		Confirmation
WFITATIL	CLeJ	01.02-03/06/81-00226
		IIIC

SITE NUMBER

,				
SECTION	777	DETAIL CO	DYC00041	* ****
SELLION.	1 1 1	11F 1 A 1 1 F 1 1	HIVVINAL	INFORMATION
	* * * *	UL 1711 LLU	DIG COME	THE OWNER TOR

_		
_	11	
/-	707	')
(2		_
1		7 C
		<i></i>

This section should be completed only if active or past disposal sites were identified in section II. Section III should be completed for each site. As an example, say your activity has three sites. Make three copies of section III and complete them. Assign a number to each site (1, 2, and 3) and enter it in the upper right-hand corner.

Is thi	is disposal site currently in operation	or has it been closed?
Years	of operation: From early to must - 1950's	To ~1976
^ ^	ls/was the name of the site (e.g., slur le Range Chemical Dump	ry pit)?
Where coordi	is/was the site located (provide a des pares)? Ipproximatel, 3 miles east sout	
	17 and NC highway 210 at Map c	f i
		1.64
Descrii	be how the site is/vas operated. found	d chemical agent (gas) testin
(fire	; malathion day drum (55 gal es dand unfired) from apparent War	Games a report of chamical min
on for	Lest 2 opposeums ; report of fir	syntoms and possib
who	, upon unearthing material that	+ formed a white abound of
he i	yed burned boles and depression to detionation of buried material	freeze during
due!	to delivation of buried materia	(see #12) (Continued) WH

(ACONT.) Thetal containers of work material generally placed in the bottom of henches duy for this purpose with a backhoe. Trenches were duy as deep as possible,

The few of the second of the s

ACITYI-IT	
	uic
•	SITE NUMBER
SECTION III. DETAILED DISPOSAL INFORMATION (CONTIN	(UED)
5. If the site was closed, briefly describe the cl	losure procedures.
- sandy sole soils, a moderal	te slope
- CW training vials	
- sandy sole soils, a moderal - CW training vials - younger trees in reported as	en of fill.
	V
	·

6. As well as possible, describe the wastes that entered the site. see attached memo

Type of Waste

Quantity

Origin

During the visit in March at Camp Jegeme Washere Eakes contacted Mr. floor Tallman in Florida and Mr. Ed Carper who now lives in Judiana. Mr. Carper did not have much information. Most came from floor Tallman. As the memo shows there was a plat of area showing lot numbers + Chemicals buried, This has been lost.

Walles Charlie Feelows & I visited site March 20. We found evidence of miderials CF reports on p. 1 of this form. There were a number of old gas testing leits found, but according to FOD specialist Jerome H. Witt none contained any agent. We did see one wooden crote ~ 12×24 ×12" with some white grammer powder. These area was vegetated with secondary growth. Evidence of sattling also apparent. Plowing for frebreak his turned up sed debris. Some evidence that training exercises had taken place in and about dump area. There was no sign of dump across access road. There were signs of training it fox hales etc.

Jenny Walmey a from Sant Div. Samples were to be partially

assumed for priority poetutants. High THM volves > 100 ppb were assumed to be mostly from precularisation procedures at water plant. Test weeks # 15,16,17 located at site.

	UIC CLINC
	SITE NUMBER /
SEC	TICH III. DETAILED DISPOSAL INFORMATION (CONTINUED)
7.	Describe the site's hydrogeology, including information on terrain, soils, water table depth, groundwater quality, nearby surface waters, etc.
	The growtvater movement in this area of
	moderate slopes and sandy soils will be in
	several directions and controlled largely by topography.
	I expect go is moving to the NW (mall crook) and NNW
	(New River). Some flow is probably to the steep slope on
	the SE
,	
2.	Eriefly describe animal and plant life surrounding the site, including any peculiarities (e.g., dying plants).
2.	
•	
9.	Do personnel live or work near the site? Please explain.

ACTIVITY ____

•	ACTIVITY
•	UIC CL/NC
	SITE NUMBER/
ECT	ION III. DETAILED DISPOSAL INFORMATION (CONTINUED)
0.	Have there been any incidents or complaints concerning this site? Explain.

1.	How close is the site to the activity's boundaries?
2.	Additional coments furied here are: DDT; PCB's
	one bull dozen operator said he buried drums at var
- .	time at least 10 feet felow ground level
	Reference photographs: Rael & (MKH-8) negative #'s 33-37;
	Rael 9 (MKH-9) negative # 1-8 See notes in photo log, Also. > CRF-1 frames # 11-18 from ground
	Also. > CRF-1 frames#11-18 of from ground CRF-2 11 #8-10 of ground CRF-4 11 #4-19 of from air

A niemo prepared by Mr. Don Tallmen referenced to chemical land file. at Camp Sejenne.

showing lot numbers and chemicals buried in those lots were listed in the folder (quantity, contents and all amounts buried in area) shadowed in red on plat. This continued until approximately 1973 when correspondence was directed to CG, Attention Assistant Chief of Staff, Facilities from Base Safety Manager requesting guidance and advice as to whether this dump site should continued to be used or to be channeled in another direction, new location, etc. The response to this was to kim continue same procedure and include chemicals from the Air Station.

In 1974, B05100.13B was published to include Air Station. This procedure continued until 1975-1976. NREA requested all information for review. The folder containing all records was turned over to NREA. The folder was returned. Absent from the folder was the plat and could not be located. At that period, a new plat was developed listing all deep deposits of chemical wastes in landfill and was shadowed in red as was the original plat. Sometime later this folder was turned over to Base Maintenance, NREA people upon their request and they assumed control of the chemical disposal area. Since that I have no knowedge of what has transpired in that area. COMMON CHEMICALS buried in the dump were:

DDT - estimated quantity - 50 barrels

Trichlorethylene sludge - estimated quantity unknown $\begin{array}{c} & \text{VARSOL} \\ \text{Used varisal (cleaning purposes)} \end{array}$

Calcium hyprochloride - HTH

Wood preservative (Carpenter Shop) vats emptied in landfill #2 Fuel oil sludge

PCB - buried in concrete septic tanks, sealed according to instructions from EPA - 3-4 tanks)

,	/							LE IDE	NTIFIC	CATIO	N N		
r.,	D LANTDIV 9-11330/3 (4-75)	T-1827-V-1	<u> </u>			COL	AMPLE LECTION DATE	٧	SAMPL COLLECT TIME	ION	SAMPLE STATIO NUMBER	N	
L #1	TW-15		Clom	ical dump		MONTH	DAY	YEAR	0 . 2 40				
					-						1_1_		_
	PARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE	PARAMETER DESCR	I P FION	UNITS	DATA ELEMEN NUMBER		V.A	LUE		
	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530	·	ALUMINUM, TOTAL	Ä	MG/L	01105					-
S01.10S	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500		ARSENIC, TOTAL		MG/L	01002					
SOL	SETTLEABLE SOLIDS (SETTLEABLE RESIDUE)	ML/ L/HR	00545		CADMIUM, TOTAL		***	01027		0.	005		8
	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	×	70300	80.0	CHROMIUM, TOTAL		** X	01034		0.	02		8
	N-AMMONIA (AS N)	MG/L	00610		COPPER, TOTAL		MG/L	01042					
	N-NITRATE TOTAL (AS N)	**X	00620	0.37	FRON, TOTAL	-	MG/L	01045				TALS	
S	N-NITRITE TOTAL . (AS N)	MG/L	00615		LEAD, TOTAL		* \%\c	01051	1	0.	005	AVY MET	ľ2
ょ厂	TOTAL N (KJELDAHL)	MG/L	00625		MAGNESIUM, TOTAL		мс∕∟	00927				HEA	
	RTHOPHOSPHATE (AS PO ₄)	MG/L	00660	-	MANGANESE, TOTAL		MG/L	01055	5				
	TOTAL PHOSPHORUS (AS P)	MG L	00678		MERCURY, TOTAL		MG/L	71900					
	SULFATE	MG/L	00945		POTASSIUM, TOTAL		MG/L	00937					
	PH LABORATORY	X	00403	5.90	SILVER. TOTAL		MG/L	01077			•		
	CHLORIDE	MG/-	00940		ZINC, TOTAL		MG/L	01092	2		•		
TER	TURBIDITY LAB	JTU/ FTU	w0072		TOTAL COLIFORM		MFC/ 100ML	31500	3				
PARAMETER	800	×	00310	40.0	FECAL COLIFORM		MFC/ 100ML	31616				1 F ORM	
- 1	COD	X	00340	134.69	TOTAL COLIFORM		MPN / 1 OOML	31506	3			COLI	
EGORI.	тос	X	00680	7.8	FECAL COLIFORM		MPN / 100ML	31620					
NON-CATEGORIZED	DIE AND GREASE	X	70350	1.0	Organic Nits	togen	X	1		6	84	ETERS	12
Ö	PHENOLS	X	32730	20.005	0	0						PARAMETERS	
	V BAS	MG/L	38260									ADD IT I ONAL	
	CYANIDE	MG/L	00720									ADD	
			<u> </u>										
,	W. H. Gen.	m. 5						2	-1.5	- 7	9 30 ⁵		

	•				Į		SAMP	LE IDEN	ITIFICATI	<u> </u>	<u> </u>
	LANTDIV 9-11330/3 (4-75)				_	COL	AMPLE LECTION		SAMPLE OLLECTION TIME	SAMPL STATIONUMBE	ON
	TW-1	6	chom	ical Dung		MONTH	DAY	YEAR	0-2400		
-113							<u> </u>		: 		1.
Ρ	ARAMETER DESCRIPTION	UNITS	DATA ELEMENT NUMBER	VALUE	PARAMETER DESCR	IPTON	UNITS	DATA ELEMENT NUMBER	1	/ALUE	
	TOTAL SUSPENDED SOLIDS (NON FILTERABLE RESIDUE)	MG/L	00530		ALUMINUM, TOTAL	3	MG/L	01105			T
	TOTAL SOLIDS (TOTAL RESIDUE 103-105°)	MG/L	00500	÷	ARSENIC, TOTAL		MG/L	01002]
	SETTLEABLE SOLIDS " (SETTLEABLE RESIDUE)	ML/ L/HR	00545		CADMIUM, TOTAL		мф	01027	<0	.005	1
	TOTAL DISSOLVED SOLIDS (FILTERABLE RESIDUE)	X	70300	130.0	CHROMIUM, TOTAL		MX.	01034	8	. 08	
Ť	N-AMMONIA (AS N)	MG/L	00610		COPPER. TOTAL		MG/L	01042			7
	N-NITRATE TOTAL	*X'	00620	0.04.	IRON, TOTAL	** <u>-</u>	MG/L	01045			٦
-	N-NITRITE TOTAL (AS N)	MG/L	00615		LEAD, TOTAL		***_\(^1	01051	0.2	215.	
	TOTAL N (KJELDAHL)	MG/L	00625		MAGNESIUM, TOTAL	· · · · · · · · · · · · · · · · · · ·	MG/L	00927			-
	RTHOPHOSPHATE	MG/L	00660	-	MANGANESE, TOTAL	···	MG/L	01055	1		1
	TOTAL PHOSPHORUS	M/G/L	00678		MERCURY, TOTAL		MG/L	71900			1
	SULFATE	MG/L	00945		POTASSIUM, TOTAL		MG/L	00937			1
<u> </u>	PH LABORATORY	X	00403	6.2	SILVER, TOTAL		MG/L	01077		· · · · · · · · · · · · · · · · · · ·	1
-	CHLORIDE	MG/L	00940		ZINC, TOTAL		MG/L	01092			1
-	TURBIDITY LAB	JTU/ FTU	w0072		TOTAL COLIFORM		MFC/	31503	 		T
-	BOD	~X	00310	32.0	FECAL COLIFORM		MEC/ 100ML	31616			٦
F	COD	X	00340	215.87.	TOTAL COLIFORM	<u> </u>	MPN /	31506		 • • • • • • • • • • • • • • • • • •	_
\mid	TOC	×/-	. 00680	12.4	FECAL COLIFORM		MPN / 100ML	31620			1
-	OIL AND GREASE	X	70350		Organic Ni	France	X		8	.36	Ť
-	PHENOLS	X	32730	20.005	Jan)					-
-	MBAS	MG/L	38260								
-	CYANIDE	MG/L	00720								
			<u> </u>	<u> </u>	ш		<u> </u>	1.11.1	<u> </u>		
	01111 Jan		, , ,					1.418	7-/5	- 74	===

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DATE: 6 March 1981

ROM Ms. Betz, Water Quality Control Lab., N. R. E. A. Div.

TO Memorandum for the Record

SUBJ TLZ Owl

INCL (1) Table of Readins Taken at TLZ Owl on 3 March 1981

(2) Maps of Sample Points at TLZ Owl

1. On 3 March 1981, Ens. B. Kalisch of the Preventive Medicine Unit, Naval Regional Medical Center, Mr. R. J. Andrews of the Base Safety Office, Marine Corps Base, and Ms. E. A. Betz of the Quality Control Laboratory, Natural Resources and Environmental Affairs Division, Base Maintenance Department, Marine Corps Base, went out to TLZ Owl, pass the old Chemical Landfill, to take a look. Everyone wore a Film Badge obtained from the N. R. M. C.

2. Ens. Kalisch carried a Pulse Rate Meter with a Cintillation Probe, Serial 180. The cystal in the Cintillation Probe interacts with Gamma Rays emitted by a sample to produce light pulses. The meter counts the number of light pulses per minute to produce reading of counts per minute. The laverage background reading out on the dirt so been 2000-4000 counts per minute with this meter. Enclosure (1) is a list of twenty readings taken by Ens. Kalisch on 3 March 1981, with the above mentioned meter and probe. Enclosure (2) is a map showing the approximate locations of the twenty readings.

Elizabeth A. Betz Supervisory Chemist

cc- Mr. Sharpe, Ecologist, N. R. E. A. Div.

Ens. Kalisch

Mr. R. J. Andrews

12

READINGS TAKEN AT TLZ OUL ON 3 MARCH 1581

Sample	Surface Reading	Depth of	Reading
#1	5800	10 ¹¹	10000
#2	6000	10 ¹¹	9500
#3	5500	10"	8500
#4	5500	10 ¹⁰	8500
#5		10 ¹⁰	9000
#6	5000	10°	8000
# 7	6000	10**	9500
#8	4000	10 ⁿ	5500
#9	6000	10 [#]	9700
\$10	5700	10"	8700
#11	5600	10**	9000
#12	5700	10**	9300
#13	5500	10**	9000
#14	5500	10 ¹⁰	8800
#15	5300	10#	8000
# 16	4700	10**	6400
#17	5300	30 ^M	9300
9 18	4800	25 [#]	7700
#19	600 0	6 #	8700
#20	5300	20**	8000

orandum for the Record

From: Ms. Betz, Quality Control Lab., NREAD, HMaintDept

Subj: Hazardous Waste Sampling on 10 April 1981; Results of

1. Below are the results of the hazardous waste sampling on 10 Epril 1981, at the chemical landfill, received from LANTNAVFACENGCOM over the phone by Ens. Kalisch, Environmental Health Officer, Preventive Medicine Unit, Naval Regional Medical Center.

Test Well 15		
	Methylene chloride	-2 ppb
Test Well 16	1.1-Dichloroethane	38 ppb
169C MOTT TO	Methylene chloride	13 ppb
	1.2-Dichloroethane	52 ppb
	1,1-Dichloroethylene	73.6ppb
	Toluene	51.8ppb
. Below Test W		
	Mathylene chloride	3.4ppb
The second of th		
Rad Pool	1,1-Dichloroethane	2.0ppb
	Methylene chloride	2.4ppb
Pool with Barrel		
	Benzene	1.Oppb
	Toluane	181 ppb
	1,1-Dichloroethane	176 ppb 103 ppb
	1,1,1-Trichloroethane 1,2-Dichloroethane	101 ppb
	1,1-Dichloroethylene	258 ppb
	1,1,2-Trichlesoethane	252 ppb
	Chleroform	34.6ppb
	Methylene chlorede	37 ppb
	Trichlorosthylens	141 ppb
Stream Bed Balow,	, Behind Dump about 100 yds SSE	or Test Well I/
	Methylene chloride	14 pppb - 5.8ppb -
	Tetrachloroethylene	2.oppu

Tidal Marsh at End of Road Clean

th of Stram at Everett Creek.

- Drinking Water Well Methylene chloride

4.Oppb

RR 47 - Drinking Water Well

RR 97 - Drinking Water Well Chloroform Methylene chloride

16.6ppb 5.appb 1.appb

RR 85 - Water Treasumnt Plant - Treated Water Chloroform

Methylene chloride

Trichloroethylene

17 ppb 3.0pbb

Cualital State

Elizabeth A. Bees

Supervisory Chemist

Summary by Wallace Eakes Chamical Dump (RR) & Dump established in early to mid 50185 In Early Days Marine unikes used the Dump for HAZ Materials B Mrs. Ed CARPER (1959-65) Had Admin Control of Dump. duy + used to dispose Materials & MR. TAILMAN had solve controlog Dung 1965-75/6 Dump closed ~ 76 (late 70.00) Materials Dungel a melithia · RP - penta Chlorophenal a Duageon ∞ ApT o TCE (mm other PPP clanicals) a Lindame · Chamical test Kits · Canadian o Shoe imprognite (water Repellons) . Maybe agents · UARSOI 6 gas cylinders a Eylinders for Albing Ballooms

O CATIVAS (tents)

O HTHE TOWES

Memorandum for the Record

From: Ms. Betz, Quality Control Lab., NREAD, BMaintDept

Subj: Hazardous Waste Sampling on 20 May 1981; Results of

1. Below are the results of the hazardous waste sampling on 20 May 1981, at hhe chemical landfill, received from IANTNAVFACENGCOM over the phone by Mr. Danny Sharpe. No oficial copy has been received yet.

Test Weel	. 15 Clean			
Test Well	16 Benzens	77.8	ppb	
	Toluene	316	ppb	
	1.1.1-Trichloroethane	33.2	ppb	
	1,1,2,2-Tetrachloroethane	· ·	ppb -	
	Trichloroethylene	15.6	• •	
	2 Same of the second se			
		53.6	nah -	
Rad Pool	Toluene	J	PPD	
		A STATE OF THE STA	7	
Water		Ray		Treated
	1,1-Dichloroethane		ppb	3.4 ppb
1. 1. 1. 1. 1.	Chloroform	53.4	ppb	94.4 ppb
	Methylene Chloride	14.6	ppb	4.0 ppb
	그 그는 사람들은 가장 하다 하다 그 가장 하는 것이 되었다. 그는 사람들은 그리고 있다고 있다고 있다.			· 医子类的 医双磷酸 5000000000000000000000000000000000000

Siesebeahra. Betz Supervisory Chemist

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Pertinent information from fact sheet prepared by C. Sejenne.

MCBul 628) 11 Dec 1980

	ACTIVITY Marine Corps Base, Camp Lejeune UIC 67001	
	•	•
	SITE NUMBER 1	
. 7	TION III. DETAILED DISPOSAL INFORMATION	
	This section should be completed only if active or past disposal sites were identified in section II. Section III should be completed for each site. As an example, say your activity has three sites. Make three copies of section III and complete them. Assign a number to each site (1, 2, and 3) and enter it in the upper right-hand corner.	•
	Is this disposal site currently in operation or has it been closed? Not active	٠.
	Years of operation: From unknown To approximately 1978	
	What is/was the name of the site (e.g., slurry pit)?	
	Toxic chemical dump, Rifle Range Area	•
	Where is/was the site located (provide a description and give activity map ccordinates)? Approximately 3 miles east south east of the intersection of US	•
	Highway 17 and NC Highway 210 at map coordinates 770290. Aboard	
	Marine Corps. Base	
		_
	Describe how the site is/was operated. Toxic materials were buried in co	
	and covered with soil. As a need arose to dispose of a material,	it w
	taken to the site, a hole dug and the container of waste or other	toxi
	material was placed in it and covered with dirt.	
	4	

MCBul 6280 11 Dec 1980

	ACTIVITY Marine Corps Base, Camp Lejeune
	uic <u>67001</u>
	SITE NUMBER 1
	escribe the site's hydrogeology, including information on terrain, soile, ater table depth, groundwater quality, nearby surface waters, etc.
1	he site is located approximately 300 meters southwest of New River
a	t an elevation of approximately 25 ft. above sea level. Based on
8	oils maps developed by Soil Conservation Service, USDA, soils in the
8	rea have the following characteristics. The soil (baymeade) has a
S	andy surface layer approximately 2 ft thick. Below this, materials
.8	are sandy loams or loamy sands with high permeability. Depth to seasonal
ŀ	nigh water table is 3.5-5 ft. The soil has high corrosivity to concrete
ε	and low for steel.
-	
•	
	riefly describe animal and plant life surrounding the site, including any eculiarities (e.g., dying plants).
	The site is surrounded by managed forests consisting of loblolly pine
٤	and various hardwood trees and shrubs. Much of the site is covered with
- - ·	nine sanlings. There are no apparent effects of the site on surrounding
-	regetation.
	o personnel live or work near the site? Please explain. No
	The site is in a relatively remote location and access is restricted
	to authorized personnel.
J	to anthorized programme.
-	
-	