAME U.S. Navy		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) NAF El Centro		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY El Centro	06 STATE CA	07 ZIP CODE 92243-5001	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)			IV. REALTY OWNER(S) (If applicable, list most recent first)		
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 07

II. CURRENT OPERATOR (Provide if different from owner)			OPERATOR'S PARENT COMPANY (If applicable)		
01 NAME: U.S. Navy	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.): NAF El Centro	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY: El Centro	06 STATE: CA	07 ZIP CODE: 92243-5001	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION: 1942-1958	09 NAME OF OWNER: U.S. Navy				

III. PREVIOUS OPERATOR(S) (List most recent first, provide only if different from owner)			PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)		
01 NAME	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
01 NAME	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
01 NAME	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 07

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER	
U.S. Navy		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
NAF El Centro		
05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 07

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-07

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
FINAL STRATEGY DETERMINATION

REGION	SITE NUMBER
IX	106- 07

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force *(EN-335)*; 401 M St., SW, Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Site 7 - Abandoned Fuel Farm	NAF El Centro	
C. CITY	**D. STATE**	**E. ZIP CODE**
El Centro	CA	92243-5001

II. FINAL DETERMINATION

Indicate the recommended action*(s)* and agency*(ies)* that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY: EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED					
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCES AVAILABLE *(If yes, complete Section III.)*					
C. REMEDIAL ACTION *(If yes, complete Section IV.)*					
D. ENFORCEMENT ACTION *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)*					

E. RATIONALE FOR FINAL STRATEGY DETERMINATION

The Preliminary Assessment/Site Inspection has been completed at this site. This site has been recommended for a Remedial Investigation (RI). The RI will verify and characterize the extent of contamination, if any. The need for a Remedial Action will be determined from the results of the RI. RI recommendations are given in Chapter 2 of this report.

F. IF A CASE DEVELOPMENT PLAN HAS BEEN PREPARED, SPECIFY THE DATE PREPARED *(mo., day, & yr.)*	G. IF AN ENFORCEMENT CASE HAS BEEN FILED, SPECIFY THE DATE FILED *(mo., day, & yr.)*

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, & yr.)*

III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE

List all remedial actions, such as excavation, removal, etc. to be taken as soon as resources become available. See instructions for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy.

A. REMEDIAL ACTION	B. ESTIMATED COST	C. REMARKS
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
D. TOTAL ESTIMATED COST	$	

REPRODUCED AT GOVERNMENT EXPENSE

Continued From Front

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY ACTIONS *(On Site and Off-Site)*: List all emergency actions taken or planned to bring the site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo,day,&yr)*	3. ACTION END DATE *(mo,day,&yr)*	4. ACTION AGENCY *(EPA, State, Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION. INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

B. LONG TERM STRATEGY *(On Site and Off-Site)*: List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo,day,&yr)*	3. ACTION END DATE *(mo,day,&yr)*	4. ACTION AGENCY *(EPA, State Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION: INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

C. MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL MAN-HOURS FOR REMEDIAL ACTIVITIES	3. TOTAL COST FOR REMEDIAL ACTIVITIES
a. EPA		$
b. STATE		$
c. PRIVATE PARTIES		$
d. OTHER *(specify)*:		$

EPA Form T2070-5 (10-79) REVERSE

REPRODUCED AT GOVERNMENT EXPENSE

REFERENCES FOR PA/SI FORMS

1. California Division of Mines and Geology, 1977. "Geologic Map of California San Diego-El Centro Sheet," California Division of Mines and Geology, Sacramento, California

2. Davis, Stanley N., and DeWiest, Roger J. M, 1966. Hydrogeology. John Wiley and Sons Inc., New York.

3. Department of Water Resources, 1986. "Selenium Sampling in Colorado River Basin Region," California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

4. Fair, Gordon M., et. al., 1966. Water and Wastewater Engineering. John Wileyand Sons, Inc., New York.

5. Freeze, Allan R., and Cherry John A, 1979. Groundwater. Pentice-Hall Inc, Engelwood Cliffs, New Jersey.

6. Gruenberg, P., 1984. Report on Preliminary Study of Fate of Selected Pollutants Discharged from Mexicali, Mexico, to the New River. California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

7. Lory, E. E., et. al., 1981. Management Procedure For Assessment of Friable Asbestos Insulating Material, TR-833. Civil Engineering Laboratory, Port Hueneme, California.

8. Lyon Engineers, Inc, 1985. "Soils Engineering Report, Bachelor Officers Quarters-Building 270, Naval Air Facility El Centro, CA." Western Division Naval Facilities Engineering Command, San Bruno, California.

9. Morton, Paul K, 1977. "Geology and Mineral Recources of Imperial County California." California Division of Mines and Geology, Sacaramento, CA.

10. Naval Energy and Environmental Support Activity (NEESA), 1986. "Hazardous Waste Annual Report CY85," Naval Air Facility, El Centro, California.

11. RGA Engineering Corporation, 1987. "Subsurface Investigation Repairs to Pavement at Fuel Farm, Naval Air Facility." Tucson, Arizona.

12. United States Department of Agriculture, 1981. "Soil Survey of Imperial County California, Imperial Valley Area." Soil Conservation Service.

13. United States Geological Survey, 1979. "Seeley Quadrangle, California, Imperial County, 7.5 minute Series." United States Geological Survey Denver, Colorado.

(con't)

14. WESTNAVFACENGCOM, 1972, 1981, 1982, 1983. "Navy Environmental Protection Data Base Reconnaissance - Activity Survey." Western Division, Naval Facilities Engineering Command, San Diego, California.

15. WESTNAVFACENGCOM, 1982a. Master Plan, Naval Air Facility El Centro California, Western Division, Naval Facilities Engineering Command, San Bruno, California.

16. WESTNAVFACENGCOM, 1982b. "Soil Investigation at West End of Runway 8L-26R Naval Air Facility, El Centro, CA." Western Division, Naval Facilities Engineering Command, San Bruno, California.

17. WESTNAVFACENGCOM, 1981. "General Development Map." Western Division Naval Facilities Engineering Command, San Bruno, California.

PRELIMINARY ASSESSMENT/SITE INSPECTION FORMS

SITE 8

SCRAPYARD

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-08

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 8 - Scrapyard	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE
324923.	1153950.

10 DIRECTIONS TO SITE (Starting from nearest public road)

From Interstate 8 go north on Bennett Road to the base gate. Continue north on B Street, turn west onto Patrol Road. Drive around the airfield, Site 8 is located near to and parallel to Building 493.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
U. S. Navy	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
El Centro	CA	92243-5001	(619) 339-2201

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Same as owner	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)

☐ A. PRIVATE ☒ B. FEDERAL: U. S. Navy (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL

☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES DATE 01/13/87 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☒ F. OTHER: Naval Energy and Environmental Support Activity (Specify)

CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)

☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION 1958 (BEGINNING YEAR) | 1982 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Possible PCB and waste paint contamination of soil.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Migration of ground water or surface water may lead to nearby unlined drainage ditches and eventually to the New River.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Naval Energy and Environmental Support Activity	U. S. Navy	(805) 982-4502

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06/10/87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-08

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A SOLID
- B POWDER, FINES
- C SLUDGE
- D. OTHER _____ (Specify)
- E SLURRY
- X F LIQUID
- G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
NO OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- A TOXIC
- B CORROSIVE
- C RADIOACTIVE
- X D PERSISTENT
- E SOLUBLE
- F INFECTIOUS
- G FLAMMABLE
- H IGNITABLE
- I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	200	Gallons	Transformer fluid
IOC	INORGANIC CHEMICALS	unknown		Paint
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OCC	PCBs	1336363	Leakage from transformers		
IOC	Paint		Leakage		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, personnel interviews, engineering field division records, aerial photographs, base maps, geologic reports.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE CA	02 SITE NUMBER 106-08

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 [ ] OBSERVED (DATE: ____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

The ground water is shallow, approximately 8 to 12 feet deep.

01 [X] B. SURFACE WATER CONTAMINATION — 02 [ ] OBSERVED (DATE: ____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

Unlined drainage ditches run nearby Site 8.

01 [X] C. CONTAMINATION OF AIR — 02 [ ] OBSERVED (DATE: ____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

The site is flat with no ground cover.

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS — 02 [ ] OBSERVED (DATE: ____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

01 [ ] E. DIRECT CONTACT — 02 [ ] OBSERVED (DATE: ____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

01 [X] F. CONTAMINATION OF SOIL — 02 [ ] OBSERVED (DATE: ____) — [X] POTENTIAL — [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: 3 (Acres) — 04 NARRATIVE DESCRIPTION

Any leaks which may have occured would have gone to the soil.

01 [ ] G. DRINKING WATER CONTAMINATION — 02 [ ] OBSERVED (DATE: ____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

01 [ ] H. WORKER EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE: ____) — [ ] POTENTIAL — [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

01 [ ] I. POPULATION EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE: ____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106-08

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

Any PCBs or metals in the soil would have a low migration potential due to the clayey-silty soil.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See page REF-1 of the Preliminary Assessment/ Site Inspection Report.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 08

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 8 - Scrapyard	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
32 49 23.__	115 39 50.__	☐ A. PRIVATE ☒ B. FEDERAL US NAVY ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
01, 13, 87 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	1958 (BEGINNING YEAR) | 1982 (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☒ G. OTHER Naval Energy & Environmental Support Activity (NEESA) (Name of firm)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jeffrey L. Hendrix	Environmental Engineer	NEESA	(805) 982-3449
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Ronald E. Tickle	Environmental Engineer	NEESA	(805) 982-4502
Stephen E. Eikenberry	Hydrogeologist	NEESA	(805) 982-4067
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Not Applicable			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	1200	Sunny and warm, zero cloud cover, dry

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
Naval Energy and Environmental Support Activity (NEESA)	U.S. Navy	(805) 982-3449

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06, 10, 87 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-08

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	200	gallons	Transformer fluid
IOC	INORGANIC CHEMICALS	unknown		Paint
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OCC	PCBs	1336363	Leakage from transformers		
TOC	Paint		Leakage		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, activity records, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-08

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 [ ] OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

The ground water is shallow, approximately 8 to 12 feet deep.

01 [X] B. SURFACE WATER CONTAMINATION — 02 [ ] OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Unlined drainage ditches run nearby Site 8.

01 [X] C. CONTAMINATION OF AIR — 02 [ ] OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

The site is flat with no ground cover.

01 [ ] D. FIRE EXPLOSIVE CONDITIONS — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] E. DIRECT CONTACT — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [X] F. CONTAMINATION OF SOIL — 02 [ ] OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: 3 (Acres) — 04 NARRATIVE DESCRIPTION

Any leaks which may have occured would have gone to the soil.

01 [ ] G. DRINKING WATER CONTAMINATION — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] H. WORKER EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] I. POPULATION EXPOSURE INJURY — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106- 08

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

Any PCBs or metals in the soil would have a low migration potential due to the clayey-silty soil.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, see References 1 through 17

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 08

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC	N60042			Navy UIC
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☒ I. OTHER Scrapyard (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER _____ (Specify)

05 OTHER

- ☒ A. BUILDINGS ON SITE

06 AREA OF SITE

3 (Acres)

07 COMMENTS

Approximately five transformers may have leaked their contents onto the soil.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

None

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE. ☐ YES ☒ NO

02 COMMENTS

The scrapyard is fenced.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 08

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as appropriate)

	SURFACE	WELL
COMMUNITY	A. ☒	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 1 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☒ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL > 10 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
8-12 (ft)	Generally Northwest	N/A (ft)	_____ (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

No wells are located within Imperial County.

10 RECHARGE AREA
☐ YES ☒ NO
COMMENTS The irrigation areas may recharge the upper Aquifer which is unused.

11 DISCHARGE AREA
☐ YES ☒ NO
COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☒ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☒ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
drainage ditches	☐	20 ft
	☐	_____ (mi)
	☐	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 600 NO OF PERSONS	B. 1600 NO OF PERSONS	C. 1720 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION 40 ft

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE
276 Buildings on NAF El Centro
approximately 300 buildings in Seeley.

04 DISTANCE TO NEAREST OFF-SITE BUILDING _____ (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are approximately 600 permanent civilians, officers, and enlisted men at NAF El Centro. The town is seeley with a population of between 800 to 900 is approximately one mile to the south of the base boundary. The rest of the area within three miles of NAF El Centro is agricultural.

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106-08

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
> 220 (ft)	(ft)	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
-70 (in)	1 (in)	< 1 %	very flat	< 1 %

09 FLOOD POTENTIAL
SITE IS IN > 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)
ESTUARINE: A. (mi)
OTHER: B. (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)
16 (mi)
ENDANGERED SPECIES: Salton Sea Refuge

13 LAND USE IN VICINITY
DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A (mi)	B. 16 (mi)	C. (mi)	D. < .1 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The area is very flat. Site 2, the Patrol Road Landfill is located to the south and west of the scrapyard.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See References 1, 2, 3, 5, 6, 8, 9, 11, 12, 13, 15, and 16

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-08

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF Naval Energy & Environmental Support Activity
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Naval Energy and Environmental Support Activity

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, see References 13 and 17

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 08

II. CURRENT OWNER(S)			PARENT COMPANY (If applicable)		
01 NAME U.S. Navy		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) NAF El Centro		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY El Centro	06 STATE CA	07 ZIP CODE 92243-5001	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)			IV. REALTY OWNER(S) (If applicable, list most recent first)		
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 08

II. CURRENT OPERATOR (Provide if different from owner)			OPERATOR'S PARENT COMPANY (If applicable)		
01 NAME: U.S. Navy	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.): NAF El Centro	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY: El Centro	06 STATE: CA	07 ZIP CODE: 92243-5001	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION: 1958-1982	09 NAME OF OWNER: U.S. Navy				

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)			PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)		
01 NAME	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
01 NAME	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
01 NAME	02 D+B NUMBER		10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 08

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 08

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☒ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY Navy
04 DESCRIPTION
The scrapyard is fenced.

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site inspection.

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-08

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
FINAL STRATEGY DETERMINATION

REGION	SITE NUMBER
IX	106- 08

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force *(EN-335)*; 401 M St., SW, Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Site 8 - Scrapyard	NAF El Centro	
C. CITY	**D. STATE**	**E. ZIP CODE**
El Centro	CA	92243-5001

II. FINAL DETERMINATION

Indicate the recommended action*(s)* and agency*(ies)* that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY: EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED					
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCES AVAILABLE *(If yes, complete Section III.)*					
C. REMEDIAL ACTION *(If yes, complete Section IV.)*					
D. ENFORCEMENT ACTION *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)*					

E. RATIONALE FOR FINAL STRATEGY DETERMINATION

The Preliminary Assessment/Site Inspection has been completed at this site. This site has been recommended for a Remedial Investigation (RI). The RI will verify and characterize the extent of contamination, if any. The need for a Remedial Action will be determined from the results of the RI. RI recommendations are given in Chapter 2 of this report.

F. IF A CASE DEVELOPMENT PLAN HAS BEEN PREPARED, SPECIFY THE DATE PREPARED *(mo., day, & yr.)*	G. IF AN ENFORCEMENT CASE HAS BEEN FILED, SPECIFY THE DATE FILED *(mo., day, & yr.)*

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, & yr.)*

III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE

List all remedial actions, such as excavation, removal, etc. to be taken as soon as resources become available. See instructions for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy.

A. REMEDIAL ACTION	B. ESTIMATED COST	C. REMARKS
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
D. TOTAL ESTIMATED COST	$	

REPRODUCED AT GOVERNMENT EXPENSE

Continued From Front

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY ACTIONS *(On Site and Off-Site)*: List all emergency actions taken or planned to bring the site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE (mo,day,&yr)	3. ACTION END DATE (mo,day,&yr)	4. ACTION AGENCY (EPA, State, Private Party)	5. COST	6. SPECIFY 311 OR OTHER ACTION. INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

B. LONG TERM STRATEGY *(On Site and Off-Site)*: List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE (mo,day,&yr)	3. ACTION END DATE (mo,day,&yr)	4. ACTION AGENCY (EPA, State Private Party)	5. COST	6. SPECIFY 311 OR OTHER ACTION: INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

C. MANHOURS AND COST BY ACTION AGENCY.

1. ACTION AGENCY	2. TOTAL MAN-HOURS FOR REMEDIAL ACTIVITIES	3. TOTAL COST FOR REMEDIAL ACTIVITIES
a. EPA		$
b. STATE		$
c. PRIVATE PARTIES		$
d. OTHER *(specify)*:		$

EPA Form T2070-5 (10-79) REVERSE

REPRODUCED AT GOVERNMENT EXPENSE

REFERENCES FOR PA/SI FORMS

1. California Division of Mines and Geology, 1977. "Geologic Map of California San Diego-El Centro Sheet," California Division of Mines and Geology, Sacramento, California

2. Davis, Stanley N., and DeWiest, Roger J. M, 1966. Hydrogeology. John Wiley and Sons Inc., New York.

3. Department of Water Resources, 1986. "Selenium Sampling in Colorado River Basin Region," California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

4. Fair, Gordon M., et. al., 1966. Water and Wastewater Engineering. John Wileyand Sons, Inc., New York.

5. Freeze, Allan R., and Cherry John A, 1979. Groundwater. Pentice-Hall Inc, Engelwood Cliffs, New Jersey.

6. Gruenberg, P., 1984. Report on Preliminary Study of Fate of Selected Pollutants Discharged from Mexicali, Mexico, to the New River. California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

7. Lory, E. E., et. al., 1981. Management Procedure For Assessment of Friable Asbestos Insulating Material, TR-833. Civil Engineering Laboratory, Port Hueneme, California.

8. Lyon Engineers, Inc, 1985. "Soils Engineering Report, Bachelor Officers Quarters-Building 270, Naval Air Facility El Centro, CA." Western Division Naval Facilities Engineering Command, San Bruno, California.

9. Morton, Paul K, 1977. "Geology and Mineral Recources of Imperial County California." California Division of Mines and Geology, Sacaramento, CA.

10. Naval Energy and Environmental Support Activity (NEESA), 1986. "Hazardous Waste Annual Report CY85," Naval Air Facility, El Centro, California.

11. RGA Engineering Corporation, 1987. "Subsurface Investigation Repairs to Pavement at Fuel Farm, Naval Air Facility." Tucson, Arizona.

12. United States Department of Agriculture, 1981. "Soil Survey of Imperial County California, Imperial Valley Area." Soil Conservation Service.

13. United States Geological Survey, 1979. "Seeley Quadrangle, California, Imperial County, 7.5 minute Series." United States Geological Survey Denver, Colorado.

(con't)

14. WESTNAVFACENGCOM, 1972, 1981, 1982, 1983. "Navy Environmental Protection Data Base Reconnaissance - Activity Survey." Western Division, Naval Facilities Engineering Command, San Diego, California.

15. WESTNAVFACENGCOM, 1982a. Master Plan, Naval Air Facility El Centro California, Western Division, Naval Facilities Engineering Command, San Bruno, California.

16. WESTNAVFACENGCOM, 1982b. "Soil Investigation at West End of Runway 8L-26R Naval Air Facility, El Centro, CA." Western Division, Naval Facilities Engineering Command, San Bruno, California.

17. WESTNAVFACENGCOM, 1981. "General Development Map." Western Division Naval Facilities Engineering Command, San Bruno, California.

PRELIMINARY ASSESSMENT/SITE INSPECTION FORMS

SITE 9

TRANSFORMER STORAGE AREA

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-09

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 9 - Transformer Storage Yard	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE
32 49 23.	115 39 50.

10 DIRECTIONS TO SITE (Starting from nearest public road)
From Interstate 8, go north on Bennett Road to the base gate. Continue north on B Street, then turn west on North Street. Site 9 is west of B Street and north of North Street, approximately 100 feet southeast of Building 157.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
U. S. Navy	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
El Centro	CA	92243-5001	(619) 339-2201

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Same as owner	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☒ B. FEDERAL: U. S. Navy (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 01/13/87 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☒ F. OTHER: Naval Energy and Environmental Support Activity (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1963 (BEGINNING YEAR) | 1983 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Transformer fluid possibly containing PCBs.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Photographs from 1983 show leaking transformers stored at this site. The area is unpaved and is currently used for motor pool activities. In 1983 some of soil was drummed and removed off base. No follow-up sampling was done.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Naval Energy and Environmental Support Activity	U. S. Navy	(805) 982-4502

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06/10/87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-0[illegible]

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A SOLID
- B POWDER, FINES
- C SLUDGE
- D. OTHER _____ (Specify)
- E SLURRY
- X F LIQUID
- G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO OF DRUMS 10

03 WASTE CHARACTERISTICS (Check all that apply)

- X A TOXIC
- B CORROSIVE
- C RADIOACTIVE
- X D PERSISTENT
- E SOLUBLE
- F INFECTIOUS
- G FLAMMABLE
- H IGNITABLE
- I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	500	Gallons	Transformer fluid containing [illegible]
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OCC	Polychlorinated biphenyls	1336363	Spills onto soil		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, site inspection.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106-09

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED _____
02 [ ] OBSERVED (DATE _____) [X] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

The ground water at NAF El Centro is shallow, approximately 8-12 feet deep. The soil is clayey, and it is unlikely that the ground water was affected.

01 [ ] B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED _____
02 [ ] OBSERVED (DATE _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [ ] C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED _____
02 [ ] OBSERVED (DATE _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [X] E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED _____
02 [ ] OBSERVED (DATE _____) [X] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

This area is currently used for motor pool activities.

01 [X] F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED. 5 (Acres)
02 [ ] OBSERVED (DATE _____) [X] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

Transformer leaks were observed in 1983 photographs. Though some soil was removed, no follow-up sampling was conducted.

01 [ ] G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED. _____
02 [ ] OBSERVED (DATE. _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [X] H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE. _____) [X] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

Motor pool personnel work in this area.

01 [ ] I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE. _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106-09

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, site inspection, photographs.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 09

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 9 - Former Transformer Storage Area	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
32 49 23.	115 39 50.	☐ A. PRIVATE ☒ B. FEDERAL US NAVY ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION (MONTH DAY YEAR)	02 SITE STATUS	03 YEARS OF OPERATION (BEGINNING YEAR / ENDING YEAR)
01 13 87	☐ ACTIVE ☒ INACTIVE	1963 / 1983 ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ___ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ___ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR ___ (Name of firm) ☒ G. OTHER Naval Energy & Environmental Support Activity (NEESA)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jeffrey L. Hendrix	Environmental Engineer	NEESA	(805) 982-3449
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Ronald E. Tickle	Environmental Engineer	NEESA	(805) 982-4502
Stephen E. Eikenberry	Hydrogeologist	NEESA	(805) 982-4067
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Not Applicable			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT		Sunny and warm, zero cloud cover, dry

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
Naval Energy and Environmental Support Activity (NEESA)	U.S. Navy	(805) 982-3449

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE (MONTH DAY YEAR)
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06 10 87

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 09

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

- TONS _____
- CUBIC YARDS _____
- NO. OF DRUMS 10

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	500	gallons	Transformer fluid containing PCB
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRA
OCC	Polychlorinated biphenyls	1336363	Spills onto soil		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, activity records, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE: CA | 02 SITE NUMBER: 106-09

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

The ground water at NAF El Centro is shallow, approximately 8-12 feet deep. The soil is clayey, and it is unlikely that the ground water was affected.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☒ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

This area is currently used for motor pool activities.

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: .5 (Acres) 04 NARRATIVE DESCRIPTION

Transformer leaks were observed in 1983 photographs. Though some soil was removed, no follow-up sampling was conducted.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☒ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Motor pool personnel work in this area.

01 ☐ I. POPULATION EXPOSURE INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 09

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, see References 1 through 17

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 09

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC	N60042			Navy UIC
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☒ I. OTHER ~~Spill Area~~ (Specify)	500 gal	

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER _____ (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

0.5 (Acres)

07 COMMENTS

Transformers were stored in this area during its 20 years of operation. Several photographs taken in 1983 show leaking and upturned transformers.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE. ☒ YES ☐ NO

02 COMMENTS

This area is used by motor pool personnel and covered with gravel.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-09

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☒	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 1 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☒ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL > 10 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
8-12 (ft)	Generally Northwest	N/A (ft)	_____ (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

No wells are located within Imperial County.

10 RECHARGE AREA
☐ YES
☒ NO
COMMENTS The irrigation areas may recharge the upper Aquifer which is unused.

11 DISCHARGE AREA
☐ YES
☒ NO
COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☒ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☒ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
None	☐	_____ (mi)
	☐	_____ (mi)
	☐	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 600 NO OF PERSONS	B. 1600 NO OF PERSONS	C. 1720 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION 150 ft

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE
276 Buildings on NAF El Centro
approximately 300 buildings in Seeley.

04 DISTANCE TO NEAREST OFF-SITE BUILDING 150 ft

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are approximately 600 permanent civilians, officers, and enlisted men at NAF El Centro. The town is seeley with a population of between 800 to 900 is approximately one mile to the south of the base boundary. The rest of the area within three miles of NAF El Centro is agricultural.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106- 09

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
> 220 (ft)	(ft)	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
-70 (in)	1 (in)	< 1 %	very flat	< 1 %

09 FLOOD POTENTIAL
SITE IS IN > 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)
ESTUARINE: A. _____ (mi)
OTHER: B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)
16 (mi)
ENDANGERED SPECIES: Salton Sea Refuge

13 LAND USE IN VICINITY
DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A _____ (mi)	B. 16 (mi)	C. _____ (mi)	D. 1 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The site is very flat. The former storage area is covered with gravel.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See References 1, 2, 3, 5, 6, 8, 9, 11, 12, 13, 15, and 16

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 09

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF Naval Energy & Environmental Support Activity
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Naval Energy and Environmental Support Activity

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

Samples of the fluid were collected from the transformers before tehy were removed from the Transformer Storage Yard.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, see References 13 and 17

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 09

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-09

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

08 YEARS OF OPERATION	09 NAME OF OWNER
1963-1983	U.S. Navy

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first, provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 09

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 09

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-09

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
FINAL STRATEGY DETERMINATION

REGION	SITE NUMBER
IX	106- 09

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (*EN-335*); 401 M St., SW, Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Site 9 - Transformer Storage Yard	NAF El Centro	
C. CITY	**D. STATE**	**E. ZIP CODE**
El Centro	CA	92243-5001

II. FINAL DETERMINATION

Indicate the recommended action(*s*) and agency(*ies*) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY: EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED					
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCES AVAILABLE *(If yes, complete Section III.)*					
C. REMEDIAL ACTION *(If yes, complete Section IV.)*					
D. ENFORCEMENT ACTION *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)*					

E. RATIONALE FOR FINAL STRATEGY DETERMINATION

The Preliminary Assessment/Site Inspection has been completed at this site. This site has been recommended for a Remedial Investigation (RI). The RI will verify and characterize the extent of contamination, if any. The need for a Remedial Action will be determined from the results of the RI. RI recommendations are given in Chapter 2 of this report.

F. IF A CASE DEVELOPMENT PLAN HAS BEEN PREPARED, SPECIFY THE DATE PREPARED *(mo., day, & yr.)*	G. IF AN ENFORCEMENT CASE HAS BEEN FILED, SPECIFY THE DATE FILED *(mo., day, & yr.)*

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, & yr.)*

III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE

List all remedial actions, such as excavation, removal, etc. to be taken as soon as resources become available. See instructions for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy.

A. REMEDIAL ACTION	B. ESTIMATED COST	C. REMARKS
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
D. TOTAL ESTIMATED COST	$	

REPRODUCED AT GOVERNMENT EXPENSE

Continued From Front

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY ACTIONS *(On Site and Off-Site)*: List all emergency actions taken or planned to bring the site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo, day, & yr)*	3. ACTION END DATE *(mo, day, & yr)*	4. ACTION AGENCY *(EPA, State, Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION. INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

B. LONG TERM STRATEGY *(On Site and Off-Site)*: List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo, day, & yr)*	3. ACTION END DATE *(mo, day, & yr)*	4. ACTION AGENCY *(EPA, State Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION: INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

C. MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL MAN-HOURS FOR REMEDIAL ACTIVITIES	3. TOTAL COST FOR REMEDIAL ACTIVITIES
a. EPA		$
b. STATE		$
c. PRIVATE PARTIES		$
d. OTHER *(specify)*:		$

EPA Form T2070-5 (10-79) REVERSE

REPRODUCED AT GOVERNMENT EXPENSE

REFERENCES FOR PA/SI FORMS

1. California Division of Mines and Geology, 1977. "Geologic Map of California San Diego-El Centro Sheet," California Division of Mines and Geology, Sacramento, California

2. Davis, Stanley N., and DeWiest, Roger J. M, 1966. Hydrogeology. John Wiley and Sons Inc., New York.

3. Department of Water Resources, 1986. "Selenium Sampling in Colorado River Basin Region," California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

4. Fair, Gordon M., et. al., 1966. Water and Wastewater Engineering. John Wileyand Sons, Inc., New York.

5. Freeze, Allan R., and Cherry John A, 1979. Groundwater. Pentice-Hall Inc, Engelwood Cliffs, New Jersey.

6. Gruenberg, P., 1984. Report on Preliminary Study of Fate of Selected Pollutants Discharged from Mexicali, Mexico, to the New River. California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

7. Lory, E. E., et. al., 1981. Management Procedure For Assessment of Friable Asbestos Insulating Material, TR-833. Civil Engineering Laboratory, Port Hueneme, California.

8. Lyon Engineers, Inc, 1985. "Soils Engineering Report, Bachelor Officers Quarters-Building 270, Naval Air Facility El Centro, CA." Western Division Naval Facilities Engineering Command, San Bruno, California.

9. Morton, Paul K, 1977. "Geology and Mineral Recources of Imperial County California." California Division of Mines and Geology, Sacaramento, CA.

10. Naval Energy and Environmental Support Activity (NEESA), 1986. "Hazardous Waste Annual Report CY85," Naval Air Facility, El Centro, California.

11. RGA Engineering Corporation, 1987. "Subsurface Investigation Repairs to Pavement at Fuel Farm, Naval Air Facility." Tucson, Arizona.

12. United States Department of Agriculture, 1981. "Soil Survey of Imperial County California, Imperial Valley Area." Soil Conservation Service.

13. United States Geological Survey, 1979. "Seeley Quadrangle, California, Imperial County, 7.5 minute Series." United States Geological Survey Denver, Colorado.

(con't)

14. WESTNAVFACENGCOM, 1972, 1981, 1982, 1983. "Navy Environmental Protection Data Base Reconnaissance - Activity Survey." Western Division, Naval Facilities Engineering Command, San Diego, California.

15. WESTNAVFACENGCOM, 1982a. Master Plan, Naval Air Facility El Centro California, Western Division, Naval Facilities Engineering Command, San Bruno, California.

16. WESTNAVFACENGCOM, 1982b. "Soil Investigation at West End of Runway 8L-26R Naval Air Facility, El Centro, CA." Western Division, Naval Facilities Engineering Command, San Bruno, California.

17. WESTNAVFACENGCOM, 1981. "General Development Map." Western Division Naval Facilities Engineering Command, San Bruno, California.

PRELIMINARY ASSESSMENT/SITE INSPECTION FORMS

SITE 10

SEWAGE STABILIZATION PONDS

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-10

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
site 10 - Sewage Stabilization Ponds	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE
32 49 23.	115 39 50.

10 DIRECTIONS TO SITE (Starting from nearest public road) From Interstate 8 go north on Bennett Road to base gate. Continue north on "B" Street, turn west on Patrol Road. Continue on Patrol Road around the runway to the northwest corner of the base. Site 10 is located at the sewage treatment plant.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
U. S. Navy	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
El Centro	CA	92243-5001	(619) 339-2201

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Same as owner	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☒ B. FEDERAL: U. S. Navy (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 01/13/87 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☒ F. OTHER: Naval Energy and Environmental Support Activity (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1942 (BEGINNING YEAR) 1976 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Arsenic, cadmium, lead, chromium, nickel, silver and zinc from metal plating and photography shop. Fuels such as JP-5.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Metal contamination in the remaining bottom sludges of the stabilization ponds.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Naval Energy and Environmental Support Activity	U. S. Navy	(805) 982-4502

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06/10/87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-10

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A SOLID
- B POWDER, FINES
- X C SLUDGE
- D. OTHER _____ (Specify)
- E SLURRY
- F LIQUID
- G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS unknown
NO OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- X A TOXIC
- B CORROSIVE
- C RADIOACTIVE
- X D PERSISTENT
- E SOLUBLE
- F INFECTIOUS
- G FLAMMABLE
- H IGNITABLE
- I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	unknown		Sewage sludge
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	unknown		JP-5 fuel
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	unknown		contained in sludges

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SLU	Sludges with metals		Treatment of waste water		
MES	Arsenic		Contained in Sludge	7440382	
MES	Cadmium		Contained in Sludge	7440439	
MES	Lead		Contained in Sludge	7439921	
MES	Chromium		Contained in Sludge	7439921	
MES	Nickel		Contained in Sludge	7440020	
MES	Silver		Contained in Sludge	7440-22-4	
MES	Zinc		Contained in Sludge	7440666	
OCC	Xylene		JP-5 spill	11330207	

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, interviews.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106-10

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION
02 [ ] OBSERVED (DATE _____) [X] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____
04 NARRATIVE DESCRIPTION

The ground water at NAF El Centro is shallow, approximately 8 to 12 feet deep.

01 [X] B. SURFACE WATER CONTAMINATION
02 [ ] OBSERVED (DATE _____) [X] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____
04 NARRATIVE DESCRIPTION

Unlikely since the ponds are large enough to contain most runoff which may reach the ponds. Any effluent which may come from the ponds would flow toward the New River.

01 [ ] C. CONTAMINATION OF AIR
02 [ ] OBSERVED (DATE _____) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____
04 NARRATIVE DESCRIPTION

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS
02 [ ] OBSERVED (DATE _____) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 [ ] E. DIRECT CONTACT
02 [ ] OBSERVED (DATE _____) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 [X] F. CONTAMINATION OF SOIL
02 [ ] OBSERVED (DATE _____) [X] POTENTIAL [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: 4 (Acres)
04 NARRATIVE DESCRIPTION

The soil which was used to construct the ponds may be contaminated with metals.

01 [ ] G. DRINKING WATER CONTAMINATION
02 [ ] OBSERVED (DATE _____) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 [ ] H. WORKER EXPOSURE/INJURY
02 [ ] OBSERVED (DATE _____) [ ] POTENTIAL [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 [ ] I. POPULATION EXPOSURE/INJURY
02 [ ] OBSERVED (DATE _____) [ ] POTENTIAL [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-10

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids, leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

When the ponds were used as the main source of sewage treatment, metals and fuels may have entered the ponds.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

The photographic shop, aircraft hangars and aprons, and the plating shops discharged waste water to the sewage system.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Same as Part II, Section VI

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-10

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 10- Sewage Stabilization Ponds	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
32 49 23.	115 39 50.	☐ A. PRIVATE ☐ B. FEDERAL ____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
01 13 87 (MONTH DAY YEAR)	☐ ACTIVE ☐ INACTIVE	1942 (BEGINNING YEAR) 1976 (ENDING YEAR) ____ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR ____ (Name of firm) ☒ G. OTHER Naval Energy & Environmental Support Activity (NEESA)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jeffrey L. Hendrix	Environmental Engineer	NEESA	(805) 982-3449

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Ronald E. Tickle	Environmental Engineer	NEESA	(805) 982-4502
Stephen E. Eikenberry	Hydrogeologist	NEESA	(805) 982-4067
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Not Applicable			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	1600	Sunny and warm, zero cloud cover, dry

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
Naval Energy and Environmental Support Activity (NEESA)	U.S. Navy	(805) 982-3449

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06 10 87 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 10

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☒ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☐ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS unknown
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	unknown		Sewage sludge
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	unknown		JP-5 fuel
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	unknown		contained in sludges

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SLU	Sludges with metals		Treatment of waste water		
MES	Arsenic		Contained in Sludge	7440382	
MES	Cadmium		Contained in Sludge	7440439	
MES	Lead		Contained in Sludge	7439921	
MES	Chromium		Contained in Sludge	7439921	
MES	Nickel		Contained in Sludge	7440020	
MES	Silver		Contained in Sludge	7440-22-4	
MES	Zinc		Contained in Sludge	7440666	
OCC	Xylene		JP-5 spill	11330207	

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, activity records, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 10

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

The ground water at NAF El Centro is shallow, approximately 8 to 12 feet deep.

01 ☒ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Unlikely since the ponds are large enough to contain most runoff which may reach the ponds. Any effluent which may come from the ponds would flow toward the New River.

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) — 04 NARRATIVE DESCRIPTION

The soil which was used to construct the ponds may be contaminated with metals.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106- 10

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

When the ponds were used as the main source of sewage treatment, metals and fuels may have entered the ponds.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

The photographic shop, aircraft hangars and aprons, and the plating shops discharged waste water to the sewage system.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, see References 1 through 17

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 10

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☒ A. NPDES	CA 0104906			Issuing Agnecy - Ca.
☒ B. UIC	N60042			Navy UIC
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☒ A. SURFACE IMPOUNDMENT	1 million	gallons
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER ___ (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER ___ (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

4 (Acres)

07 COMMENTS

Prior to 1976, three ponds were utilized as sewage stabilization ponds. Since 1976, these ponds have served only as the emergency back-up for the current sewage facilities. The sludges have never been removed from the ponds. Ponds are dry.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

The ponds are unlined.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE. ☐ YES ☒ NO

02 COMMENTS

The sewage facilities are fenced.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-10

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☒	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 2 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☒ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL > 10 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
8-12 (ft)	Generally Northwest	N/A (ft)	_____ (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

No wells are located within Imperial County.

10 RECHARGE AREA
☐ YES
☒ NO
COMMENTS The irrigation areas may recharge the upper Aquifer which is unused.

11 DISCHARGE AREA
☐ YES
☒ NO
COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☒ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☒ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
None	☐	_____ (mi)
	☐	_____ (mi)
	☐	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 600 NO OF PERSONS	B. 1600 NO OF PERSONS	C. 1720 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION 1 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE
276 Buildings on NAF El Centro
approximately 300 buildings in Seeley.

04 DISTANCE TO NEAREST OFF-SITE BUILDING 1 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are approximately 600 permanent civilians, officers, and enlisted men at NAF El Centro. The town is seeley with a population of between 800 to 900 is approximately one mile to the south of the base boundary. The rest of the area within three miles of NAF El Centro is agricultural.

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 10

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
> 220 (ft)	(ft)	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
-70 (in)	1 (in)	0 %	flat	1 %

09 FLOOD POTENTIAL

SITE IS IN > 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. (mi)

OTHER: B. (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

16 (mi)

ENDANGERED SPECIES: Salton Sea Refuge

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. (mi)	B. 16 (mi)	C. (mi)	D. (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The ponds are made unlined and have earthen berms. The area is flat. The ponds are dry.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See References 1, 2, 3, 5, 6, 8, 9, 11, 12, 13, 15, and 16

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 10

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF Naval Energy & Environmental Support Activi
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Naval Energy and Environmental Support Activity

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references e.g., state files, sample analysis, reports)

Activity records, see References 13 and 17

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 10

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 10

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

08 YEARS OF OPERATION	09 NAME OF OWNER
1942-1976	U.S. Navy

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 10

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER	
U.S. Navy		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
NAF El Centro		
05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	05 CITY / 06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	05 CITY / 06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	05 CITY / 06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	05 CITY / 06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 10

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-10

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
FINAL STRATEGY DETERMINATION

REGION	SITE NUMBER
IX	106- 10

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force *(EN-335)*; 401 M St., SW, Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Site 10 - Sewage Stabilization Ponds	NAF El Centro	
C. CITY	**D. STATE**	**E. ZIP CODE**
El Centro	CA	92243-5001

II. FINAL DETERMINATION

Indicate the recommended action*(s)* and agency*(ies)* that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY: EPA	STATE	LOCAL	PRIV
A. NO ACTION NEEDED					
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCES AVAILABLE *(If yes, complete Section III.)*					
C. REMEDIAL ACTION *(If yes, complete Section IV.)*					
D. ENFORCEMENT ACTION *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)*					

E. RATIONALE FOR FINAL STRATEGY DETERMINATION

The Preliminary Assessment/Site Inspection has been completed at this site. This site has been recommended for a Remedial Investigation (RI). The RI will verify and characterize the extent of contamination, if any. The need for a Remedial Action wi be determined from the results of the RI. RI recommendations are given in Chapter 2 of this report.

F. IF A CASE DEVELOPMENT PLAN HAS BEEN PREPARED, SPECIFY THE DATE PREPARED *(mo., day, & yr.)*	G. IF AN ENFORCEMENT CASE HAS BEEN FILED, SPECIFY T DATE FILED *(mo., day, & yr.)*

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, &*

III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE

List all remedial actions, such as excavation, removal, etc. to be taken as soon as resources become available. See instructio for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy.

A. REMEDIAL ACTION	B. ESTIMATED COST	C. REMARKS
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
D. TOTAL ESTIMATED COST	$	

REPRODUCED AT GOVERNMENT EXPENSE

Continued From Front

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY ACTIONS *(On Site and Off-Site)*: List all emergency actions taken or planned to bring the site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE (mo,day,&yr)	3. ACTION END DATE (mo,day,&yr)	4. ACTION AGENCY (EPA, State, Private Party)	5. COST	6. SPECIFY 311 OR OTHER ACTION. INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

B. LONG TERM STRATEGY *(On Site and Off-Site)*: List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE (mo,day,&yr)	3. ACTION END DATE (mo,day,&yr)	4. ACTION AGENCY (EPA, State Private Party)	5. COST	6. SPECIFY 311 OR OTHER ACTION: INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

C. MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL MAN-HOURS FOR REMEDIAL ACTIVITIES	3. TOTAL COST FOR REMEDIAL ACTIVITIES
a. EPA		$
b. STATE		$
c. PRIVATE PARTIES		$
d. OTHER *(specify)*:		$

EPA Form T2070-5 (10-79) REVERSE

REPRODUCED AT GOVERNMENT EXPENSE

REFERENCES FOR PA/SI FORMS

1. California Division of Mines and Geology, 1977. "Geologic Map of California San Diego-El Centro Sheet," California Division of Mines and Geology, Sacramento, California

2. Davis, Stanley N., and DeWiest, Roger J. M, 1966. Hydrogeology. John Wiley and Sons Inc., New York.

3. Department of Water Resources, 1986. "Selenium Sampling in Colorado River Basin Region," California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

4. Fair, Gordon M., et. al., 1966. Water and Wastewater Engineering. John Wileyand Sons, Inc., New York.

5. Freeze, Allan R., and Cherry John A, 1979. Groundwater. Pentice-Hall Inc, Engelwood Cliffs, New Jersey.

6. Gruenberg, P., 1984. Report on Preliminary Study of Fate of Selected Pollutants Discharged from Mexicali, Mexico, to the New River. California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

7. Lory, E. E., et. al., 1981. Management Procedure For Assessment of Friable Asbestos Insulating Material, TR-833. Civil Engineering Laboratory, Port Hueneme, California.

8. Lyon Engineers, Inc, 1985. "Soils Engineering Report, Bachelor Officers Quarters-Building 270, Naval Air Facility El Centro, CA." Western Division Naval Facilities Engineering Command, San Bruno, California.

9. Morton, Paul K, 1977. "Geology and Mineral Recources of Imperial County California." California Division of Mines and Geology, Sacaramento, CA.

10. Naval Energy and Environmental Support Activity (NEESA), 1986. "Hazardous Waste Annual Report CY85," Naval Air Facility, El Centro, California.

11. RGA Engineering Corporation, 1987. "Subsurface Investigation Repairs to Pavement at Fuel Farm, Naval Air Facility." Tucson, Arizona.

12. United States Department of Agriculture, 1981. "Soil Survey of Imperial County California, Imperial Valley Area." Soil Conservation Service.

13. United States Geological Survey, 1979. "Seeley Quadrangle, California, Imperial County, 7.5 minute Series." United States Geological Survey Denver, Colorado.

(con't)

14. WESTNAVFACENGCOM, 1972, 1981, 1982, 1983. "Navy Environmental Protection Data Base Reconnaissance - Activity Survey." Western Division, Naval Facilities Engineering Command, San Diego, California.

15. WESTNAVFACENGCOM, 1982a. Master Plan, Naval Air Facility El Centro California, Western Division, Naval Facilities Engineering Command, San Bruno, California.

16. WESTNAVFACENGCOM, 1982b. "Soil Investigation at West End of Runway 8L-26R Naval Air Facility, El Centro, CA." Western Division, Naval Facilities Engineering Command, San Bruno, California.

17. WESTNAVFACENGCOM, 1981. "General Development Map." Western Division Naval Facilities Engineering Command, San Bruno, California.

PRELIMINARY ASSESSMENT/SITE INSPECTION FORMS

SITE 11

RUNWAY BURN AREA

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-11

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 11 - Runway Burn Area	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE
324923.	1153950.

10 DIRECTIONS TO SITE (Starting from nearest public road) From Interstate 8 go north on Bennett Road to base gate. Continue north on "A" Street then turn east on 8th Street. About one half mile on 8th Street is Building 514. Site 11 is about 2000 feet north of 8th Street at this point

III. RESPONSIBLE PARTIES

01 OWNER (if known)	02 STREET (Business, mailing, residential)
U. S. Navy	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
El Centro	CA	92243-5001	(619) 339-2201

07 OPERATOR (if known and different from owner)	08 STREET (Business, mailing, residential)
Same as owner	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)

☐ A. PRIVATE ☒ B. FEDERAL: U. S. Navy (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL

☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: / / (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: / / (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES DATE 01/13/87 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☒ F. OTHER: Naval Energy and Environmental Support Activity (Specify)

CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)

☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION

1979 (BEGINNING YEAR) 1980 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Aviation gasoline (AVGAS)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Possible lead contamination of the soil.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Naval Energy and Environmental Support Activity	U. S. Navy	(805) 982-4502

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06/10/87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-11

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A SOLID
- B POWDER, FINES
- C SLUDGE
- D. OTHER _____ (Specify)
- E SLURRY
- X F LIQUID
- G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO OF DRUMS unknown

03 WASTE CHARACTERISTICS (Check all that apply)

- X A TOXIC
- B CORROSIVE
- C RADIOACTIVE
- X D PERSISTENT
- E SOLUBLE
- F INFECTIOUS
- G FLAMMABLE
- H IGNITABLE
- I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	unknown		Lead from gasoline may be pre

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	Lead	7439921	AVGAS was burned for fire fighting training		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, aerial photographs.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-11

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 [ ] OBSERVED (DATE _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

Unlikely. The soil is clayey. It has been 40 years since the site was last used. The site was only used for 1 year.

01 [ ] B. SURFACE WATER CONTAMINATION — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 [ ] C. CONTAMINATION OF AIR — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 [ ] E. DIRECT CONTACT — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 [X] F. CONTAMINATION OF SOIL — 02 [ ] OBSERVED (DATE _____) — [X] POTENTIAL — [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED 0.7 (Acres) — 04 NARRATIVE DESCRIPTION

Lead present in AVGAS may be in the soil.

01 [ ] G. DRINKING WATER CONTAMINATION — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 [ ] H. WORKER EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] I. POPULATION EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-11

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

The site was used for one year. A wrecked airplane would be set ablaze with AVGAS and the fire fighter trainees would extinguish the flame. Most of the fuel would be burned, however, any residual would have reached the soil.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, aerial photographs.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 11

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 11 - Runway Burn Area	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
32 49 23.__	115 39 50.__	☐ A. PRIVATE ☒ B. FEDERAL US NAVY ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION (MONTH DAY YEAR)	02 SITE STATUS	03 YEARS OF OPERATION (BEGINNING YEAR / ENDING YEAR)
01/13/87	☐ ACTIVE ☒ INACTIVE	1979 / 1980 ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☒ G. OTHER Naval Energy & Environmental Support Activity (NEESA) (Name of firm)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jeffrey L. Hendrix	Environmental Engineer	NEESA	(805) 982-3449
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Ronald E. Tickle	Environmental Engineer	NEESA	(805) 982-4502
Stephen E. Eikenberry	Hydrogeologist	NEESA	(805) 982-4067
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Not Applicable			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	1800	Sunny and warm, zero cloud cover, dry

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
Naval Energy and Environmental Support Activity (NEESA)	U.S. Navy	(805) 982-3449

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE (MONTH DAY YEAR)
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06 10 87

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-11

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
NO. OF DRUMS unknown

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	unknown		Lead from gasline maybe present

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTR.
MES	Lead	7439921	AVGAS was burned for fire fighting training		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, activity records, see References 10 and 14

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-11

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Unlikely. The soil is clayey. It has been 40 years since the site was last used. The site was only used for 1 year.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 0.7 (Acres) — 04 NARRATIVE DESCRIPTION

Lead present in AVGAS may be in the soil

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-11

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

The site was used for one year. A wrecked airplane would be set ablaze with AVGAS and the fire fighter trainees would extinguish the flame. Most of the fuel would be burned, however, any residual would have reached the soil.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, see References 1 through 17

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-11

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC	N60042			Navy UIC
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☒ I. OTHER Burn Area (Specify)	Unknown	

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER _____ (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

0.7 (Acres)

07 COMMENTS

A wrecked airplane would be set ablaze with AVGAS, then extinguished as a fire fighting training exercise.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

None

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE. ☐ YES ☒ NO

02 COMMENTS

Since the site was used for only one year in 1946, the only contaminant potentially present would be lead. The lead would be in the soil.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 11

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☒	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

	ENDANGERED	AFFECTED	MONITORED
COMMUNITY	A. ☐	B. ☐	C. ☐
NON-COMMUNITY	D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. _____ (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING
☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available)
☒ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL > 10 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
8-12 (ft)	Generally Northwest	N/A (ft)	_____ (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

No wells are located within Imperial County.

10 RECHARGE AREA
☐ YES
☒ NO
COMMENTS The irrigation areas may recharge the upper Aquifer which is unused.

11 DISCHARGE AREA
☐ YES
☒ NO
COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE
☒ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES
☒ C. COMMERCIAL, INDUSTRIAL
☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
None	☐	_____ (mi)
	☐	_____ (mi)
	☐	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 600 NO OF PERSONS	B. 1600 NO OF PERSONS	C. 1720 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION 1.5 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE
276 Buildings on NAF El Centro
approximately 300 buildings in Seeley.

04 DISTANCE TO NEAREST OFF-SITE BUILDING 0.5 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are approximately 600 permanent civilians, officers, and enlisted men at NAF El Centro. The town is seeley with a population of between 800 to 900 is approximately one mile to the south of the base boundary. The rest of the area within three miles of NAF El Centro is agricultural.

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 11

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
> 220 (ft)	(ft)	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
-70 (in)	1 (in)	<1 %	flat	<1 %

09 FLOOD POTENTIAL

SITE IS IN > 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)

OTHER: B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

16 (mi)

ENDANGERED SPECIES: Salton Sea Refuge

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A _____ (mi)	B. 16 (mi)	C. _____ (mi)	D. 1 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The site is within the runway area and is flat.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See References 1, 2, 3, 5, 6, 8, 9, 11, 12, 13, 15, and 16

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-11

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF Naval Energy & Environmental Support Activity
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Naval Energy and Environmental Support Activity

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, see References 13 and 17

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-11

II. CURRENT OWNER(S)			PARENT COMPANY (If applicable)		
01 NAME U.S. Navy		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) NAF El Centro		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY El Centro	06 STATE CA	07 ZIP CODE 92243-5001	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)			IV. REALTY OWNER(S) (If applicable, list most recent first)		
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-11

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

08 YEARS OF OPERATION	09 NAME OF OWNER
1946-1947	U.S. Navy

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-11

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 1-5

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-11

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-11

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
FINAL STRATEGY DETERMINATION

REGION	SITE NUMBER
IX	106- 11

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (*EN-335*); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Site 11 - Runway Burn Area	NAF El Centro	
C. CITY	**D. STATE**	**E. ZIP CODE**
El Centro	CA	92243-5001

II. FINAL DETERMINATION

Indicate the recommended action(*s*) and agency(*ies*) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY: EPA	STATE	LOCAL	PRIV
A. NO ACTION NEEDED					
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCES AVAILABLE *(If yes, complete Section III.)*					
C. REMEDIAL ACTION *(If yes, complete Section IV.)*					
D. ENFORCEMENT ACTION *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)*					

E. RATIONALE FOR FINAL STRATEGY DETERMINATION

The Preliminary Assessment/Site Inspection has been completed at this site. This site has been recommended for a Remedial Investigation (RI). The RI will verify and characterize the extent of contamination, if any. The need for a Remedial Action wi be determined from the results of the RI. RI recommendations are given in Chapter 2 of this report.

F. IF A CASE DEVELOPMENT PLAN HAS BEEN PREPARED, SPECIFY THE DATE PREPARED *(mo., day, & yr.)*	G. IF AN ENFORCEMENT CASE HAS BEEN FILED, SPECIFY TH DATE FILED *(mo., day, & yr.)*

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, & y*

III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE

List all remedial actions, such as excavation, removal, etc. to be taken as soon as resources become available. See instructions for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy.

A. REMEDIAL ACTION	B. ESTIMATED COST	C. REMARKS
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
D. TOTAL ESTIMATED COST	$	

REPRODUCED AT GOVERNMENT EXPENSE

Continued From Front

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY ACTIONS *(On Site and Off-Site)*: List all emergency actions taken or planned to bring the site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo,day,&yr)*	3. ACTION END DATE *(mo,day,&yr)*	4. ACTION AGENCY *(EPA, State, Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION. INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

B. LONG TERM STRATEGY *(On Site and Off-Site)*: List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo,day,&yr)*	3. ACTION END DATE *(mo,day,&yr)*	4. ACTION AGENCY *(EPA, State Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION: INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

C. MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL MAN-HOURS FOR REMEDIAL ACTIVITIES	3. TOTAL COST FOR REMEDIAL ACTIVITIES
a. EPA		$
b. STATE		$
c. PRIVATE PARTIES		$
d. OTHER *(specify)*:		$

EPA Form T2070-5 (10-79) REVERSE

REPRODUCED AT GOVERNMENT EXPENSE

REFERENCES FOR PA/SI FORMS

1. California Division of Mines and Geology, 1977. "Geologic Map of California San Diego-El Centro Sheet," California Division of Mines and Geology, Sacramento, California

2. Davis, Stanley N., and DeWiest, Roger J. M, 1966. Hydrogeology. John Wiley and Sons Inc., New York.

3. Department of Water Resources, 1986. "Selenium Sampling in Colorado River Basin Region," California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

4. Fair, Gordon M., et. al., 1966. Water and Wastewater Engineering. John Wileyand Sons, Inc., New York.

5. Freeze, Allan R., and Cherry John A, 1979. Groundwater. Pentice-Hall Inc, Engelwood Cliffs, New Jersey.

6. Gruenberg, P., 1984. Report on Preliminary Study of Fate of Selected Pollutants Discharged from Mexicali, Mexico, to the New River. California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

7. Lory, E. E., et. al., 1981. Management Procedure For Assessment of Friable Asbestos Insulating Material, TR-833. Civil Engineering Laboratory, Port Hueneme, California.

8. Lyon Engineers, Inc, 1985. "Soils Engineering Report, Bachelor Officers Quarters-Building 270, Naval Air Facility El Centro, CA." Western Division Naval Facilities Engineering Command, San Bruno, California.

9. Morton, Paul K, 1977. "Geology and Mineral Recources of Imperial County California." California Division of Mines and Geology, Sacaramento, CA.

10. Naval Energy and Environmental Support Activity (NEESA), 1986. "Hazardous Waste Annual Report CY85," Naval Air Facility, El Centro, California.

11. RGA Engineering Corporation, 1987. "Subsurface Investigation Repairs to Pavement at Fuel Farm, Naval Air Facility." Tucson, Arizona.

12. United States Department of Agriculture, 1981. "Soil Survey of Imperial County California, Imperial Valley Area." Soil Conservation Service.

13. United States Geological Survey, 1979. "Seeley Quadrangle, California, Imperial County, 7.5 minute Series." United States Geological Survey Denver, Colorado.

(con't)

14. WESTNAVFACENGCOM, 1972, 1981, 1982, 1983. "Navy Environmental Protection Data Base Reconnaissance - Activity Survey." Western Division, Naval Facilities Engineering Command, San Diego, California.

15. WESTNAVFACENGCOM, 1982a. Master Plan, Naval Air Facility El Centro California, Western Division, Naval Facilities Engineering Command, San Bruno, California.

16. WESTNAVFACENGCOM, 1982b. "Soil Investigation at West End of Runway 8L-26R Naval Air Facility, El Centro, CA." Western Division, Naval Facilities Engineering Command, San Bruno, California.

17. WESTNAVFACENGCOM, 1981. "General Development Map." Western Division Naval Facilities Engineering Command, San Bruno, California.

PRELIMINARY ASSESSMENT/SITE INSPECTION FORMS

SITE 12

OPEN BURN PIT

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-12

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 12 - Open Burn Area	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE
32 49 23.	115 39 50.

10 DIRECTIONS TO SITE (Starting from nearest public road) From Interstate 8 go north on Bennett Road to the base gate. Continue north on A Street, then turn east on 8th Street turn north on E Street, then east on Patrol Road. Go north on Patrol Road past the end of the runways. Site 12 is located north of Patrol Road at the point where the road head east (is south of Irrigated Field "E")

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
U. S. Navy	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
El Centro	CA	92243-5001	(619) 339-2201

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Same as owner	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☒ B. FEDERAL: U. S. Navy (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 01/14/87 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☒ F. OTHER: Naval Energy and Environmental Support Activity (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1981 (BEGINNING YEAR) 1986 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Non hazardous materials ignited using JP-5. Fifty gallons of JP-5 were used per burn.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

None

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Naval Energy and Environmental Support Activity	U. S. Navy	(805) 982-4502

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06/10/87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-12

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A SOLID
- B POWDER, FINES
- C SLUDGE
- D. OTHER _____ (Specify)
- E SLURRY
- X F LIQUID
- G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
NO OF DRUMS 50

03 WASTE CHARACTERISTICS (Check all that apply)

- A TOXIC
- B CORROSIVE
- C RADIOACTIVE
- D PERSISTENT
- E SOLUBLE
- F INFECTIOUS
- X G FLAMMABLE
- X H IGNITABLE
- X I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	3,000	Gallons	50 gallons were used per bur
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	JP-5		used to ignite waste.		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, personnel intervies.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106-12

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) X POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

The ground water is generally shallow, 8 to 12 feet, at NAF El Centro. The small quantity of fuel used at each burn probably did not reach even the shallow ground water..

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 X F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: small (Acres)
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

A 20 foot X 20 foot pit. Small quantities of fuel were used to ignite confiscated material.

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-12

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids, leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

The JP-5 was used to burn non-hazardous material. The JP-5 which did not burn would have volatilize. This site poses no environmental threat.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Same as Part II, Section VI.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-12

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 12 - Open Burn Area	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES
LATITUDE 32 49 23.
LONGITUDE 115 39 50.

10 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☒ B. FEDERAL US NAVY ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 01/14/87 (MONTH DAY YEAR)

02 SITE STATUS: ☐ ACTIVE ☒ INACTIVE

03 YEARS OF OPERATION: 1981 (BEGINNING YEAR) | 1986 (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☒ G. OTHER Naval Energy & Environmental Support Activity (NEESA) (Name of firm)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jeffrey L. Hendrix	Environmental Engineer	NEESA	(805) 982-3449

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Ronald E. Tickle	Environmental Engineer	NEESA	(805) 982-4502
Stephen E. Eikenberry	Hydrogeologist	NEESA	(805) 982-4067
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Not Applicable			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	0800	Sunny and warm, zero cloud cover, dry

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
Naval Energy and Environmental Support Activity (NEESA)	U.S. Navy	(805) 982-3449

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06 10 87 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-12

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
NO. OF DRUMS 50

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☒ G. FLAMMABLE
- ☒ H. IGNITABLE
- ☒ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	3,000	gallons	50 gallons were used for burn
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTR
OLW	JP-5		used to ignite waste.		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, activity records, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-12

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

The ground water is generally shallow, 8 to 12 feet, at NAF El Centro. The small quantity of fuel used at each burn probably did not reach even the shallow ground water.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: small (Acres) — 04 NARRATIVE DESCRIPTION

A 20 foot X 20 foot pit. Small quantities of fuel were used to ignite confiscated material.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-12

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

The JP-5 was used to burn non-hazardous material. The JP-5 which did not burn would have volatilize. This site poses no environmental threat.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, see References 1 through 17

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-12

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC	N60042			Navy UIC
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☒ I. OTHER ~~Burn pit~~ (Specify)	3,000 gal	

04 TREATMENT (Check all that apply)

- ☒ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER _____ (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

< .1 (Acres)

07 COMMENTS

A 20 foot by 20 foot by 10 foot deep pit was used about once per month to burn confiscated drugs and associated paraphernalia.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

None

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS

The burn pit has been covered with soil.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-12

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☒	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 2.5 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☒ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL > 10 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
8-12 (ft)	Generally Northwest	N/A (ft)	_____ (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

No wells are located within Imperial County.

10 RECHARGE AREA
☐ YES
☒ NO
COMMENTS The irrigation areas may recharge the upper Aquifer which is unused.

11 DISCHARGE AREA
☐ YES
☒ NO
COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☒ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☒ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
drainage ditches	☐	<.1 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 600 NO OF PERSONS	B. 1600 NO OF PERSONS	C. 1720 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION .5 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE
276 Buildings on NAF El Centro
approximately 300 buildings in Seeley.

04 DISTANCE TO NEAREST OFF-SITE BUILDING .5 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are approximately 600 permanent civilians, officers, and enlisted men at NAF El Centro. The town is seeley with a population of between 800 to 900 is approximately one mile to the south of the base boundary. The rest of the area within three miles of NAF El Centro is agricultural.

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-12

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
> 220 (ft)	(ft)	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
-70 (in)	1 (in)	< .1 %	flat	< .1 %

09 FLOOD POTENTIAL

SITE IS IN > 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)

OTHER: B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

16 (mi)

ENDANGERED SPECIES: Salton Sea Refuge

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A _____ (mi)	B. 16 (mi)	C. _____ (mi)	D. < .1 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Crops are grown near this site. The area is flat.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See References 1, 2, 3, 5, 6, 8, 9, 11, 12, 13, 15, and 16

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 12

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF Naval Energy & Environmental Support Activity
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Naval Energy and Environmental Support Activity

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, see References 13 and 17

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 12

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

08 NAME	09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-12

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

08 YEARS OF OPERATION	09 NAME OF OWNER
1981-1986	U.S. Navy

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first, provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 12

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 12

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE 1986 — 03 AGENCY Navy
04 DESCRIPTION
The pit was covered with soil.

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, actiivity visit.

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-12

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
FINAL STRATEGY DETERMINATION

REGION	SITE NUMBER
IX	106-12

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force *(EN-335)*; 401 M St., SW, Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Site 12 - Open Burn Area	NAF El Centro	
C. CITY	**D. STATE**	**E. ZIP CODE**
El Centro	CA	92243-5001

II. FINAL DETERMINATION

Indicate the recommended action*(s)* and agency*(ies)* that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY			
		EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED					
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCES AVAILABLE *(If yes, complete Section III.)*					
C. REMEDIAL ACTION *(If yes, complete Section IV.)*					
D. ENFORCEMENT ACTION *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)*					

E. RATIONALE FOR FINAL STRATEGY DETERMINATION

The Preliminary Assessment/Site Inspection has been completed at this site. This site has been recommended for a Remedial Investigation (RI). The RI will verify and characterize the extent of contamination, if any. The need for a Remedial Action w: be determined from the results of the RI. RI recommendations are given in Chapter 2 of this report.

F. IF A CASE DEVELOPMENT PLAN HAS BEEN PREPARED, SPECIFY THE DATE PREPARED *(mo., day, & yr.)*	G. IF AN ENFORCEMENT CASE HAS BEEN FILED, SPECIFY THE DATE FILED *(mo., day, & yr.)*

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, & yr.)*

III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE

List all remedial actions, such as excavation, removal, etc. to be taken as soon as resources become available. See instructions for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy.

A. REMEDIAL ACTION	B. ESTIMATED COST	C. REMARKS
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
D. TOTAL ESTIMATED COST	$	

REPRODUCED AT GOVERNMENT EXPENSE

Continued From Front

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY ACTIONS *(On Site and Off-Site)*: List all emergency actions taken or planned to bring the site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo,day,&yr)*	3. ACTION END DATE *(mo,day,&yr)*	4. ACTION AGENCY *(EPA, State, Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION. INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

B. LONG TERM STRATEGY *(On Site and Off-Site)*: List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo,day,&yr)*	3. ACTION END DATE *(mo,day,&yr)*	4. ACTION AGENCY *(EPA, State Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION: INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

C. MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL MAN-HOURS FOR REMEDIAL ACTIVITIES	3. TOTAL COST FOR REMEDIAL ACTIVITIES
a. EPA		$
b. STATE		$
c. PRIVATE PARTIES		$
d. OTHER *(specify)*:		$

EPA Form T2070-5 (10-79) REVERSE

REPRODUCED AT GOVERNMENT EXPENSE

REFERENCES FOR PA/SI FORMS

1. California Division of Mines and Geology, 1977. "Geologic Map of California San Diego-El Centro Sheet," California Division of Mines and Geology, Sacramento, California

2. Davis, Stanley N., and DeWiest, Roger J. M, 1966. Hydrogeology. John Wiley and Sons Inc., New York.

3. Department of Water Resources, 1986. "Selenium Sampling in Colorado River Basin Region," California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

4. Fair, Gordon M., et. al., 1966. Water and Wastewater Engineering. John Wileyand Sons, Inc., New York.

5. Freeze, Allan R., and Cherry John A, 1979. Groundwater. Pentice-Hall Inc, Engelwood Cliffs, New Jersey.

6. Gruenberg, P., 1984. Report on Preliminary Study of Fate of Selected Pollutants Discharged from Mexicali, Mexico, to the New River. California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

7. Lory, E. E., et. al., 1981. Management Procedure For Assessment of Friable Asbestos Insulating Material, TR-833. Civil Engineering Laboratory, Port Hueneme, California.

8. Lyon Engineers, Inc, 1985. "Soils Engineering Report, Bachelor Officers Quarters-Building 270, Naval Air Facility El Centro, CA." Western Division Naval Facilities Engineering Command, San Bruno, California.

9. Morton, Paul K, 1977. "Geology and Mineral Recources of Imperial County California." California Division of Mines and Geology, Sacaramento, CA.

10. Naval Energy and Environmental Support Activity (NEESA), 1986. "Hazardous Waste Annual Report CY85," Naval Air Facility, El Centro, California.

11. RGA Engineering Corporation, 1987. "Subsurface Investigation Repairs to Pavement at Fuel Farm, Naval Air Facility." Tucson, Arizona.

12. United States Department of Agriculture, 1981. "Soil Survey of Imperial County California, Imperial Valley Area." Soil Conservation Service.

13. United States Geological Survey, 1979. "Seeley Quadrangle, California, Imperial County, 7.5 minute Series." United States Geological Survey Denver, Colorado.

(con't)

14. WESTNAVFACENGCOM, 1972, 1981, 1982, 1983. "Navy Environmental Protection Data Base Reconnaissance - Activity Survey." Western Division, Naval Facilities Engineering Command, San Diego, California.

15. WESTNAVFACENGCOM, 1982a. Master Plan, Naval Air Facility El Centro California, Western Division, Naval Facilities Engineering Command, San Bruno, California.

16. WESTNAVFACENGCOM, 1982b. "Soil Investigation at West End of Runway 8L-26R Naval Air Facility, El Centro, CA." Western Division, Naval Facilities Engineering Command, San Bruno, California.

17. WESTNAVFACENGCOM, 1981. "General Development Map." Western Division Naval Facilities Engineering Command, San Bruno, California.

PRELIMINARY ASSESSMENT FORM

SITE 13

OLD INCINERATOR

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-13

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 13 - Old Incinerator	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE
324923.	1153950.

10 DIRECTIONS TO SITE (Starting from nearest public road) From Interstate 8, head north on Bennett Road to the base gate. Continue north on A Street, turn east on 8th Street. At E Street turn north, and follow Patrol Road around the Airfield. Site 13 is close to the northeast corner of the base 300 feet east of Building 197.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
U. S. Navy	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
El Centro	CA	92243-5001	(619) 339-2201

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Same as owner	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☒ B. FEDERAL: U. S. Navy (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 01/14/87 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☒ F. OTHER: Naval Energy and Environmental Support Activity (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1942 (BEGINNING YEAR) | before 1953 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Paper only was burned in this incinerator

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

None

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☒ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Naval Energy and Environmental Support Activity	U. S. Navy	(805) 982-4502

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06/10/87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-13

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

X A. SOLID
B. POWDER, FINES
C. SLUDGE
D. OTHER _____ (Specify)
E. SLURRY
F. LIQUID
G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS unknown
CUBIC YARDS _____
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

A. TOXIC
B. CORROSIVE
C. RADIOACTIVE
D. PERSISTENT
E. SOLUBLE
F. INFECTIOUS
G. FLAMMABLE
H. IGNITABLE
I. HIGHLY VOLATILE
J. EXPLOSIVE
K. REACTIVE
L. INCOMPATIBLE
X M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATI
	None				

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, activity visit.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-13

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: small (Acres)
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

The ash from burning paper was buried in the immediate surrounding area of the incinerator. No hazardous consitituents would be expected.

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-13

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids, leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

The ash was produced by the burning of paper only (probably classifed material). No hazardous wastes are present.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, activity records.

No Site Inspection necessary.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

PRELIMINARY ASSESSMENT/SITE INSPECTION FORMS

SITE 14

FUEL FARM TANK RINSEATE DISPOSAL AREA

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-14

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Site 14 Fuel Farm Tank Rinseate Disposal Area	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE
324923.	1153950.

10 DIRECTIONS TO SITE (Starting from nearest public road) From Interstate 8 go north on Bennett Road to the gate. Continue north on A Street, turn east on 8th Street. The fuel farm is located at the end of 8th Street in the southeast corner of the base.

III. RESPONSIBLE PARTIES

01 OWNER (If known) U. S. Navy	02 STREET (Business, mailing, residential) NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
El Centro	CA	92243-5001	(619) 339-2201

07 OPERATOR (If known and different from owner) Same as owner	08 STREET (Business, mailing, residential)

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☒ B. FEDERAL: U. S. Navy (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 01/14/87 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☒ F. OTHER: Naval Energy and Environmental Support Activity (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1960 (BEGINNING YEAR) 1985 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Rinseate from tanks containing JP-4, JP-5, AVGAS, Diesel Fuel #2 and MOGAS leaded and unleaded were disposed of to the soil surface.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Contaminants may migrate via surface water or ground water.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Naval Energy and Environmental Support Activity	U. S. Navy	(805) 982-4502

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06/20/87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-14

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A SOLID
- B POWDER, FINES
- X C SLUDGE
- D. OTHER _____ (Specify)
- E SLURRY
- X F LIQUID
- G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO. OF DRUMS 20,000

03 WASTE CHARACTERISTICS (Check all that apply)

- A TOXIC
- B CORROSIVE
- C RADIOACTIVE
- X D PERSISTENT
- E SOLUBLE
- F INFECTIOUS
- X G FLAMMABLE
- X H IGNITABLE
- X I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			Small quantities
OLW	OILY WASTE	1,000,000	Gallons	
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	JP-4		Tank Rinseate to soil	Dilute	
OLW	JP-5		Tank Rinseate to soil	Dilute	
OLW	AVGAS (Aviation GAsoline)		Tank Rinseate to soil	Dilute	
OLW	MOGAS - regular		Tank Rinseate to soil	Dilute	
OLW	MOGAS - unleaded		Tank Rinseate to soil	Dilute	
OLW	Diesel Fuel #2		Tank Rinseate to soil	Dilute	

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, activity records,

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-14

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 [X] OBSERVED (DATE 6-16-87) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

Diesel & JP-fuel was observed in a hole dug near this area.

01 [X] B. SURFACE WATER CONTAMINATION — 02 [ ] OBSERVED (DATE _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

Drainage ditches near this area could be affected during wet periods.

01 [ ] C. CONTAMINATION OF AIR — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] E. DIRECT CONTACT — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

01 [X] F. CONTAMINATION OF SOIL — 02 [X] OBSERVED (DATE 6-16-87) — [ ] POTENTIAL — [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: 5 (Acres) — 04 NARRATIVE DESCRIPTION

Contaminated soil is visible in the holes which showed the JP and diesel fuel/

01 [ ] G. DRINKING WATER CONTAMINATION — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] H. WORKER EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] I. POPULATION EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-14

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids, leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

Fuel was observed in the soil and the shallow groundwater.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Same as Part II, Section VI.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 14

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 14 - Fuel Farm Tank Rinseate Area	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES — LATITUDE: 32 49 23.__ | LONGITUDE: 115 39 50.__

10 TYPE OF OWNERSHIP (Check one): ☐ A. PRIVATE ☒ B. FEDERAL US NAVY ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
01/14/87 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	1960 (BEGINNING YEAR) 1985 (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☒ G. OTHER Naval Energy & Environmental Support Activity (NEESA) (Name of firm)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jeffrey L. Hendrix	Environmental Engineer	NEESA	(805) 982-3449
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Ronald E. Tickle	Environmental Engineer	NEESA	(805) 982-4502
Stephen E. Eikenberry	Hydrogeologist	NEESA	(805) 982-4067
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Not Applicable			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	1200	Sunny and warm, zero cloud cover, dry

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
Naval Energy and Environmental Support Activity (NEESA)	U.S. Navy	(805) 982-3449

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06 20 87 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-14

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☒ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
NO. OF DRUMS 20,000

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☒ G. FLAMMABLE
- ☒ H. IGNITABLE
- ☒ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			small quantities
OLW	OILY WASTE	1,000,000	gallons	
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	JP-4		Tank Rinseate to soil	Dilute	
OLW	JP-5		Tank Rinseate to soil	Dilute	
OLW	AVGAS (Aviation Gasoline)		Tank Rinseate to soil	Dilute	
OLW	MOGAS - regular		Tank Rinseate to soil	Dilute	
OLW	MOGAS - unleaded		Tank Rinseate to soil	Dilute	
OLW	Diesel Fuel #2		Tank Rinseate to soil	Dilute	

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, activity records, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-14

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 [ ] OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Diesel & JP-fuel was observed in a hole dug near this area.

01 [X] B. SURFACE WATER CONTAMINATION — 02 [ ] OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Drainage ditches near this area could be affected during wet periods.

01 [ ] C. CONTAMINATION OF AIR — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] D. FIRE EXPLOSIVE CONDITIONS — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] E. DIRECT CONTACT — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [X] F. CONTAMINATION OF SOIL — 02 [X] OBSERVED (DATE: 6-16-87) — [ ] POTENTIAL — [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) — 04 NARRATIVE DESCRIPTION

Contaminated soil is visible in the holes which showed the JP and diesel fuel.

01 [ ] G. DRINKING WATER CONTAMINATION — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] H. WORKER EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] I. POPULATION EXPOSURE INJURY — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-14

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

Fuel was observed in the soil and the shallow groundwater.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, see References 1 through 17

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 14

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☒ B. UIC	N60042			Navy UIC
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☒ I. OTHER Rinse Area (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER _____ (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

5 (Acres)

07 COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

The rinseate was sent to a low lying area where it evaporated or soaked into the soil.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE. ☐ YES ☒ NO

02 COMMENTS

The fuel farm is fenced.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 14

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☒	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

	ENDANGERED	AFFECTED	MONITORED
COMMUNITY	A. ☐	B. ☐	C. ☐
NON-COMMUNITY	D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 1.5 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☒ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL > 10 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
8-12 (ft)	Generally Northwest	N/A (ft)	_____ (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

No wells are located within Imperial County.

10 RECHARGE AREA: ☐ YES ☒ NO — COMMENTS: The irrigation areas may recharge the upper Aquifer which is unused.

11 DISCHARGE AREA: ☐ YES ☒ NO — COMMENTS:

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☒ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☒ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
drainage diteches	☐	<.1 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 600 NO OF PERSONS	B. 1600 NO OF PERSONS	C. 1720 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION <.1 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE: 276 Buildings on NAF El Centro approximately 300 buildings in Seeley.

04 DISTANCE TO NEAREST OFF-SITE BUILDING <.1 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are approximately 600 permanent civilians, officers, and enlisted men at NAF El Centro. The town is seeley with a population of between 800 to 900 is approximately one mile to the south of the base boundary. The rest of the area within three miles of NAF El Centro is agricultural.

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE: CA | 02 SITE NUMBER: 106- 14

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
> 220 (ft)	(ft)	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
-70 (in)	1 (in)	1 %	southwest	1 %

09 FLOOD POTENTIAL

SITE IS IN > 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)

OTHER: B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

16 (mi)

ENDANGERED SPECIES: Salton Sea Refuge

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A _____ (mi)	B. 16 (mi)	C. _____ (mi)	D. .1 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The fuel farm is fenced. Crops are grown to the south and west of the rinseate disposal area.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See References 1, 2, 3, 5, 6, 8, 9, 11, 12, 13, 15, and 16

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 14

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF Naval Energy & Environmental Support Activity
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Naval Energy and Environmental Support Activity

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

Diesel fuel and JP fuel have been encountered in holes dug in this area at a depth of 8 to 12 feet.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, see References 13 and 17

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 14

II. CURRENT OWNER(S)			PARENT COMPANY (If applicable)		
01 NAME U.S. Navy	02 D+B NUMBER		08 NAME	09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) NAF El Centro	04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	
05 CITY El Centro	06 STATE CA	07 ZIP CODE 92243-5001	12 CITY	13 STATE	14 ZIP CODE
01 NAME	02 D+B NUMBER		08 NAME	09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME	02 D+B NUMBER		08 NAME	09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME	02 D+B NUMBER		08 NAME	09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)			IV. REALTY OWNER(S) (If applicable, list most recent first)		
01 NAME	02 D+B NUMBER		01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER		01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER		01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 14

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

08 YEARS OF OPERATION	09 NAME OF OWNER
1960-1985	U.S. Navy

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 14

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 14

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-14

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

The fuel farm area was inspected by the Imperial County Department of Health and the Colorado River Basin Region of the California Regional Water Quality Control Board in June, 1987/

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Imperial County Department of Health and the Colorado River Basin Region of the California Regional Water Quality Control Board.

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
FINAL STRATEGY DETERMINATION

REGION	SITE NUMBER
IX	106- 14

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (*EN-335*); 401 M St., SW, Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Site 14 - Fuel Farm Tank Rinseate Area	NAF El Centro	
C. CITY	**D. STATE**	**E. ZIP CODE**
El Centro	CA	92243-5001

II. FINAL DETERMINATION

Indicate the recommended action(*s*) and agency(*ies*) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY			
		EPA	STATE	LOCAL	PRIV
A. NO ACTION NEEDED					
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCES AVAILABLE *(If yes, complete Section III.)*					
C. REMEDIAL ACTION *(If yes, complete Section IV.)*					
D. ENFORCEMENT ACTION *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)*					

E. RATIONALE FOR FINAL STRATEGY DETERMINATION

The Preliminary Assessment/Site Inspection has been completed at this site. This site has been recommended for a Remedial Investigation (RI). The RI will verify and characterize the extent of contamination, if any. The need for a Remedial Action wi be determined from the results of the RI. RI recommendations are given in Chapter 2 of this report.

F. IF A CASE DEVELOPMENT PLAN HAS BEEN PREPARED, SPECIFY THE DATE PREPARED *(mo., day, & yr.)*	G. IF AN ENFORCEMENT CASE HAS BEEN FILED, SPECIFY TI DATE FILED *(mo., day, & yr.)*

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, & yr.)*

III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE

List all remedial actions, such as excavation, removal, etc. to be taken as soon as resources become available. See instructions for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy.

A. REMEDIAL ACTION	B. ESTIMATED COST	C. REMARKS
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
D. TOTAL ESTIMATED COST	$	

REPRODUCED AT GOVERNMENT EXPENSE

Continued From Front

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY ACTIONS *(On Site and Off-Site)*: List all emergency actions taken or planned to bring the site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE (mo,day,&yr)	3. ACTION END DATE (mo,day,&yr)	4. ACTION AGENCY (EPA, State, Private Party)	5. COST	6. SPECIFY 311 OR OTHER ACTION. INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

B. LONG TERM STRATEGY *(On Site and Off-Site)*: List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE (mo,day,&yr)	3. ACTION END DATE (mo,day,&yr)	4. ACTION AGENCY (EPA, State Private Party)	5. COST	6. SPECIFY 311 OR OTHER ACTION; INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

C. MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL MAN-HOURS FOR REMEDIAL ACTIVITIES	3. TOTAL COST FOR REMEDIAL ACTIVITIES
a. EPA		$
b. STATE		$
c. PRIVATE PARTIES		$
d. OTHER *(specify)*:		$

EPA Form T2070-5 (10-79) REVERSE

REPRODUCED AT GOVERNMENT EXPENSE

REFERENCES FOR PA/SI FORMS

1. California Division of Mines and Geology, 1977. "Geologic Map of California San Diego-El Centro Sheet," California Division of Mines and Geology, Sacramento, California

2. Davis, Stanley N., and DeWiest, Roger J. M, 1966. Hydrogeology. John Wiley and Sons Inc., New York.

3. Department of Water Resources, 1986. "Selenium Sampling in Colorado River Basin Region," California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

4. Fair, Gordon M., et. al., 1966. Water and Wastewater Engineering. John Wileyand Sons, Inc., New York.

5. Freeze, Allan R., and Cherry John A, 1979. Groundwater. Pentice-Hall Inc, Engelwood Cliffs, New Jersey.

6. Gruenberg, P., 1984. Report on Preliminary Study of Fate of Selected Pollutants Discharged from Mexicali, Mexico, to the New River. California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

7. Lory, E. E., et. al., 1981. Management Procedure For Assessment of Friable Asbestos Insulating Material, TR-833. Civil Engineering Laboratory, Port Hueneme, California.

8. Lyon Engineers, Inc, 1985. "Soils Engineering Report, Bachelor Officers Quarters-Building 270, Naval Air Facility El Centro, CA." Western Division Naval Facilities Engineering Command, San Bruno, California.

9. Morton, Paul K, 1977. "Geology and Mineral Recources of Imperial County California." California Division of Mines and Geology, Sacaramento, CA.

10. Naval Energy and Environmental Support Activity (NEESA), 1986. "Hazardous Waste Annual Report CY85," Naval Air Facility, El Centro, California.

11. RGA Engineering Corporation, 1987. "Subsurface Investigation Repairs to Pavement at Fuel Farm, Naval Air Facility." Tucson, Arizona.

12. United States Department of Agriculture, 1981. "Soil Survey of Imperial County California, Imperial Valley Area." Soil Conservation Service.

13. United States Geological Survey, 1979. "Seeley Quadrangle, California, Imperial County, 7.5 minute Series." United States Geological Survey Denver, Colorado.

(con't)

14. WESTNAVFACENGCOM, 1972, 1981, 1982, 1983. "Navy Environmental Protection Data Base Reconnaissance - Activity Survey." Western Division, Naval Facilities Engineering Command, San Diego, California.

15. WESTNAVFACENGCOM, 1982a. Master Plan, Naval Air Facility El Centro California, Western Division, Naval Facilities Engineering Command, San Bruno, California.

16. WESTNAVFACENGCOM, 1982b. "Soil Investigation at West End of Runway 8L-26R Naval Air Facility, El Centro, CA." Western Division, Naval Facilities Engineering Command, San Bruno, California.

17. WESTNAVFACENGCOM, 1981. "General Development Map." Western Division Naval Facilities Engineering Command, San Bruno, California.

PRELIMINARY ASSESSMENT/SITE INSPECTION FORMS

SITE 15

FUEL FARM FILTER CLEANING AREA

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-15

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 15 - Fuel Farm Filter Cleaning Area	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE
324923	1153950

10 DIRECTIONS TO SITE (Starting from nearest public road) From Interstate 8 go north on Bennett Road to the base gate. Continue north on A Street, turn east on 8th Street The Fuel Farm is located at the end of 8th Street, in the southeast corner of the base.

III. RESPONSIBLE PARTIES

01 OWNER (if known)	02 STREET (Business, mailing, residential)
U. S. Navy	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
El Centro	CA	92243-5001	(619) 339-2201

07 OPERATOR (if known and different from owner)	08 STREET (Business, mailing, residential)
Same as owner	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☒ B. FEDERAL: U. S. Navy (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 01/14/87 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☒ F. OTHER: Naval Energy and Environmental Support Activity (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1958 (BEGINNING YEAR) 1981 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Fuel which spill during fuel filter cleaning. Fuels include JP-4, JP-5, AVGAS, MOGAS Regular & Unleaded, Diesel fuel #2

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Naval Energy and Environmental Support Activity	U. S. Navy	(805) 982-4502

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06/20/87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-15

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A SOLID
- B POWDER, FINES
- C SLUDGE
- D. OTHER _____ (Specify)
- E SLURRY
- X F LIQUID
- G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO OF DRUMS 60

03 WASTE CHARACTERISTICS (Check all that apply)

- X A TOXIC
- B CORROSIVE
- C RADIOACTIVE
- X D PERSISTENT
- E SOLUBLE
- F INFECTIOUS
- X G FLAMMABLE
- X H IGNITABLE
- X I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	3000	Gallons	allowed to seep into soil.
SOL	SOLVENTS			
PSO	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	JP-4		Spilled to soil		
OLW	JP-5		Spilled to soil		
OLW	AVGAS		Spilled to soil		
OLW	MOGAS - Regular		Spilled to soil		
OLW	MOGAS - Unleaded		Spilled to soil		
OLW	Diesel Fuel #2		Spilled to soil		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBE
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, activity records.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-15

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED _____
02 X OBSERVED (DATE 6-16-87) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

JP fuel was observed in a 12 foot deep hole which was dug in this area.

01 X B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) X POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Drainage ditches near this area could be affected during wet periods.

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 X F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED. _____ (Acres)
02 X OBSERVED (DATE 6-16-87) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Contaminated soil is visible in the hole where the JP fuel is visible.

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED. _____
02 ☐ OBSERVED (DATE. _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE. _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE. _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106-1

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

A 12 foot deep hole was dug in the immediate area of Site 15. JP fuel seeped into the hole, and the soil was visibly contaminated

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Same as Part II, Section VI.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 15

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 15 - Fuel Farm Filter-Cleaning Area	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
32 49 23.__	115 95 0.__	☐ A. PRIVATE ☒ B. FEDERAL US NAVY ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
01 14 87 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	1958 (BEGINNING YEAR) 1981 (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☒ G. OTHER Naval Energy & Environmental Support Activity (NEESA) (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jeffrey L. Hendrix	Environmental Engineer	NEESA	(805) 982-3449
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Ronald E. Tickle	Environmental Engineer	NEESA	(805) 982-4502
Stephen E. Eikenberry	Hydrogeologist	NEESA	(805) 982-4067
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Not Applicable			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	1400	Sunny and warm, zero cloud cover, dry

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
Naval Energy and Environmental Support Activity (NEESA)	U.S. Navy	(805) 982-3449

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06 20 87 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 15

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO. OF DRUMS 60

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☒ G. FLAMMABLE
- ☒ H. IGNITABLE
- ☒ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	3,000	gallons	Allowed to seep into soil.
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASUR CONCENTRA
OLW	JP-4		Spilled to soil		
OLW	JP-5		Spilled to soil		
OLW	AVGAS		Spilled to soil		
OLW	MOGAS		Spilled to soil		
OLW	MOGAS		Spilled to soil		
OLW	Diesel Fuel #2		Spilled to soil		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, activity records, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 15

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☒ OBSERVED (DATE: 6-26-87) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

JP fuel was observed in a 12 foot deep hole which was dug in this area.

01 ☒ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Drainage ditches near this area could be affected during wet periods/

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL — 02 ☒ OBSERVED (DATE: 6-16-87) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) 04 NARRATIVE DESCRIPTION

Contaminated soil is visible in the hole where the JP fuel is visible.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE INJURY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 15

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

A 12 foot deep hole was dug in the immediate area of Site 15. JP fuel seeped into the hole, and the soil was visibly contaminated.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, see References 1 through 17

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 15

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☒ B. UIC	N60042			Navy UIC
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☒ I. OTHER Spill Area (Specify)	3,000	gal

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER _____ (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

0.1 (Acres)

07 COMMENTS

Every five years, the filters at the fuel farm are cleaned. During cleaning approximately 100 gallons of fuel are spilled with each filter. There are five filters.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

None

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE. ☐ YES ☒ NO

02 COMMENTS

The fuel farm is fenced.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 15

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL	02 STATUS	ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. ☒	B. ☐		A. ☐	B. ☐	C. ☐	A. 1.5 (mi)
NON-COMMUNITY	C. ☐	D. ☐		D. ☐	E. ☐	F. ☐	B. (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☒ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL > 10 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
8-12 (ft)	Generally Northwest	N/A (ft)	(gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

No wells are located within Imperial County.

10 RECHARGE AREA		11 DISCHARGE AREA	
☐ YES ☒ NO	COMMENTS The irrigation areas may recharge the upper Aquifer which is unused.	☐ YES ☒ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☒ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☒ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
drainage ditches	☐	.1 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 600 NO OF PERSONS	B. 1600 NO OF PERSONS	C. 1720 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION .1 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE
276 Buildings on NAF El Centro
approximately 300 buildings in Seeley.

04 DISTANCE TO NEAREST OFF-SITE BUILDING .1 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are approximately 600 permanent civilians, officers, and enlisted men at NAF El Centro. The town is seeley with a population of between 800 to 900 is approximately one mile to the south of the base boundary. The rest of the area within three miles of NAF El Centro is agricultural.

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106- 15

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
> 220 (ft)	(ft)	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
-70 (in)	1 (in)	< .1 %	southwest	< .1 %

09 FLOOD POTENTIAL

SITE IS IN > 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)

OTHER: B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

16 (mi)

ENDANGERED SPECIES: Salton Sea Refuge

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A _____ (mi)	B. 16 (mi)	C. _____ (mi)	D. < .1 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Crops are grown nearby. The fuel farm is fenced.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See References 1, 2, 3, 5, 6, 8, 9, 11, 12, 13, 15, and 16

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-15

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF Naval Energy & Environmental Support Activity
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Naval Energy and Environmental Support Activity

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

Diesel fuel and JP fuel were observed in holes dug in this area at a depth of 8 to 12 feet. Soil stains were visible.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, see References 13 and 17

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 15

II. CURRENT OWNER(S)			PARENT COMPANY (If applicable)		
01 NAME U.S. Navy	02 D+B NUMBER		08 NAME	09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) NAF El Centro	04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	
05 CITY El Centro	06 STATE CA	07 ZIP CODE 92243-5001	12 CITY	13 STATE	14 ZIP CODE
01 NAME	02 D+B NUMBER		08 NAME	09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME	02 D+B NUMBER		08 NAME	09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME	02 D+B NUMBER		08 NAME	09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)			IV. REALTY OWNER(S) (If applicable, list most recent first)		
01 NAME	02 D+B NUMBER		01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER		01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER		01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-15

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

08 YEARS OF OPERATION	09 NAME OF OWNER
1958-1981	U.S. Navy

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-15

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 15

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE CA	02 SITE NUMBER 106-15

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

The fuel farm was inspected by the Imperial County Department of Health and the Colorado River Basin Region of the California Regional Water Quality Control Board in June, 1987.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Imperial County Department of Health and the Colorado River Basin Region of the California Regional Water Qualtiy Control Board.

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
FINAL STRATEGY DETERMINATION

REGION	SITE NUMBER
IX	106- 15

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Site 15 - Fuel Farm Filter-Cleaning Area	NAF El Centro	
C. CITY	**D. STATE**	**E. ZIP CODE**
El Centro	CA	92243-5001

II. FINAL DETERMINATION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY: EPA	STATE	LOCAL	PRIV
A. NO ACTION NEEDED					
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCES AVAILABLE *(If yes, complete Section III.)*					
C. REMEDIAL ACTION *(If yes, complete Section IV.)*					
D. ENFORCEMENT ACTION *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)*					

E. RATIONALE FOR FINAL STRATEGY DETERMINATION

The Preliminary Assessment/Site Inspection has been completed at this site. This site has been recommended for a Remedial Investigation (RI). The RI will verify and characterize the extent of contamination, if any. The need for a Remedial Action will be determined from the results of the RI. RI recommendations are given in Chapter 2 of this report.

F. IF A CASE DEVELOPMENT PLAN HAS BEEN PREPARED, SPECIFY THE DATE PREPARED *(mo., day, & yr.)*	G. IF AN ENFORCEMENT CASE HAS BEEN FILED, SPECIFY THE DATE FILED *(mo., day, & yr.)*

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, & yr.)*

III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE

List all remedial actions, such as excavation, removal, etc. to be taken as soon as resources become available. See instructions for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy.

A. REMEDIAL ACTION	B. ESTIMATED COST	C. REMARKS
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
D. TOTAL ESTIMATED COST	$	

REPRODUCED AT GOVERNMENT EXPENSE

Continued From Front

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY ACTIONS *(On Site and Off-Site)*: List all emergency actions taken or planned to bring the site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo, day, & yr)*	3. ACTION END DATE *(mo, day, & yr)*	4. ACTION AGENCY *(EPA, State, Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION. INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

B. LONG TERM STRATEGY *(On Site and Off-Site)*: List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo, day, & yr)*	3. ACTION END DATE *(mo, day, & yr)*	4. ACTION AGENCY *(EPA, State Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION: INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

C. MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL MAN-HOURS FOR REMEDIAL ACTIVITIES	3. TOTAL COST FOR REMEDIAL ACTIVITIES
a. EPA		$
b. STATE		$
c. PRIVATE PARTIES		$
d. OTHER *(specify)*:		$

EPA Form T2070-5 (10-79) REVERSE

REPRODUCED AT GOVERNMENT EXPENSE

REFERENCES FOR PA/SI FORMS

1. California Division of Mines and Geology, 1977. "Geologic Map of California San Diego-El Centro Sheet," California Division of Mines and Geology, Sacramento, California

2. Davis, Stanley N., and DeWiest, Roger J. M, 1966. Hydrogeology. John Wiley and Sons Inc., New York.

3. Department of Water Resources, 1986. "Selenium Sampling in Colorado River Basin Region," California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

4. Fair, Gordon M., et. al., 1966. Water and Wastewater Engineering. John Wileyand Sons, Inc., New York.

5. Freeze, Allan R., and Cherry John A, 1979. Groundwater. Pentice-Hall Inc, Engelwood Cliffs, New Jersey.

6. Gruenberg, P., 1984. Report on Preliminary Study of Fate of Selected Pollutants Discharged from Mexicali, Mexico, to the New River. California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

7. Lory, E. E., et. al., 1981. Management Procedure For Assessment of Friable Asbestos Insulating Material, TR-833. Civil Engineering Laboratory, Port Hueneme, California.

8. Lyon Engineers, Inc, 1985. "Soils Engineering Report, Bachelor Officers Quarters-Building 270, Naval Air Facility El Centro, CA." Western Division Naval Facilities Engineering Command, San Bruno, California.

9. Morton, Paul K, 1977. "Geology and Mineral Recources of Imperial County California." California Division of Mines and Geology, Sacaramento, CA.

10. Naval Energy and Environmental Support Activity (NEESA), 1986. "Hazardous Waste Annual Report CY85," Naval Air Facility, El Centro, California.

11. RGA Engineering Corporation, 1987. "Subsurface Investigation Repairs to Pavement at Fuel Farm, Naval Air Facility." Tucson, Arizona.

12. United States Department of Agriculture, 1981. "Soil Survey of Imperial County California, Imperial Valley Area." Soil Conservation Service.

13. United States Geological Survey, 1979. "Seeley Quadrangle, California, Imperial County, 7.5 minute Series." United States Geological Survey Denver, Colorado.

(con't)

14. WESTNAVFACENGCOM, 1972, 1981, 1982, 1983. "Navy Environmental Protection Data Base Reconnaissance - Activity Survey." Western Division, Naval Facilities Engineering Command, San Diego, California.

15. WESTNAVFACENGCOM, 1982a. Master Plan, Naval Air Facility El Centro California, Western Division, Naval Facilities Engineering Command, San Bruno, California.

16. WESTNAVFACENGCOM, 1982b. "Soil Investigation at West End of Runway 8L-26R Naval Air Facility, El Centro, CA." Western Division, Naval Facilities Engineering Command, San Bruno, California.

17. WESTNAVFACENGCOM, 1981. "General Development Map." Western Division Naval Facilities Engineering Command, San Bruno, California.

PRELIMINARY ASSESSMENT/SITE INSPECTION FORMS

SITE 16

POTASSIUM FERRICYANIDE SPILL AREA

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-16

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 16-Potassium Ferricyanide Spill Area	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES LATITUDE	LONGITUDE
324923.	1153950.

10 DIRECTIONS TO SITE (Starting from nearest public road)

From Insterstate 8 go north on Bennett Road to the base gate. Continue north on A Street, turn east on 8th Street. At J Street turn south, the spill occured behind Building 565, the Photo Lab

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
U. S. Navy	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
El Centro	CA	92243-5001	(619) 339-2201

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Same as owner	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)

☐ A. PRIVATE ☒ B. FEDERAL: U. S. Navy (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL

☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES DATE 01 / 14 / 87 (MONTH DAY YEAR)

☐ NO

BY (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR

☐ E. LOCAL HEALTH OFFICIAL ☒ F. OTHER: Naval Energy and Environmental Support Activity (Specify)

CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)

☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION

1983 (BEGINNING YEAR) 1983 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

A 100 gallon spill of spent potassium ferricyanide bleach from photograph development spilled to the soil in 1983. Some bluish-green stained soil is visible.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Naval Energy and Environmental Support Activity	U. S. Navy	(805) 982-4502

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06 / 10 / 87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-16

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A SOLID
- B POWDER, FINES
- C SLUDGE
- D. OTHER _____ (Specify)
- E SLURRY
- X F LIQUID
- G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
NO OF DRUMS 2

03 WASTE CHARACTERISTICS (Check all that apply)

- X A TOXIC
- B CORROSIVE
- C RADIOACTIVE
- X D PERSISTENT
- E SOLUBLE
- F INFECTIOUS
- G FLAMMABLE
- H IGNITABLE
- I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS	100	Gallons	Potassium Ferricyanide Blea spill.
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
IOC	Potassium Ferricyanide	13746662	Spilled		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, personnel interviews.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-16

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Would not expect ground water contamination

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: small (Acres)
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

A bluishe-green stain is visible.

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106-16

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids, leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

Some of the soil was cleaned up and removed in 1983 but some stained soil is visible.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Same as Part II, Section VI.

EPA FORM 2070-12 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-16

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Site 16 - Potassium Ferricyanide Spill Area	NAF El Centro

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
El Centro	CA	92243-5001	Imperial	025	38

09 COORDINATES — LATITUDE: 32 49 23 — LONGITUDE: 115 39 50

10 TYPE OF OWNERSHIP (Check one): ☐ A. PRIVATE ☒ B. FEDERAL US NAVY ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
01/14/87 (MONTH DAY YEAR)	☐ ACTIVE ☐ INACTIVE	1983 (BEGINNING YEAR) — 1983 (ENDING YEAR) — ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☒ G. OTHER Naval Energy & Environmental Support Activity (NEESA)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Jeffrey L. Hendrix	Environmental Engineer	NEESA	(805) 982-3449

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Ronald E. Tickle	Environmental Engineer	NEESA	(805) 982-4502
Stephen E. Eikenberry	Hydrogeologist	NEESA	(805) 982-4067
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Not Applicable			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	1600	Sunny and warm, zero cloud cover, dry

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
Naval Energy and Environmental Support Activity (NEESA)	U.S. Navy	(805) 982-3449

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Jeffrey L. Hendrix	Navy	NEESA	(805) 982-3449	06/10/87 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-16

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

- TONS _____
- CUBIC YARDS _____
- NO. OF DRUMS 2

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS	100	gallons	Potassium Ferricyanide Bleach spill.
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASUR CONCENTR
IOC	Potassium Ferricyanide	I3746662	Spilled		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, activity records, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106- 16

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Would not expect ground water contamination

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: small (Acres)
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

A bluishe-green stain is visible.

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: CA
02 SITE NUMBER: 106-16

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

Some of the soil was cleaned up and removed in 1983 but some stained soil is visible.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews, see References 1 through 17

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☒ B. UIC	N60042			Navy UIC
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☒ D. TANK, ABOVE GROUND	100	gallon
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

<.1 (Acres)

07 COMMENTS

A one time spill of spent potassium ferricyanide bleach occured in 1983. Approximately 100 gallons was spilled to the soil. Most of the soil was excavated and removed, but some small areas of stained soil are visible.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

None

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE. ☒ YES ☐ NO

02 COMMENTS

Is present in the surface soil.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Personnel interviews, see References 10 and 14

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-16

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☒	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. .75 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☒ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL > 10 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
8-12 (ft)	Generally Northwest	N/A (ft)	_____ (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

No wells are located within Imperial County.

10 RECHARGE AREA
☐ YES
☒ NO
COMMENTS The irrigation areas may recharge the upper Aquifer which is unused.

11 DISCHARGE AREA
☐ YES
☒ NO
COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☒ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☒ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
None	☐	_____ (mi)
	☐	_____ (mi)
	☐	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 600 NO OF PERSONS	B. 1600 NO OF PERSONS	C. 1720 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION
20 ft (mi)
1 worked in photo shop

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE
276 Buildings on NAF El Centro
approximately 300 buildings in Seeley.

04 DISTANCE TO NEAREST OFF-SITE BUILDING
20 ft (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are approximately 600 permanent civilians, officers, and enlisted men at NAF El Centro. The town is seeley with a population of between 800 to 900 is approximately one mile to the south of the base boundary. The rest of the area within three miles of NAF El Centro is agricultural.

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE: CA | 02 SITE NUMBER: 106-16

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
> 220 (ft)	(ft)	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
-70 (in)	1 (in)	%		%

09 FLOOD POTENTIAL

SITE IS IN > 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. (mi)

OTHER: B. (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

16 (mi)

ENDANGERED SPECIES: Salton Sea Refuge

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. (mi)	B. 16 (mi)	C. (mi)	D. 1 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Some small areas bluish green stained soil are present.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See References 1, 2, 3, 5, 6, 8, 9, 11, 12, 13, 15, and 16

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-16

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF Naval Energy & Environmental Support Activity
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Naval Energy and Environmental Support Activity

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Activity records, see References 13 and 17

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-16

II. CURRENT OWNER(S)			PARENT COMPANY (If applicable)		
01 NAME U.S. Navy		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) NAF El Centro		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY El Centro	06 STATE CA	07 ZIP CODE 92243-5001	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)			IV. REALTY OWNER(S) (If applicable, list most recent first)		
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
CA	106-16

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

08 YEARS OF OPERATION	09 NAME OF OWNER
1983	U.S. Navy

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first, provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-16

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
U.S. Navy	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NAF El Centro	

05 CITY	06 STATE	07 ZIP CODE
El Centro	CA	92243-5001

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Reference 15

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE: CA | 02 SITE NUMBER: 106- 16

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE ____ — 03 AGENCY ____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE ____ — 03 AGENCY ____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE ____ — 03 AGENCY ____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE ____ — 03 AGENCY ____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE ____ — 03 AGENCY ____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE ____ — 03 AGENCY ____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE ____ — 03 AGENCY ____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE ____ — 03 AGENCY ____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE ____ — 03 AGENCY ____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE ____ — 03 AGENCY ____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE ____ — 03 AGENCY ____
04 DESCRIPTION

01 ☒ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE 1983 — 03 AGENCY Navy
04 DESCRIPTION

Most of the contaminated soil was excavated and removed in 1983. No follow-up sampling was conducted.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Personnel interviews.

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CA	106-16

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

REPRODUCED AT GOVERNMENT EXPENSE

EPA

POTENTIAL HAZARDOUS WASTE SITE
FINAL STRATEGY DETERMINATION

REGION	SITE NUMBER
IX	106-16

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force *(EN-335)*; 401 M St., SW, Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Site 16 - Potassium Ferricyanide Spill Area	NAF El Centro	
C. CITY	**D. STATE**	**E. ZIP CODE**
El Centro	CA	92243-5001

II. FINAL DETERMINATION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY: EPA	STATE	LOCAL	PRIV
A. NO ACTION NEEDED					
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCES AVAILABLE *(If yes, complete Section III.)*					
C. REMEDIAL ACTION *(If yes, complete Section IV.)*					
D. ENFORCEMENT ACTION *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)*					

E. RATIONALE FOR FINAL STRATEGY DETERMINATION

The Preliminary Assessment/Site Inspection has been completed at this site. This site has been recommended for a Remedial Investigation (RI). The RI will verify and characterize the extent of contamination, if any. The need for a Remedial Action wi be determined from the results of the RI. RI recommendations are given in Chapter of this report.

F. IF A CASE DEVELOPMENT PLAN HAS BEEN PREPARED, SPECIFY THE DATE PREPARED *(mo., day, & yr.)*	G. IF AN ENFORCEMENT CASE HAS BEEN FILED, SPECIFY T DATE FILED *(mo., day, & yr.)*

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, &)*

III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE

List all remedial actions, such as excavation, removal, etc. to be taken as soon as resources become available. See instructio for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy.

A. REMEDIAL ACTION	B. ESTIMATED COST	C. REMARKS
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
D. TOTAL ESTIMATED COST	$	

Continued From Front

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY ACTIONS *(On Site and Off-Site)*: List all emergency actions taken or planned to bring the site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo,day,&yr)*	3. ACTION END DATE *(mo,day,&yr)*	4. ACTION AGENCY *(EPA, State, Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION. INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

B. LONG TERM STRATEGY *(On Site and Off-Site)*: List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE *(mo,day,&yr)*	3. ACTION END DATE *(mo,day,&yr)*	4. ACTION AGENCY *(EPA, State Private Party)*	5. COST	6. SPECIFY 311 OR OTHER ACTION; INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				$	
				$	
				$	
				$	
				$	
				$	

C. MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL MAN-HOURS FOR REMEDIAL ACTIVITIES	3. TOTAL COST FOR REMEDIAL ACTIVITIES
a. EPA		$
b. STATE		$
c. PRIVATE PARTIES		$
d. OTHER *(specify)*:		$

EPA Form T2070-5 (10-79) REVERSE

REPRODUCED AT GOVERNMENT EXPENSE

REFERENCES FOR PA/SI FORMS

1. California Division of Mines and Geology, 1977. "Geologic Map of California San Diego-El Centro Sheet," California Division of Mines and Geology, Sacramento, California

2. Davis, Stanley N., and DeWiest, Roger J. M, 1966. Hydrogeology. John Wiley and Sons Inc., New York.

3. Department of Water Resources, 1986. "Selenium Sampling in Colorado River Basin Region," California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

4. Fair, Gordon M., et. al., 1966. Water and Wastewater Engineering. John Wileyand Sons, Inc., New York.

5. Freeze, Allan R., and Cherry John A, 1979. Groundwater. Pentice-Hall Inc, Engelwood Cliffs, New Jersey.

6. Gruenberg, P., 1984. Report on Preliminary Study of Fate of Selected Pollutants Discharged from Mexicali, Mexico, to the New River. California Regional Water Quality Control Board, Colorado River Basin Region, Palm Desert, California.

7. Lory, E. E., et. al., 1981. Management Procedure For Assessment of Friable Asbestos Insulating Material, TR-833. Civil Engineering Laboratory, Port Hueneme, California.

8. Lyon Engineers, Inc, 1985. "Soils Engineering Report, Bachelor Officers Quarters-Building 270, Naval Air Facility El Centro, CA." Western Division Naval Facilities Engineering Command, San Bruno, California.

9. Morton, Paul K, 1977. "Geology and Mineral Recources of Imperial County California." California Division of Mines and Geology, Sacaramento, CA.

10. Naval Energy and Environmental Support Activity (NEESA), 1986. "Hazardous Waste Annual Report CY85," Naval Air Facility, El Centro, California.

11. RGA Engineering Corporation, 1987. "Subsurface Investigation Repairs to Pavement at Fuel Farm, Naval Air Facility." Tucson, Arizona.

12. United States Department of Agriculture, 1981. "Soil Survey of Imperial County California, Imperial Valley Area." Soil Conservation Service.

13. United States Geological Survey, 1979. "Seeley Quadrangle, California, Imperial County, 7.5 minute Series." United States Geological Survey Denver, Colorado.

(con't)

14. WESTNAVFACENGCOM, 1972, 1981, 1982, 1983. "Navy Environmental Protection Data Base Reconnaissance - Activity Survey." Western Division, Naval Facilities Engineering Command, San Diego, California.

15. WESTNAVFACENGCOM, 1982a. Master Plan, Naval Air Facility El Centro California, Western Division, Naval Facilities Engineering Command, San Bruno, California.

16. WESTNAVFACENGCOM, 1982b. "Soil Investigation at West End of Runway 8L-26R Naval Air Facility, El Centro, CA." Western Division, Naval Facilities Engineering Command, San Bruno, California.

17. WESTNAVFACENGCOM, 1981. "General Development Map." Western Division Naval Facilities Engineering Command, San Bruno, California.

APPENDIX F

ADDITIONAL SOIL BORING LOG

F.0 INTRODUCTION. This appendix contains an additional soil boring from June 1987 when cathodic protection of fuel farm tanks was installed at NAF El Centro.

F.1 DRILL LOG INFORMATION. A single boring was logged to a depth of 220 feet. The well was drilled using a Gardner Denver 1500 rotary wash rig. Rotary was fluids consisting of native soils mixed with water. Bentonite was not added to the drilling fluid.

Disturbed samples of cutting were obtained at 10 foot intervals. Field logs were prepared by a Civil Engineer based on samples obtained and drilling observations. Ground-water level was not measured. No laboratory classification tests were performed. Boring logs are presented as Figures F-1 and F-2. The approximate location of the boring is shown on Figure F-3.

The logged boring was drilled during construction of Special Project 84-C-0275, Cathodic Protection System at Fuel Farm, NAF El Centro. As built drawings should be consulted for details of anode completion procedures.

Hole No. 1

DRILLING LOG	DIVISION NEESM	INSTALLATION NAF El Centro	SHEET 1 OF 1 SHEETS

1. PROJECT: Preliminary Assessment/Site Inspection
2. LOCATION (Coordinates or Station):
3. DRILLING AGENCY:
4. HOLE NO. (As shown on drawing title and file number): Deep Hole #1
5. NAME OF DRILLER: Mongean Engineers
6. DIRECTION OF HOLE: ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN: N/A
8. DEPTH DRILLED INTO ROCK: N/A
9. TOTAL DEPTH OF HOLE:
10. SIZE AND TYPE OF BIT:
11. DATUM FOR ELEVATION SHOWN (TBM or MSL): MSL
12. MANUFACTURER'S DESIGNATION OF DRILL: Gardner Denver 1500
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED 18 UNDISTURBED
14. TOTAL NUMBER CORE BOXES: N/A
15. ELEVATION GROUND WATER: not measured
16. DATE HOLE: STARTED 6/24/87 COMPLETED 6/24/87
17. ELEVATION TOP OF HOLE: -43 ± 3 feet
18. TOTAL CORE RECOVERY FOR BORING: N/A %
19. SIGNATURE OF INSPECTOR:

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			brown, Silty Clay		ML/CL	12 inch PVC casing set to 25 feet. Casing not grouted. Arrived on site as casing was set in place. Log for first 25 feet based on available drill cuttings
-53	10					
-63	20			D		
-73	30			D		
-83	40		Silty Sand, brown Fine sand	D	SM	
-93	50		clay	D		
			Sandy, brown Fine sand		CL	
-103	60			D		
-113	70			D		
-123	80					
-133	90			D		
-143	100			D		

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) PROJECT HOLE NO.

FIGURE F-1 Soil Boring

DRILLING LOG (Cont Sheet) | ELEVATION TOP OF HOLE -43±3 feet | Hole No. 1

PROJECT Preliminary Assessment /Site I | INSTALLATION NAF El Centro | SHEET 2 OF 2 SHEETS

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	100					
-153	110			D		
-163	120		Silty Clay	D		
-173	130		brown, medium to fine sand, possible seams of sand	D	ML/CL	
-183	140			D		Driller reported 2-3 foot soft layer
-193	150			D		
-203	160		Silty sand, brown fine sand	D	SM	
-213	170					
-223	180		Sand, brown to tan fine to medium Unknown clay or silt content	D	SP/SM	Few soil clods after 180 feet
-233	190			D		
-243	200			D		Drilling fluid seeping into the formation
-253	210			D		Mud tank refilled 3 times in 20 feet logging discontinued at 220 feet
-263	220					Completed at 2306-2

ENG FORM 1836-A JUN 67 | PROJECT | HOLE NO.

FIGURE F-2 Soil Boring (con't)

(b) (3) (B)