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NAS KEY WEST
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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FOR SITE 2
TRANSFORMER OIL DISPOSAL NAS KEY WEST FL
2/25/1988
NAVAL FACILITIES ENGINEERING COMMAND SOUTHERN DIVISION

TRUMAN ANNEX
TRANSFORMER OIL DISPOSAL

Site # 2

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
FL	6170022952

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Naval Air Station, Key West, Site 2	(Truman Annex-Transformer Oil Disposal)				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Key West	FL	33042	Monroe	087	19
09 COORDINATES LATITUDE	LONGITUDE				
24 35 ___.___	81 45 ___.___				

10 DIRECTIONS TO SITE (Starting from nearest public road)

Site 2, Transformer Oil Disposal Area, is the gravel parking lot surrounding Build. 795 (current Defense Property Disposal Office) at Truman Annex.

III. RESPONSIBLE PARTIES

01 OWNER (if known)	02 STREET (Business, mailing, residential)		
U.S. Naval Air Station	N/A		
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Key West	FL	33042	( )
07 OPERATOR (if known and different from owner)	08 STREET (Business, mailing, residential)		
NAS Key West	N/A		
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
Key West	FL	33042	( )

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☒ B. FEDERAL: US Naval Air Station (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 08/13/84 (MONTH DAY YEAR)
☐ NO
07/9-08/4/86

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☒ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): Environdyne Engineers, Inc.; Geraghty & Miller, Inc.

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

03 YEARS OF OPERATION
1950 (BEGINNING YEAR) | ≈1970 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

This is an old disposal place. It possibly contains very low concentrations of disposed waste. Soil analyses indicated low levels of PCBs.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Based on the very low concentrations of PCBs in the soil samples the site does not appear to be potential hazardous to environment and to population.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 3 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection deemed priority) ☒ B. MEDIUM (Inspection desired) ☐ 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
Mr. Joel Murphy	NAVFAC / SOUTHDIV		(803) 743-0577
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Mr. Joel Murphy	Navy	NAVFAC-SOUTHDIV	(803) 743-0577	___/___/___ (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
FL	6170022952

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A. SOLID
- B. POWDER, PIMES
- 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 ≤ 80

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	An estimate of less than 80 drums of hazardous waste was disposed of at site during a 20 year period (≈ 1950 - 1970) was made.		Estimates are difficult to come by. Today, possibly a small amount of PCBs persists in the ground.
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS X			
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	PCBs	1336-36-3	OD	0.3 - 4.2	PPM

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)

- NEESA, Initial Assessment Study of NAS-Key West, FL; Document 13-071 (May 1985).
- Geraghty & Miller, Inc., Verification Study Assessment of Potential Ground-Water Pollution at NAS-Key West, FL (March 1987)

EPA

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

I. IDENTIFICATION
01 STATE: FL
02 SITE NUMBER: 6170022952

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
- Ground water does not appear to be potentially contaminated. Analyses have indicated the presence of ≃1 ppm PCBs in some soil at the site (Geraghty & Miller, Inc., 1987).

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
- No evidence of release of contaminants to surface water.
- Site is located a few feet above the sea level and adjacent to Atlantic Ocean.

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
- No information was found to indicate air contamination from the disposed of waste at the site.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
- No hazardous substances that could catch fire or explode are present at the site.

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
- There is no information of any direct contact incidents. No hazardous substances that could cause injury by direct contact are present at the site.

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: 7/10/86) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 0.5 Acres 04 NARRATIVE DESCRIPTION
- Very low levels (mostly below laboratory detection limit) of PCBs were found (Geraghty & Miller, Inc., 1987). The soil appears to be not seriously contaminated.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
- There is no potential for the drinking water to be contaminated from the site's waste compounds. Drinking water at Key West is imported via a 130 mile pipeline from the mainland, or from rainwater catchment and the desalination plant.

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

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
FL	6170022952

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 common 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, flooding, dikes) — 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

- Due to the very low concentrations of PCBs found in the soil samples, the site does not appear to be a threat to human health or the environment.

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

- NEESA, Initial Assessment Study of NAS-Key West, FL; Document 13-071 (May 1985).
- Geraghty & Miller, Inc., Verification Study Assessment of Potential Ground-Water Pollution at NAS-Key West, FL (March 1987).

Facility name: NAS Key West

Location: Key West, FL (Truman Annex)

EPA Region: 4

Person(s) in charge of the facility:

NAS Key West

Name of Reviewer: A. Antonopoulos Date: 2/25/88

General description of the facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

Site 2, Transformer Oil Disposal Area consists of 0.5 acre. During mid-1950s to approx. 1970 the off-line transformers were sent there, and the dielectric fluid from the transformers was routinely spread on the site (parking area) for dust and weed control purposes. Many disposed transformers contained polychlorinated biphenyls dielectric fluid. Soil analyses indicated low levels of PCBs.

Scores: $S_M = 15.2$ ($S_{gw} = 22.2$ $S_{sw} = 13.43$ $S_a = 0$), $S_{FE} = 0$, $S_{DC} = 37.5$

FIGURE 1
HRS COVER SHEET

DRAFT

Ground Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	3.1
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2 Route Characteristics					3.2
Depth to Aquifer of Concern	(0) 1 2 3	2	0	6	
Net Precipitation	0 1 (2) 3	1	2	3	
Permeability of the Unsaturated Zone	0 1 2 (3)	1	3	3	
Physical State	0 1 2 (3)	1	3	3	
	Total Route Characteristics Score		8	15	
3 Containment	0 1 2 (3)	1	3	3	3.3
4 Waste Characteristics					3.4
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18	
Hazardous Waste Quantity	0 1 (2) 3 4 5 6 7 8	1	2	8	
	Total Waste Characteristics Score		20	26	
5 Targets					3.5
Ground Water Use	0 (1) 2 3	3	3	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 (24) 30 32 35 40	1	24	40	
	Total Targets Score		27	49	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			12,960	57,330	
7 Divide line 6 by 57,330 and multiply by 100		S_{gw} = 22.61			

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FIGURE 2
GROUND WATER ROUTE WORK SHEET

Surface Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 45	1	0	45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 Route Characteristics					4.2
Facility Slope and Intervening Terrain	0 1 2 3	1	0	3	
1-yr. 24-hr. Rainfall	0 1 2 3	1	3	3	
Distance to Nearest Surface Water	0 1 2 3	2	6	6	
Physical State	0 1 2 3	1	3	3	
	Total Route Characteristics Score		12	15	
3 Containment	0 1 2 3	1	3	3	4.3
4 Waste Characteristics					4.4
Toxicity/Persistence	0 3 6 9 12 15 18	1	18	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	2	8	
	Total Waste Characteristics Score		20	26	
5 Targets					4.5
Surface Water Use	0 1 2 3	3	6	9	
Distance to a Sensitive Environment	0 1 2 3	2	6	6	
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 / 12 16 18 20 / 24 30 32 35 40	1	0	40	
	Total Targets Score		12	55	
6 If line 1 is 45, multiply 1 x 4 x 5 / If line 1 is 0, multiply 2 x 3 x 4 x 5			8,640	64,350	
7 Divide line 6 by 64,350 and multiply by 100		S_{sw} = 13.43			

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FIGURE 7
SURFACE WATER ROUTE WORK SHEET

Air Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	5.1
Date and Location:					
Sampling Protocol:					
If line 1 is 0, the S_a = 0. Enter on line 5. If line 1 is 45, then proceed to line 2.					
2 Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
	Total Waste Characteristics Score			20	
3 Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 / 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
	Total Targets Score			39	
4 Multiply 1 x 2 x 3			0	35,100	
5 Divide line 4 by 35,100 and multiply by 100		S_a = NS			

FIGURE 9
AIR ROUTE WORK SHEET

DRAFT

	S	S^2
Groundwater Route Score (S_{gw})	22.61	511.21
Surface Water Route Score (S_{sw})	13.43	180.36
Air Route Score (S_a)	0.	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		691.57
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		26.30
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		15.20

FIGURE 10
WORKSHEET FOR COMPUTING S_M

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Fire and Explosion Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Containment	(1) 3	1	1	3	7.1
2 Waste Characteristics					7.2
Direct Evidence	0 3	1		3	
Ignitability	0 1 2 3	1		3	
Reactivity	0 1 2 3	1		3	
Incompatibility	0 1 2 3	1		3	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Waste Characteristics Score				20	
3 Targets					7.3
Distance to Nearest Population	0 1 2 3 4 5	1		5	
Distance to Nearest Building	0 1 2 3	1		3	
Distance to Sensitive Environment	0 1 2 3	1		3	
Land Use	0 1 2 3	1		3	
Population Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Buildings Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Total Targets Score				24	
4 Multiply 1 x 2 x 3				1,440	
5 Divide line 4 by 1,440 and multiply by 100		S_{FE} = 0			

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FIGURE 11
FIRE AND EXPLOSION WORK SHEET

Direct Contact Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Incident	0 45	1	0	45	8.1
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 2 3	1	3	3	8.2
3 Containment	0 15	1	15	15	8.3
4 Waste Characteristics Toxicity	0 1 2 3	5	15	15	8.4
5 Targets					8.5
Population Within a 1-Mile Radius	0 1 2 3 4 5	4	8	20	
Distance to a Critical Habitat	0 1 2 3	4	4	12	
Total Targets Score			12	32	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			8,100	21,600	
7 Divide line 6 by 21,600 and multiply by 100		S_{DC} = 37.5			

FIGURE 12
DIRECT CONTACT WORK SHEET

DRAFT

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

Facility Name: NAS Key West

Location: Key West, FL

Site 2, Transformer Oil Disposal Area - Truman Annex

GROUNDWATER ROUTE

1 OBSERVED RELEASE [score = 0]

Contaminants detected (five maximum):

- No evidence of release of a substance of concern to ground water has been recorded.

Rationale for attributing the contaminants to the facility:

- NA*

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern [score = 0]

Name or description of aquifer(s) of concern:

- Hawthorn Formation - Suwannee Limestone

Depth(s) from the ground surface to the highest seasonal level of the saturated zone (water table[s]) of the aquifer of concern:

- Deeper than 900 feet

Depth from the ground surface to the lowest point of waste disposal or storage:

- ≃ 5 feet.

---

*NA = not applicable

Net Precipitation [score = 2]

Mean annual or seasonal precipitation (list months for seasonal):

40"

Mean annual lake or seasonal evaporation (list months for seasonal):

30" (≃ 70% of mean annual precipitation)

Net precipitation (subtract the above figures):

10"

Permeability of Unsaturated Zone [score = 3]

Soil type in unsaturated zone:

- Miami Oolite soil. [Gravel has been added and compacted.]

Permeability associated with soil type:

- [Highly permeable oolite (calcium carbonate and tiny oolids or spherical calcareous grains) soil and subsoil.] Soil has been compacted used as a parking lot, and its porosity and permeability have been substantially reduced.

Physical State [score = 3]

Physical state of substances at time of disposal (or at present time for generated gases):

- Liquid (dielectric fluid from transformers) at time (mid-1950s to 1970) of disposal.

3 CONTAINMENT [score = 3]

Method(s) of waste or leachate containment evaluated:

- No containment. Open to run-off and leaching.

Method with highest score:

- Unsound surface impoundment; highly permeable underground.

4 WASTE CHARACTERISTICS

Toxicity and Persistence [score = 18]

Compound(s) evaluated:

- Primarily, polychlorinated biphenyls (PCBs).

Compound with highest score:

- PCBs

Hazardous Waste Quantity [score = 2]

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (give a reasonable estimate even if quantity is above maximum):

- ≃ 80 drums

Basis of estimating and/or computing waste quantity:

- A 1982 inventory listed 3100 gallons of PCB fluids in NAS-Key West
- Estimated for the 1950-1970 period a disposition of 200 gallons per annum, it could be approximately (4,000 gallons) 80 drums disposed of at the site.

5 TARGETS

Groundwater Use [score = 3]

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

- No freshwater wells exist at NAS Key West. The produced water from the well at Key West (which comes from the under the area aquifer) is not potable. It is used for commercial and recreational purposes.

Distance to Nearest Well [score = 24]

Location of nearest well drawing from aquifer of concern of occupied building not served by a public water supply:

- Key West well.

Distance to above well or building:

- Less than one mile from the well. (score = 3)

Population Served by Groundwater Wells within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

- Key West well; less than 3,000 people.

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and conversion to population (1.5 people per acre):

- NA

Total population served by groundwater within a 3-mile radius:

- Less than 3,000 people.

(score = 3)

SURFACE WATER ROUTE

1 OBSERVED RELEASE [score = 0]

Contaminants detected in surface water at the facility or downhill from it (five maximum):

- No direct evidence of release of contaminants to surface water.

Rationale for attributing the contaminants to the facility:

- Contaminants were disposed of at this site.

2 ROUTE CHARACTERISTICS [score = 0]

Facility Slope and Intervening Terrain

Average slope of facility in percent:

- Less than 3%; about flat.

Name or description of nearest downslope surface water:

- Adjacent south and west areas are bordered by the Atlantic Ocean (Gulf of Mexico) and their downslope is toward the sea water.

Average slope of terrain between facility and above-cited surface water body in percent:

- Less than 3%.

Is the facility located either totally or partially in surface water?

- It is located a few feet above the sea level.

Is the facility completely surrounded by areas of higher elevation?

- No

1-Year 24-Hour Rainfall in Inches [score = 3]

- Approximately 4".

Distance to Nearest Downslope Surface Water [score = 6]

- Adjacent is the sea water

Physical State of Waste [score = 3]

- Liquids

3 CONTAINMENT [score = 3]

Method(s) of waste or leachate containment evaluated:

- None. The site was an open disposal area; a parking lot.

Method with highest score:

—

4 WASTE CHARACTERISTICS

Toxicity and Persistence [score = 18]

Compound(s) evaluated:

- Polychrorinated biphenyls (PCBs)

Compound with highest score:

- PCBs

Hazardous Waste Quantity [score = 2]

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (give a reasonable estimate even if quantity is above maximum):

≃ 80 drums of PCBs fluids were disposed during 1950-1970.

Basis of estimating and/or computing waste quantity:

- A 1982 inventory listed 3100 gallons of PCB fluids in NAS-Key West
- Estimated for the 1950-1970 period a disposition of 200 gallons per annum, it could be approximately (4,000 gallons) 80 drums disposed of at the site.

5 TARGETS

Surface Water Use [score = 6]

Use(s) of surface water within 3 miles downstream of the hazardous substance:

- Locally, the surface run off water from the site is not used; it goes to the sea, which is used for recreation.

Is there tidal influence?

– Yes.

Distance to a Sensitive Environment [score = 6]

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less: <1/2 mi

– In the immediate area are the Great White Heron Wildlife Refuge and the Key West National Wildlife Refuge. The surface waters within these areas are classified as Outstanding Florida Waters and are afforded the highest protection by the State.

Distance to 5-acre (minimum) freshwater wetland, if 1 mile or less:

NA

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

– Within a mile.

Population Served by Surface Water [score = 0]

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

– No surface water is used.

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

NA

Total population served:

NA

Name or description of nearest of above water bodies:

NA

Distance to above-cited intakes, measured in stream miles:

NA

AIR ROUTE

1 OBSERVED RELEASE [score = 0]

Contaminants detected:

- No information was found to indicate that any measurements of air contamination sufficient for HRS scoring purposes have been made.

Date and location of detection of contaminants:

NA

Methods used to detect the contaminants:

NA

Rationale for attributing the contaminants to the site:

NA

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

NA

Most incompatible pair of compounds:

NA

Toxicity

Most toxic compound:

NA

Hazardous Waste Quantity

Total quantity of hazardous waste:

NA

Basis of estimating and/or computing waste quantity:

NA

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0-4 mi 0-1 mi 0-1/2 mi 0-1/4 mi

NA

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

NA

Distance to 5-acre (minimum) freshwater wetland, if 1 mile or less:

NA

Distance to critical habitat of an endangered species, if 1 mile or less:

NA

Land Use

Distance to commercial/industrial area, if 1 mile or less:

NA

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

NA

Distance to residential area, if 2 miles or less:

NA

Distance to agricultural land in production within past 5 years, if 1 mile or less:

NA

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

NA

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

NA

FIRE AND EXPLOSION

1 CONTAINMENT [score = 1]

Hazardous substances present:

- No hazardous substances that could catch fire or explode are present in the site.
- A fire marshal has not certified that the site presents a significant threat.

Type of containment, if applicable:

NA

2 WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

NA

Ignitability

Compound used:

NA

Reactivity

Most reactive compound:

NA

Incompatibility

Most incompatible pair of compounds:

NA

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

NA

Basis of estimating and/or computing waste quantity:

NA

3 TARGETS

Distance to Nearest Population

NA

Distance to Nearest Building

NA

Distance to Sensitive Environment

Distance to wetlands:

NA

Distance to critical habitat:

NA

Land Use

Distance to commercial/industrial area, if 1 mile or less:

NA

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

NA

Distance to residential area, if 2 miles or less:

NA

Distance to agricultural land in production within past 5 years, if 1 mile or less:

NA

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

NA

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

NA

Population within 2-Mile Radius

NA

Buildings within 2-Mile Radius

NA

DIRECT CONTACT

1 OBSERVED INCIDENT [score = 0]

Date, location, and pertinent details of incident:

- There is no information of any direct contact incidents.

2 ACCESSIBILITY [score = 3]

Describe type of barrier(s):

Barriers do not surround the site.

3 CONTAINMENT [score = 15]

Type of containment, if applicable:

The site is an old open transformer-oil disposal area. No containment exists there.

4 WASTE CHARACTERISTICS [score = 3]

Toxicity

Compounds evaluated:

- Primarily, polychlorinated biphenyls (PCBs).

Compound with highest score:

- PCBs

5 TARGETS

Population within 1-Mile Radius [score = 2]

- Less than 1000.

Distance to Critical Habitat of Endangered Species [score = 1]

- Less than 1 mile.