Contractor's Closeout Report Time Critical Removal Action Plan Soil Remediation Operable Unit 11, Site 80 MCB Camp Lejeune Jacksonville, North Carolina

Contract No. N62470-93-D-3032 Delivery Order 0100

Volume II of III

Prepared for:

Department of the Navy Atlantic Division Naval Facilities Engineering Command Norfolk, VA

Prepared by



5335 Triangle Parkway, Suite 450 Norcross, GA 30092

October 1996

OHM Project No. 18319

Appendix C
Waste Manifests



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Required under authority of Act 64 PA 1979, as amended and Act 136 PA

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1979, as amended and Act 136, P.A.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

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MICHIGAN DEPARTMENT OF NATURAL RESOURCES

17 BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGATOR 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE 424-8802 24 HOURS PER DAY.

ALL SPIL' CENTER

DO NOT WRITE IN THIS SPACE DIS. 🗆 ATT. 🗆

REJ. □ PR.□ Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A.

	e pri	nt or type.			OMB No. 2050-0039 Expires 9-30-96
•[UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. Manifest No. Monifest No. Manifest No. Ma	of I is law.	rmation in the shaded areas not required by Federal
Ī	3.	Generator's Name and Mailing Address CAMP LEJEUUE	COMMANDING GENERAL ACIS ENVIRONMENTAL MONT	A State Manifest I	046907 -
•		CAMP LEVELUE NC 2854	7/8 Depti Ton Magois	B. State Generator	's ID
F	<u>4.</u> 5.	Transporter 1 Company Name	6. US EPA ID Number	C. State Transport	
L		ROBBie D. Wood, IN	8. US EPA ID Number	D. Transporter's Pl	
	/.	Transporter 2 Company Name		F. Transporter's Pl	
r	9.	Designated Facility Name and Site Address		G. State Facility's I	D with the second secon
		Michigan Disposal, I 49350 N. I-94 Scevice	Done	H. Facility's Phone	
		Belleville, MI 48111	MI DOOD 1 1 1 8 3 1	(313)694-1120
	11.	US DOT Description (including Proper Sh. HM ID NUMBE		iners 13. Total Type Quantity	Unit No. N/H
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-	J.	Additional Descriptions for Materials Liste	ed Above	K. Handling Codes	s for Wastes a/ //
İ	: -	A. Please Also Add	U.S. EPA WASTE COOK WOLL		b/ /
	•	Approval #03289	LMQ JEIZZ		c/ /
		Consideration and Addition	nal Information I F 50 ill OCC4RS, Refe	0 1 60 6	de Book Falst
	15.	Special Handling Instructions and Additio	24Hl. Emelgency R	Spouse #C	700)424-9300
	16.	GENERATOR'S CERTIFICATION: I hereby declar proper shipping name and are classified, packet	e that the contents of this consignment are fully and accurately ded, marked, and labeled, and are in all respects in proper condition	escribed above by	
		according to applicable international and nation	at I have a program in place to reduce the volume and toxicity	of waste generated	to the degree I have determined
		to be economically practicable and that I have	ve selected the practicable method of treatment, storage, our de- not the environment: OR: if I am a small quantity generator, i. I	snosai currentiv avalla	able to me which minimizes the
		generation and select the best waste management	ent method that is available to me and that I can afford.		Date
		Printed/Typed Name TSMORRIS	Signature Signature	`	Month Day Year 101512181916
7	17.	Transporter 1 Acknowledgement of Recei	ipt of Materials	٠.	Date
RAV		Printed/Typed Name	Signature		Month Day Year
S	18.	Transporter 2 Acknowledgement of Recei	ipt of Materials		Date
R		Printed/Typed Name	Signature		Month Day Year
R	19.	Discrepancy Indication Space			
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A C		* \			· · · · · · · · · · · · · · · · · · ·
니	20	Facility Owner or Operator: Certification of Item 19.	of receipt of hazardous materials covered by this manites	t except as noted in	Date
Ţ		Printed/Typed Name	Signature	/	Month Day Year
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MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Hequired under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

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Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OM8 No. 2050-0039 Expires a-30-96

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	to be economically practicable and that I have selected present and future threat to human health and the engeneration and select the best waste management metho	vironment: OR: if I am a small quanti	ty generator, l	have made a g	ood faith effort	to minimize my	waste
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AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

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IUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MIC 800-424-8802 24 HOURS PER DAY.

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EPA Form 8700-22 (Rev. 9/88)

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PR 5110 Rev. 10 5

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Failure to file is punishable under section 299,548 MCL or Section 10 of Act 136, PA 1969

PR 5110 Rev. 10/92

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LS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN T 1-800-424-8802 24 HOURS PER DAY.

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EPA Form 8700-22 (Rev. 9/88)

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Required under authority of Act 64 PA 1979, as amended and Act 136 PA 1969

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EPA Form 8700-22 (Rev. 9/88)

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PR 5110 Rev. 10/92

Required under authority of Act 64 PA 1979, as amended and Act 136, PA 1969

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Required under authority of Act 64 PA 1979, as amended and Act 136 PA 1969

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Failure to file is punishable under section 299,548 MCL or Section 10 of Act 136, PA 1969

PR 5110

Please	print or type			Form	Approved. OME	No. 2050-00)39 Expires 9-30-9
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REJ. PR. Act 136, PA 1969

Form Approved. OMB No. 2050-0039 Expires 9-30-94

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PR 5110 Rev. 10/92

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MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Rev. 10/92

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MICHIGAN DEPARTMENT OF NATURAL RESOURCES

Rev. 9/881

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Failure to file is punishable under section 299 548 MCL or Section 10 at Act 136, PA 1969

Please print or type Form Approved. OMB No. 2050-0039 Expires 9-30-94 UNIFORM HAZARDOUS 1. Generator's US EPA ID No. Manifest 2. Page 1 Information in the shaded areas is not required by Federal law. NIC6111799122151810188498148 WASTE MANIFEST Generator's Name and Mailing Address
CAMP LE JOUNE A State Manifest Document Number 3905301 Generator's Phone (910) 1451-AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONS 4.3 MAR Acls ENLIRGINAR, +41 B. State Generator's ID and the second Transporter 1 Company Name US EPA ID Number C. State Transporter's ID Robbisce ALIDIOI61711318181916 D. Transporter's Phone 205 744-8 Transporter 2 Company Name E-State Transporter's ID E Transporter's Phone Designated Facility Name and Site Address Micelly AN Dispusal, INC. US EPA ID Number G. State Facility's ID 49330 NJ.94 Seevice ORIVE H. Facility's Phone 3/3/699-7/20 Belleville, MI 48/11 M2701010101712191311 11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER). 12.Comainers 13. L Waste Total Unit No. No. Type Quantity RQ HAZ ARDOUS WASTE Solid, N.O.S., 9, NASOTT, POST (ODT, DOL) b. 0 CHIGAN J. Additional Descriptions for Materials Listed Above Handling Codes for Wastes MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM DAY. A. Please, HISO Add W.SZ 15. Special Handling Instructions and Additional Information IF Spit occurs, REFER to ER. Guidsonk FAJ31 24HR EMPROENCY RESPONSE #(800) 934-936 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway. according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxically of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Printed/Typed MORRIS Signature Month Day 101513101916 Acknowledgement of Receipt of Materials 17. Transporter Date TRANSPORTS Printed Typed Name Signature Day Month Year AST\$10 REPORT 8802 24 H 18. Transporter 2 Acknowledgement or Receipt of Materials Date Printed/Typed Name Signature Month Day 19. Discrepancy Indication Space wher or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Signature

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ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-202-4708 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

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DNR MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Failure to file is punishable under section 299.548 MCL or Section 10 or Act 136, P.A. 1969

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		UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator's US N (6 1 7 0	Doct	Manifest ument No.		rmation in the shaded area- not required by Federa
	3.	Generator's Name and Mailing Address Camp Le Jeune Aug.	ENVÍRONMEN	tal mamz	<u>. мі 📫 4</u>	219787
	1	CAMP 45 JEUNE, N.C., 28547 De	pt _		B. State Generator	
	5.	Transporter 1 Company Name 6.	US EPA ID Number	7 (()	C. State Transport	
		,	144617111318	L	<u> </u>	hone (205) 744-84
	7.	Transporter 2 Company Name 8.	- US EPA ID Number		E. State Transport	
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		219350 N. I. 94 SCRUICE DRIVE Relleville MT 48/11	7010101017214		1. Facility's Phone	
	11.	. US DOT Description (including Proper Shipping Name, Hazard HM ID NUMBER).	Class, and	12. Contair	ners 13. Total ype Quantity	14. I. Waste Unit No. Wt/Vol N
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EPA Form 8700-22 (Rev. 9/88)

DNR MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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EPA Form 8700-22 (Rev. 9/88)

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PR 5110

Please p	rint or type.					Form Appro	ved. OMB No. 2	2050-0039 Expire
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Failure to file is punishable under section 299.548 MCL or Section 10 or Act 136, P.A. 1969

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MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

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DNR MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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4/9350 N.J-94 Service DR, VE US EPA ID Number G. State Facility's ID H. Facility's Phone nudolopidakibish Belleville, MI 11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER). 12. Containers Total Unit Wt∕Vo Quantity ROHAZARDONS WASTE SUID, 9, NA 3077, PGIII (DDT, DDD ь. E N E R Additional Descriptions for Materials-Listed Above Handling Codes for Wastes b, 1061 Approval 7032896 ma 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consign proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Printed/Typed Day Month 1061014 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Day Month Im long weaver 4 4 18. Transporter 2 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Month Day 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this perilifest Item 19. Date Printed/Typed Name Signature

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1AN AT 1-800-292-4706 OR OUT OF STATE AT 617-373-7660 AND THE NATIONAL RESPONSE

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MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Failure to file is punishable under section 299 548 MCL or section 10 or Act 136, P.A. 1969

							
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"R AT 1-800-424-8802 24 HOURS PER DAY.

DNR MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Form Approved. OMB No. 2050 0039 Expires 9

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MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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LINUTA MICHIGAN DEPARTMENT

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Failure to line is punishable unifer section 299.548 MCL or Section 10 or Aut 136, P.A. 1989.

	J. CATCO	DIS. REJ.		
A	HVI OHAN ARDOUS 1 Cenerator's US	EPA ID No. Manif	Form Appr fest 2. Page 1	oved. OM8 No. 2050 0039 Expires 9-3
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	Generator's Name and Mailing Address	manding General Al	A. State Mar	nifest Document Number
	MARINE CURPS BASE CAMPLESEUNE, NC 28547 DEPT.	LOU, ROMMENT ALL	B. State Gen	<u> 4046933</u>
1 1		Jon Morris US EPA ID Number	5. 5.5.6	
5.			C. State Tran	
-	Transporter 2 Company Name 8.	US EPA 1D Number		··
′	Transporter 2 company Name		F. Transport	nsporter's ID(205) 744-844 er's Phone
9.	Designated Facility Name and Site Address 10.	US EPA ID Number	.G. State Faci	
1 4	7) THISAN DISPOSALING. 9350 N. I-94 SERVICE DRIVE			
$\parallel \parallel \parallel \parallel$		וצעוגורוטטוטטע	7 H. Facility's	1000 1299-7120
11.	JS DOT Description (including Proper Shipping Name, Hazard ID NUMBER).		. Containers 1	I3. 14. K.Waste otal Unit No.
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1_1_	dditional Descriptions for Materials Listed Above			
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16. 0	ENERATOR'S CERTIFICATION: I hereby declare that the contents of the oper shipping name and are classified, packed, marked, and labeled.	is consignment are fully and accura	itely described above by	
а	cording to applicable international and national government regulation	ns. 😁 💮 🔻 💮	Andreas and the Company of the Company	***
} to	I am a large quantity generator, I certify that I have a program in be economically practicable and that I have selected the practical	ble method of treatment, storage	or disposal currently	available to me which minimizer the
g	resent and future threat to human health and the environment; OR eneration and select the best waste management method that is available.	ble to me and that I can afford.	tor, i nave made a go	· · · · · · · · · · · · · · · · · · ·
P	rinted/Typed Name	Signature	7	Date Month Day Yea
7	TS MORRIS	18/11	ani	106/06 96
L	ransporter 1 Acknowledgement of Receipt of Materials	Te:	1	Date
	Stowe Parker	Signature /	Carlle "	Month Day Yea W 1010161918
18. T	ransporter 2 Acknowledgement of Receipt of Materials		<u> </u>	Date
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19. C	iscrepancy Indication Space			
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. F	acility Owner or Operator: Certification of receipt of hazardou	s materials covered by this ma	nifest except as not	ed in
	em 19.			Date
P	JAMES A. V. 70-55	Signature	a. us	Month Day Yea
A Form	8700-22 (Rev. 9/88)	1/1000	n, 42	PR 5110
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Failure to file is pumpoable under section 299,548 MCL or Section 10 or Act 136, 2 A, 1969

A UNIFORM HAZARDOUS					OMB No. 2050 0039	CADIN
WASTE MANIFEST	1. Generator's US E	PA 10 No. DR 1215 13101 8 9			rmation in the sna not required by	
3. Generator's Name and Mailing Address				lavv.	Document Number	
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ALL SPILLS MUST BE REPURTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM "" MICHIGAN AT 1-800-282-4708 OR OUT OF STATE AT 617-373-7660 AND THE NATIONAL RESPO?
CENTER AT 1-800-424-8802 24 HOURS PER DAY.

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CENTER AT 1800-424-8802 24 HOURS PER DAY.

DINKEY MICHIGAN DEPARTMENT OF NATURAL RESOURCES Please print or type.

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ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN 1000-282-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

*700-22 (Rev. 9/88)

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Failure to file is punishable under section 299.548 MCL or Section 10 of Act 13& P.A. 1969.

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NATURAL RESOURCES COMMISSION

LERRY C. BARTINK KETH J. CHARTERS LARRY DEVUIST 'AUT. BSELE MES P. HULL AVID HOLL! JOBY M. SPANO



JOHN ENGLER, GOVERNO DEPARTMENT OF NATURAL RESOURCES

STEVENS T MASON GUILDING, PO BOX 30028, LANSING MI 48908-7523

ROLAND HARMES, Director

REPLY TO: WASTE NANAGEMENT DIVISION PO BOX 30241 LANSING ML 4800-7741

April 26, 1995

Mr. David Lusk
The Environmental Quality Company
1349 South Huron Street
P.O. Box 970320
Ypsilanti, Michigan 48197

Dear Mr. Lusk:

SUBJECT: Regulatory Status of the Envotech Managment Services,

Inc. (EMSI) and Wayne Disposal, Inc. (WDI) Hazardous

Waste Operating Licenses

The term of the hazardous waste operating licenses issued to EMSI and WDI expired on March 30, 1995. The Environmental Quality Company filed timely hazardous waste operating license renewal applications for both facilities. By filing timely renewal applications, the Michigan's Administrative Procedures Act, 1969 PA 306, as amended, allows EMSI and WDI to continue operation under the conditions of their existing licenses until the department makes a final determination on the renewal applications.

If you have any questions, please contact me.

Sincerely,

Kenneth J. Burda, Chief

Hazardous Waste Program Section

Waste Management Division

517-373-0530

cc: Ms. Laura Wally, EQ

Mr. Micheal Busse, DNR-Livonia

Mr. Peter Quackenbush, DNR

Ms. Kimberly Bee-Tyson, DNR

HWP C&E File

State of Michigan Department of Natural Resources

HAZARDOUS WASTE FACILITY OPERATING LICENSE

Name of Licensee: Michigan Disposal, Inc.

Name of Owner: Michigan Disposal, Inc.

Name of Operator: Michigan Disposal, Inc.

Name of Titlehoider of Land: Ford Motor Company

Facility Name: Michigan Disposal, Inc.

Facility Location: 49350 North I-94 Service Drive

Belleville, Michigan 48111

EPA Identification Number: MID 000 724 831

Effective Date:

March 30, 1990

Expiration Date:

March 30, 1995

Authorized Activities

Pursuant to the Hazardous Waste Management Act, 1979 P.A. 64, as amendated rules promulgated thereunder by the Michigan Department of Natural Resources (MDNR), an operating license is issued to Michigan Disposal. Inc. (hereafter called the licensee) to operate a hazardous waste storage and treatment facility located in Belleville, Michigan, at latitude 42°13'30"N and longitude 083°31'00"W. The licensee is authorized to conduct the following hazardous waste management activities:

XX Storage X Container X Tank Wasta Pile Surface	XX Treatment X Tank Surface Impoundment Incinerator	Disposal Injection Well Landfill Land Applicati Surface
Imponuquent Surface	Incinerator Other	Surface

Applicable Regulations:

The conditions of this license were developed in accordance with the applicable provisions of the January 15, 1989 rules under 1979 P.A. 64, as amended:

X Part 2	X R 299.9614	R 299.9623 to
X Part 3	X R 299.9615	R 299.9625
X Part 5	R 299,9616	R Z99_9626
X R 299.9601 to	R 299.9617	X R 299_9627
R 299.9611	R 299.9618	— Part 7
X R 299.9612	R 299.9619 to	Part 8
X R 299.9613	R 299.96Z2	_

License Approval:

The licensee shall comply with all terms and conditions of this license. This license consists of the conditions contained herein (including those in any attachments) and the applicable regulations contained in R 299.9101 through R 299.11008 as specified in the license. Applicable rules are those which are in effect on the date of issuance of this license.

This license is based on the information submitted in the operating license application submitted on January 9, 1986 and any subsequent amendments (hereafter referred to as the application). The facility shall be constructed and/or operated as specified in the application. Any inaccuracies found in this information provides grounds for the revocation or modification of this license (see R 299.9519(6)) and enforcement action. The licensee shall inform the Director of any deviation from or changes in the information in the application which would affect the licensee's ability to comply with the applicable rules or license conditions.

This license is effective on the date of issuance and shall remain in effect for five years from the date of issuance, unless revoked (R 299.9519) or continued in effect as provided by 1969 P.A. 306, as amended, the Michigan Administrative Procedures Act.

Issued this 30th day of March, 1990.

bv

Davidit Hales Director Ability

State of Michigan Department of Natural Resources

HAZARBOUS WASTE FACILITY OPERATING LICENSE

Name of Licensee: Wayne Disposal, Inc.

Name of Owner: Wayne Disposal, Inc.

Name of Operator: Wayne Disposai, Inc.

Name of Titleholder of Land: Ford Motor Company

Facility Name: Wayne Disposal, Inc. Site #2

Facility Location: 49350 North 1-94 Service Dr.

EPA Identification Number: MID048090633

Effective Date: March 30, 1990

Expiration Date: March 30, 1995

Authorized Activities

Pursuant to the Hazardous Waste Management Act, 1979 PA 64, as amended, and rules promulgated thereunder by the Michigan Department of Natural Resources (MDNR), an operating license is issued to Wayne Disposal, Inc. (hereafter called the licensee) to operate a hazardous waste landfill facility located in Belleville, Michigan, at latitude 42°13'30"N and longitude 83°31'00"W. You are authorized to conduct the following hazardous waste management activities:

Storage	Treament	x Disposal
Container Tank	Tank Surface Impound	
Waste Pile Surface	Incinerator Other	Land Application Surface
Impoundment		Impoundment

Audicable Regulations:

The conditions of this license were developed in accordance with the applicable provisions of the September 5, 1985 rules under 1979 PA 64:

<pre>Part 2 Part 3 X R 299.9501 to R 299.9511 X R 299.9512 X R 299.9513</pre>	R 299.9614 R 299.9616 R 299.9616 R 299.9617 R 299.9618 x 9 299.9619 to	R 299.9623 t R 299.9626 X Part 7 Part 8	b R 299.96ZS
---	--	--	--------------

License Approval:

The licensee shall comply with all terms and conditions of this license. This license consists of the conditions contained herein (including those in any attachments) and the applicable regulations contained in R 299.9101 through R 299.11008 as specified in the license. Applicable rules are those which are in effect on the date of issuance of this license.

This license is based on the information submitted in the operating license application submitted on January 9, 1986 and any subsequent amendments (hereafter referred to as the application). The facility shall be constructed and/or operated as specified in the application. Any inaccuracies found in this information provides grounds for the revocation or modification of this license (see R 299.9519(6)) and enforcement action. The licensee shall inform the Director of any deviation from or changes in the information in the application which would affect the licensee's ability to comply with the applicable rules or license conditions.

This license is effective on the date of issuance and shall remain in effect for five years from the date of issuance, unless revoked (R 299.9519) or continued in effect as provided by 1969 P.A. 306, as amended, the Michigan Administrative Procedures Act.

Issued this 30th day of March, 1990.

by

Pavinit Hales, Director Acide



ACCEPTABLE HAZARDOUS WASTE CODES

MICHIGAN DISPOSAL WASTE TREATMENT PLANT AND WAYNE DISPOSAL HAZARDOUS WASTE LANDFILL

D0012	D014	D027	D040	F001	F019	K001	K014	K026	K038	K051	K084	K098	KIII	K131 ²
D002	D015	D028	D041	F002	F034	K002	K015	K027'	K039	K052	K085	K100	K112	K132 ²
D0031	D016	D029	D042	F003	F035	K003	K016	K028	K040	K060	K086	K101	K113	K136
D004	D017	D030	D043	F004	F037	K004	K017	K029	K041	K061	K087	K102	K114	K141
D005	D018	D031		F005	- F038	K005	K018	K030	K042	K062	K088	K103	K115	K142
D006	D019	D032		F006	F039	K006	K019	K031	K0441	K064	K090	K104	K116	K143
D007	D020	D033		F007		K007	K020	K032	K0451	K065	K091	K105	K117	K144
D008	D021	D034		F008		K008	K021	K033	K046	K066	K093	K106	K118	K145
D009	D022	D035		F009		K009	K022	K034	K0471	K069	K094	K107	K123	K147
D010	D023	D036		F010		K010	K023	K035	K048	K071	K095	K108	K124	K148
D011	D024	D037		F011		K011	K024	K036	K049	K073	K096	K109	K125	K149
D012	D025	D038		F012		K013	K025	K037	K050	K083	K097	KIIO	K126	K150
D013	D026	D039		•			- 10							K15I
Treatm	ent Resid	dues, Cor	taminat	ed Dehri	e Smille									
P001	P009	P016	P024	P033	P041	P048	P058	P066	P073	P082	P093	P101	P109	P116
P002	P010	P017	P026	P034	P042	P049	P059	P067	P074	P084	P094	P102	P110	P118
P003	P011	P018	P027	P036	P043	P050	P060	P068	P075	P085	P095	P103	PIII	P119
P004	P012	P020	P028	P037	P044	P051	P062	P069	P076	P087	P096	P104	P112	P120
P005	P013	P021	P029	P038	P045	P054	P063	P070	P077	P088	P097	P105	P113	P121
P006	P014	P022	P030	P039	P046	P056	P064	P071	P078	P089	P098	P106	P114	P122
P007	P015	P023	P031	P040	P047	P057	P065	P072	P081	P092	P099	P108 ²	P115	P123
P008		1 420									. 0,,	1100	, , , ,	
U001	U018	U034	U051	U069	U085	U102	U118	U133	U149	U164	U180	U196	U214	U235
: U002	U019	U035	U052	U070	U086	U103	U119	U134	U150	U165	U181	U197	U215	U236
U003	U020	U035	U053	U071	U080	U105	U120	U135	U151	U166	U182	U200	U215	U237
U004	U020	U037	U055	U072	U088	U106	U121	U136	U152	U167	U183	U201	U217	U238
U005	U022	U037	U056	U073	U089	U100	U122	U130	U153	U168	U184		U217	
•	U022				U090							U202		U239
U006		U039	U057	U074		U108	U123	U138	U154	U169	U185	U203	U219	U240
U007	U024	U041	U058	U075	U091	U109	U124	U140	U155	U170	U186	U204	U220	U243
U008	U025	U042	U059	U076	U092	U110	U125	U141	U156	UI7I	U187	U205	U221	U244
U009	U026	U043	U060	U077	U093	UIII	U126	U142	U157	U172	U188	U206	U222	U246
U010	U027	U044	U061	U078	U094	U112	U127	U143	U158	U173	U189	U207	U223	U247
U011	U028	U045	U062	U079	U095	U113	U128	U144	U159	U174	U190	U208	U225	U248
U012	U029	U046	U063	U080	U096	UI14	U129	U145	U160	U176	U191	U209	U226	U249
U014	U030	U047	U064	U081	U097	UI 15	U130	U146	U161	U177	U192	U210	U227	U328
U015	U031	U048	U066	U082	U098	U116	U131	UI47	U162	UI78	U193	U211	U228	U353
U016	U032	U049	U067	U083	U099	U117	U132	U148	U163	U179	U194	U213	U234	U359
U017	Ū03 3	U050	U068	U084	UIOI									•
001D	001K	001U	012U	024U	036U	048U	059 U	074U	U880	099U	112U	122U	137U	148U
003D	002K	002U	013U	025U	037U	049U	06IU	075U	U89U	100U	113U	124U	138U	150U
		003U	014U	027U	038U	050U	063U	076U	090U	101U	114U	127U	139U	151U
		004U	015U	028U	040U	051U	064U	077U	092U	102U	115U	128U	140U	152U
•		005U	016U	029U	041U	052U	065U	078U	093U	103U	116U	129U	141U	15 3 U
		006U	017U	030U	042U	054U	068U	079U	094U	104U	117U	131U	142U	154U
:		007U	020U	031U	043U	055U	070U	080U	095U	106U	118U	132U	143U	155U
		U800	021U	032U	044U	056U	07 I U	082U	0960	108U	119U	134U	144U	
		009U	022U	033U	046U	057U	072U	083U	097∪	110U	120U	135U	146U	
<u> </u>		011U	023U	034U	047U	058U	073U	086U	098U	111U	121U	136U	147U	:
NT														

Notes

^{1.} Reactive wastes acceptable only after deactivation (D003, K027, K044, K045 and K047).

^{2.} Listings for Michigan Disposal Waste Treatment Plant and Wayne Disposal Hazurdous Waste Landfill are identical, except, P108 is acceptable only at the landfill and D001, K131 and K132 are acceptable only at the waste treatment plant.

Appendix D Disposal Certification

This certificate is to	verify the wastes specified on Manifest #	3905294
have been proper	rly disposed of in accordance with all local, state a	and federal regulations.
"Disposed	of" means either: 1) Burial or 2) Processed as specified	l in 40 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



This certificate is to v	erify the wastes specified on Manifest #	4046901
have been proper	ly disposed of in accordance with all local, state	e and federal regulations.
"Disposed o	of" means either: 1) Burial or 2) Processed as specifi	ied in 40 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		
/		
V		



This certificate is to verify the wastes specified on Manifest #							
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)					
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111						
PHONE NUMBER:	1-800-592-5489						
FAX NUMBER:	1-800-592-5329						
Authorized Signature:	9	······································					



This certificate is to v	verify the wastes specified on Manifest #	4046906
have been proper	ly disposed of in accordance with all local, sta	ate and federal regulations.
"Disposed o	of" means either: 1) Burial or 2) Processed as spec	ified in 40 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plan (EPA I.D. # MID000724831)	mt Wayne Disposal, Inc (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:	A	



	ify the wastes specified on Manifest #disposed of in accordance with all local, state and	federal regulations
	" means either: 1) Burial or 2) Processed as specified in	•
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



have been proper	verify the wastes specified on Manifest #4040 Ply disposed of in accordance with all local, state and sof" means either: 1) Burial or 2) Processed as specified in a	federal regulations.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:	for a f	



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have been proper	verify the wastes specified on Manifest #	Federal regulations.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



This certificate is to verify	the wastes specified on Manifest #	4046911
have been properly di	sposed of in accordance with all local, state a	and federal regulations.
"Disposed of" n	neans either: 1) Burial or 2) Processed as specified	l in 40 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	-
FAX NUMBER:	1-800-592-5329	
Authorized Signature:	for ~ [//	



This certificate is to v	verify the wastes specified on Manifest #	40469172
have been proper	ly disposed of in accordance with all local, state and	federal regulations.
"Disposed o	of" means either: 1) Burial or 2) Processed as specified in	40 CFR et seq.
EACH ITW MANGE	X	D
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



	rerify the wastes specified on Manifest # 39 It disposed of in accordance with all local, state and the second state and the second state are second state.	
"Disposed o	of" means either: 1) Burial or 2) Processed as specified in 4	10 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



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This certificate is to v	verify the wastes specified on Manifest #	3905796
-	ly disposed of in accordance with all local, state and of" means either: 1) Burial or 2) Processed as specified in	•
Disposed	g means either. Ty Burial or 2) Trocessed as specified in	40 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



This certificate is to verify the wastes specified on Manifest #			
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc (EPA I.D. # MID048090633)	
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111		
PHONE NUMBER:	1-800-592-5489		
FAX NUMBER:	1-800-592-5329		
Authorized Signature:	An mil		



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This certificate is to verify the wastes specified on Manifest #			
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plan (EPA I.D. # MID000724831)	t Wayne Disposal, Inc. (EPA I.D. # MID048090633)	
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111		
PHONE NUMBER:	1-800-592-5489		
FAX NUMBER:	1-800-592-5329		
Authorized Signature:			



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have been proper	verify the wastes specified on Manifest #	nd federal regulations.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



have been properly	ify the wastes specified on Manifest #39 disposed of in accordance with all local, state and if means either: 1) Burial or 2) Processed as specified in 4	federal regulations.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



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This certificate is to ver	rify the wastes specified on Manifest #	3901304
have been properly	disposed of in accordance with all local, sta	te and federal regulations.
"Disposed of	" means either: 1) Burial or 2) Processed as speci	fied in 40 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plan (EPA I.D. # MID000724831)	Wayne Disposal, Inc (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



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This certificate is to v	erify the wastes specified on Manifest # 390	<u>\$303</u>
have been proper	ly disposed of in accordance with all local, state and f	ederal regulations.
"Disposed o	of" means either: 1) Burial or 2) Processed as specified in 40	0 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



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This certifica	te is to veri	fy the wastes specified on Manifest #	3505302	
have bee	n properly o	disposed of in accordance with all local,	state and federal re	egulations.
"1	Disposed of"	means either: 1) Burial or 2) Processed as s	pecified in 40 CFR et	seq.
FACILITY NAME (Please check one)	3:	Michigan Disposal Waste Treatment (EPA I.D. # MID000724831)	Plant	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:		49350 N. I-94 Service Drive Belleville, Michigan 48111		
PHONE NUMBER	₹:	1-800-592-5489		
FAX NUMBER:		1-800-592-5329		
Authorized Signatu	ıre:			
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This certificate is to verify the wastes specified on Manifest #			
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc (EPA I.D. # MID048090633)	
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111		
PHONE NUMBER:	1-800-592-5489		
FAX NUMBER:	1-800-592-5329		
Authorized Signature:			



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have been proper	erify the wastes specified on Manifest #	federal regulations.
2.07		, and the same of
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



have been proper	verify the wastes specified on Manifest #	-
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Dispo
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



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This certificate is to v	erify the wastes specified on Manifest #4	219798	
have been properly disposed of in accordance with all local, state and federal regulations. "Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.			
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)	
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111		
PHONE NUMBER:	1-800-592-5489		
FAX NUMBER:	1-800-592-5329		
Authorized Signature:			



"Disposed o	of" means either: 1) Burial or 2) Processed as specified in 4	10 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA 1.D. # MID000724831)	Wayne Dis (EPA I.D. # MII
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
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Authorized Signature:		



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PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



This certificate is to v	erify the wastes specified on Manifest #4	219791
have been properl	y disposed of in accordance with all local, state and	federal regulations.
"Disposed o	f" means either: 1) Burial or 2) Processed as specified in 4	10 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



This certificate is to v	verify the wastes specified on Manifest #	4046946
have been proper	ly disposed of in accordance with all local, state and	federal regulations.
"Disposed o	of" means either: 1) Burial or 2) Processed as specified in	40 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
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FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, In (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



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FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



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	ans either: 1) Burial or 2) Processed as specifi	
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



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ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



This certificate is to ve	erify the wastes specified on Manifest #	3940076
have been properl	y disposed of in accordance with all local, star	te and federal regulations.
"Disposed o	f" means either: 1) Burial or 2) Processed as speci	fied in 40 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plan (EPA I.D. # MID000724831)	t Wayne Disposal, Inc (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



This certificate is to v	verify the wastes specified on Manifest #	3900792
have been proper	ly disposed of in accordance with all local, state and	d federal regulations.
"Disposed o	of" means either: 1) Burial or 2) Processed as specified in	1 40 CFR et seq.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, In (EPA l.D. # MID048090633
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		
Authorized Signature:		



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FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
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PHONE NUMBER:	1-800-592-5489	
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Authorized Signature:		



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FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plan (EPA I.D. # MID000724831)	t Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



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FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
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ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
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FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



have been properl	erify the wastes specified on Manifest #404 y disposed of in accordance with all local, state and to f" means either: 1) Burial or 2) Processed as specified in 4	federal regulations.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
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PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



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FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-592-5329	
Authorized Signature:		



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FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, In (EPA I.D. # MID048090633	
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111		
PHONE NUMBER:	1-800-592-5489		
FAX NUMBER:	1-800-592-5329		
Authorized Signature:			



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ADDRESS:	49350 N. I-94 Service Drive	

Belleville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-592-5329

Authorized Signature:



This certificate is to verify the wastes specified on Manifest # 4046939 have been properly disposed of in accordance with all local, state and federal regulations. "Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.			
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Pla (EPA I.D. # MID000724831)	wayne Disposal, Inc. (EPA I.D. # MID048090633)	
ADDRESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111		
PHONE NUMBER:	1-800-592-5489		
FAX NUMBER:	1-800-592-5329		
Authorized Signature:			



Appendix E QC Documentation

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May 14, 1996

Baker Environmental, Inc. Airport Office Park, Building 3 420 Rouser Road Coraopolis, Pennsylvania 15108

(412) 269-6000 FAX (412) 269-2002

Commander Atlantic Division Naval Facilities Engineering Command 1510 Gilbert Street(Building N-26) Norfolk, Virginia 23511-2699

Attn:

Ms. Katherine Landman

Navy Technical Representative

Code 18232

Re:

Contract N62470-89-D-4814

Navy CLEAN, District III

Contract Task Order (CTO) 0274 Operable Unit No. 11 (Site 80) MCB Camp Lejeune, North Carolina

TCRA Remedial Levels

Dear Ms. Landman:

This letter presents the revisions to the estimated remediation levels chosen for the Time Critical Removal Action (TCRA) at Operable Unit (OU) No. 11 (Site 80), MCB Camp Lejeune, North Carolina. The Department of the Navy (DoN) and Marine Corps, in conjunction with USEPA Region IV and the State of North Carolina, selected remediation levels for the pesticide contaminated soil at Site 80 in December 1995.

The DoN and Marine Corps have considered and adopted changes to the estimated remediation levels to increase the cleanup efficiency and cost-effectiveness while ensuring protection of human health and the environment. The changes in the remediation levels have been agreed to by USEPA Region IV and the State of North Carolina.

Before implementing the soil remedy at Site 80, discussions were held among the DoN, Marine Corps, USEPA Region IV, the State of North Carolina, the design contractor, and the remediation contractor. After a review of the estimated remediation levels, which were estimated based on the human health risk assessment, it was necessary to revise the remediation levels to reduce the volume of soil requiring excavation and disposal. The remediation levels presented in the Basis of Design were based on an ingestion rate of 480 mg/kg, which is a default value provided by the USEPA to be applied to a commercial landscaper. This value was determined to be too conservative given the nature of activities conducted at this site. Consequently, a more plausible ingestion rate of 200 mg/kg was applied. This value is a default published by the USEPA for adult ingestion of soils.

The revised remediation levels are provided as Attachment A. These revised remediation levels will reduce the volume of soil at Site 80 requiring excavation and disposal, thus providing a cost savings while maintaining protection of human health and the environment.

Baker

Ms. Katherine Landman May 14, 1996 Page 2

The DoN, Marine Corps, USEPA Region IV, and State of North Carolina have discussed the revised remediation levels and have concurred.

If you have any comments or questions, please contact me at (412) 269-2053.

Sincerely,

BAKER ENVIRONMENTAL, INC.

Motthew D. Rottman

Matthew D. Bartman Activity Coordinator

MDB/lq

cc:

Ms. Lee Anne Rapp, P.E., Code 18312 (letter only)

Ms. Beth Collier, Code 02115 (letter only)

Mr. Neal Paul, IRP Director, MCB Camp Lejeune (w/attachment)

Ms. Gena Townsend, USEPA Region IV (w/attachment)

Mr. Patrick Watters, NC DEHNR (w/attachment)

Mr. Jim Dunn, OHM Corporation (w/attachment)

Lt. Cheryl Hansen, ROICC, MCB Camp Lejeune

. Attachment A Current and Revised Remediation Levels for Pesticide Contaminated Soils Operable Unit No. 11 (Site 80) MCB Camp Lejeune, North Carolina

Contaminant	Current Remediation Level	Revised Remediation Level
Aldrin	35 ug/kg	340 ug/kg
Dieldrin	37 ug/kg	360 ug/kg
4,4'-DDD	2484 ug/kg	2400 ug/kg
4,4'-DDT	1753 ug/kg	1700 ug/kg
Chlordane	459 ug/kg	4400 ug/kg

15319



DEPARTMENT OF THE NAVY

OFFICER IN CHARGE OF CONSTRUCTION RESIDENT OFFICER IN CHARGE OF CONSTRUCTION NAVAL FACILITIES ENGINEERING COMMAND CONTRACTS 1005 MICHAEL ROAD CAMP LEJEUNE NC 28547-2521 TELEPHONE NO: 910-451-5821 FAX - 910-451-5899 IN REPLY REFER TO: N62470-93-D-3032 Delivery Order 0100 JAX/A13/jjy 9 Jul 96

OHM Remediation Services Corporation 5335 Triangle Parkway, Suite 450 Norcross, Georgia 30092

Re: Contract N62470-93-D-3032, Delivery Order 0100, Time Critical Removal

Action for Pesticide Contaminated Soils, Site 80, Marine Corps Base, Camp

Lejeune, North Carolina

Gentlemen:

An inspection of the work on Site 80 (Golf Course) was conducted on 18 June 1996 for the purpose of establishing Government acceptance. The attached Acceptance Report provides a list of the facilities accepted, the attendees present, and the discrepancies noted during the inspection.

You are requested to proceed promptly in the correction of these deficiencies so as not to interfere with the use of the facility by the Government. This office shall be notified when corrective action has been completed in order to verify that work is in accordance with contract requirements. Your firm is expected to complete the work for verification within 30 calendar days. If for some reason the corrective action(s) will not be completed within the 30 day period, your firm shall notify this office, in writing, within 10 calendar days of receipt of this letter.

Government acceptance does not relieve your firm of the responsibility to complete the corrective work, nor does acceptance waive any of the remaining requirements of the referenced contract.

Your continued cooperation is appreciated.

Sincerely,

C.'M. HANSEN LT. CEC. USN

Assistant Officer

in Charge of Construction

Encl:

(1) Government Acceptance Report

Copy to:

Base Maintenance w/o encl.

GOVERNMENT ACCEPTANCE REPORT (BOD)		Swinson	(H)
ROICC JAX NC AREA, MCB, CAMP LEJEUNE			77
	(BOD Acceptance establishes the contract beneficial occupancy date)	10CS	
DATE: 6/1	8/94		
93-D-303	Z DELIVERY CRIDER OI	00	
TIME CRITICAL R CONTAMINATED,	EMOVALACTION FOR PESTICI	DE	
Building/Facility Accepted:	SITE EDO, (GOLF COURSE	=)	
F	OR WARRANTY ADMINISTRATOR		
Contractor CHT 1	CENEDIATION SERVICES C	CRP.	
Address 5335 -	TRIANGLE PARKULY, SUI	TE 450	p
NORCI	2035, GENRAID 3009Z	_	
Home Office Phone			
Contractor's FAX			
BMO/Customer Lawy L. Applitus	BOD INSPECTION ATTENDEES (please sign) Contractor OI	CC/BOICC	
	(Attach	Punchlist)
COMMENTS: EXIST. TRAILER TO BE RELOCATED BY			
CONTRACTOR AS DIRECTED BY			
	MACIED CURB AT WASH PAD.	COURT A	LERS.
FINAL COMPLETE CERTIFICATION I hereby certify that on this date,			
AROICC	CONREP		



Mr. Patrick Waters North Carolina DEHNR 401 Oberlin Rd.. Suite 150 Raleigh, N C. 27605-1350

Re:

Remediation Levels - Site 80 Pesticide Removal Action

Dear Patrick:

As discussed in our teleconference this morning, please find enclosed two drawings which depict the results of the pre-screening which has been performed at Site 80. Above the title block of each drawing we have indicated a level of contamination which has been used to determine whether or not a particular sampling grid is shown clear or shaded.

The drawing with the remediation level of 37 parts per billion represents approximately 1900 tons of material which will require offsite disposal at an estimated cost in excess of \$900,000. The second drawing with the remediation level of 360 parts per billion represents approximately 950 tons of material which will require offsite disposal at an estimated cost of approximately \$633,000.

We trust you will find these drawings beneficial in your review of the Site.

Yours truly,

OHM Remediation Services Corp.

James A. Dunn, Jr., P.E.

Senior Project Manager

pc: Kate Landman, Code 18232

Lt. Cheryl Hansen, AROICC

Neal Paul, EMD/IR

Matt Bartman, Baker Gena Townsend, EPA



April 22, 1996

Lt. Cheryl Hansen, AROICC Navy Technical Representative 1005 Michael Road Camp Lejeune, N. C. 28542-2521

Re:

Contract N62470-93-D-3032

Delivery Order 0100

Notification of Expenditure of 75 Percent of Cost

MCB Camp Lejeune, N.C.

Dear Lt. Hansen:

As per FAR Clause 52.232-20, Limitation of Cost, OHM Remediation Services Corp. (OHM) hereby gives notification that we expect in the next sixty days to incur costs that, when added to all costs previously incurred, will exceed 75 percent of the current estimated cost for Delivery Order 0100.

At this time, OHM anticipates completing this Delivery Order within the budget. However, in the event that additional work scope requests are tendered, additional funding would be required.

Should you have any questions concerning the foregoing, please do not hesitate to contact us.

Yours truly,

OHM Remediation Services Corp.

James A. Dunn, Jr., P.E.

Senior Project Manager

pc:

Kate Landman, Code 18232 Ms. Beth Collier, Code 02115 Neal Paul, EMD/IR John Franz, OHM Dwayne Currie, OHM

Project File 18319

WEEKLY PROGRESS MEETING MINUTES NAVY LANTDIV CONTRACT N62470-93-D-3032 MCB CAMP LEJEUNE, N.C.

APRIL 16,1996

Attendees:

Alan Whitt, OHM

Vann Marshburn, AROICC Lt. Hansen, AROICC Tom Morris, EMD/IR Paul Humphries, EMD/IR

Kate Landman, LANTDIV(phone)

The weekly progress meeting was held at 0900 hours on Tuesday April 16,1996 in the ROICC offices at MCB Camp Lejeune. The ensuing pages contain the topical items for each delivery order as they were discussed during the meeting.

Respectfully submitted,

OHM Remediation Services Corp.

Alan Whitt Site Supervisor

pc:

All Attendees

John Franz, OHM

Dwayne Currie, OHM

Mike Gilman, Stone & Webster Chuck Lawrence, Stone & Webster

All Project Files - Norcross

All Project Files - Site

D.O. 0100

- Precon meeting scheduled Thursday, 18 April 1996 at 1300 in Building #309.
- OHM has a surveyor locating grid points at the site today.

WEEKLY PROGRESS MEETING MINUTES NAVY LANTDIV CONTRACT N62470-93-D-3032 MCB CAMP LEJEUNE, N.C.

MARCH 27,1996

Attendees:

Alan Whitt, OHM

Vann Marshburn, AROICC John Cotton, CONREP Neal Paul, EMD/IR Paul Humphries, EMD/IR

The weekly progress meeting was held at 0900 hours on Wednesday, March 27,1996 in the ROICC offices at MCB Camp Lejeune. The ensuing pages contain the topical items for each delivery order as they were discussed during the meeting.

Respectfully submitted,

OHM Remediation Services Corp.

Alan Whitt Site Supervisor

pc:

All Attendees

John Franz, OHM

Dwayne Currie, OHM

Mike Gilman, Stone & Webster Chuck Lawrence, Stone & Webster

All Project Files - Norcross

All Project Files - Site

OHM continues on Work Plans to submit to LANTDIV for approval by the end of March.

WEEKLY PROGRESS/QC MEETING MINUTES NAVY LANTDIV CONTRACT N62470-93-D-3032 MCB CAMP LEJEUNE, N.C.

JUNE 18, 1996

Attendees:

Alan Whitt, OHM
Jim Dunn, OHM
John Franz, OHM
Dwayne Currie, OHM
Lt. Hansen, AROICC
Neal Paul, EMD

The weekly progress/QC meeting was held at 1030 hours on Tuesday, June 18, 1996 in the ROICC office at MCB Camp Lejeune. The ensuing pages contain the topical items for each delivery order as they were discussed during the meeting.

D.O. 0015

- * Plant Start-up. Alan stated that Southerland Electric continues electric and instrumentation installation at the deep and shallow well houses. Lt. Hansen stated that OHM needs to notify her when official start-up begins. Jim stated that start-up will commence on Monday July 1, 1996, but the official date will be July 8,1996 because of the holiday falling on Thursday.
- * Mod Status Jim asked the status of the Mod for the GWTP and the Biocell. Lt. Hansen said that the funds are set aside and to plan on negotiating next week. ACTION: ROICC to schedule a time to negotiate next week.
- * QC Issues. John asked Lt. Hansen if she had seen the QC review of D.O. 0015. Lt. Hansen said that she had. John said that OHM is addressing the QC issues identified. John asked Lt. Hansen if she had any suggestions. Lt. Hansen suggested changing the format of the meeting minutes to incorporate both QC and production issues. ACTION: OHM to address QC issues.

D.O 0032

- * Mod Status. Lt. Hansen stated that she might need additional cost breakdowns.
- * Stockpile Sampling. Alan stated that the initial composite sample from the J.A. Jones stockpile was below clean-up criteria. The State of N.C. requires a composite sample for every 200 CY.

 The estimated volume is 800 CY so OHM will take additional composite samples. Because of the size of the stockpile OHM will use the excavator and a hand auger to take the composite samples

 JUN-21-1996 09:50 9104511809 P.02

D.O. 9044

*Wetlands Clearing. Alan stated that OHM would like to begin clearing for the access road on Monday, June 24, 1996. Access is for Baker Environmental to install wells in the wetlands. Jim asked Lt. Hansen if she wanted OHM to submit a variance form. John and Dwayne explained the purpose of the form. Lt. Hansen said to submit the form. Jim requested that Lt. Hansen send a letter directing OHM to perform the work. ACTION: OHM submit variance form and ROICC send work directive letter.

D.O. 0078

- * Final Report. Jim stated that he estimates a July submittal of the Interim Final Report.
- * Budget Jim stated that there is approximately \$200,000 remaining that is earmarked for groundwater treatment at the site

D.O. 0087

* Final Report Jim stated that OHM has submitted the final report.

D.O. 0100

* Status. Alan stated that OHM will complete seeding the AOCs today. He is waiting to hear from the maintenance superintendent on where to relocate the trailer.

D.O. 0101

* Status Alan stated that the Precon Meeting was held this morning.

D.O. 0118

* Status. Lt Hansen asked Jim if he had completed the estimate for O&M of the North and South plants. Jim said that he has the operation estimated but is still working on the problems associated with the North Plant. He assumed that the South Plant is operating properly. Lt Hansen stated that this delivery order is only for operation of the plants for 90 days. A mod will be issued for rectifying the problems at the North Plant. She will send a RFP specifying the scope to Jim. Jim stated that can he turn the RFP around quickly since operation is suppose to commence July 1, 1996. ACTION: ROICC send RFP and OHM respond quickly

OTHER

* Neal stated that there is a soil pile at Building 333 that needs to be transferred to Lot 203. He has the funds to transfer it, but needs it moved as soon as possible. Lt Hansen said that she will talk to Vann about it.

Respectfully submitted.

OHM Remediation Services Corp.

Alan Whitt Project Supervisor

pc: All Attendees
Kate Landman, LANTDIV
Jerry Haste, COTR
Mike Gilman, Stone & Webster
Chuck Lawrence, Stone & Webster
All Project Files, Norcross
All Project Files, Jobsite

D.O. 0100

Baker Environmental is summarizing details for raising the Dieldrin remediation action level to 360 PPB today. Excavation activities are on hold until the level is raised.

WEEKLY PROGRESS MEETING MINUTES NAVY LANTDIV CONTRACT N62470-93-D-3032 MCB CAMP LEJEUNE, N.C.

MARCH 19, 1996

Attendees:

Neal Paul, EMD/IR

Lance Laughmiller, RPM (phone)

Paul Humphries, EMD/IR

Jim Dunn, OHM

Vann Marshburn, AROICC

Kate Landman, RPM (phone)

John Cotton, CONREP

The weekly progress meeting was held at 0900 hours on Tuesday, March 19, 1996 in the ROICC offices at MCB Camp Lejeune. The ensuing pages contain the topical items for each delivery order as they were discussed during the meeting.

Kate Landman advised that Gary McSmith is transferring to the EMD Office at Cherry Point effective April 1, 1996. As a result, Lance Laughmiller will become the NTR for Cherry Point and Kate will assume all Camp Lejeune projects for LANTDIV. Lance will continue involvement in Delivery Order 15 until the revised well locations are finalized.

Neal advised that the RAB had been signed and that we should plan on an initial meeting early in the week of April 15, 1996.

Neal also advised that the base would be funding construction of an additional biocell at Camp Geiger. He will be advising the preferred site to LANTDIV within a month. LANTDIV will then provide a specification and proposal package to OHM for the construction.

Respectfully submitted,

OHM Remediation Services Corp.

James A. Dunn, Jr., P.R. Senior Project Manager

pc:

All Attendees
John Franz, OHM
Dwayne Currie, OHM
Mike Gilman, Stone & Webster
Chuck Lawrence, Stone & Webster
All Project Files - Norcross
All Project Files - Jobsite

D. O. 0100

OHM currently anticipates a mid-April commencement of field activities on this Delivery Order.

A teleconference will be conducted at 1300 hours today with the regulators to obtain approval of the remediation goals for subsurface soils prepared by Baker.

The ROICC Office will schedule a Preconstruction Meeting for this project in the near future and request attendance of the MWR representatives. The primary purpose of this meeting will be to provide information concerning the projected activities to the operating personnel of the facility.

OHM currently plans to submit the Work Plans to LANTDIV for approval by the end of March.

QC MEETING MINUTES NAVY LANTDIV CONTRACT N62470-93-D-3032 MCB CAMP LEJEUNE

February 27, 1996

Attendees: Alan Whitt

OHM

Neal Paul

EMD

John Cotton

ROICC

Vann Marshburn

ROICC

A QC Meeting was conducted at 1000 hours in conjunction with a review of Camp Lejeune Delivery Order production activities. The following are the topical items discussed from this meeting for each delivery order.

OHM Remediation Services Corp.

Alan Whitt

Project Supervisor

CC: All Attendees

John Franz, OHM Dwayne Currie, OHM

Mike Gilman, Stone & Webster

Chuck Lawrence, Stone & Webster

All Project Files - Norcross

All Project Files - Jobsite

D.O. 0100

■ Jim Dunn has sent in the revised proposal.

PRECONSTRUCTION MEETING NOTES TIME CRITICAL REMOVAL ACTION PESTICIDE CONTAMINATED SOILS OPERABLE UNIT 11, SITE 80 MCB CAMP LEJEUNE LANTDIV CONTRACT N62470-93-D-3032 DELIVERY ORDER 100

April 18, 1996

Attendees:

Lt. Cheryl Hansen, AROICC
Inspector Nichols, Fire Dept.
John Cotton, CONREP
Gary Appleton, Maintenance Superintendent
Alan Whitt, OHM Site Supervisor
Jim Dunn, OHM Project Manager

The meeting was convened at 1000 hours by the moderator, Lt. Cheryl Hansen. The Fire Department representative outlined the procedures to be used in case of an emergency at the site. A discussion was held on the necessity of burn permits and OHM advised that no burning or cutting operations were anticipated to be performed on this delivery order. The representative of the fire department was then excused.

OHM presented an overview of the project. Listed below are the topical items discussed during the meeting.

- OHM identified the initial areas to be excavated as determined by the engineer, Baker Environmental. Further discussion ensued to discuss how the sampling activity planned to be conducted prior to the excavation activities would fully delineate the exact areas to be excavated prior to the commencement of digging activities.
- In the areas identified to be excavated adjacent to the maintenance buildings, OHM will excavate only one area at a time to keep from restricting access to the buildings.
- Alan Whitt will meet later this week with Gary Appleton to find a suitable area for relocation of the office trailer currently in Area of Concern 1-12.
- Alan Whitt will contact base utilities to have all services in the area located prior to the

commencement of any excavation activities.

- OHM will begin mobilizing equipment and procuring initial samples for determination of the extent of contamination this afternoon.
- John Cotton advised Gary Appleton that in the event of any questions or problems with field activities, he was to contact Lt. Hansen for resolution.

CONTRACTOR'S FIRE PREVENTION GUIDE

From: Fire Protection Division (Fire Fr wention Section), CamLej, NC

Ref: (a) MCO P11000.11A

- (b) BO 11220.1 Base Fire Regulations
- (c) EM 386-1-1
- To report a FIRE or EMERGENCY dial 911, give LOCATION, TYPE OF EMERGENCY, and STAND-BY in safe location to direct fire personnel.
- 2. Prior to performing "HOT WORKS' (work involving any type of heating or open flame device), the contractor shall request a permit from the Base Fire Dept. ext: 3004.
- 3. Painting material and flammable liquids (such as paint, rags, dropcloths, paint thinner, etc.) shall be removed from the building daily and stored at least 25' from the building in a suitable locker.
- 4. At the close of each workday all trash, paper, sawdust, excelsior, and packing material shall be removed from the building and disposed of in appropriate containers away from the building.
- 5. The storage of lumber and other combustible materials shall be stored outside, at least 25' from structures. Areas surrounding the work site shall be kept clean of all trash.
- 6. All portable electric devices (saws, sanders, extension cords, etc.) shal be disconnected after use, and if possible the main electric switch deactivated at the close of the workday.
- 7. The contractor shall post "FIRE BILLS' around the work site and inform all employees of the procedure for reporting a "FIRE or EMERGENCY" prior to commencing the work.
- 8. All "FIRES", whether extinguished or not shall be promptly reported to the Fire Protection Division.
- 9. Fire hose and extinguishers shall not be used for any purpose other than a fire. Hydrants shall not be blocked and shall not be used without approval from the Base Fire Dept.
- 10. Smoking shall be in open areas only. Smoking in attics and concealed spaces is prohibited.
- 11. Provide 1 (one) construction Master Key to the Fire Protection Division.
- 12. Prior to quitting time, a check of the work site should be made on a daily basis to ensure compliance with the above instructions.

NOTE: Fire Prevention is available for advice and assistance.

The second second second

FIRE / EMERGENCIES

FIRE PROTECTION DIVISION

FIRE PREVENTION SECTION

911 451-3004

451-3004

Stort Date April 22,1446

Should conclude in approximately 30 days.

TE: <u>04 - 18 - 76</u>

BUILDING Str 80 MCB BLDG 1916

CONTRACT # <u>N62470-93-D-</u>3032

CONTRACTOR OHM REMEMBERS SERVICES COOP

Appendix F QC Analytical Report

Quality Control Analytical Report

The confirmation samples for AOC-100 were sent to CKY, Inc. analytical laboratories, 630 Maple Avenue, Torrence, California 90503 for analysis. NEESA Level C data deliverables were requested from the laboratory for this project. The results were received and sent to Laboratory Data Consultants, Inc., 7750 El Camino Real, Suite 2C, Carlsbad, California 92009 for third party (independent) data validation. The following sections summarize the results of the data validation.

The data validation was performed under NEESA Level C guidelines. The analyses were validated using the following documents, as applicable to each method:

- Navy Installation Restoration Laboratory Quality Assurance Guide. Interim Guidance Document, Naval Facilities Engineering Service Center, February 1996
- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, February 1994
- EPA SW-846, Third Edition, Test Methods for Evaluating Solid Waste, Update 1, July 1992, Update IIA, August 1993; Update II, September 1994, Update IIB, January 1995

Overall, the data were acceptable and met the project data quality objectives. All holding times were met and there were no major deficiencies found. Minor quality control deficiencies are listed according to each analytical parameter, along with any qualifiers and impact on the usability of the data.

Continuing calibration was performed at required frequencies except that the continuing calibration verification was performed at a 12-hour frequency instead of every 10 samples. Since all continuing calibration verification samples passed the 15 percent QC criteria for this project, this is deemed of no consequence to the validity of the results.

SDG 96E080 (includes Samples CLJ100-CS-001, 005, 008 through 014 and 010 DP, and RB529 and FS520

- Samples were received intact, cooler sealed, cooler temperature 2°C.
- Zero of 34 surrogate recoveries were outside of QC limits.
- Method blanks were prepared and analyzed for both water and soil matrices. No chlorinated pesticides were found in these samples.
- Matrix spike and matrix spike duplicate samples results were within QC limits for Recoveries and relative percent difference.
- Lab control samples and lab control sample duplicates samples were also within QC limits for percent Recovery and relative percent difference.
- There was good comparison between sample CLJ100-CS010 and its duplicate. These
 had detectable levels of 4,4'-DDD (980 and 930), 4,4'-DDE (1200 and 1200) and 4,4'DDT (97 and 77) ug/kg.
- Sample CLJ100-RB-529 was identified as a rinsate. No chlorinated pesticide contaminants were found in this blank.
- Sample CLJ100-FB-529 was identified as a field blank. No chlorinated pesticide contaminants were found in this sample.

SDG 96E081 (includes Samples CLJ100-CS-020, 020DP, 022, 026, 028 through 030, and 030 DP.

- Samples were received intact, cooler sealed, cooler temperature 2°C.
- Zero of 26 surrogate recoveries were outside of QC limits.
- A method blank was prepared and analyzed for the soil matrix. No chlorinated pesticides were found in this sample.
- Matrix spike and matrix spike duplicate samples results were within QC limits for Recoveries and relative percent difference.
- Lab control samples and lab control sample duplicates samples were also within QC limits for percent Recovery and relative percent difference.
- Samples CLJ100-CS-020, CLJ100-CS-020DP and CLJ100-CS-030, CLJ100-CS-030DP were identified as duplicates. No chlorinated pesticides were found with the exception of CLJ100-CS-020 and 020DP which contained dieldrin (30 and 86) and 4,4'-DDE (ND and 120) ug/kg.

SDG 96F004 (includes Samples CLJ100-CS-031 through 047 and 040 DP, RF531 and FB531

- Samples were received intact, cooler sealed, cooler temperature 2°C. Sample CLJ100-CS-036 had a crack in the container upon receipt, but sample integrity was deemed acceptable to analyze.
- Zero of 48 surrogate recoveries were outside of QC limits.
- Method blanks were prepared and analyzed for both water and soil matrices. No chlorinated pesticides were found in these samples.
- Matrix spike and matrix spike duplicate samples results were within QC limits for Recoveries and relative percent difference.
- Lab control samples and lab control sample duplicates samples were also within QC limits for percent Recovery and relative percent difference.
- Samples CLJ100-CS-040, CLJ100-CS-040DP were identified as duplicates. No chlorinated pesticides were identified in these samples except 4,4'-DDE (120, ND) and dieldrin (43, 31) ug/kg.
- Sample CLJ100-RB-531 was identified as a rinsate. No chlorinated pesticide contaminants were found in this blank.
- Sample CLJ100-FB-531 was identified as a field blank. No chlorinated pesticide contaminants were found in this sample.

SDG 96F009 (includes Samples CLJ100-CS-048 through 063 and 050 DP and 060 DP.

- Samples were received intact, cooler sealed, cooler temperature 2°C.
- Zero of 46 surrogate recoveries were outside of QC limits.
- Method blanks were prepared and analyzed for both water and soil matrices. No chlorinated pesticides were found in these samples.
- Matrix spike and matrix spike duplicate samples results were within QC limits for Recoveries and relative percent difference.
- Lab control samples and lab control sample duplicates samples were also within QC limits for percent Recovery and relative percent difference.
- Samples CLJ100-CS-050, CLJ100-CS-050DP, CLJ100-CS-060 and CLJ100-CS-060DP were identified as duplicates. No chlorinated pesticides were detected except CLJ100-CS-050 its duplicate for dieldrin (62 and 100) ug/kg.

SDG 96F014 (includes Samples CLJ100-CS-064 through 066, 068, 069, 071, 073 through 075 and 077 through 079, RB604 and FB604.

- Samples were received intact, cooler sealed, cooler temperature 2°C.
- Zero of 38 surrogate recoveries were outside of QC limits.
- Method blanks were prepared and analyzed for both water and soil matrices. No chlorinated pesticides were found in these samples.
- Matrix spike and matrix spike duplicate samples results were within QC limits for Recoveries and relative percent difference.
- Lab control samples and lab control sample duplicates samples were also within QC limits for percent Recovery and relative percent difference.
- Sample CLJ100-RB-604 was identified as a rinsate. No chlorinated pesticide contaminants were found in this blank.
- Sample CLJ100-FB-604 was identified as a field blank. No chlorinated pesticide contaminants were found in this sample.

SDG 96F019 (includes Samples CLJ100-CS-080 through 095, 080DP and 090DP.

- Samples were received intact, cooler sealed, cooler temperature 2°C.
- Zero of 42 surrogate recoveries were outside of QC limits.
- A method blanks was prepared and analyzed for the soil matrix. No chlorinated pesticides were found in these samples.
- Matrix spike and matrix spike duplicate samples results were within QC limits for Recoveries and relative percent difference.
- Lab control samples and lab control sample duplicates samples were also within QC limits for percent Recovery and relative percent difference.
- Samples CLJ100-CS-080, CLJ100-CS-080DP, CLJ100-CS-090 and CLJ100-CS-090DP were identified as duplicates. No chlorinated pesticides were identified in any of these samples.

SDG 96F022 (includes Samples CLJ100-CS-096 through 100 and 100 DP, RB606 and FB606.

- Samples were received intact, cooler sealed, cooler temperature 3°C.
- Zero of 20 surrogate recoveries were outside of QC limits.
- Method blanks were prepared and analyzed for both soil and water matrices. No chlorinated pesticides were found in these samples.
- Matrix spike and matrix spike duplicate samples results were within QC limits for Recoveries and relative percent difference, except CLJ100-CS-096 matrix spike and matrix spike duplicate whose RFP was 62% (limit 50%) for 4,4'-DDD. This is considered of little consequence, since the 4,4'DDD result on the sample was N.D.
- Lab control samples and lab control sample duplicates samples were also within QC limits for percent Recovery and relative percent difference.
- Samples CLJ100-CS-100, CLJ100-CS-100DP were identified as duplicates. No chlorinated pesticides were found except aldrin (31, ND) ug/kg.
- Sample CLJ100-RB-606 was identified as a rinsate. No chlorinated pesticide contaminants were found in this blank.
- Sample CLJ100-FB-606 was identified as a field blank. No chlorinated pesticide contaminants were found in this sample.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name:

Camp Lejeune

Collection Date:

May 29, 1996

LDC Report Date:

August 14, 1996

Matrix:

Soil/Water

Parameters:

Chlorinated Pesticides

Laboratory:

CKY, Inc.

Sample Delivery Group (SDG): 96E080

Sample Identification

CLJ100-CS-001

CLJ100-CS-005

CLJ100-CS-008

CLJ100-CS-009

CLJ100-CS-010

CLJ100-CS-010DP

CLJ100-CS-011

CLJ100-CS-012

CLJ100-CS-013

CLJ100-CS-014

CLJ100-RB-529

CLJ100-FB-529

CLJ100-CS-001MS

CLJ100-CS-001MSD

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Introduction

This data review covers 12 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8080 for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for EPA SW 846 Method 8080. The modifications were based on EPA SW 846 Method 8080.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or element was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or element was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG 96E080	All TCL compounds	More than ten samples were run in between CCVs.	No more than ten samples to be run between CCVs.	None	A

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

The individual 4,4'-DDT and Endrin breakdowns were less than 20.0%.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

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VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Pesticide Cleanup Checks

a. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XI. Target Compound Identification

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

XIV. Field Duplicates

Samples CLJ100-CS-010 and CLJ100-CS-010DP were identified as field duplicates. No chlorinated pesticides were detected in any of the samples with the following exceptions:

	Concentra		
Compound	CLJ100-CS-010	CLJ100-CS-010DP	RPD
4,4'-DDD	980	930	5
4,4'-DDE	1200	1200	o
4,4'-DDT	97	77	23

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XV. Field Blanks

Sample CLJ100-RB-529 was identified as a rinsate. No chlorinated pesticide contaminants were found in this blank.

Sample CLJ100-FB-529 was identified as a field blank. No chlorinated pesticide contaminants were found in this blank.

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Camp Lejeune
Chlorinated Pesticides - Data Qualification Summary - SDG 96E080

No Sample Data Qualified in this SDG

Camp Lejeune Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 96E080

No Sample Data Qualified in this SDG

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03

EPA METHOD 8080 PESTICIDES

PROJECT: BATCH NO.: SAMPLE ID: CONTROL NO. MOISTURE	96E080 CLJ100-CS-001 E080-01	DATE EXTRACTED: DATE ANALYZED:	06/03/96 06/05/96 SOIL	3-20-76
CLIENT:	OHM 18319/CAMP LEJEUNE		05/29/96 05/31/96	

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是	18.8 22.1 27.6 18.8 110 110 110 110 22.1 18.8 221 22.1 110 22.1 110 22.2 110 22.1 22
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 96 97	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-005' CONTROL NO.: E080-05 % MOISTURE: 10.2	DATE COI DATE REC DATE EXT DATE ANA MATRIX: DILUTION	DEIVED: 05/31/96 TRACTED: 06/03/96 ALYZED: 06/05/96 SOIL N FACTOR: 1	ن نه
	D D G 111 B G		8-20-46
PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	8
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	255225555555555555555555555555555555555	18.9 11.1 22.3 27.8 18.9 111 111 111 111 12.3 18.2 22.3 11.1 22.3 11.1 22.3 11.1 22.3 11.1 22.3	
SURROGATE PARAMETER	% RECOVERY	QC LIMIT	
Tetrachloro-m-xylene Decachlorobiphenyl	100 99	20-150 20-150	_

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-008 CONTROL NO.: E080-08 % MOISTURE: 11.5	DATE COL DATE REC DATE EXT DATE ANA MATRIX:	LECTED: 05/29/96 EIVED: 05/31/96 RACTED: 06/03/96 LYZED: 06/05/96 SOIL FACTOR: 1	8,20,96
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	S	RL (ug/kg) 19.2 11.3 22.6 28.2 19.2 113 113 113 22.6 19.2 21.3 11.3 22.6 19.2 22.6 19.2 20.6 21.3 11.3 22.6 20.6 20.6 20.6 20.6 20.6 20.6 20.6	
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 96 97	QC LIMIT 20-150 20-150	

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CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-009 CONTROL NO.: E080-09 % MOISTURE: 14.5	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 05/31/96 RACTED: 06/03/96 LYZED: 06/05/96 SOIL FACTOR: 1	o) au
PARAMETERS	RESULTS ULK NEDDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDE	RL (ug/kg) 19.9 11.7 23.4 29.9 117 117 117 23.4 19.9 23.4 23.4 23.4 23.4 23.4 23.4 23.4 23.4	
SURROGATE PARAMETER Tetrachloro-m-xylene	% RECOVERY 99	QC LIMIT 20-150	
Tetrachloro-m-xylene Decachlorobiphenyl	94	20-150	

RL: Reporting Limit
*: Was diluted at DF 5 and reanalyzed on 06/06/96 due to high concentration level.

06

EPA METHOD 8080

05/29/96 05/31/96 06/03/96 06/05/96 CLIENT: DATE COLLECTED: DATE RECEIVED: OHM PROJECT: BATCH_NO.: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-010 CONTROL NO.: E080-10 % MOISTURE: 17.5 DATE EXTRACTED: 06
DATE ANALYZED: 06
MATRIX: SC
DILUTION FACTOR: 1 SOIL RESULTS **PARAMETERS** (ug/kg) (ug/kg) Aldrin ND 20.6 12.1 alpha-BHC ND beta-BHC ND delta-BHC ND gamma-BHC (Lindane) ND 20.6 alpha-Chlordane gamma-Chlordane 121 121 121 121 NDND 4,4'-DDD 4,4'-DDE 4,4'-DDT ND 980* 121 24.2 20.6 242 24.2 1200* Dieldrin 97 Endosulfan I Endosulfan II Endosulfan Sulfate ND NDND Endrin ND 121 Endrin aldehyde 12.1 ND Heptachlor ND Heptachlor Epoxide ND 606 Methoxychlor ND 1210 Toxaphene ND 2420

% RECOVERY

96

92

QC LIMIT

20-150 20-150

RL:

SURROGATE PARAMETER

Tetrachloro-m-xylene

Decachlorobiphenyl

Reporting Limit Was diluted at DF 10 and reanalyzed on 06/06/96 due to high concentration level.

8-20-96

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-010DP CONTROL NO.: E080-11 % MOISTURE: 19.6	DATE COI DATE REC DATE EXT DATE ANA MATRIX: DILUTION	TEIVED: 05/31/96 TRACTED: 06/03/96 ALYZED: 06/05/96	0) 36
PARAMETERS	RESULTS (ug)	RL (ug/kg) 	8,20
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 98 95	QC LIMIT 20-150 20-150	•

RL: Reporting Limit
*: Was diluted at DF 5 and reanalyzed due to high concentration
level.

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-011 CONTROL NO.: E080-12 % MOISTURE: 11.1	DIHOTION	LECTED: 05/29/96 EIVED: 05/31/96 RACTED: 06/03/96 LYZED: 06/05/96 SOIL FACTOR: 1	مي عراد
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC delta-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Epoxide Methoxychlor Toxaphene	S	RL (ug/kg) 	6
SURROGATE PARAMETER	% RECOVERY	QC LIMIT	
Tetrachloro-m-xylene Decachlorobiphenyl	98 96	20-150 20-150	
		=======================================	

DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: 05/29/96 05/31/96 06/03/96 06/05/96 CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-012 CONTROL NO.: E080-13 % MOISTURE: NA MATRIX: SOIL DILUTION FACTOR: 1 RESULTS RL (ug/kg) **PARAMETERS** (ug/kg) Aldrin 17 NDalpha-BHC ND 10 2025 beta-BHC ND delta-BHC gamma-BHC (Lindane) ND ND alpha-Chlordane gamma-Chlordane ND 100 ND 100 4,4'-DDD ND 100 4,4'-DDE 220 100 4,4,-DDT Dieldrin Endosulfan I 150 100 20 17 64 ND Endosulfan II 200 NDEndosulfan Sulfate ND

Heptachlor 200 ND Heptachlor Epoxide ND 500 Methoxychlor ND 1000 Toxaphene 2000 SURROGATE PARAMETER % RECOVERY QC LIMIT Tetrachloro-m-xylene 101 20-150 Decachlorobiphenyl 20-150

ND

ND

RL: Reporting Limit

Endrin

Endrin aldehyde



100

10

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-013 CONTROL NO.: E080-14 % MOISTURE: 14.9	DATE COI DATE REC DATE EXT DATE ANA MATRIX: DILUTION	LLECTED: 05/29/96 DEIVED: 05/31/96 TRACTED: 06/03/96 ALYZED: 06/05/96 SOIL	we'ar
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor Toxaphene SURROGATE PARAMETER	RESULTS (ULL NO PER CONTROL NO PER C	RL (ug/kg) 	
Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 101 93	QC LIMIT 20-150 20-150	

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CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-014 CONTROL NO.: E080-15 % MOISTURE: 9.5	DATE EXTR	IVED: 05/31/96 ACTED: 06/03/96 YZED: 06/05/96 SOIL
PARAMETERS	REUITS UK I DEEDEEDEEDEEDEEDEEDEEDEEDEEDEEDEEDEEDEE	RL (ug/kg)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 95 95	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-RB-529 CONTROL NO.: E080-16 % MOISTURE: NA	DATE COLI DATE RECI DATE EXTI DATE ANAI MATRIX: DILUTION	LECTED: 05/29/96 EIVED: 05/31/96 RACTED: 06/04/96 LYZED: 06/05/96 WATER FACTOR: 1	ئە
PARAMETERS	80 50 50 80 80 80 80 80 80 80 80 80 80 80 80 80	RL (ug/L) .043 .055 .044 .144 .1244 .010 .010 .0135 .055 .010 .010 .010 .010 .010 .010 .01	8-20-96
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 107 48	QC LIMIT 30-150 24-154	

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-FB-529 CONTROL NO.: E080-17 % MOISTURE: NA	DATE COLLECTED: 05/29/96 DATE RECEIVED: 05/31/96 DATE EXTRACTED: 06/04/96 DATE ANALYZED: 06/05/96 MATRIX: WATER DILUTION FACTOR: 1
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	RESULTS (ug/L) (ug/L) 8-20.36 ND
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY QC LIMIT 103 30-150 46 24-154

LDC #: 1920A3	VALIDATION COMPLETENESS WORKSHEET	Date: δ-12-9
SDG #: 96E080	EPA Level III X NFESC Level C	Page: I of I
Laboratory: CKY, Inc.	· ——	Reviewer: 2
		2nd Reviewer: 9

METHOD: GC Organochlorine Pesticides (EPA SW 846 Method 8080)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
١.	Technical holding times	Α	Sampling dates: 5-27-76
11.	GC/ECD Instrument Performance Check	A-	
III.	Initial calibration	A	·1. RSO
IV.	Continuing calibration	ςw	1. 450 0
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	Α	No AQ ms/mso, Qc samples
VIII.	Laboratory control samples	A	No AQ ms/mso, QC samples Las for soil, Las/Laso for AQ
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	sω	D= 5,6
XV.	Field blanks	とり	R=11 FB=12

Note:

A = Acceptable

ND = No compounds detected

D = Duplicate

N = Not provided/applicable SW = See worksheet R = Rinsate

TB = Trip blank

FB = Field blank

EB = Equipment blank

Validated Samples:

1	CLJ100-CS-001 - 50il	11 R	CLJ100-RB-529 ~	Aq	21	
2	CLJ100-CS-005 ~	121	CLJ100-FB-529		22	
3	CLJ100-CS-008 /	13	CLJ100-CS-001MS	soil	23	
4	CLJ100-CS-009/	14	CLJ100-CS-001MSD		24	
5 V	CLJ100-CS-010	15	MBLKIS	}	25	
6 ❖	CLJ100-CS-010DP-	16	MBLKIW	ΑQ	26	
7	CLJ100-CS-011 /	17			27	
8	CLJ100-CS-012 ~	18			28	
9	CLJ100-CS-013 -	19			29	
10	CLJ100-CS-014 -	20			30	

RTX-35 - primary column

LDC #: 1920 SDG #: 968080

VALIDATION FIND → WORKSHEET **Continuing Calibration**

P	<u></u>
Reviewer:	と
2nd Reviewer:	90

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

Please see qualifications below for all questions answered "N" Not applicable questions are identified as "N/A".

What type or calibration verification calculation was performed?

(Y) N N/A Were Evaluation mix standards run before initial calibration and before samples?

N N/A Were Endrin & 4,4'-DDT breakdowns acceptable in the Evaluation Mix standard (<20.0% for individual breakdowns)?

N N/A Was at least one Individual Mix standards A and/or B run daily to verify the working curve?

Y (1) N/A Were continuing standards analyzed at a frequency of every 10 samples to verify the working curve?

N N/A Did the continuing calibration standards meet the percent difference (%D) / relative percent difference (RPD) criteria of <15.0%?

Level IV/D Only

Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

Were the percent difference (%D) results recalculated? (Please see Calibration verification results verification worksheet.) Y N N/A

Y N N/A Were the (%D) recalculated results within 10.0% of the reported results?

	N/A	Were the (%D) reca	<u> </u>]	%D / RPD	1			
#	Date	Standard ID	Column	Compound	(Limit ≤ 15.0)	RT (Limi	(S)	Associated Samples	Qualifications
1		more than	10 san	pleo were		()	all samples,	None/A
		and mal	yzed.	between		(M	no/moo + blanks	/
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	ha.BHC	F Hentachtor	l Diele		ממחי	O Endrin ketone	U Toxanh	ene V Aroclor-1242	CC DB 608 GG

A.	Alpha-BHC
В.	Beta-BHC
C	Delta-BHC

E. Heptachlor

F. Aldrin G. Heptachlor epoxide I. Dieldrin J. 4,4'-DDE

K. Endrin

L. Endosulfan II

M. 4,4'-DDD N. Endosulfan sulfate O. 4.4'-DDT

P. Methoxychlor

Q. Endrin ketone R. Endrin aldehyde S. Alpha-chlordane

T. Gamma-chlordane

U. Toxaphene V. Arodor-1018 W. Aroclor-1221

X. Aroclor-1232

Y. Aroclor-1242 Z. Arodor-1248 AA. Aroclor-1254

BB. Aroclor-1260

CC. DB 608 DD. DB 1701

D. Gamma-BHC H. Endosullan I

LDC #: 1920 A3 SDG #: 96E080

VALIDATION FINDINGS WORKSHEET Field Duplicates

Page: 1 of 1

Reviewer: 2

2nd reviewer: LE

HOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

\bigcirc	N	N/A
$\langle \gamma \rangle$	N	N/A

Were field duplicate pairs identified in this SDG?

Were target compounds detected in thie field duplicate pairs?

	Concentration	on (ug/kg)		
Compound	5	6	RPD	
4,4,-20€0	980	930	5	
4,4'-00 E	1200	1200	0	
4,4'-00T	97	77	23	
·				
·				

	Concentration ()	
Compound		RPD
		<u> </u>

	Concentration ()	
Compound		RPD
	·	

	Concentration ()	
Compound		RPD
1		



LABORATORY DATA CONSULTANTS, INC.

7750 El Camino Real, Suite 2C, Carlsbad, CA 92009 Phone: 619-634-0437 Fax: 619/634-0439

OHM Remediation Services Corp. 5335 Triangle Parkway, Suite 450 Norcross, GA 30092 ATTN: Ms. Missy Art

August 21, 1996

SUBJECT: Camp Lejeune, Data Validation

Dear Ms. Art,

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on August 7, 1996.

LDC Project # 1920:

SDG

Fraction

Chlorinated Pesticides

96E080, 96E081, 96F004, 96F009,

96F014, 96F019,

96F022

The data validation was performed under NFESC Level C guidelines. The analyses were validated using the following documents, as applicable to each method:

- Navy Installation Restoration Laboratory Quality Assurance Guide, Interim Guidance Document, Naval Facilities Engineering Service Center, February 1996
- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, February 1994
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995

Please feel free to contact us if you have any questions.

Sincerely,

Richard M. Amano

President/Principal Chemist

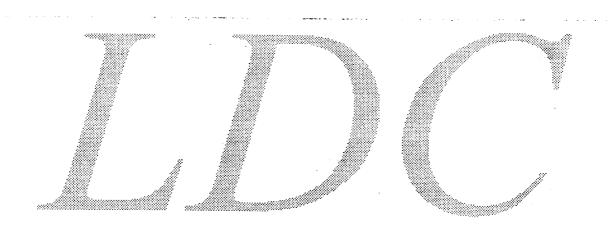
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Attacı...ent 1

							LD	C #	192	0 (0	MHC	Re	med	diati	on (Ser	vice	es/(Ca	mp	Le	jei	ıne	≥)			# 1									
LDC	SDG#	DATE REC'D	DATE DUE	Pest	icides																															
Matrix:	Water			W	s	W	s	W	s	W	s	W	S	W	s	W	s	W	s	W	s	W	s	W	s	W	s	w	s	w	s	w	s	w	s	w
Α	96E080	8-7-96	8-28-96	2	12																															
В	96E081	8-7-96	8-28-96	0	10																															
С	96F004	8-7-96	8-28-96	2	19				L		<u> </u>		<u> </u>	<u> </u>	<u> </u>			L																	\top	
D	96F009	8-7-96	8-28-96	0	20	:								1													Π									
E	96F014	8-7-96	8-28-96	2	14			<u> </u>																												
F	96F019	8-7-96	8-28-96	0	18							<u> </u>		<u> </u>																Π						
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Total				8	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	, (

Camp Lejeune Data Validation Reports LDC# 1920

Chlorinated Pesticides



Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name:

Camp Lejeune

Collection Date:

May 30, 1996

LDC Report Date:

August 15, 1996

Matrix:

Soil

Parameters:

Chlorinated Pesticides

1

Laboratory:

CKY, Inc.

Sample Delivery Group (SDG): 96E081

Sample Identification

CLJ100-CS-020

CLJ100-CS-020DP

CLJ100-CS-022

CLJ100-CS-026

CLJ100-CS-028

CLJ100-CS-029

CLJ100-CS-030

CLJ100-CS-030DP

CLJ100-CS-022MS

CLJ100-CS-022MSD

1920B3.OH3

Introduction

This data review covers 10 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8080 for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for EPA SW 846 Method 8080. The modifications were based on EPA SW 846 Method 8080.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or element was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or element was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

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I. Technical Holding Times

All technical holding time requirements were met.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

The individual 4,4'-DDT and Endrin breakdowns were less than 20.0%.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

1920В3.ОН3

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Pesticide Cleanup Checks

a. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XI. Target Compound Identification

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

XIV. Field Duplicates

Samples CLJ100-CS-020 and CLJ100-CS-020DP and samples CLJ100-CS-030 and CLJ100-CS-030DP were identified as field duplicates. No chlorinated pesticides were detected in any of the samples with the following exceptions:

	Concentra		
Compound	CLJ100-CS-020	CLJ100-CS-020DP	RPD
Dieldrin	30	86	97
4,4'-DDE	ND	120	Not calculable

XV. Field Blanks

No field blanks were identified in this SDG.

1920B3.OH3

Camp Lejeune
Chlorinated Pesticides - Data Qualification Summary - SDG 96E081

No Sample Data Qualified in this SDG

Camp Lejeune Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 96E081

No Sample Data Qualified in this SDG

1920В3.ОН3 5

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E081 SAMPLE ID: CLJ100-CS-020 CONTROL NO.: E081-06 % MOISTURE: 13.2	DATE CO: DATE REG DATE EXT DATE ANI MATRIX: DILUTION	LLECTED: 05/30/96 CEIVED: 05/31/96 TRACTED: 05/31/96 ALYZED: 05/31/96 SOIL N FACTOR: 1	₽) 8.2
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	RESULTS (ug) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg) 	

DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: 05/30/96 05/31/96 05/31/96 05/31/96 SOIL CLIENT: OHM PROJECT: 18319/CI BATCH NO.: 96E081 SAMPLE ID: CLJ100-C CONTROL NO.: E081-07 18319/CAMP LEJEUNE . 96E081 CLJ100-CS-020DP MATRIX: DILUTION FACTOR: MOISTURE: 13.6 1 8-50 do RESULTS (ug/kg) (ug/kg) **PARAMETERS** _____ 19.7 19.6 19.6 28.9 116 Aldrin ND alpha-BHC ND beta-BHC ND delta-BHC ND gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane ND ND ND 116 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin 116 116 ND 120 116 23.1 19.7 23.1 23.1 ND 86 Endosulfan I Endosulfan II Endosulfan Sulfate ND ND ND Endrin ND 11.6 231 579 Endrin aldehyde ND ND Heptachlor Heptachlor Epoxide ND ND 1160 Methoxychlor Toxaphene 2310 ND

% RECOVERY

99 72

QC LIMIT

20-150 20-150

Reporting Limit RL:

SURROGATE PARAMETER

Tetrachloro-m-xylene Decachlorobiphenyl

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E081 SAMPLE ID: CLJ100-CS-022 CONTROL NO.: E081-09 % MOISTURE: 11.7	DATE COI DATE REG DATE EXT DATE ANI MATRIX: DILUTION	LLECTED: 05/30/9 CEIVED: 05/31/9 FRACTED: 05/31/9 ALYZED: 06/01/9 SOIL V FACTOR: 1	6
PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	= 3) a6
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	988888888888888888888888888888888888888	19.3 11.7 22.3 11.3 11.3 11.3 11.3 11.3 12.2 19.2 11.3 11.3 29.2 11.3 11.3 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1	
SURROGATE PARAMETER	% RECOVERY	QC LIMIT	V
Tetrachloro-m-xylene Decachlorobiphenyl	106 74	20-150 20-150	

CLIENT: PROJECT: BATCH NO.: SAMPLE ID: CONTROL NO.: MOISTURE:	DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: MATRIX: DILUTION FACTOR	05/30/96 05/31/96 05/31/96 06/01/96 SOIL : 1
=========	 	========
	PECIII.TC	DT

PARAMETERS	RESULTS (ug/kg)- NDD NDD NDD NDD NDD NDD NDD NDD NDD NDD	RL (ug/kg)
Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	ND ND ND ND	220 549 1100 2200
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	110 75	20-150 20-150

Reporting Limit Was diluted at DF 5 and reanalyzed on 06/02/96 due to high concentration level.

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E081 SAMPLE ID: CLJ100-CS-028 CONTROL NO.: E081-15 % MOISTURE: 7.5	DATE CO: DATE REG DATE EX! DATE ANI MATRIX: DILUTIO	LLECTED: 05/30/96 CEIVED: 05/31/96 FRACTED: 05/31/96 ALYZED: 06/01/96 SOIL N FACTOR: 1	
PARAMETERS	RESTANTANTANTANTANTANTANTANTANTANTANTANTANT	RL (ug/kg) 18.4 10.8 21.6 21.6 108 108 108 108 21.6 21.6 21.6 21.0 21.6 21.6 21.6 21.6 21.6 21.6 21.6 21.6	3-2c-96
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 113 73	QC LIMIT 20-150 20-150	

CLIENT: OHM
PROJECT: 18319/CAMP LEJEUNE
BATCH NO.: 96E081
SAMPLE ID: CLJ100-CS-029
CONTROL NO.: E081-16
% MOISTURE: 12.2 DATE COLLECTED: 05/30/96
DATE RECEIVED: 05/31/96
DATE EXTRACTED: 05/31/96
DATE ANALYZED: 06/01/96
MATRIX: SOIL DILUTION FACTOR: 1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	3) 196 8-20.196
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor Toxaphene	DDDDDDD ** 1300D 0 1300D 10 16	19.4 19.4 19.4 112.8 112.8 114.4 114.1 114.1 114.8 112.9 11.2 11.2 11.2 11.2 11.2 11.2 11.	8.
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 100 68	QC LIMIT 20-150 20-150	

RL:

Reporting Limit Was diluted at DF 10 and reanalyzed on 06/02/96 due to high concentration level.

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E081 SAMPLE ID: CLJ100-CS-030 CONTROL NO.: E081-17 % MOISTURE: 7.6	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	TEIVED: 05/31/96 TRACTED: 05/31/96 LYZED: 06/01/96 SOIL FACTOR: 1	
PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	3,20,96
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	888888888888888888888888888888888888888	18.4 10.8 21.6 27.1 18.0 10.8 10.8 10.8 10.8 10.8 10.8 10	
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 95 68	QC LIMIT 20-150 20-150	•

===========	=======================================	=======================================	======
CLIENT:	OHM	DATE COLLECTED:	05/30/96
PROJECT:	18319/CAMP LEJEUNE	DATE RECEIVED:	05/30/30
BATCH NO.:	96E081	DATE EXTRACTED:	05/31/96
SAMPLE ID:	CLJ100-CS-030DP		
· · · · · · · · · · · · · · · · · · ·		DATE ANALYZED:	06/01/96
CONTROL NO.:		MATRIX:	SOIL
% MOISTURE:	6.9	DILUTION FACTOR:	1

PARAMETERS		RL (ug/kg) 	هـُ عود ع
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 99 70	QC LIMIT 20-150 20-150	

LDC #: 1920B3	VALIDATION COMPLETENESS WORKSHEET	Date: 8-12-76
SDG #: 96E081	EPA Level III XNFESC Level C	Page: 1 of 1
Laboratory: CKY, Inc.		Reviewer: 2
		2nd Reviewer:

METHOD: GC Organochlorine Pesticides (EPA SW 846 Method 8080)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
l.	Technical holding times	A	Sampling dates: 5-30-96
II.	GC/ECD Instrument Performance Check	A	
111.	Initial calibration	A	٠/. حده
IV.	Continuing calibration	A	1.0
V.	Blanks	A	
VI.	Surrogate spikes	Α	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	SW	01=1,2 *D2=7,8 *= ND
XV.	Field blanks	7	51-7,8 d

Note:

A = Acceptable

SW = See worksheet

N = Not provided/applicable

ND = No compounds detected

R = Rinsate FB = Field blank D = Duplicate

TB = Trip blank

EB = Equipment blank

Validated Samples:

101	CLJ100-CS-020 ~	Soil	11	CLJ100 - CS - 22MSD Soil	21	
2 1	CLJ100-CS-020DP /		12		22	
3	CW100-CS-022		13		23	
4	CLJ100-CS-026 ~		14		24	
5	CLJ100-CS-028 /		15		25	
6	CLJ100-CS-029 /		16		26	
792	CLJ100-CS-030/		17		27	
8 🗸	CLJ100-CS-030DP	+	18		28	
9	mblkis	J	19		29	
10	CLJ100 - CS - 22 mS	soil	20		30	

LDC #: 1920B3 SDG #: 96E081

VALIDATION FINDINGS WORKSHEET Field Duplicates

Page:_	1_of_1
Reviewer:	N
2nd reviewer:	<u>ec</u>

HOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

$\underline{\otimes}$	N	N/A
(Y)	N	N/A

Were field duplicate pairs identified in this SDG?

Y) N N/A Were target compounds detected in thie field duplicate pairs?

	Concentration (mg/leg)			
Compound	1	2	RPD	
Dieldrin	30	કે દ	97	
4,4'- פפע	NO	120	NC	

			<u> </u>	

		Concentration ()			
	Compound				RPD
				•	

	Concentration ()		
Compound			RPD
	-		
	•	·	

	Concentration ()	
Compound		RPD
1		

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name:

Camp Lejeune

Collection Date:

May 31, 1996

LDC Report Date:

August 14, 1996

Matrix:

Soil/Water

Parameters:

Chlorinated Pesticides

Laboratory:

CKY, Inc.

Sample Delivery Group (SDG): 96F004

Sample Identification

CLJ100-CS-031

CLJ100-CS-032

CLJ100-CS-033

CLJ100-CS-034

CLJ100-CS-035

CLJ100-CS-036

CLJ100-CS-037

CLJ100-CS-038

CLJ100-CS-040

CLJ100-CS-040DP

CLJ100-CS-041

CLJ100-CS-042

CLJ100-CS-043

CLJ100-CS-044

CLJ100-CS-045

CLJ100-CS-046

CLJ100-CS-047

CLJ100-RB-531

CLJ100-FB-531

CLJ100-CS-041MS

CLJ100-CS-041MSD

1920С3.ОН3

Introduction

This data review covers 19 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8080 for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for EPA SW 846 Method 8080. The modifications were based on EPA SW 846 Method 8080.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or element was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or element was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

1920C3,OH3 2

I. Technical Holding Times

All technical holding time requirements were met.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

The individual 4,4'-DDT and Endrin breakdowns were less than 20.0%.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

1920C3.OH3 3

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Pesticide Cleanup Checks

a. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XI. Target Compound Identification

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

XIV. Field Duplicates

Samples CLJ100-CS-040 and CLJ100-CS-040DP were identified as field duplicates. No chlorinated pesticides were detected in any of the samples with the following exceptions:

	Concentra		
Compound	CLJ100-CS-040	CLJ100-CS-040DP	RPD
4,4'-DDD	170	ND	Not calculable
4,4'-DDE	120	ND	Not calculable
Dieldrin	43	31	32

XV. Field Blanks

Sample CLJ100-RB-531 was identified as a rinsate. No chlorinated pesticide contaminants were found in this blank.

1920C3.OH3 4

Sample CLJ100-FB-531 was identified as a field blank. No chlorinated pesticide contaminants were found in this blank.

1920C3.OH3 5

Camp Lejeune Chlorinated Pesticides - Data Qualification Summary - SDG 96F004

No Sample Data Qualified in this SDG

Camp Lejeune Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 96F004

No Sample Data Qualified in this SDG

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-031 CONTROL NO.: F004-01 % MOISTURE: 8.8	DATE COLLE DATE RECEI DATE EXTRA DATE ANALY MATRIX: DILUTION F.	CTED: 05/31/96 VED: 06/01/96 CTED: 06/04/96 ZED: 06/04/96 SOIL ACTOR: 1	مه. م
PARAMETERS	REUULUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	RL (ug/kg) 18.6 11.9 21.4 18.6 110 110 110 110 218.6 21.9 21.10 218.19 21.10 218.19 21.10 219.548 1100 2190	
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 99 94	QC LIMIT 20-150 20-150	

PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-032 CONTROL NO.: F004-02	DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: MATRIX: DILUTION FACTOR:	05/31/96 06/01/96 06/04/96 06/04/96 SOIL 1	n)
---	--	---	----

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	888888888888888888888888888888888888888	18.3 10.593881088108810881088108810881088108810881
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 101 96	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-033 CONTROL NO.: F004-03 % MOISTURE: 9.3		EIVED: 06/01/96 RACTED: 06/04/96 LYZED: 06/04/96	N 76
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	RESULTS (ug/kg) NDD NDD NDD NDD NDD NDD NDD NDD NDD NDD	RL (ug/kg) 	

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-034 CONTROL NO.: F004-04 % MOISTURE: 6.6	DILUTION	JECTED: 05/31/96 JUED: 06/01/96 JACTED: 06/04/96 JYZED: 06/04/96 SOIL	o.
PARAMETERS	901 51x1 901 801 801 801	RL (ug/kg) 18.2 10.7 21.4 26.8 18.2 107 107 107 21.4 18.2 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21	8
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 95 96	QC LIMIT 20-150 20-150	

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-035 CONTROL NO.: F004-05 % MOISTURE: 17.4	DATE COLI DATE RECI DATE EXTI DATE ANAI MATRIX: DILUTION	EIVED: 06/01/96 RACTED: 06/04/96 LYZED: 06/04/96 SOIL FACTOR: 1	
			m ar
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg) 20.6 12.1 24.2 30.3 20.6 121	8,2°
alpha-Chlordane qamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	88888888888888	121 121 121 121 24.2 20.6 242 24.2 12.1 12.42 2405 1210 2420	
	% RECOVERY	QC LIMIT	
Tetrachloro-m-xylene Decachlorobiphenyl	95 89	20-150 20-150	
	=======================================	=======================================	

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-036 CONTROL NO.: F004-06 % MOISTURE: 11.4	DATE REG DATE EXT DATE ANI MATRIX:	LLECTED: 05/31/96 CEIVED: 06/01/96 FRACTED: 06/04/96 ALYZED: 06/04/96 SOIL N FACTOR: 1	
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Methoxychlor Toxaphene	RESU/KU - RESU/K	RL (ug/kg) 19.2 12.6 28.2 19.3 113 113 113 113 22.6 22.6 22.6 22.6 22.6 11.3 22.6 22.6 22.6 11.3 22.6 22.6 22.6 22.6 22.6 22.6 23.0 24.0 25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	Syler a
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 98 98	QC LIMIT 20-150 20-150	

RL: Reporting Limit
*: Was diluted at DF 10 and reanalyzed on 06/05/96 due to high concentration level.

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-037 CONTROL NO.: F004-07 % MOISTURE: 12.3	DATE COLLEC DATE RECEIV DATE EXTRAC DATE ANALYZ MATRIX: DILUTION FA	TED: 05/31/96 ED: 06/01/96 TED: 06/04/96 ED: 06/04/96 SOIL CTOR: 1	Y 10
PARAMETERS	REGULTS ULK SUK NEEDENEENEENEENEENEENEENEENEENEENEENEENE	19.4 11.4 22.8 28.5 19.4 114 114 114 114 22.8 19.2 22.8 11.4 22.8 11.4 22.8 21.4 22.8 21.4 22.8	a're
	% RECOVERY 93 91	QC LIMIT 20-150 20-150	

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-038 CONTROL NO.: F004-08 % MOISTURE: 6.3	MATRIX:	LECTED: 05/31/96 EIVED: 06/01/96 RACTED: 06/04/96 LYZED: 06/04/96	
PARAMETERS	REUDING TENDER TO THE STATE OF	RL (ug/kg) 	3.20.76
Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 100 95	QC LIMIT 20-150 20-150	_

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-040 CONTROL NO.: F004-10 % MOISTURE: 15.8	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	LECTED: 05/31/96 EIVED: 06/01/96 RACTED: 06/04/96 LYZED: 06/04/96 SOIL FACTOR: 1	•
PARAMETERS	RESULTS (ULTS) NDD NDD NDD NDD NDD NDD NDD NDD NDD NDD	RL (ug/kg)	ندله ا

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-040DP CONTROL NO.: F004-11 % MOISTURE: 15.5	DATE COI DATE REC DATE EXI DATE ANI MATRIX: DILUTION	LLECTED: 05/31/96 DEIVED: 06/01/96 FRACTED: 06/04/96 ALYZED: 06/04/96 SOIL N FACTOR: 1	_
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4.4'-DDD 4.4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	SULKI SU SULKI SU SULKI SU SU SULKI SU SU SU SU SU SU SU SU SU SU SU SU SU	RL (ug/kg) 20.1 11.8 23.7 29.1 118 118 118 118 118 11.8 23.7 20.37 21.8 11.8 23.7 23.7	8.20 x
	% RECOVERY	QC LIMIT	
Tetrachloro-m-xylene Decachlorobiphenyl	97 90	20-150 20-150	

=========	2	=======	=======	=======
CLIENT:	OHM	DATE COL	LECTED:	05/31/96
PROJECT:	18319/CAMP LEJEUNE	DATE REC	EIVED	06/01/96
BATCH NO.:	96F004	DATE EXT	RACTED:	06/04/96
SAMPLE ID:	CLJ100-CS-041	DATE ANA		06/04/96
CONTROL NO.:	F004-12	MATRIX:		SOIL
% MOISTURE:	9 7	DILUTION	FACTOR.	ī
	J . ,	D12011011	-110-010.	-
=========		========	======:	========

3.20-27.9

RESULTS **PARAMETERS** (ug/kg) (ug/kg) 18.8 Aldrin ND 11.1 22.1 27.7 alpha-BHC ND beta-BHC ND delta-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4.4'-DDD ND18.8 ND ND111 ND111 ND 111 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II ND 111 111 22.1 ND ND 18.8 ND221 22.1 ND Endosulfan Sulfate ND 111 Endrin ND Endrin aldehyde Heptachlor 11.1 NDND Heptachlor Epoxide Methoxychlor 554 ND1110 ND Toxaphéne ND 2210 % RECOVERY SURROGATE PARAMETER QC LIMIT _ _ _ _ _ _ _ ----20-150 20-150 99 Tetrachloro-m-xylene 96 Decachlorobiphenyl

RL: Reporting Limit

12

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-042 CONTROL NO.: F004-13 % MOISTURE: 8.3	DATE COLI	EIVED: 06/01/96 PACTED: 06/04/96 PYZED: 06/04/96 SOIL	
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	59 149 1888888888888888888888888888888888	RL (ug/kg) 	3,70,000
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 97 93	QC LIMIT 20-150 20-150	_

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-043 CONTROL NO.: F004-14 % MOISTURE: 12.2	DATE COI DATE REC DATE EXT DATE AND MATRIX: DILUTION	LLECTED: 05/31/96 CEIVED: 06/01/96 FRACTED: 06/04/96 ALYZED: 06/04/96 SOIL N FACTOR: 1	
PARAMETERS	SS SEEREREEEEEEEEEEEEEEEEEEEEEEEEEEEEE	RL (ug/kg) 19.4 11.4 22.8 28.5 19.4 114 114 114 22.8 19.28 19.28 22.8 11.4 22.8 11.4 22.8 569 1140 2280	۵) براد جرین
	% RECOVERY	QC LIMIT	
Tetrachloro-m-xylene Decachlorobiphenyl	99 98	20-150 20-150	

BATCH NO.: 96F	19/CAMP LEJEUNE 004 100-CS-044 4-15	DATE EXT DATE ANA MATRIX:	TEIVED: 06/01/96 TRACTED: 06/04/96	
PARAMETERS		RESULTS SULKY) FENDENDENDENDENDENDENDENDENDENDENDENDENDE	RL (ug/kg) 18.2 10.7 21.4 26.7 18.2 107 107 107 107 21.4 18.2 21.4	\$\$ ³
Endrin	ice	MD MD	21.7	

ND

ND

ND ND ND

ND

% RECOVERY

95 97 Tetrachloro-m-xylene Decachlorobiphenyl 20-150 20-150

Reporting Limit RL:

Endrin

Toxaphene

Endrin aldehyde

Heptachlor Epoxide Methoxychlor

SURROGATE PARAMETER

21.4

10.7

214 534 1070

2140

QC LIMIT

PARAMETERS	CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-045 CONTROL NO.: F004-16 % MOISTURE: 7.6	DATE COI DATE REC DATE EXI DATE ANA MATRIX: DILUTION	LECTED: 05/31/9 CEIVED: 06/01/9 CRACTED: 06/04/9 ALYZED: 06/05/9 SOIL FACTOR: 1	= 66666
	Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor Toxaphene SURROGATE PARAMETER	()	(ug/kg)4.86.14.88.100.11.10.22.78.100.88.61.4.88.100.11.00.11.10.10	8,20.00

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-046 CONTROL NO.: F004-17 % MOISTURE: 6.9	DATE COI	LLECTED: 05/31/96 DEIVED: 06/01/96 FRACTED: 06/04/96 ALYZED: 06/05/96 SOIL J FACTOR: 1	•
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor Toxaphene	### ##################################	RL (ug/kg) 18.3 10.7 21.5 26.9 18.3 107 107 107 21.5 18.3 21.5 18.3 21.5 107 10.7 21.5 21.5	Bre in
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 102 102	QC LIMIT 20-150 20-150	•

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-047 CONTROL NO.: F004-18 % MOISTURE: 10.3	DATE COLLECT DATE RECEIVE DATE EXTRACT DATE ANALYZE MATRIX: DILUTION FAC	ED: 05/31/96 D: 06/01/96 ED: 06/04/96 D: 06/05/96 SOIL TOR: 1
PARAMETERS	RESULTS ()	RL (ug/kg)

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-RB-531 CONTROL NO.: F004-19 % MOISTURE: NA	DATE COI DATE REC DATE EXT DATE ANA MATRIX: DILUTION		
PARAMETERS	S) 17 18 18 18 18 18 18 18		
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 104 50	QC LIMIT 30-150 24-154	

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-FB-531 CONTROL NO.: F004-20 % MOISTURE: NA	DATE COLL DATE RECE DATE EXTR DATE ANAL MATRIX: DILUTION	IVED: 06/01/96 ACTED: 06/04/96 YZED: 06/05/96 WATER	
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	SUULLI INDERENTATION IN THE SUULLI INDEPENDENTATION IN THE SUULLI INDEPENDENTATION IN THE SUULLI IN	RL (ug/L) 8-2 (ug/L) 8	

LDC #:	1920C3	VALIDATION COMPLETENESS WORKSHEET	Date: 8-12-96
SDG #:	96F004	EPA Level III X NFESC Level C	Page: 1 of 1
Laboratory	: CKY, Inc.		Reviewer: 2
			2nd Reviewer:

METHOD: GC Organochlorine Pesticides (EPA SW 846 Method 8080)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
l.	Technical holding times	A	Sampling dates: 5-31-16
11.	GC/ECD Instrument Performance Check	A	
III.	Initial calibration	A	·1. RSP
IV.	Continuing calibration	A COR	1. 450 D
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	No AQ ms/mo, Oc samples
VIII.	Laboratory control samples	Α	105/1CD
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	`
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	Α	
XIV.	Field duplicates	ςω	0= 9,10
XV.	Field blanks	No	R= 18 FB= 19

Note:

A = Acceptable

SW = See worksheet

ND = No compounds detected

D = Duplicate

N = Not provided/applicable

R = Rinsate

TB = Trip blank

FB = Field blank

EB = Equipment blank

Validated Samples:

1	CLJ100-CS-031 /	Soi	11	CLJ100-CS-041/	soil	21	CLJ100-CS-041MSD	soil
2	CLJ100-CS-032		12	CLJ100-CS-042 /		22	mblkis	1
3	CLJ100-CS-033-		13	CLJ100-CS-043 /		23	MBLKIW	ĄQ
4	CLJ100-CS-034 ~		14	CLJ100-CS-044		24		
5	CLJ100-CS-035 /		15	CLJ100-CS-045 /		25		
6	CLJ100-CS-036		16	CLJ100-CS-046-		26		
7	CLJ100-CS-037		17	CLJ100-CS-047-	1	27		
8	CLJ100-CS-038 /		18R	CLJ100-RB-531-	AQ	28		
94	CLJ100-CS-040 /		19 F	CW100-FB-531 ~		29		
10	CLJ100-CS-040DP/	1	20	CLJ100-CS-041MS	Soil	30		

1920C3W.OH3

primary - RT4-35 confirm - RT4-5 Several CCV: were out on confirmation column

LDC #: 1920C3 SDG #: 9LF004

VALIDATION FINDINGS WORKSHEET Field Duplicates

Page:	lof1
Reviewer:	2)
2nd reviewer:	gl

40D: GC Pesticides/PCBs (EPA SW 846 Method 8080)

ØN N/A

Were field duplicate pairs identified in this SDG?

Were target compounds detected in thie field duplicate pairs?

	Concentrati		
Compound	9	0 0	RPD
4.4'-000	170	שא	Nc
4,41-80E	120	No	NC
buldsin	43	31	32
			
	•		

	Concentration ()	·
Compound		RPD
		•

	Concentration ()	
Compound		RPD
	-	
	·	

	Concentration ()	
Compound		RPD

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name:

Camp Lejeune

Collection Date:

June 1, 1996

LDC Report Date:

August 14, 1996

Matrix:

Soil

Parameters:

Chlorinated Pesticides

Laboratory:

CKY, Inc.

Sample Delivery Group (SDG): 96F009

Sample Identification

CLJ100-CS-048

CLJ100-CS-049

CLJ100-CS-050

CLJ100-CS-050DP

CLJ100-CS-051

CLJ100-CS-052

CLJ100-CS-053

CLJ100-CS-054

CLJ100-CS-055

CLJ100-CS-056

CLJ100-CS-057

CLJ100-CS-058

CLJ100-CS-059

CLJ100-CS-060

CLJ100-CS-060DP

CLJ100-CS-061

CLJ100-CS-062

CLJ100-CS-063

CLJ100-CS-048MS

CLJ100-CS-048MSD

Introduction

This data review covers 20 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8080 for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for EPA SW 846 Method 8080. The modifications were based on EPA SW 846 Method 8080.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or element was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or element was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

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I. Technical Holding Times

All technical holding time requirements were met.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG 96F009	All TCL compounds	More than ten samples were run in between CCVs.	No more than ten samples to be run between CCVs.	None	A

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

The individual 4,4'-DDT and Endrin breakdowns were less than 20.0%.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

1920D3.OH3 3

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Pesticide Cleanup Checks

a. Florisii Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XI. Target Compound Identification

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

XIV. Field Duplicates

Samples CLJ100-CS-050 and CLJ100-CS-050DP and samples CLJ100-CS-060 and CLJ100-CS-060DP were identified as field duplicates. No chlorinated pesticides were detected in any of the samples with the following exceptions:

	Concentra		
Compound	CLJ100-CS-050	CLJ100-CS-050DP	RPD
Dieldrin	62	100	47

XV. Field Blanks

No field blanks were identified in this SDG.

1920D3.OH3

Camp Lejeune
Chlorinated Pesticides - Data Qualification Summary - SDG 96F009

No Sample Data Qualified in this SDG

Camp Lejeune Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 96F009

No Sample Data Qualified in this SDG

1920D3.OH3 5

DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: 06/01/96 06/04/96 06/05/96 CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE
BATCH NO.: 96F009
SAMPLE ID: CLJ100-CS-048
CONTROL NO.: F009-01
% MOISTURE: 14.3 06/06/96 MATRIX: SOIL DILUTION FACTOR: 8-20-90 RESULTS RI. **PARAMETERS** (ug/kg) (ug/kg) Aldrin ND 19.8 alpha-BHC 11.7 ND 23.3 29.2 19.8 117 beta-BHC delta-BHC ND ND gamma-BHC (Lindane) ND alpha-Chlordane ND gamma-Chlordane ND4,4'-DDD 4,4'-DDE ND117 ND 117 4,4'-DDT ND 117 Dieldrin 23.3 ND Endosulfan I Endosulfan II Endosulfan Sulfate ND 19.8 ND 233 23.3 ND Endrin ND Endrin aldehyde ND Heptachlor ND 233 Heptachlor Epoxide ND 583 Methoxychlor 1170 ND Toxaphene 2330 ND SURROGATE PARAMETER % RECOVERY QC LIMIT 100 Tetrachloro-m-xylene 20-150 Decachlorobiphenyl 88 20-150

RL: Reporting Limit

02

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS-049 CONTROL NO.: F009-02 % MOISTURE: 13.3	DATE REC DATE EXT DATE ANA MATRIX:	LECTED: 06/01/96 EIVED: 06/04/96 RACTED: 06/05/96 LYZED: 06/06/96 SOIL FACTOR: 1	_
PARAMETERS	50) 14,1200000000000000000000000000000000000	RL (ug/kg) 19.6 11.5 23.8 19.6 115 115 115 115 23.1 23.1 23.1 11.5 12.37 11.50 23.10	8, 30, clo
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 96 93	QC LIMIT 20-150 20-150	

3.20,00

EPA METHOD 8080 PESTICIDES

CLIENT: OHM DATE COLLECTED: 06/01/96
PROJECT: 18319/CAMP LEJEUNE DATE RECEIVED: 06/04/96
BATCH NO.: 96F009 DATE EXTRACTED: 06/05/96
SAMPLE ID: CLJ100-CS-050 DATE ANALYZED: 06/06/96
CONTROL NO.: F009-03 MATRIX: SOIL
% MOISTURE: 6.8 DILUTION FACTOR: 1

PARAMETERS		RL (ug/kg) 18.2 10.7 21.5 26.8 18.2 107 107 107 21.5 21.5
Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene		107 10.7 215 536 1070 2150
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 94 93	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS050DP CONTROL NO.: F009-04 % MOISTURE: 17.9	DATE COI DATE REC DATE EXT DATE ANA MATRIX: DILUTION	TEIVED: 06/04/96 TRACTED: 06/05/96 ALYZED: 06/06/96	•
PARAMETERS	RESULTS (ULKG) ND ND ND ND ND ND ND ND ND ND ND ND ND N	RL (ug/kg) 20.7 12.2 24.4 30.5 20.7 122 122 122 122 122 122 122 24.4 20.7 24.4 20.7 24.4 21.2 12.2 24.4 20.7 24.4 20.7 24.4 21.2 21.2 21.2 21.2 21.2 21.2 21.2	20 A
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 76 76	QC LIMIT 20-150 20-150	

=========		=======================================	=======
CLIENT:	OHM	DATE COLLECTED:	06/01/96
PROJECT:	18319/CAMP LEJEUNE	DATE RECEIVED:	06/04/96
BATCH NO.:	96F009	DATE EXTRACTED:	06/05/95
SAMPLE ID:	CLJ100-CS-051	DATE ANALYZED:	
CONTROL NO.:	F009-05	MATRIX:	SOIL
% MOISTURE:		DILUTION FACTOR:	1
PROJECT: BATCH NO.: SAMPLE ID: CONTROL NO.:	18319/CAMP LEJEUNE 96F009 CLJ100-CS-051 F009-05	DATE EXTRACTED: DATE ANALYZED: MATRIX:	06/05/96 06/06/96 SOIL

8,50,00 RESULTS RL **PARAMETERS** (ug/kg) (ug/kg) 19.8 11.7 Aldrin ND ND alpha-BHC 23.3 29.1 beta-BHC ND delta-BHC ND 19.8 gamma-BHC (Lindane) ND alpha-Chlordane gamma-Chlordane ND ND 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin 117 ND ND 117 ND117 ND 19.8 Endosulfan I ND 233 23.3 117 Endosulfan II Endosulfan Sulfate ND ND Endrin aldehyde ND ND 11.7 233 Heptachlor ND 583 Heptachlor Epoxide ND Methoxychlor ND 1170 2330 ND Toxaphene SURROGATE PARAMETER % RECOVERY QC LIMIT 20-150 20-150 Tetrachloro-m-xylene 94 95 Decachlorobiphenyl

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS-052 CONTROL NO.: F009-06 % MOISTURE: 6.7	DATE COLLE DATE RECEI DATE EXTRA DATE ANALY MATRIX: DILUTION F.	VED: 06/04/96 CTED: 06/05/96 ZED: 06/06/96 SOIL	_
PARAMETERS	######################################	RL (ug/kg) 	8.20

ND% RECOVERY

20-150 20-150 Tetrachloro-m-xylene Decachlorobiphenyl 97 93

RL: Reporting Limit

SURROGATE PARAMETER

Methoxychlor Toxaphene

2140

QC LIMIT

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS-053 CONTROL NO.: F009-07 % MOISTURE: 5.1	DATE COLI DATE RECE DATE EXTE DATE ANAI MATRIX: DILUTION	
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4.4'-DDD 4.4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	S) LTG: D/K: DD/C:	RL (ug/kg) 17.9 10.5 21.1 26.3 17.9 105 105 105 105 21.1 17.9 211 21.1 105 10.5 21.1 21.1 21.1 21.1 21.1 21.1
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 96 99	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS-054 CONTROL NO.: F009-08 % MOISTURE: 7.7	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/04/96 RACTED: 06/05/96 LYZED: 06/06/96	•
PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	De.av
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan Sulfate Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	988888888888888888888888888888888888888	18.4 10.8 21.7 27.1 18.4 108 108 108 108 21.7 18.4 21.7 21.7 21.7 21.7 21.7 21.7 21.7	φ'ς '
SURROGATE PARAMETER	% RECOVERY	QC LIMIT	

97 95

20-150 20-150

RL: Reporting Limit

Tetrachloro-m-xylene Decachlorobiphenyl

CLIENT: ÓHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS-055 CONTROL NO.: F009-09 % MOISTURE: 7.4	DATE R DATE E DATE A MATRIX DILUTI	COLLECTED: 06/01/96 RECEIVED: 06/04/96 EXTRACTED: 06/05/96 EXNALYZED: 06/06/96 SOIL CON FACTOR: 1
PARAMETERS	# 9 5 1 1 1 1 1 1 1 1 1	RL (ug/kg)
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	91 95	20-150 20-150
	=========	

CLIENT: OHM

PROJECT: 18319/CAMP LEJEUNE
BATCH NO.: 96F009
SAMPLE ID: CLJ100-CS-056
CONTROL NO.: F009-10
MATRIX: SOIL
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	322222222222222222222222222222222222222	19.6 11.23.6 28.65.5 11.55.11.5 11.55.11.5 19.23.5 11.37.6 11.23.6 11.37.6 11.
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 102 101	QC LIMIT 20-150 20-150



CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS-057 CONTROL NO.: F009-11 % MOISTURE: 8.1	DATE RECE DATE EXTR	ECTED: 06/01/96 IVED: 06/04/96 ACTED: 06/05/96 YZED: 06/06/96 SOIL FACTOR: 1	8'20'
PARAMETERS Aldrin alpha-BHC	RESULTS (ug/kg) ND ND	RL (ug/kg) 18.5 10.9	

PARAMETERS	(ug/kg)	(ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	288888888888888888888888888888888888888	18.5 10.8 21.8 21.8 21.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9 1
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	96 95	20-150 20-150

CLIENT: OHM

PROJECT: 18319/CAMP LEJEUNE

BATCH NO.: 96F009

SAMPLE ID: CLJ100-CS-058

CONTROL NO.: F009-12

MOISTURE: 4.6

DATE COLLECTED: 06/01/96

DATE RECEIVED: 06/04/96

DATE EXTRACTED: 06/05/96

MATRIX: SOIL

MATRIX: SOIL

DILUTION FACTOR: 1

RESULTS **PARAMETERS** (ug/kg) (ug/kg) Aldrin ND 17.8 alpha-BHC 10.5 NDbeta-BHC ND 26.2 17.8 105 105 delta-BHC ND gamma-BHC (Lindane) NDalpha-Chlordane ND gamma-Chlordane 4,4'-DDD 4,4'-DDE NDND ND 105 4,4'-DDT 105 NDDieldrin ND Endosulfan I Endosulfan II Endosulfan Sulfate ND17.8 ND 210 ND 21 Endrin 10.5 10.5 210 ND Endrin aldehyde ND Heptachlor ND Heptachlor Epoxide ND 524 Methoxychlor ND 1050 Toxaphene ND 2100 SURROGATE PARAMETER % RECOVERY QC LIMIT -----Tetrachloro-m-xylene 20-150 98 Decachlorobiphenyl 95 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS-059 CONTROL NO.: F009-13 % MOISTURE: 4.6	DILUTION	LLECTED: 06/01/96 CEIVED: 06/04/96 FRACTED: 06/05/96 ALYZED: 06/06/96 SOIL V FACTOR: 1
PARAMETERS	######################################	RL (ug/kg) 17.8 10.51 26.85 1005 1005 1005 10.50 10.50 10.50 10.50 10.50 10.50 10.50 10.50 10.50 10.50 10.50
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	98 98	20-150 20-150
		========

RL: Reporting Limit

14

DATE COLLECTED:
DATE RECEIVED:
DATE EXTRACTED:
DATE ANALYZED:
MATRIX: CLIENT: OHM
PROJECT: 18319/CA
BATCH NO.: 96F009
SAMPLE ID: CLJ100-C
CONTROL NO.: F009-14
% MOISTURE: 10.4 06/01/96 06/04/96 06/05/96 06/06/96 SOIL 18319/CAMP LEJEUNE 96F009 CLJ100-CS-060 DILUTION FACTOR: 1



RESULTS RL (har) DAPAMETEDS

PARAMETERS	(ug/kg)	(ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	888888888888888888888888888888888888888	19 122.3 27.99 112 112 112 112 112 22.3 22.3 21.2 22.3 21.2 22.3 22.3
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 97 95	QC LIMIT 20-150 20-150



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DATE COLLECTED: 06/01/96
DATE RECEIVED: 06/04/96
DATE EXTRACTED: 06/05/96
DATE ANALYZED: 06/06/96
MATRIX: SOIL CLIENT: OHM 18319/CAMP LEJEUNE PROJECT: BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS060DP CONTROL NO.: F009-15 % MOISTURE: 4.0 DILUTION FACTOR: 1 RESULTS RL **PARAMETERS** (ug/kg) (ug/kg) 17.7 Aldrin ND alpha-BHC ND 10.4 20.8 26 17.7 beta-BHC ND delta-BHC ND gamma-BHC (Lindane) ND alpha-Chlordane gamma-Chlordane ND 104 104 ND 4,4'-DDD ND 104 4,4'-DDE ND 104 4,4'-DDT ND 104 Dieldrin Endosulfan I Endosulfan II 20.8 17.7 208 NDND ND Endosulfan Sulfate ND 20.8 Endrin ND 104 Endrin aldehyde Heptachlor 10.4 ND ND 208 Heptachlor Epoxide Methoxychlor 521 ND 1040 ND 2080 Toxaphene ND % RECOVERY SURROGATE PARAMETER QC LIMIT ------- ----96 20-150 Tetrachloro-m-xylene

94

20-150

RL: Reporting Limit

Decachlorobiphenyl

CLIENT: OHM DATE COLLECTED: 06/01/96
PROJECT: 18319/CAMP LEJEUNE DATE RECEIVED: 06/04/96
BATCH NO.: 96F009 DATE EXTRACTED: 06/05/96
SAMPLE ID: CLJ100-CS-061 DATE ANALYZED: 06/06/96
CONTROL NO.: F009-16 MATRIX: SOIL
% MOISTURE: 6.7 DILUTION FACTOR: 1

A ...

17

PARAMETERS	S 5 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	RL (ug/kg)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 89 93	QC LIMIT 20-150 20-150

CLIENT: OHM

PROJECT: 18319/CAMP LEJEUNE

BATCH NO.: 96F009

SAMPLE ID: CLJ100-CS-062

CONTROL NO.: F009-17

MOISTURE: 4.4

DATE COLLECTED: 06/01/96

DATE RECEIVED: 06/05/96

DATE EXTRACTED: 06/05/96

MATRIX: SOIL

DILUTION FACTOR: 1

SON I DEED BEED BEED BEED BEED BEED BEED BE	RL (ug/kg) 17.85 10.92685 1055 1055 1005 1005 1005 20.99 10.99 10.59 20.99 10.59 20.99 10.99 20.99
% RECOVERY	QC LIMIT
96 101	20-150 20-150
	kg)

RL: Reporting Limit

18

* MOISTURE: 12.1 DILUTION FACTOR: 1	BATCH NO.: SAMPLE ID:	OHM 18319/CAMP LEJEUNE 96F009 CLJ100-CS-063 F009-18 12.1	DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: MATRIX: DILUTION FACTOR:	06/01/96 06/04/9 06/05/9 06/06/96 SOIL
-------------------------------------	--------------------------	---	--	--

PARAMETERS	50 11 12 13 13 13 14 13 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	RL (ug/kg) 19.3 11.4 22.8 28.4 19.3 114 114 114 22.8 19.3 22.8 19.3 22.8 11.4 22.8 19.3
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 92 96	QC LIMIT 20-150 20-150



LDC #:	1920D3	VALIDATION COMPLETENESS WORKSHEET	Date: 8-12-96
SDG #:	96F009	EPA Level III X NFESC Level C	Page: I of I
Laboratory	r: CKY, Inc.		Reviewer: 2)
	00.0	The Paris of Control of the Control	2nd Reviewer:

METHOD: GC Organochlorine Pesticides (EPA SW 846 Method 8080)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
Ŀ	Technical holding times	A	Sampling dates: 6-1-96
ti.	GC/ECD Instrument Performance Check	A	
111.	Initial calibration	A	1. RSD
IV.	Continuing calibration	ASW	·1. 850 9
٧.	Blanks	A	
Ş.	Surrogate spikes	A.	
VII.	Matrix spike/Matrix spike duplicates	Α	
VIII.	Laboratory control samples	Α	LCS
IX.	Regional quality assurance and quality control	N	
Xe.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XJ.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overail assessment of data	Α	
XIV.	Field duplicates	SW	01= 5,4 *Dz= 14,15 *= ND
XV.	Field blanks	N	

Note: A = Acc

A = Acceptable

ND = No compounds detected

D = Duplicate

N = Not provided/applicable

R = Rinsate

TB = Trip blank

SW = See worksheet FB = Field blank

EB = Equipment blank

Validated Samples:

1	CLJ100-CS-048 /	Soil 1	1	CLJ100-CS-057	Soi`Ì	21	mBLKIS	soil
2	CLJ100-CS-049/	1 1	2	CLJ100-CS-058		22		
3 Д 1	CLJ100-CS-050 /	1	3	CLJ100-CS-059 -		22		
4	CLJ100-CS-050DP	1	4 %	CLJ100-CS-060 /		24		
5	CLJ100-CS-051/	1	5	CLJ100-CS-060DP		25	,	
6	CLJ100-CS-052	1	6	CLJ100-CS-061		26	5	
7	CLJ100-CS-053 /	1	7	CLJ100-CS-062 /		27	,	
8	CLJ100-CS-054 ~	1	8	CLJ100-CS-063 /		2!	3	
9	CLJ100-CS-055	1	9	CLJ100-CS-048MS		2)	
10	CLJ100-CS-056/	4 2	20	CLJ100-CS-048MSD	1	30		

LDC #: 192 3 SDG #: 96F609

VALIDATION FIND. AS WORKSHEET **Continuing Calibration**

F:	1_01_
Reviewer:	a)
2nd Reviewer:	ei

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

Please see qualifications below for all questions answered "N" Not applicable questions are identified as "N/A".

What type or calibration verification calculation was performed?

(D) N N/A Were Evaluation mix standards run before initial calibration and before samples?

A)N N/A Were Endrin & 4,4'-DDT breakdowns acceptable in the Evaluation Mix standard (≤20.0% for individual breakdowns)?

M N/A Was at least one Individual Mix standards A and/or B run daily to verify the working curve? Y (R) N/A

Were continuing standards analyzed at a frequency of every 10 samples to verify the working curve?

(Y)N N/A Did the continuing calibration standards meet the percent difference (%D) / relative percent difference (RPD) criteria of <15.0%?

Level IV/D Only

Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

Y N N/A Were the percent difference (%D) results recalculated? (Please see Calibration verification results verification worksheet.)

Y N N/A Were the (%D) recalculated results within 10.0% of the reported results?

#	Date	Standard ID	Column	Compound	%D / RPD (Limit ≤ 15.0)	RT (Limit:	a) As	sociated Samples	Qualifications
		more than	10 Aa	mples w	re	(المه (L sangeles,	None/A
		analyzed	between	~ "ceV 'S.		(gyms	tmso and	
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 √lpt	na-BHC	E. Heptachlor	I. Dield	lrin M. 4,	4'-DDD	Q. Endrin ketone	U. Toxaphene	Y. Arodor-1242	CC. DB 608 GG.

D.	Gamma-BHC	1	
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B Beta-BHC

C Delta-BHC

E. Heptachlor

H. Endosullan I

G. Heptachlor epoxide

I. Dieldrin J. 4,4'-DDE K. Endrin L. Endosullan II M. 4,4'-DDD N. Endosullan sullate O. 4,4'-DDT

P. Methoxychlor

Q. Endrin ketone R. Endrin aldehyde S. Alpha-chlordane

T. Gamma & ' ' dane

U. Toxaphene V. Aroclor-1016 W. Aroclor-1221 X. Aroclor-1232 Y. Aroclor-1242 Z. Aroclor-1248 AA. Aroclor-1254 BB. Aroclor-1260

CC. DB 608 DD. DB 1701

LDC #: 192003 SDG #: 96F009

VALIDATION FINDINGS WORKSHEET Field Duplicates

Page:	<u>'</u> of'_
Reviewer:_	رم
id reviewer:	7

OD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

	Concentration	on (mg/kg)	
Compound	3		RPD
Dieldrin	62	100	47
			·
	Concentrati	ion ()	
Compound			RPD
	Concentrat	ion ()	
Compound			RPD
	·		
·			
	Concentra	tion (
Compound			RPD

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name:

Camp Lejeune

Collection Date:

June 4, 1996

LDC Report Date:

August 14, 1996

Matrix:

Soil/Water

Parameters:

Chlorinated Pesticides

Laboratory:

CKY, Inc.

Sample Delivery Group (SDG): 96F014

Sample Identification

CLJ100-CS-064

CLJ100-CS-065

CLJ100-CS-066

CLJ100-CS-068

CLJ100-CS-069

CLJ100-CS-071

CLJ100-CS-073

CLJ100-CS-074

CLJ100-CS-075

- CLJ100-CS-077

CLJ100-CS-078

CLJ100-CS-079

CLJ100-FB-604

CLJ100-RB-604

CLJ100-CS-064MS

CLJ100-CS-064MSD

1920E3.OH3 1

Introduction

This data review covers 14 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8080 for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for EPA SW 846 Method 8080. The modifications were based on EPA SW 846 Method 8080.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or element was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or element was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All soil samples in SDG 96F014	All TCL compounds	More than ten samples were run between CCVs.	No more than ten samples to be run between CCVs.	None	A

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

The individual 4,4'-DDT and Endrin breakdowns were less than 20.0%.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were

1920E3.OH3 3

within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Pesticide Cleanup Checks

a. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XI. Target Compound Identification

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

XIV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

Sample CLJ100-FB-604 was identified as a field blank. No chlorinated pesticide contaminants were found in this blank.

Sample CLJ100-RB-604 was identified as a rinsate. No chlorinated pesticide contaminants were found in this blank.

1920E3.OH3

Camp Lejeune Chlorinated Pesticides - Data Qualification Summary - SDG 96F014

No Sample Data Qualified in this SDG

Camp Lejeune Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 96F014

No Sample Data Qualified in this SDG

LIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F014 SAMPLE ID: CLJ100-CS-064 CONTROL NO.: F014-01 % MOISTURE: 3.4	DATE COLLECT DATE RECEIVE DATE EXTRACT DATE ANALYZE MATRIX: DILUTION FAC	ED: 06/04/96 D: 06/05/96 \$ ED: 06/05/96 D: 06/07/96 \$ D: SOIL TOR: 1
PARAMETERS	S	RL (ug/kg) 17.6 10.4 20.7 25.9 17.04 104 104 104 20.7 17.6 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7
URROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 	QC LIMIT 20-150 20-150

CLIENT: OHM
PROJECT: 18319/CE
BATCH NO.: 96F014
SAMPLE ID: CLJ100-C
CONTROL NO.: F014-02
% MOISTURE: 13.9 DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: 06/04/96 06/05/96 06/05/96 06/07/96 18319/CAMP LEJEUNE 96F014 CLJ100-CS-065 3.20 76 MATRIX: SOIL DILUTION FACTOR: 1 RESULTS RL (ug/kg) **PARAMETERS** (ug/kg) Aldrin ND 19.7 alpha-BHC ND 11.6 beta-BHC ND 23.2 delta-BHC gamma-BHC 29 19.7 ND (Lindane) ND alpha-Chlordane gamma-Chlordane ND 116 ND 116 4,4'-DDD ND 116 4,4'-DDE ND 116 4,4'-DDT ND 116 23.2 19.7 232 23.2 116 Dieldrin Endosulfan I Endosulfan II ND ND ND Endosulfan Sulfate ND Endrin ND Endrin aldehyde Heptachlor 11.6 ND ND Heptachlor Epoxide ND 581 Methoxychlor ND 1160 Toxaphene ND 2320 SURROGATE PARAMETER % RECOVERY QC LIMIT -----92 85 Tetrachloro-m-xylene 20-150

RL: Reporting Limit

Decachlorobiphenyl

20-150

PROJECT: 18319/CAMP LEJEUNE DA BATCH NO.: 96F014 DA SAMPLE ID: CLJ100-CS-066 DA CONTROL NO.: F014-03	ATE COLLECTED: ATE RECEIVED: ATE EXTRACTED: ATE ANALYZED: ATRIX: ILUTION FACTOR:	06/04/96 06/05/96 06/05/96 06/07/96 SOIL 1	8,20,316
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	89999999999999999999999999999999999999	19.7 11.6 28.9 19.76 1166 1166 11.0 23.166 11.3 23.166
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 89 89	QC LIMIT 20-150 20-150

5,20 al CLIENT: OHM
PROJECT: 18319/CAMP LE
BATCH NO.: 96F014
SAMPLE ID: CLJ100-CS-068
CONTROL NO.: F014-05
% MOISTURE: 14.3 DATE COLLECTED:
DATE RECEIVED:
DATE EXTRACTED:
DATE ANALYZED:
MATRIX:
DILUTION FACTOR: 06/04/96 06/05/96 06/05/96 06/07/96 18319/CAMP LEJEUNE SOIL 1 RESULTS **PARAMETERS** (ug/kg) (ug/kg) Aldrin ND 19.8 13.3 123.3 123.2 19.8 117 alpha-BHC ND beta-BHC ND delta-BHC
gamma-BHC (Linda
alpha-Chlordane
gamma-Chlordane
4,4'-DDD
4,4'-DDE
4,4'-DDT
Dieldrin
Endosulfan I delta-BHC ND (Lindane) ND ND ND ND 117 ND 117 117 23.3 19.8 233 ND ND ND Endosulfan II Endosulfan Sulfate ND 23.3 ND Endrin ND 11.7 Endrin aldehyde ND Heptachlor ND Heptachlor Epoxide Methoxychlor 583 ND 1170 ND 2330 Toxaphene ND SURROGATE PARAMETER RECOVERY OC LIMIT Tetrachloro-m-xylene Decachlorobiphenyl 85 20-150

90

RL: Reporting Limit 20-150

CLIENT: OHM
PROJECT: 18319/CF
BATCH NO.: 96F014
SAMPLE ID: CLJ100-C
CONTROL NO.: F014-06
% MOISTURE: 12.6 DATE COLLECTED:
DATE RECEIVED:
DATE EXTRACTED:
DATE ANALYZED:
MATRIX: 06/04/96 06/05/96 06/05/96 06/07/96 SOIL 8,2E,36 ORM 18319/CAMP LEJEUNE 96F014 CLJ100-CS-069 DILUTION FACTOR: 1

PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	RESULTS (ug,	RL (ug/kg) 19:549654 19:28:14444 11:144 11:114 11:12:29:22:14:20:14:29:22:14:20:14:29:22:14:20:14:2
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 91 91	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F014 SAMPLE ID: CLJ100-CS-071 CONTROL NO.: F014-09 % MOISTURE: 11.9	DATE COLI DATE RECI DATE EXTI DATE ANAI MATRIX: DILUTION	EIVED: 06/05/96 RACTED: 06/05/96 LYZED: 06/07/96 SOIL	3,70,20
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor Toxaphene SURROGATE PARAMETER	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND N	RL (ug/kg) 19.3 11.4 22.7 28.4 19.3 114 114 114 22.7 19.3 22.7 21.7 11.4 22.7 11.4 22.7 22.7 21.7	
Tetrachloro-m-xylene Decachlorobiphenyl	83 88 	20-150 20-150	

:========	=======:	=======		=====					
CLIENT: PROJECT: BATCH NO.: SAMPLE ID: CONTROL NO.: MOISTURE:	OHM 18319/CAMP 96F014 CLJ100-CS-(F014-11 14.1	LEJEUNE)73	=====	D: D: D: M: D:	ATE C ATE R ATE E ATE AI ATRIX ILUTI(OLLECTE ECEIVEI XTRACTE NALYZEI : ON FACT	ED: D: ED: D: COR:	06/04/96 06/05/96 06/05/96 06/07/96 SI	5,20
PARAMETERS	I ulfate yde poxide RAMETER)		2 1 2 QC I	RL() - 8 6 3 1 8 6 6 3 2 9 1 1 1 1 1 2 3 9 2 3 1 1 6 3 2 9 9 1 1 1 5 0 1 5 0 1 5 1 5 0 1 5 1 5 0 1 5 1 5	

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F014 SAMPLE ID: CLJ100-CS-074 CONTROL NO.: F014-12 % MOISTURE: 15.3	DATE COI DATE REC DATE EXT DATE ANI MATRIX: DILUTION	LLECTED: 06/04/96 CEIVED: 06/05/96 FRACTED: 06/05/96 ALYZED: 06/07/96 SOIL N FACTOR: 1	81° 100
Tetrachloro-m-xylene Decachlorobiphenyl	REUMINER DE DE DE DE DE DE DE DE DE DE DE DE DE	RL (ug/kg) 	

.

PROJECT: 18319/CAMP LEJEUNE DATE RECEIVED: 06/05/96 DATE RECEIVED: 06/05/96 DATE EXTRACTED: 06/05/96 PORTION OF THE PROJECT: 18319/CAMP LEJEUNE DATE RECEIVED: 06/05/96 PORTION DATE ANALYZED: 06/07/96 PORTION DATE ANALYZED: 06/07/96 PORTION DATE ANALYZED: 06/07/96 PORTION DATE ANALYZED: SOIL	BATCH NO.: 96F014 SAMPLE ID: CLJ100-CS-075
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	\$	19.3 11.4 22.7 28.4 19.3 114 114 114 11.7 29.2 21.4 219.2 21.2 21.2 21.2 21.2 21.2 21.2 21.
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 88 88	QC LIMIT 20-150 20-150

RL: Reporting Limit
*: Analyzed at DF=5 due to high concentration level

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO: 96F014 SAMPLE ID: CLJ100-CS-077 CONTROL NO: F014-15 % MOISTURE: 9.5	DATE COLLECT DATE RECEIVE DATE EXTRACT DATE ANALYZE MATRIX: DILUTION FAC	ED: 06/04/96 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
PARAMETERS	RESULT SOLUTION TO	RL (ug/kg)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 91 91	QC LIMIT 20-150 20-150

DATE COLLECTED:
DATE RECEIVED:
DATE EXTRACTED:
DATE ANALYZED:
MATRIX:
DILUTION FACTOR: CLIENT: OHM
PROJECT: 18319/CAMP LE
BATCH NO.: 96F014
SAMPLE ID: CLJ100-CS-078
CONTROL NO.: F014-16
% MOISTURE: 9.4 06/04/96 06/05/96 06/05/96 06/07/96 18319/CAMP LEJEUNE SOIL 1 RESULTS RT. **PARAMETERS** (ug/kg) (ug/kg) 18.8 Aldrin ND alpha-BHC ND 11 22.1 27.6 beta-BHC ND delta-BHC ND gamma-BHC 18.8 (Lindane) ND alpha-Chlordane gamma-Chlordane 110 ND ND 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin 110 ND ND 110 ND 110 22.1 ND Endosulfan I ND 18.8 Endosulfan II 221 ND Endosulfan Sulfate ND 22.1 Endrin ND 110 Endrin aldehyde ND 11 Heptachlor 221 ND Heptachlor Epoxide Methoxychlor ND 552 ND 1100 2210 Toxaphene ND JURROGATE PARAMETER % RECOVERY QC LIMIT Tetrachloro-m-xylene 80 20-150 Decachlorobiphenyl 89 20-150

RL: Reporting Limit

No ale

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F014 SAMPLE ID: CLJ100-CS-079 CONTROL NO.: F014-17 % MOISTURE: 10.1	DATE COLLEGE DATE RECEIVED DATE EXTRAGED DATE ANALYZED MATRIX: DILUTION FA	VED: 06/05/96 & CTED: 06/05/96 & ZED: 06/07/96 SOIL
PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	888888888888888888888888888888888888888	18.9 11.1 22.2 27.8 18.9 111 111 111 111 121 22.2 18.9 222 22.2 111 11.1 22.2 111 22.2
SURROGATE PARAMETER	% RECOVERY	QC LIMIT

86 89

RL: Reporting Limit

Tetrachloro-m-xylene Decachlorobiphenyl 20-150 20-150

CLIENT: OHM
PROJECT: 18319/C
BATCH NO.: 96F014
SAMPLE ID: CLJ100CONTROL NO.: F014-18
% MOISTURE: NA DATE COLLECTED:
DATE RECEIVED:
DATE EXTRACTED:
DATE ANALYZED:
MATRIX: 06/04/96 06/05/96 06/05/96 06/07/96 18319/CAMP LEJEUNE 96F014 CLJ100-FB-604 WATER DILUTION FACTOR: RESULTS **PARAMETERS** (ug/\bar{L}) (ug/L)______ Aldrin ND .04 alpha-BHC ND .03 beta-BHC .05 ND delta-BHC ND gamma-BHC (Lindane) ND .04alpha-Chlordane gamma-Chlordane 4,4'-DDD ND.14 ND .14 ND .04 4,4'-DDE ND $\bar{4}, \bar{4}' - \bar{D}\bar{D}\bar{T}$. 02 ND Dieldrin ND .14 Endosulfan I Endosulfan II Endosulfan Sulfate ND .04 ND .06 ND Endrin ND .03 Endrin aldehyde ND Heptachlor ND .05 Heptachlor Epoxide ND .05 Methoxychlor ND Toxaphene SURROGATE PARAMETER RECOVERY QC LIMIT 30-150 24-154 Tetrachloro-m-xylene 90

7ĭ

RL: Reporting Limit

Decachlorobiphenyl

8,22,16

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F014 SAMPLE ID: CLJ100-RB-604 CONTROL NO.: F014-19 % MOISTURE: NA	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	LECTED: 06/04/96 EIVED: 06/05/96 RACTED: 06/05/96 LYZED: 06/07/96 WATER FACTOR: 1
PARAMETERS	800 800 800 800 800 800 800 800 800 800	RL (ug/L) .04 .055 .055 .04 .14 .14 .12 .14 .04 .01 .01 .01 .055 .055 .055 .055
	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	93 59	30-150 24-154
=======================================	=======================================	=======================================

LDC #: 1920E3	VALIDATION COMPLETENESS WORKSHEET	Date: 8-12-96
SDG #: 96F014	EPA Level III X NFESC Level C	Page:
Laboratory: CKY, Inc.		Reviewer: 2
		2nd Reviewer:

METHOD: GC Organochlorine Pesticides (EPA SW 846 Method 8080)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
ī.	Technical holding times	Α	Sampling dates: 6.4-96
11.	GC/ECD Instrument Performance Check	Α	
111.	Initial calibration	Α	·1. RS0
IV.	Continuing calibration	W Asw	·/. 250 g
V.	Blanks	Α	
V 1.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	NO AR MS/MSO, OC samples
VIII.	Laboratory control samples	Α	ics licso
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Хb.	GPC Calibration	N	
XI.	Target compound identification	N	"
XII.	Compound quantitation and reported CRQLs	N	
וונא.	Overall assessment of data	Α	
XIV.	Field duplicates	N	
XV.	Field blanks	טא	FB = 13 R = 14

Note:

A = Acceptable

N = Not provided/applicable

SW = See worksheet

ND = No compounds detected

R = Rinsate

FB = Field blank

D = Duplicate

TB = Trip blank

EB = Equipment blank

Validated Samples:

1	CLJ100-CS-064/	soi	11	CLJ100-CS-078	Soil	21	
2	CLJ100-CS-065	1 1	12	CLJ100-CS-079/	1	22	
3	CLJ100-CS-066		13 F 3	CLJ100-FB-604 /	AQ	23	
4	CLJ100-CS-068		14R	CLJ100-RB-604	Ţ	24	
5	CLJ100-CS-069 /		15	CLJ100-CS-064MS	soil	25	
6	CLJ100-CS-071		16	CLJ100-CS-064MSD		26	
7	CLJ100-CS-073-		17	MBLICIS	1	27	
8	CW100-CS-074		18	MBUKIW	ΑQ	28	
9	CLJ100-CS-075		19_			29	
10	CLJ100-CS-077-		20			30	

LDC #: 15 23 SDG #: 96F014

VALIDATION FII GS WORKSHEET Continuing Calibration

: <u>د</u>	of 1
Reviewer:	2)
2nd Reviewer:	QC

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

Please see qualifications below for all questions answered "N" Not applicable questions are identified as "N/A".

What type or calibration verification calculation was performed? M %D or RPD Were Evaluation mix standards run before initial calibration and before samples?

Were Endrin & 4,4'-DDT breakdowns acceptable in the Evaluation Mix standard (<20.0% for individual breakdowns)?

Was at least one Individual Mix standards A and/or B run daily to verify the working curve?

Y ON/A Were continuing standards analyzed at a frequency of every 10 samples to verify the working curve?

YN N/A Did the continuing calibration standards meet the percent difference (%D) / relative percent difference (RPD) criteria of <15.0%?

Level IV/D Only

ON N/A

YN N/A

ØN N/A

Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

Y N N/A Were the percent difference (%D) results recalculated? (Please see Calibration verification results verification worksheet.)

Y N N/A Were the (%D) recalculated results within 10.0% of the reported results?

#	Date	Standard ID	Column	Compound	%D / RPD (Limit ≤ 15.0)	RT (Limits)	Associated Samples	Qualifications
1		more the	m 10	samples	were	()	all soil sample	None/A
		ando anal	gred.	between.	CCV'S.	().	all soil sample	<i>a</i> ///
)			()	MBLKIS	
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A.	Alpha-BHC	
a	Bota BHC	

E. Heptachlor

ptachlor

F. Aldrin

I. Dieldrin J. 4,4'-DDE K. Endrin M. 4,4'-DDD N. Endosulfan sulfate

O. 4,4'-DDT

Q. Endrin ketone a sulfate R. Endrin aldehyde S. Alpha-chlordane

etone U. Toxap Idehyde V. Arodo

U. Toxaphene V. Arodor-1016 W. Arodor-1221 X. Arodor-1232 Y. Aroclor-1242 Z. Aroclor-1248 AA. Aroclor-1254

BB. Aroclor-1260

CC. DB 608 DD. DB 1701 EF

HH._____

C. Delta-BHC D. Gamma-BHC G. Heptachlor epoxide H. Endosullan I

L. Endosultan II

P. Methoxychlor

interval.

T. Gamma-chlordane

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name:

Camp Lejeune

Collection Date:

June 5, 1996

LDC Report Date:

August 14, 1996

Matrix:

Soil

Parameters:

Chlorinated Pesticides

Laboratory:

CKY, Inc.

Sample Delivery Group (SDG): 96F019

Sample Identification

CLJ100-CS-080

CLJ100-CS-080DP

CLJ100-CS-081

CLJ100-CS-082

CLJ100-CS-083

CLJ100-CS-084

CLJ100-CS-085

CLJ100-CS-086

CLJ100-CS-087

CLJ100-CS-088

CLJ100-CS-089

CLJ100-CS-090

CLJ100-CS-090DP

CLJ100-CS-091

CLJ100-CS-092

CLJ100-CS-093

CLJ100-CS-094

CLJ100-CS-095

1920F3.OH3

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Introduction

This data review covers 18 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8080 for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for EPA SW 846 Method 8080. The modifications were based on EPA SW 846 Method 8080.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or element was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or element was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG 96F019	All TCL compounds	More than ten samples were run between CCVs.	No more than ten samples to be run between CCVs.	None	A

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

The individual 4.4'-DDT and Endrin breakdowns were less than 20.0%.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were

within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Pesticide Cleanup Checks

a. Florisii Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XI. Target Compound Identification

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

XIV. Field Duplicates

Samples CLJ100-CS-080 and CLJ100-CS-080DP and samples CLJ100-CS-090 and CLJ100-CS-090DP were identified as field duplicates. No chlorinated pesticides were detected in any of the samples.

XV. Field Blanks

No field blanks were identified in this SDG.

Camp Lejeune Chlorinated Pesticides - Data Qualification Summary - SDG 96F019

No Sample Data Qualified in this SDG

Camp Lejeune Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 96F019

No Sample Data Qualified in this SDG

1920F3.OH3 5

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-080 CONTROL NO.: F019-01 % MOISTURE: 7.6	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	LECTED: 06/05/96 & EIVED: 06/06/96 & CACTED: 06/06/96 & CACTED: 06/08/96 & CACTED: 06/08/96 & CACTED: 1
PARAMETERS	S) 1900 1000	RL (ug/kg)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 83 105	QC LIMIT 20-150 20-150

PARAMETERS (ug/kg) (ug/kg)	CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO: 96F019 SAMPLE ID: CLJ100-CS-080DP CONTROL NO: F019-02 % MOISTURE: 7.3	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	LECTED: 06/05/96 EIVED: 06/06/96 RACTED: 06/06/96 LYZED: 06/08/96 SOIL FACTOR: 1	2,20,26
	Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	y -	(ug/kg) 18.3 10.8 21.67 18.3 108 108 108 108 108 10.69 10.169 10.169 10.169 10.169 10.169 10.169 10.169 10.169 10.169 10.169 10.169 10.169 10.169 10.169 10.169 10.169 10.169 10.169	

CLIENT: OHM
PROJECT: 18319/CAMP LES
BATCH NO.: 96F019
SAMPLE ID: CLJ100-CS-081
CONTROL NO.: F019-03
% MOISTURE: 9.0 DATE COLLECTED: 06/05/96
DATE RECEIVED: 06/06/96
DATE EXTRACTED: 06/06/96
DATE ANALYZED: 06/08/96
MATRIX: SOIL 18319/CAMP LEJEUNE DILUTION FACTOR:

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	888888888888888888888888888888888888888	18.7 11 22 27.5 18.7 110 110 110 110 110 110 110 11
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 86 108	QC LIMIT 20-150 20-150



DATE COLLECTED: 06/05/96
DATE RECEIVED: 06/06/96
DATE EXTRACTED: 06/06/96
DATE ANALYZED: 06/08/96
MATRIX: SOIL CLIENT: PROJECT: OHM 18319/CAMP LEJEUNE 96F019 BATCH NO.: 96F019 SAMPLE ID: CLJ100-1 CONTROL NO.: F019-04 CLJ100-CS-082 MOISTURE: 6.8 DILUTION FACTOR: RESULTS RL **PARAMETERS** (ug/kg) (ug/kg) _ _ _ _ _ _ _ _ _ 18.2 Aldrin ND 10.7 21.5 26.8 alpha-BHC ND beta-BHC ND delta-BHC ND gamma-BHC (Lindane) ND 18.2 alpha-Chlordane gamma-Chlordane 107 ND 107 ND 4,4'-DDD ND 107 4,4'-DDE ND 107 4,4'-DDT 107 ND 21.5 18.2 215 Dieldrin ND Endosulfan I Endosulfan II NDND Endosulfan Sulfate ND 21.5 107 Endrin ND Endrin aldehyde ND 10.7 Heptachlor 215 536 ND Heptachlor Epoxide ND Methoxychlor 1070 ND Toxaphene ND 2150 SURROGATE PARAMETER % RECOVERY QC LIMIT 20-150 20-150 86 Tetrachloro-m-xylene 106 Decachlorobiphenyl

CLIENT: OHM
PROJECT: 18319/CAMP LE
BATCH NO.: 96F019
SAMPLE ID: CLJ100-CS-083
CONTROL NO.: F019-05
% MOISTURE: 8.0 DATE COLLECTED: 06/05/96 DATE RECEIVED: 06/06/96 DATE EXTRACTED: 06/06/96 DATE ANALYZED: 06/08/96 8,20% 18319/CAMP LEJEUNE 96F019 MATRIX: SOIL DILUTION FACTOR: 1 RESULTS (ug/kg) **PARAMETERS** (ug/kg) _____ Aldrin 18.5 ND alpha-BHC 10.9 ND 21.7 27.2 18.5 beta-BHC ND delta-BHC ND gamma-BHC (Lindane) ND alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE ND 109 ND ND 109 ND 109 4,4'-DDT ND 109 Dieldrin NDEndosulfan I Endosulfan II Endosulfan Sulfate 18.5 ND ND 217 21.7 NDEndrin 109 ND Endrin aldehyde ND 10.9 217 543 Heptachlor ND Heptachlor Epoxide ND Methoxychlor 1090 ND Toxaphene ND 2170

% RECOVERY

86

104

QC LIMIT

20-150

20-150

RL: Reporting Limit

SURROGATE PARAMETER

Tetrachloro-m-xylene

Decachlorobiphenyl

CLIENT: PROJECT: BATCH NO.: SAMPLE ID: CONTROL NO.: MOISTURE:		DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/06/99 RACTED: 06/06/99 LYZED: 06/08/99 SOIL	= 6 6 6 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8
PARAMETERS	ane	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg) 18.6 10.9 21.9 27.3 18.6 109 109 109 109 109 109	

ND ND

ND

ND ND

109 21.9 18.6 219

21.9

109

219 546 Heptachlor ND Heptachlor Epoxide ND 1090 2190 Methoxychlor ND Toxaphene ND

% RECOVERY SURROGATE PARAMETER QC LIMIT -----82 105 Tetrachloro-m-xylene Decachlorobiphenyl 20-150 20-150

RL: Reporting Limit

Endosulfan I Endosulfan II Endosulfan Sulfate

Endrin Endrin aldehyde

CLIENT: OHM

PROJECT: 18319/CAMP LEJEUNE

BATCH NO.: 96F019

SAMPLE ID: CLJ100-CS-085

CONTROL NO.: F019-07

MATRIX: SOIL

MOISTURE: 11.1

DILUTION FACTOR: 1

SOL SOL SOL SOL SOL SOL SOL SOL	RL (ug/kg)
% RECOVERY 89 105	QC LIMIT 20-150 20-150
	(ug/kg) NDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

	=======================================	=========
CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-086 CONTROL NO.: F019-08 % MOISTURE: 6.8	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/06/96 RACTED: 06/06/96 LYZED: 06/08/96 SOIL
	RESULTS	7.7
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	301 301 101 101 101	RL (ug/kg)
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	90 110	20-150 20-150

______ DATE COLLECTED: 06/05/96
DATE RECEIVED: 06/06/96
DATE EXTRACTED: 06/06/96
DATE ANALYZED: 06/08/96
MATRIX: SOIL
DILUTION FACTOR: 1 CLIENT: PROJECT: BATCH_NO.: MHO 18319/CAMP LEJEUNE 3 8.26 BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-087 CONTROL NO.: F019-09 % MOISTURE: 5.2 ______ RESULTS (ug/kg) (ug/kg) PARAMETERS 17.9 ND Aldrin 10.5 alpha-BHC ND ND 21.1 beta-BHC 26.4 17.9 delta-BHC gamma-BHC ND ND (Lindane) 105 alpha-Chlordane gamma-Chlordane ND 105 105 ND4,4'-DDD 4,4'-DDE ND 105 ND4,4,-DDT Dieldrin 105 ND 21.1 ND 17.9 Endosulfan I ND Endosulfan II ND 211 21.1 Endosulfan Sulfate ND105 ND Endrin Endrin aldehyde 10.5 ND 211 527 Heptachlor ND Heptachlor Epoxide ND 1050 Methoxychlor ND 2110 ND Toxaphene % RECOVERY QC LIMIT SURROGATE PARAMETER 91 20-150 Tetrachloro-m-xylene

106

Reporting Limit RL:

Decachlorobiphenyl

20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-088 CONTROL NO.: F019-10 % MOISTURE: 6.9	DATE COI DATE REC DATE EXT DATE ANA MATRIX: DILUTION	LECTED: 06/05/96 CEIVED: 06/06/96 CRACTED: 06/06/96 ALYZED: 06/08/96 SOIL FACTOR: 1	a) 3,20,76
PARAMETERS	SON I SERVICE OF THE	RL (ug/kg) 18.3 10.7 21.5 26.9 18.07 1007 1007 1007 21.5 18.3 21.5 10.7 21.5 10.7 21.5 10.7 21.5 21.5 21.5 21.5 21.5 21.5 21.5	
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 95 108	QC LIMIT 20-150 20-150	

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-089 CONTROL NO.: F019-11 % MOISTURE: 5.1	DATE REG DATE EX DATE AN MATRIX:	LLECTED: 06/05/96 CEIVED: 06/06/96 FRACTED: 06/06/96 ALYZED: 06/08/96 SOIL
=======================================	=======================================	=======================================
PARAMETERS	# # # # # # # # # # # # # # # # # # #	RL (ug/kg)
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	91 109	20-150 20-150

RL: Reporting Limit

13

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-090 CONTROL NO.: F019-12 % MOISTURE: 6.6	DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: MATRIX: DILUTION FACTOR	06/05/96 06/06/96 06/06/96 06/08/96 \$001L
PARAMETERS	ND ND ND ND ND ND ND ND ND ND ND ND ND N	RL g/kg) 18.2 10.7 21.4 26.8 18.2 107 107 107 107 21.4 18.2 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.4 21.5 335 1070 21.40 LIMIT 0-150 0-150

06/05/96 06/06/96 06/06/96 06/08/96 \$OIL DATE COLLECTED:
DATE RECEIVED:
DATE EXTRACTED:
DATE ANALYZED: CLIENT: OHM
PROJECT: 18319/CAMP LEJEUNE
BATCH NO.: 96F019
SAMPLE ID: CLJ100-CS-090DP
CONTROL NO.: F019-13
% MOISTURE: 6.9 MATRIX: DILUTION FACTOR: RESULTS RL (ug/kg) (ug/kg) PARAMETERS ______ 18.3 ND Aldrin 10.7 ND alpha-BHC 21.5 26.9 18.3 ND beta-BHC ND delta-BHC gamma-BHC (Lindalpha-Chlordane gamma-Chlordane ND (Lindane) ND ND 107 107 4,4'-DDD 4,4'-DDE ND 107 ND 4,4'-DDT Dieldrin 107 ND 21.5 18.3 215 21.5 ND ND Endosulfan I Endosulfan II ND Endosulfan Sulfate ND 107

ND

ND

ND

ND

ND

% RECOVERY

_____ 85

10.7

215 537

1070

2150

OC LIMIT

20-150

20-150

Tetrachloro-m-xylene Decachlorobiphenyl 111

Reporting Limit RL:

Endrin Endrin aldehyde

Hebtachlor Epoxide

SURROGATE PARAMETER

Heptachlor

Toxaphene

Methoxychlor

CLIENT: OHM
PROJECT: 18319/CP
BATCH NO.: 96F019
SAMPLE ID: CLJ100-C
CONTROL NO.: F019-14 06/05/96 06/06/96 06/06/96 06/08/96 DATE COLLECTED: 8,20.96 DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: 18319/CAMP LEJEUNE 96F019 CLJ100-CS-091 MATRIX: SOIL % MOISTURE: 13.4 DILUTION FACTOR: 1 RESULTS (ug/kg) (ug/kg) PARAMETERS 19.6 ND Aldrin alpha-BHC beta-BHC 11.5 ND $\bar{2}\bar{3}.1$ ND 28.9 delta-BHC ND gamma-BHC (Lindane) 19.6 ND 115 115 115 115 NDalpha-Chlordane gamma-Chlordane ND 4,4'-DDD 4,4'-DDE 4,4'-DDT ND 260 115 160 23.1 180 Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate 19.6 ND ND23.1 ND 115 ND Endrin 11.5 231 577 ND Endrin aldehyde ND Heptachlor Heptachlor Epoxide Methoxychlor ND 1150 ND Toxaphêne % RECOVERY QC LIMIT SURROGATE PARAMETER 87 20-150 Tetrachloro-m-xylene Decachlorobiphenyl 20-150 110

CLIENT: ÓHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-092 CONTROL NO.: F019-15 % MOISTURE: 12.0	DATE CC DATE RE DATE EX DATE AN MATRIX: DILUTIO	CLLECTED: 06/05/96 CCEIVED: 06/06/96 TRACTED: 06/06/96 ALYZED: 06/08/96 SOIL N FACTOR: 1	ه ه.2
PARAMETERS	SULVIER OF THE SULVIE	RL (ug/kg) 19.3 11.4 22.7 28.4 19.3 114 114 114 22.7 19.3 227 22.7 22.7 22.7 22.7 22.7 22.7 22.	

% RECOVERY

105 125

QC LIMIT

20-150 20-150

Reporting Limit

SURROGATE PARAMETER

Tetrachloro-m-xylene Decachlorobiphenyl

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-093 CONTROL NO.: F019-16 % MOISTURE: 17.7	DATE COI DATE REC DATE EXT DATE ANI MATRIX: DILUTION	LLECTED: 06/05/96 CEIVED: 06/06/96 FRACTED: 06/06/96 ALYZED: 06/08/96 SOIL N FACTOR: 1
PARAMETERS	S 9 1 R 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	RL (ug/kg) 20.7 12.2 24.3 30.4 20.7 122 122 122 122 122 122 24.3 24.3 24.3 122 12.2 243 608 1220 2430
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	81 108	20-150 20-150
	=======================================	

CLIENT: OHM DATE COLLECTED: 06/05/96
PROJECT: 18319/CAMP LEJEUNE DATE RECEIVED: 06/06/96
BATCH NO.: 96F019 DATE EXTRACTED: 06/06/96
SAMPLE ID: CLJ100-CS-094 DATE ANALYZED: 06/08/96
CONTROL NO.: F019-17 MATRIX: SOIL
% MOISTURE: 13.5 DILUTION FACTOR: 1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	25555555555555555555555555555555555555	19.7 19.3 19.3 19.3 19.3 19.3 19.3 11.3 11.3
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 88 110	QC LIMIT 20-150 20-150

EPA METHOD 8080

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-095 CONTROL NO.: F019-18 % MOISTURE: 16.3	DATE REC DATE EXT DATE ANA MATRIX:	LECTED: 06/05/96 EIVED: 06/06/96 RACTED: 06/06/96 LYZED: 06/08/96 SOIL FACTOR: 1
PARAMETERS	RESULTS (ug/kg)	RL (ug/kg) 20.3 11.9 23.9 29.3 119 119 119 23.3 23.3 23.9 23.9 23.9 23.9 23.9 23.
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	110 108	QC LIMIT 20-150 20-150

LDC #:	1920F3	VALIDATION COMPLE	TENESS WORKSHEET	Date: 8-12-96
SDG #:	96F019	EPA Level III	X NFESC Level C	Page: 1 of 1
Laboratory	: CKY, inc.	_		· · · · · · · · · · · · · · · · · · ·
				Reviewer: 2) 2nd Reviewer: W

METHOD: GC Organochlorine Pesticides (EPA SW 846 Method 8080)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
ı.	Technical holding times	A	Sampling dates: 6-5.16
II.	GC/ECD Instrument Performance Check	A	
111.	Initial calibration	Α	·/. RSD
IV.	Continuing calibration	DA-SW	1.0
V.	Blanks	Α	
VI.	Surrogate spikes	Α	
VII.	Matrix spike/Matrix spike duplicates	A	From other 506
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Terget compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	NO	1,=1,2 02=12,13
XV.	Field blanks	7	

Note:

A = Acceptable

ND = No compounds detected

D = Duplicate

N = Not provided/applicable SW = See worksheet R = Rinsate FB = Field blank TB = Trip blank EB = Equipment blank

Validated Samples:

1 29	CLJ100-CS-080	soil 11	CLJ100-CS-089	Soil	21	
2	CLJ100-CS-080DP /		CLJ100-CS-090 /		22	
3	CШ100-CS-081 ✓	13.	CLJ100-CS-090DP		23	
4	CW100-CS-082 /	14	CLJ100-CS-091 /		24	
5	CLJ100-CS-083 /	15	CLJ100-CS-092 /		25	
6	CLJ100-CS-084 /	16	CLJ100-CS-093 /		26	
7	CLJ100-CS-085/	17	CLJ100-CS-094		27	
8	CL100-CS-086 KT 0)	18	CLJ100-CS-095		28	
9	CLJ100-CS-087	19	MBLKIS		29	
10	CLJ100-CS-088 /	20			30	

LDC #: 19 SDG #: 96F019

VALIDATION FII GS WORKSHEET Continuing Calibration

ے:د	1 of 1
Reviewer:_	2)
nd Reviewer:	ec

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

Please see qualifications below for all questions answered "N" Not applicable questions are identified as "N/A".

What type or calibration verification calculation was performed? X %D or RPD

 \mathfrak{D} N N/A Were Evaluation mix standards run before initial calibration and before samples? Q N N/A

Were Endrin & 4,4'-DDT breakdowns acceptable in the Evaluation Mix standard (<20.0% for individual breakdowns)?

Was at least one Individual Mix standards A and/or B run daily to verify the working curve?

Y (N) N/A Were continuing standards analyzed at a frequency of every 10 samples to verify the working curve?

(Y)N N/A Did the continuing calibration standards meet the percent difference (%D) / relative percent difference (RPD) criteria of <15.0%?

Level IV/D Only

Q N N/A

Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

Y N N/A Were the percent difference (%D) results recalculated? (Please see Calibration verification results verification worksheet.)

Y N N/A Were the (%D) recalculated results within 10.0% of the reported results?

#	Date	Standard ID	Column	Compound	%D / RPD (Limit ≤ 15.0)	RT (Limits)	Associated Samples	Qualifications
1		more tha	m 10	samples	were	()	all samples	None/A
		more tha	gred	<u>between</u>	cev's.	()	+ blank	
			00			()		
						()		
						()		
						()		
						()		
						()		
					<u> </u>	(
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			<u> </u>	·····		()		
						()		
					,	(
)	···	
						()		
						()		
	ha-BHC	E. Heptachlor	I. Dield		4'-DDD	Q. Endrin ketone	U. Toxaph	ene Y. Aroclor-1242	CC. DB 608 GG

D.	Garryna-BHC	H.	Endosulfan I

B. Bela-BHC

C. Della-BHC

F. Aldrin G. Heptachlor epoxide

J. 4.4'-DDE K. Endrin L. Endosulfan II N. Endosullan sulfate O. 4,4'-DDT

P. Methoxychlor

R. Endrin aldehyde S. Alpha-chlordane T. Gamma-chlordane V. Aroclor-1016 W. Arodor-1221

X. Aroclor-1232

Z. Aroclor-1248 AA. Aroclor-1254 BB. Aroclor-1260 DD. DB 1701

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name:

Camp Lejeune

Collection Date:

June 6, 1996

LDC Report Date:

August 20, 1996

Matrix:

Soil/Water

Parameters:

Chlorinated Pesticides

1

Laboratory:

CKY, Inc.

Sample Delivery Group (SDG): 96F022

Sample Identification

CLJ100-CS-096

CLJ100-CS-097

CLJ100-CS-099

CLJ100-RB-606

CLJ100-FB-606

CLJ100-CS-100

CLJ100-CS-100DP

CLJ100-CS-096MS

CLJ100-CS-096MSD

1920G3.OH3

Introduction

This data review covers 7 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8080 for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for EPA SW 846 Method 8080. The modifications were based on EPA SW 846 Method 8080.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or element was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or element was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

1920G3.OH3 2

I. Technical Holding Times

All technical holding time requirements were met.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG 96F022	All TCL compounds	More than ten samples were run between CCVs.	No more than ten samples to be run between CCVs.	None	A

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

The individual 4,4'-DDT and Endrin breakdowns were less than 20.0%.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were

1920G3.OH3 3

within QC limits with the following exceptions:

Sample (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
CLJ100-CS-096MS/MSD (All soil samples in SDG 96F022)	4,4-DDD	-	-	62 (≤50)	J	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Pesticide Cleanup Checks

a. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XI. Target Compound Identification

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

XIV. Field Duplicates

Samples CLJ100-CS-100 and CLJ100-CS-100DP were identified as field duplicates. No chlorinated pesticides were detected in any of the samples with the following exceptions:

1920G3.OH3

	Concentra	Concentration (ug/Kg)			
Compound	CLJ100-CS-100	CLJ100-CS-100DP	RPD		
Aldrin	31	ND	Not calculable		

XV. Field Blanks

Sample CLJ100-FB-606 was identified as a field blank. No chlorinated pesticide contaminants were found in this blank.

Sample CLJ100-RB-606 was identified as a rinsate. No chlorinated pesticide contaminants were found in this blank.

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Camp Lejeune

Chlorinated Pesticides - Data Qualification Summary - SDG 96F022

SDG	Sample	Compound	Flag	A or P	Reason
96F022	CLJ100-CS-096 CLJ100-CS-097 CLJ100-CS-099 CLJ100-CS-100 CLJ100-CS-100DP	4,4-DDD	J	А	Matrix spike/Matrix spike duplicates (RPD)

Camp Lejeune

Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 96F022

No Sample Data Qualified in this SDG

6

1920G3.OH3

CLIENT: OHM PROJECT: 18319/CAMP LEJEUN BATCH NO.: 96F022 SAMPLE ID: CLJ100-CS-096 CONTROL NO.: F022-01 % MOISTURE: 11.7	DATE COLI E DATE RECE DATE EXTE DATE ANAI MATRIX: DILUTION	LECTED: 06/06/96 EIVED: 06/07/96 RACTED: 06/09/96 LYZED: 06/10/96 SOIL FACTOR: 1	S'2'
PARAMETERS	RESULTS TO THE SUL	RL (ug/kg) 19.3 11.3 22.7 28.3 19.3 113 113 113 22.7 19.3 22.7 19.3 22.7 11.3 22.7 11.3 22.7 22.7 22.7 22.7 22.7	
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 86 98	QC LIMIT 20-150	

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F022 SAMPLE ID: CLJ100-CS-097 CONTROL NO.: F022-02 MOISTURE: 12.4	MATRIX:	LECTED: 06/06/96 DEIVED: 06/07/96 TRACTED: 06/09/96 ALYZED: 06/10/96 SOIL N FACTOR: 1
PARAMETERS	30 12 12 13 14 16 16 16 16 16 16 16 16 16 16 16 16 16	RL (ug/kg) 19.4 11.4 22.8 28.5 19.4 114 114 21.8 19.4 22.8 22.8 22.8 22.8 11.4 22.8 22.8 22.8 22.8
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	88 103	20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F022 SAMPLE ID: CLJ100-CS-099 CONTROL NO.: F022-04 % MOISTURE: 12.3	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	LECTED: 06/06/96 EIVED: 06/07/96 PRACTED: 06/09/96 LYZED: 06/10/96 SOIL FACTOR: 1
PARAMETERS	SS SEEREEREEREEREEREEREEREEREEREEREEREEREER	RL (ug/kg) 19.4 11.4 22.8 28.5 19.4 114 114 21.4 22.8 19.4 22.8 19.2 22.8 11.4 11.4 22.8 570 1140 2280
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 	QC LIMIT 20-150 20-150

CLIENT: OHM DATE COLLECTED: 06/06/96
PROJECT: 18319/CAMP LEJEUNE DATE RECEIVED: 06/07/96
BATCH NO.: 96F022 DATE EXTRACTED: 06/09/96
SAMPLE ID: CLJ100-CS-100 DATE ANALYZED: 06/10/96
CONTROL NO.: F022-07 MATRIX: SOIL
% MOISTURE: 14.8 DILUTION FACTOR: 1

PARAMETERS	RESULTS ULTS ULTS ULTS ULTS ULTS ULTS ULTS	RL (ug/kg) 20 11.7 23.5 29.3 20 117 117 21.7 23.5 20 23.5 23.5 23.5 11.7 11.7 23.5 587 1170 2350
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 94 105	QC LIMIT 20-150 20-150

8

EPA METHOD 8080 PESTICIDES

 CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F022 SAMPLE ID: CLJ100-CS-100DP CONTROL NO.: F022-08 % MOISTURE: 14.9	DATE CO: DATE RE: DATE EX' DATE AN: MATRIX: DILUTIO	LLECTED: 06/06/96 CEIVED: 06/07/96 CEIVED: 06/07/96 CEIVED: 06/09/96 CEIVED: 06/10/96 CEIVE	
PARAMETERS	20 20 20 20 20 20 20 20 20 20 20 20 20 2	20 11.8 23.5 29.4 20 118 118 118 118 23.5 23.5 23.5 11.8 23.5 11.8 23.5 23.5 23.5 23.5 23.5 23.5	

RL: Reporting Limit

CKY INC., ANALYTICAL LABORATORIES, 630 Maple Ave., Torrance, Calif. 90503 Tel. (310) 618-8889 Fax: (310) 618-0818

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F022 SAMPLE ID: CLJ100-RB-606 CONTROL NO.: F022-05 % MOISTURE: NA	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	LECTED: 06/06/96 EIVED: 06/07/96 RACTED: 06/11/96 LYZED: 06/12/96 WATER FACTOR: 1	a) 20.90
PARAMETERS	**************************************	RL (ug/L) .04 .03 .05 .05 .04 .14 .14 .04 .12 .14 .04 .01 .05 .05 .14 .01	
JRROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 83 106	QC LIMIT 30-150 24-154	

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F022 SAMPLE ID: CLJ100-FB-606 CONTROL NO.: F022-06 % MOISTURE: NA	DATE COLI DATE RECI DATE EXTI DATE ANAI MATRIX: DILUTION	EIVED: 06/07/96 (RACTED: 06/11/96 LYZED: 06/12/96 (
PARAMETERS	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	RL (U)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 100 109	QC LIMIT 30-150 24-154

LDC #:	1920G3	VALIDATION COMPLETENESS WORKSHEET	Date: 8-12-96
SDG #:	96F022	EPA Level IIIX_NFESC Level C	Page: 1 of)
Laborator	y: CKY, Inc.		Reviewer:
			2nd Reviewer:
METHOD	· CC Organishie	pring Posticides (EPA SW 946 Method 9090)	1 —

METHOD: GC Organochlorine Pesticides (EPA SW 846 Method 8080)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
i.	Technical holding times	Α	Sampling dates: 6-6-96
11.	GC/ECD Instrument Performance Check	A	
m.	Initial calibration	Α	·/. RSD
IV.	Continuing calibration	5W_	1.0
V.	Blanks	Α	
VI.	Surrogate spikes	A·	
VII.	Matrix spike/Matrix spike duplicates	سي	No AR MS/MSD, QC range
VIII.	Laboratory control samples	A	ics licsp
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	ډىن	D = 6,77 4 = NO
XV.	Field blanks	ND	K=4 FB=5

Note:

A = Acceptable

ND = No compounds detected

D = Duplicate

N = Not provided/applicable SW = See worksheet R = Rinsate FB = Field blank TB = Trip blank EB = Equipment blank

Validated Samples:

1	CLJ100-CS-096 >	soil	11	MBLKIW	ΑQ	21	
2	CLJ100-CS-097 /		12			22	
3	CLJ100-CS-099 /		13			23	
4 P	CLJ100-RB-606 /	AQ	14			24	
5 PB	CLJ100-FB-606/	7	15			25	
6 0	CLJ100-CS-100	انىء	16			26	
7 J	CLJ100-CS-100DP		17			27	
8	CLJ100-CS-096MS		18			28	
9	CLJ100-CS-096MSD		19			29	
10	MBLKIS	1	20			30	

LDC #: 1 33 SDG #: 96FOLZ

VALIDATION FIL IGS WORKSHEET Continuing Calibration

a:	<u> </u>
Reviewer:	2
nd Reviewer:	er.

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

Please see qualifications below for all questions answered "N" Not applicable questions are identified as "N/A".

What type or calibration verification calculation was performed?

%D or RPD

ON N/A Were Evaluation mix standards run before initial calibration and before samples?

ON N/A Were Endrin & 4,4'-DDT breakdowns acceptable in the Evaluation Mix standard (<20.0% for individual breakdowns)?

ON N/A Was at least one Individual Mix standards A and/or B run daily to verify the working curve?

Y 00 N/A Were continuing standards analyzed at a frequency of every 10 samples to verify the working curve?

Did the continuing calibration standards meet the percent difference (%D) / relative percent difference (RPD) criteria of <15.0%? ON N/A

Level IV/D Only

Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

Were the percent difference (%D) results recalculated? (Please see Calibration verification results verification worksheet.) Y N N/A

Y N N/A Were the (%D) recalculated results within 10.0% of the reported results?

,,	Date	Standard ID	Column	Compound	%D / RPD (Limit ≤ 15.0)	RT (Limits		Associated Samples	0.1111
<u>" </u>	Date				 	, Ki (Liinks	') 		Qualifications
- '		more tha	m 10	samples	were	 		all samples,	None/A
		and and	gzed.	between	ccv's.			45/msy + blank	/
			<u> </u>			(-	
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A Alr	oha-BHC	E. Heptachlor	I. Dielo	irin M. 4.	<u> </u> 4'-DDD	Q. Endrin ketone	U. Toxaph	ene Y. Aroclor-1242	CC. DB 608 GG.

A. Alpha-bito
B. Beta-BHC
C. Delta-BHC
D. Gamma-BHC

F. Aldrin G. Heptachlor epoxide J. 4.4'-DDE K. Endrin

L. Endosullan II

N. Endosulfan sulfate

O. 4,4'-DDT

P. Methoxychlor

R. Endrin aldehyde S. Alpha-chlordane

T. Gamma chlordane

V. Arodor-1016 W. Aroclor-1221

X. Aroclor-1232

Z. Aroclor-1248 AA. Aroclor-1254

BB. Aroctor-1260

DD. DB 1701

H. Endosulfan I.

Several compound

were out on closing

LDC #: 19 33 SDG #: 96F022

VALIDATION FINL 3S WORKSHEET Matrix Spike/Matrix Spike Duplicates

F _	1 of)
Reviewer:	مل
2nd Reviewer:	el

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

Please see qualifications below fro all questions answered "N". Not applicable questions are identified as "N/A".

Y NONA Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?

N N/A Was a MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

Y(N)N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits stated below?

Level IV/D Only

Y N N/A Were the percent recoveries (%R) and the relative percent differences (RPD) recalculated?

Y N N/A Were the %R and RPD reported results within 10.0% of the recalculated results?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	6-10-96	819	G	()	()	62 (50)	all soil	J/A
ii .				()	()	()	all soil	,
				()	()	()		
<u></u>				()	()	()		
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				()	()	()		
				()	()	()		

		Soll C	C Limits	Water	QC Limits
Letter Designation	Compound	% Recovery	RPD	% Recovery	RPD
Α	Gamma-BHC				
В	Heptachlor				
C `	Aldrin				
D	Dieldrin				
Ε	Endrin				
F	4,4,'-DDT				·
G	4,4'-000	20-170	50		
Н					
ı					
J					

LDC #: 192063 SDG #: 96 FOZZ

VALIDATION FINDINGS WORKSHEET Field Duplicates

Page:	(of 1
Reviewer:	2
2nd reviewer:	W

HOD: GC Pesticides/PCBs (EPA SW 846 M	ethod 8080)		•
N N/A Were field duplicate pairs identifi	ied in this SDG?		
Y) N N/A Were target compounds detecte	ed in thie field duplicate	e pairs?	
	Concentration	on (my //cg)	
Compound	6	7 7	RPD
aldrin	31	NO	NC
			,
	Concentration	on ()	
Compound		•	RPD
	Concentrati	(on (
Compound	Concentrati		RPD
	·		

	Concentration	()				
Сотроила			RPD			
II-						



CKY incorporated Analytical Laboratories

Date: 06-07-1996 CKY Batch No.: 96E080

Ms. Missy Art

MHO

5335 Triangle Parkway Suite 450 Norcross GA 30092

Subject:

Laboratory Report Project: 18319/CAMP LEJEUNE

Enclosed is the Laboratory report for samples received on 05/31/96. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include:

Sample ID	Control No.	Matrix	Analysis
CLJ100-CS-001 CLJ100-CS-005 CLJ100-CS-008 CLJ100-CS-009 CLJ100-CS-010	E080-01 E080-05 E080-08 E080-09 E080-10	Soil Soil Soil Soil	EPA 8080 EPA 8080 EPA 8080 EPA 8080
CLJ100-CS-010DP CLJ100-CS-011 CLJ100-CS-012 CLJ100-CS-013	E080-10 E080-11 E080-12 R080-13 E080-14	Soil Soil Soil Soil Soil	EPA 8080 EPA 8080 EPA 8080 EPA 8080
CLJ100-CS-014 CLJ100-RB-529 CLJ100-FB-529	E080-15 E080-16 E080-17	Soil water water	EPA 8080 EPA 8080 EPA 8080

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D. Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.

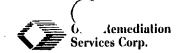


CHAIN-OF-CUSTODY RECORD

Form 0019 **Field Technical Services** Rev. 08/89

166571

96 EU80 三百6挺の2D 102 FINDLAY, OH 45839-0551 419-423-3526 O.H. MATERIALS CORP. P.O. BOX 551 PROJECT LOCATION PROJECT NAME **ANALYSIS DESIRED** PROJECT TELEPHONE NO. Lejeure unp (uma (INDICATE NUMBER PROJECT CONTACT PROJ. NO. SEPARATE CONTAINERS) 18310 AL) 451-2599 CLIENT'S REPRESENTATIVE PROJECT MANAGER/SUPERVISOR Jim Dunk Vanh Marshburn Alan WhITT SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) SAMPLE NUMBER COME DATE TIME REMARKS LIDAN Continue Sample 1-80= 5,00-(5-00) 13050 Continuetin 1-800 13100-65-102 3 15/00-15-603 1-802 1-808 11503 4 715100-64-604 5 15/10-15 - 11 5 1-802 6 2310 -C5 1006 1-8-7 7 25100 CS (10) P. 6. 6.0 1.80 8 15/00-C5 208 12/1 9 1500-05-603 1/1/ 1.800 Purp Cart War Treas From 1.80 11 10 Map Co, 010 Pa50 REMARKS Samples sent to CKY INC.
48 hour TAT. Plans Ser
Bosilts 7. 1900 yearson. Amerika. **TRANSFERS** ITEM **TRANSFERS** ACCEPTED BY DATE TIME NUMBER **RELINQUISHED BY** FED-EX 1921191286 9/4/1700 1-10 1 2 Samples untill Continued with US. 3



i,

CHAIN-OF-CUSTODY RECORD

Form 0019 Field Technical Services Rev. 08/89

916E080 911 E0711 N2 166572

		ATERIALS	CORP	·. •		P.C	D. BOX 551	• FINDLAY, OH 45839-0551	•	41	9-42	3-352	<u> 1</u> 6				
PROJECT NAME PROJECT CONTACT PROJECT CONTACT Alan CLIENT'S REPRESENTATIVE VANA Marshburn					4/0		IPROJECT MAN	PROJECT TELEPHONE NO. 110 451-2599 AGER/SUPERVISOR	NUMBER OF CONTAINERS	Lan	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)						
ITEM NO.	S	AMPLE UMBER		TIME	1	GRAB		SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	Ö		T : 2 REMARKS					T: 2 ' Y REMARKS	
1 :	· 5100	.cs-51: 5p	44	1545		X	Duplicate	Confirmation Simple	1.80	7 X	T						NEESA Level C
2	ΊΤιυο	.c5·011	ZZ	549		X	(when =	AUE 1/2 SALESUIT	1-80	<i>=</i> X							
3	17100	or CS- wiz		55Z		X		AUL 1-12 Schewall	1-80	<i>,</i> X							
4	· (Jaos	.65-013	71	1559		X	Confirm.	Acres From Acres 1-12 Streat	1-80	2 X							
5	5.510	y+69-20.01	$-\frac{1}{2} \int_{\mathbb{R}^2}$	16,00		X	Contin	1. 12 Single Prom 7:	1-80	7 X							
6	(5W	0-RB-729	1.1/4	1613		X	1.1454	te black	1-1L	X							
- 1		1-FB-529	12/1	1607		X	Fiel	& Blank	1-11	. X							
8																	
9																	
10																	
	NUMBER	ITEM NUMBER		F		ANSF QUIS	ERS HED BY	TRANSFERS ACCEPTED BY	DATE	TIME	AEI	Samples Sout To CKY Inc. 48 hour TAT. Please Eax Results To (910) 451-1809. Thunks				CKY INC.	
	1	1-7	2 /	llva	ハノ	R	. Atan	FID-EX6921491286	5/2./h	1700	18 hour JAJ. Please LAX			1900 451-1809 Tunks			
	2							164-621	140	li,C	Hold Samples untill contin		11 cake of the				
	3										1				ple:	5	/
	4										SAM	PLER'S	SIGNA	TURE /	Too		K. Acan

CKY, INCORPORATED

TELEPHÔNE RECORD LOG

DATE OF CALL: 5 29196
CLIENT NAME: Carl Pampel - OHM-(NC) (Camp. Lijeu
CALL INITIATED BY:LABORATORYCLIENT
In reference to data for the following sample number(s): 1) will send 15 soi 1 RS / 1 FB Hold til 5/31 will se
Summary of Questions/Issue Discussed:
4) POSL can be used up to 25 ppb for all Target analytes
5) Contain high TPH of aldrin [cheordane interference!
we can adjust up to 25 PPb
Summary of Resolution:
Carl will call to authorize to run the
15 SOILA 1 P.W 1 F.B
Signature Date

Project:

Camp Lejeune - Job No. 18319

CKY Control No. 96E080

As per instructions of Mr. Carl Pampel, CKY is to dispose the following samples (DO NOT ANALYZE):

96E080-2, 96E080-3, 96E080-4, 96E080-6, 96E080-7

All the rest of the samples should be analyzed withing 48 Hrs.

Client will provide duplicate samples (Ex.: CLJ100-CS-010DP); these samples need to be analyzed individually as a regular sample.

In regards to the shipment to be received today, the following samples with the following suffix should be disposed:

015, 016, 017, 018, 019, 021, 023, 024, 025, 027

All the rest of the samples in this batch to be received should be analyzed within 48 hrs. as well.

There will be two duplicate samples in this coming batch.

90503 Tel. (310) 618-8889 Fax: (310) 618-0818

96E080 CONTROL NO. DATE 05 - 30 -96 OHM 10:00 AM CLIENT TIME CAMP LEJEUNE I. PATEL **PROJECT** RECIPIENT SAMPLE TRANSPORTATION TO CKY LABORATORY: BY ' ON(DATE) AT(TIME) FROM(SITE/CO.) COMMENTS PICKED-UP BY CKY COURIER DELIVERED BY CLIENT SHIPPED/AIRBILL NO FEDEX APTN: 6921491286 SEEAIRBILL SAMPLE BATCH PACKAGING/SEALING UPON RECEIPT: INTACT DAMAGED SEALED **NOT SEALED** NO CONTAINER 2° c CONTAINER: **INSIDE TEMPERATURE:** CUSTODY SEAL LOCATION NUMBER /INTACT **PACKAGING** TYPE SUFFICIENCY COOLER DAMAGED FRINTCLOSURG OR INSULATION: Sec Coc BOX NAME: SIDE ' REGULAR OTHER: ICE/COOLANT: DATE: PACKING MATERIAL: BUDBLEPAE TIME: SAMPLE DOCUMENTATION/CHAIN-OF-CUSTODY(COC) ENCLOSED SEALED HANDCARRIED FAXED MAILED SAMPLE LOG-IN: **CRITERIA** COMMENTS DISCREPANCY NONE SAMPLE CUSTODY SEAL **EVERY SAMPLE** ole CONTAINER TYPE/MATERIAL APPROPRIATE SAMPLE AMOUNT **ENOUGH** SAMPLE PRESERVATION/HOLDING TIME SUFFICIENT HEADSPACE/BUBBLES ZERO/NONE SAMPLE LABEL INFORMATION SUFFICIENT CHAIN-OF-CUSTODY INFORMATION SUFFICIENT SAMPLE INFO .: SAMPLE ID DATE -TIME SIGNATURE ANALYSES PRESERVATIVE CONTAINER INDIVIDUA'L SAMPLE CONTAINER: NONE SEALED PLASTIC BAG OTHER(SPECIFY): BUBBLE PALL CAN SAMPLE NUMBER **CLIENT ID** DISCREPANCY ACTION Ceritie CLIENT SERVICES COPY RECEIVED BY

DATE

TIME

QUESTIONS? CALL 800-238-5355 TOLL FREE. นื่องหรรษ์ ริยัพหนังค AARON MC REME Ruenve ZIP Required ZIP Required 90503 Torrance YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.) IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here (Not available at all locations) Street Address 4 Bà Credit Card 2 Bill 3rd Party FedEx Acct. No. 3 Bill 3rd Party FedEx Acct. No. State ZIP Required DELIVERY AND SPECIAL HANDLING Emp. No. SERVICES Date Federal Express Use (Check only one box) (Check services required) Cash Received Base Charces Weekday Service HOLD AT FEDEX LOCATION WEEKDAY Fill in Section Hi DELIVER WEEKDAY Priority Overnight Standard Overnight Return Shipmer ☐ Third Party Chg. To Cel. Declared Value Charge 11 🛛 Street Address Economy Two-Day Government Overnight Saturday Service Other 1 31 HOLD AT FEDEX LOCATION SATURDAY City State Zip Other 2 Total 3 OELIVER SATURDAY Received By: Freight Service 5 SATURDAY PICK-UP Total Charges OVERNIGHT FREIGHT 80 TWO-DAY DIM SHIPMENT (Chargeable Weight) Special Handling Date/Time Received FedEx Employee Number REVISION DATE 11.94 Part # 146137/146188 4 X DANGEROUS GOODS (Extra crea INSTRUCTIONS (Mark appropriate boxes) Н 219 Dangerous Goods as per attached Shipper's Declaration © 1994 FEDEX 1:2:2 Dangerous Goods Shipper's Declaration not required 3 Drop Box SIGNATURE RELEASE UNAVAILABLE ler Stop 4□8.S.C HOLIDAY DELIVERY IN OHERES Cargo Aircraft only 5 C Stati Two completed and signed copies distris Declaration must be 6921491286 Page handed to the operator. of **Pages** TRANSPORT DETAILS Failure to comply in all respects with the applicable Dangerous Goods This shipment is within the limitations prescribed for: Airport of Departure Regulations may be in breach of the applicable law, subject to legal (delete non applicable) PASSENGER AND CARGO AIRCRAFT penalties. This Declaration must not, in any circumstances, be completed CARGO and/or signed by a consolidator, a forwarder or an IATA cargo agent. Airport of Destination: Shipment type: (delete non-applicable) NON-RADIOACTIVE RADIOACTIVE NATURE AND QUANTITY OF DANGEROUS GOODS **Dangerous Goods Identification** Quantity and Packing Class ÜN Subsi-Proper Shipping Name Packing Authorization type of packing diary Inst. or ID No Group Division other Regulated Substances : 1.655 10. 9 9127 15 -250 ML glass Jus - 1 L glass Jais Additional Handling Information I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked, and labeled, and are in all respects in the proper condition for transport by air according to the applicable International and National Governmental Regulations. Name/Title of Signatory AAR 3- K. GRAW/Record/Tech. Place and Date ency Telephone Number (Required for US Origin or Destination Shipments)

IF ACCEPTABLE FOR PASSENGER AIRCRAFT, THIS SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN, OR INCIDENT TO, RESEARCH, MEDICAL DIAGNOSIS, OR TREATMENT.

LABORATORY REPORT FOR

OHM

18319/CAMP LEJEUNE

CHLORINATED PESTICIDES

SDG#: 96E080

JUNE 08, 1996

CASE NARRATIVE

CLIENT:

OHM

PROJECT:

18319/CAMP LEJEUNE

SDG:

96E080

CHLORINATED PESTICIDES

Fifteen (15) soil and two (2) samples were received on 05/30/96 for Pesticide analysis in accordance with SW846. Samples CLJ100-CS-002, -003, -004, and -007 were canceled and the others were requested for the analysis on 05/31/96.

1. Holding Time

All samples were extracted and analyzed within the holding time criteria.

Blank 11.

Both soil and water method blanks were free of contamination.

Matrix Spike/Matrix Spike Duplicate Ш.

All recoveries and RPDs were within the QC limits for soil matrix. There was no MS/MSD performed for reinstate and field water samples, LCS/LCSD were performed as precision QC.

IV. Lab Control Sample

All results were within the control limits.

٧. Surrogate Recovery

All surrogate recoveries were within the control limits.

Instrument Performance and Calibration VI.

An initial calibration was five-point and all RSDs were within the QC limits in a quantitation column. Rtx35 was used as the quantitation column. All continue calibrations were checked at 12 hour interval and all recoveries in the quantitation were within the QC limits. All DDT and Endrin breakdown were within QC limits.

VII. Sample Analysis

All sample analyses met the project specific QC requirements.

The LCS and MS/MSD associated with the preliminary soil results were not spiked with



the required DDD, alpha-chlordane, and gamma-chlordane analytes. All samples in 96E080 were re-extracted and re-analyzed with the required analytes spiked in the LCS and MS/MSD. Only reanalysis results were submitted in a final data package.

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-001 CONTROL NO.: E080-01 % MOISTURE: 9.5	DATE RECE DATE EXTR	ECTED: 05/29/96 EIVED: 05/31/96 ACTED: 06/03/96 YZED: 06/05/96 SOIL FACTOR: 1
PARAMETERS	RESULTS UKG) - UKG -	RL (ug/kg)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 96 97	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-005 CONTROL NO.: E080-05 % MOISTURE: 10.2	DATE REG DATE EX DATE AN MATRIX:	LLECTED: 05/29/96 CEIVED: 05/31/96 FRACTED: 06/03/96 ALYZED: 06/05/96 SOIL N FACTOR: 1
PARAMETERS	RESULTS (ug/kg) 	RL (ug/kg)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 100 99	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-008 CONTROL NO.: E080-08 MOISTURE: 11.5	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 05/31/96 RACTED: 06/03/96 LYZED: 06/05/96
PARAMETERS	RESULTS (ug/kg) 	RL (ug/kg) 19.2 11.3 22.6 28.2 19.2 113 113 113 22.6 19.2 22.6 113 11.3 22.6 11.3 22.6 11.3 22.6
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 96 97	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-009 CONTROL NO.: E080-09 % MOISTURE: 14.5	DATE RE DATE EX DATE AN MATRIX:	LLECTED: 05/29/96 CEIVED: 05/31/96 TRACTED: 06/03/96 ALYZED: 06/05/96 SOIL N FACTOR: 1
PARAMETERS	RESULTS (ug/kg) ND ND ND ND ND 100 ND 650* 280 110 ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg) 19.9 11.7 23.4 29.9 117 117 117 217 217 217 217 23.4 117 23.4 11.7 23.4 21.7 23.4 23.4

% RECOVERY

99

94

RL:

SURROGATE PARAMETER

Tetrachloro-m-xylene Decachlorobiphenyl

Reporting Limit Was diluted at DF 5 and reanalyzed on 06/06/96 due to high concentration level.

QC LIMIT

20-150

20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-010 CONTROL NO.: E080-10 % MOISTURE: 17.5	DATE COLL DATE RECE DATE EXTR DATE ANAL MATRIX: DILUTION	IVED: 05/31/96 ACTED: 06/03/96 YZED: 06/05/96 SOIL
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	RESULTS (ug/kg) NDD NDD NDD NDD NDD NDD 980* 1200* 1200 NDD NDD NDD NDD NDD NDD NDD NDD NDD N	RL (ug/kg)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 96 92	QC LIMIT 20-150 20-150

RL: * : Reporting Limit Was diluted at DF 10 and reanalyzed on 06/06/96 due to high concentration level.

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CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-010DP CONTROL NO.: E080-11 % MOISTURE: 19.6	DATE COLL DATE RECE DATE EXTR DATE ANAL MATRIX: DILUTION	IVED: 05/31/96 ACTED: 06/03/96 YZED: 06/05/96 SOIL
PARAMETERS	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg) 21.1 12.4 24.9 31.1 21.1 124 124 124 124 124 124 124 124 124 12
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 98 95	QC LIMIT 20-150 20-150

RL:

Reporting Limit Was diluted at DF 5 and reanalyzed due to high concentration level.

		=========
CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-011 CONTROL NO.: E080-12 MOISTURE: 11.1	DATE RE DATE EX DATE AN MATRIX:	LLECTED: 05/29/96 CEIVED: 05/31/96 TRACTED: 06/03/96 ALYZED: 06/05/96 SOIL N FACTOR: 1
PARAMETERS	RESULTS (ug/kg) 	RL (ug/kg) 19.1 11.2 22.5 28.1 19.1 112 112 112 21.5 19.2 19.2 11.2 22.5 19.2 11.2 22.5 19.2 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 98 96	QC LIMIT 20-150 20-150

RL: Reporting Limit

09

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CLIENT: PROJECT: BATCH NO.: SAMPLE ID: CONTROL NO.: % MOISTURE:	OHM 18319/CAMP LEJEUNE 96E080 CLJ100-CS-012 E080-13 NA	DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: MATRIX: DILUTION FACTOR:	05/29/96 05/31/96 05/31/96 06/03/96 06/05/96 SOIL	

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	ND ND ND ND ND ND ND ND ND ND ND ND ND N	17 10 20 25 17 100 100 100 100 20 17 200 100 200 100 200 500 1000 2000
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 101 97	QC LIMIT 20-150 20-150
	- ·	20 130

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CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-013 CONTROL NO.: E080-14 % MOISTURE: 14.9	DATE COLI DATE RECE DATE EXTE DATE ANAI MATRIX: DILUTION	IVED: 05/31/96 RACTED: 06/03/96 LYZED: 06/05/96 SOIL
PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor Toxaphene	88888888888888888888888888888888888888	20 11.8 23.4 29.20 118 11.8 11.8 11.8 23.205.5 23.5 23.5 11.238 11.238 11.238 11.35 23.5
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	101 93	20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-CS-014 CONTROL NO.: E080-15 MOISTURE: 9.5	DATE RE(DATE EX' DATE ANI MATRIX:	LLECTED: 05/29/96 CEIVED: 05/31/96 FRACTED: 06/03/96 ALYZED: 06/05/96 SOIL N FACTOR: 1
PARAMETERS	RESULTS (ug/kg) NDD NDD NDD NDD NDD NDD NDD NDD NDD ND	RL (ug/kg) 18.8 11 22.1 27.6 18.8 110 110 110 22.1 18.8 221 22.1 110 211 221 552 1100 2210
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 95 95	QC LIMIT 20-150 20-150

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CLIENT:	OHM		DATE	COLLECTED:	NA
PROJECT:	18319/CAMP	LEJEUNE	DATE	RECEIVED:	NA
BATCH NO.:	96E080		DATE	EXTRACTED:	06/03/96
SAMPLE ID:	MBLK1S		DATE	ANALYZED:	06/05/96
CONTROL NO.:	CPF002SB		MATR	IX:	SOIL
% MOISTURE:	NA		DILU	TION FACTOR:	1
			=========	=========	=======

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	888888888888888888888888888888888888888	17 10 20 25 17 100 100 100 100 20 17 200 100 200 500 1000 2000
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	95 97	20-150 20-150

CKY QUALITY CONTROL DATA MS/MSD ANALYSIS

OHM

Ι:

ME , nuO:

18319/CAMP LEJEUNE EPA 8080

MATRIX:

SOIL

% MOISTURE:

9.5

BATCH NO.:

96E080

SAMPLE ID: CONTROL NO.: CLJ100-CS-001

E080-01

DATE RECEIVED: 05/31/96
DATE EXTRACTED: 06/03/96 DATE ANALYZED: 06/05/96

ACCESSION:

96E080

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS R\$LT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT	RPD LIMIT %
Aldrin	ND	185.00	206.00	111	185.00	206.00	111	0	20-170	50
alpha-Chlordane	ND	185.00	218.00	118	185.00	241.00	131	10	20-170	50
gamma-Chlordane	ND	185.00	200.00	108	185.00	202.00	110	1	20-170	50
4,41-DDD	ND	368.00	449.00	122	368.00	484.00	132	8	20-170	50
4,41-DDT	309.00	368.00	441.00	36	368.00	443.00	36	2	20-170	50
Dieldrin	ND	368.00	399.00	108	368.00	404.00	110	1	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT
Tetrachloro-m-xylene	442.00	444.00	100	442.00	456.00	103	20-150
Decachlorobiphenyl	737.00	716.00	97	737.00	717.00	97	20-150

14

CKY QUALITY CONTROL DATA LCS ANALYSIS

OHM

18319/CAMP LEJEUNE EPA 8080 SOIL

MATRIX:

% MOISTURE: NA

BATCH NO.: SAMPLE ID: CONTROL NO.: 96E080 LCS1S CPF002SC DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: 06/02/96 06/05/96

ACCESSION: 96E080

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	LCS RSLT (ug/kg)	LCS % REC	QC LIMIT
Aldrin alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin	ND ND ND ND ND ND	167.00 167.00 167.00 333.00 333.00	187.00 184.00 181.00 366.00 362.00	112 110 108 110 109	47-116 45-119 45-119 48-136 34-143

SURROGATE PARAMETER	SPIKE AMOUNT (ug/kg)	LCS RESULT (ug/kg)	LCS % REC	LIMIT OC
Tetrachloro-m-xylene Decachlorobiphenyl	400.00 667.00	410.00 635.00	102	20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO: 96E080 SAMPLE ID: CLJ100-RB-529 CONTROL NO: E080-16 % MOISTURE: NA	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 05/31/96 RACTED: 06/04/96 LYZED: 06/05/96 WATER
PARAMETERS	RESULTS ULTS ULTS ULTS ULTS ULTS ULTS ULTS	RL (ug/L)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 107 48	QC LIMIT 30-150 24-154

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E080 SAMPLE ID: CLJ100-FB-529 CONTROL NO.: E080-17 % MOISTURE: NA	DATE COL DATE REC DATE EXT DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 05/31/96 RACTED: 06/04/96 LYZED: 06/05/96 WATER
PARAMETERS	RESUTS (U)	RL (ug/L)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 103 46	QC LIMIT 30-150 24-154

LIENT: OHM PROJECT: 18319/CAMP LEJEUN BATCH NO.: 96F004 SAMPLE ID: MBLK1W CONTROL NO.: CPF003WB	DATE EXTRACTED: 06/04/96 DATE ANALYZED: 06/05/96
% MOISTURE: NA	MATRIX: WATER DILUTION FACTOR: 1
PARAMETERS	RESULTS (ug/L) (ug/L) ND 04 ND 03 ND 05 ND 05 ND 04 ND 04 ND 04 ND 04 ND 04 ND 04 ND 04 ND 04 ND 04 ND 04 ND 04 ND 04 ND 04 ND 04 ND 04 ND 06 ND 06 ND 05 ND 05 ND 05 ND 05 ND 05 ND 05 ND 05 ND ND 05 ND ND 05 ND ND 05 ND ND 05 ND ND ND 05 ND ND ND ND 05 ND ND ND ND ND ND ND ND ND ND ND ND ND
'URROGATE PARAMETER	% RECOVERY QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	117 57 24-154

CKY QUALITY CONTROL DATA LCS/LCD ANALYSIS

C' -- 'T:

OHM

T:

18319/CAMP LEJEUNE

: در MATRIX:

EPA 8080

WATER

% MOISTURE: NA

BATCH NO.: 96E080 SAMPLE ID: LCS1W/LCS1WD

CONTROL NO.: CPF003WL/C

DATE RECEIVED: NA DATE EXTRACTED: 06/04/96

DATE ANALYZED: 06/05/96

ACCESSION:

96F004 96E080

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT	BSD RSLT (ug/L)	8SD % REC	RPD %	QC LIMIT	RPD LIMIT
Aldrin	ND	.50	-49	98	.50	.52	104	6	47-116	50
alpha-Chlordane	ND	.50	.54	108	.50	.58	116	7	45-119	50
gamma-Chlordane	ND	.50	.50	100	.50	.53	106	6	45-119	50
4,41-DDD	ND	1.00	1.09	109	1.00	1.13	113	4	48-136	50
4,4'-DDT	ND	1.00	1.14	114	1.00	1.15	115	1	34-143	50
Dieldrin	ND	1.00	.98	98	1.00	1.01	101	3	42-132	50

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT	BSD RSLT (ug/L)	BSD % REC	QC LIMIT
Tetrachloro-m-xylene	1.20	.92	77	1.20	1.01	84	30-150
Decachlorobiphenyl	2.00	1.70	85	2.00	1.75	88	24-154

INITIAL CALIBRATION METHOD 8080

Tab Name : CKY Inc

strument ID : GC2 Column : Rtx-35 Column size ID: .53mm

LFID & Datime: TE24-19 05-24-96 21:54:58 TE24-20 05-24-96 22:31:41 LFID & Datime: TE24-21 05-24-96 23:08:24 TE24-22 05-24-96 23:45:08 LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 05-25-96 00:58:31 LFID & Datime: TE24-25 05-25-96 01:35:14 TE24-26 05-25-96 02:11:59 LFID & Datime: TE24-27 05-25-96 02:48:44 TE24-28 05-25-96 03:25:29

CONC CALIBRATION FACTORS (AREA/UNIT)								
COMPOUND	X	1.0X	2.0X	4.0X	8.0X	16.0X	MEAN	%RSD
		=====	=====	=====	=====	=====	=====	=====
alpha-BHC	5.0	17678	19650	20474	21133	20017	19791	7
gamma-BHC	5.0	17612	19410	19738	19946	18668	19075	5
beta-BHC	5.0	6739	7026	7777	7996	7731	7454	7
Heptachlor	5.0	17693	17858	17225	16941	15567	17057	5
delta-BHC	5.0	11589	12737	15058	16159			16
Aldrin	5.0	18045	17786	18681	17927		17944	3
Heptachlor Epoxide	5.0	18274	17604	17968		15962	17354	5
gamma-Chlordane	5.0	19619	18677	19081	18009		18498	
Endosulfan I	5.0	17577	18227	17895	17535		17474	5
alpha-Chlordane	5.0	19235	18309	18529	17349	1 1	17987	6
ieldrin	10.0	17776	18480	17738	16977		17293	7 -
DE	10.0	14637	14751	15728	15085			4
Endrin	10.0	14416	14847	14283	13564	12212	13865	7
Endosulfan II	10.0	16430	15492	15357	13933	12725		10
DDD	10.0	11133	12298	12243	12396	1		5
Endrin Aldehyde	10.0	13641	12639		11593		12267	10
DDT	10.0	12292			12553	,		
Endosulfan Sulfate	10.0	15631	14752		13372			5 9
Endrin Ketone	10.0	18397					1	14
Methoxychlor	50.0	5407	5152	4729	4376	3878	- 1	13
	======	======	=====	=====	=====	=====	======	======
TCX	5.0	16170	15495	15351	14113	13031	14832	8
DCB	10.0	19012	16608	15132	13136	11773	15132	. 19

Name : CKY Inc 1.__crument ID : GC2 GC Columm : Rtx-35 Column size ID : .53mm

Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0 Mid Con Cont LFID & Datime: TF04-22 06-04-96 23:48:37 TF04-23 0

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0	19791	21.6	8
gamma-BHC	20.0		21.4	7
beta-BHC			21.7	-
Heptachlor	20.0	7454 17057	22.4	
delta-BHC	20.0		22.1	11
Aldrin	20.0	17944	20.5	
Heptachlor Epoxide	20.0	17354	19.9	
gamma-Chlordane	20.0	18498	20.0	0
Endosulfan I	20.0	17474	19.7	
alpha-Chlordane	20.0		20.0	
Dieldrin	40.0	17293	39.2	0 2 7
DDE	40.0	14912	42.7	7
Endrin	40.0	13865	42.4	
'osulfan II	40.0	14787	39.5	1
ر	40.0	11923	43.2	8
Endrin Aldenyde	40.0	12267	39.8	0
DDT	40.0	12385	43.8	10
Endosulfan Sulfate	40.0	14142	38.7	
Endrin Ketone		15832	39.1	
Methoxychlor	200.0	4708	228.0	14
======================================	20.0	14832	20.9	5
DCB	40.0	'	37.3	7

Name
: CKY Inc
Instrument ID : GC2

GC Column : GC2

GC Column : Rtx-35

Column size ID : .53mm

Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0 Mid Con Cont LFID & Datime: TF04-41 06-05-96 11:27:08 TF04-42 0

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0	19791	21 4	=====
gamma-BHC	- 20.0 20.0			1
beta-BHC	20.0			
Heptachlor	20.0	1	7 - 7 - 7	
delta-BHC	20.0			
Aldrin	20.0	ľ	1	_
Heptachlor Epoxide	- 20.0 20.0		1	_
gamma-Chlordane	20.0		18.6	
Endosulfan I	20.0	t .	•	i
alpha-Chlordane	20.0	1	22.8	
Dieldrin	40.0	1	18.9	
DDE			39.1	
Endrin	40.0	14912	40.3	1
EndIn II	40.0		42.0	5
dosurran ii	40.0		37.2	
drin Aldohado	40.0		42.3	
drin AldehydeDDT	40.0		37.3	1
	40.0		41.4	
Endosulfan Sulfate	40.0		36.6	
Endrin Ketone	_ 40.0		36.8	8
Methoxychlor	_ 200.0	4708	211.2	6
TCX	======	======	=======================================	=====
	_ 20.0	14832	19.9	0
DCB	_ 40.0	15132	35.7	11

Name : CKY Inc l...crument ID : GC2

GC Columm : Rtx-35 Column size ID : .53mm

Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0 Mid Con Cont LFID & Datime: TF04-60 06-05-96 23:49:55 TF04-61 0

COMPOUND		AVERAGE	RESULT	
	4.0X	CF	CONC	%RSD
	======			=====
lpha-BHC	20.0	1	21.7	
ramma-BHC	20.0			
eta-BHC	20.0	l i	22.5	
[eptachlor	20.0		20.9	
elta-BHC	20.0		22.9	
ldrin	20.0		20.1	0
eptachlor Epoxide	20.0		19.3	
amma-Chlordane	20.0		19.5	3
ndosulfan I	20.0		19.6	2
lpha-Chlordane	20.0	17987	19.5	2 3 2
Dieldrin	40.0	17293	39.1	
DDE	40.0	14912	41.8	4 5
Indrin	40.0	13865	42.0	5
dosulfan II	40.0	14787	38.5	
)	40.0	11923	42.4	6
drin Aldehyde	40.0	12267	38.3	4
DT	40.0	12385	40.3	
ndosulfan Sulfate	40.0	14142	37.9	5
Indrin Ketone	40.0	15832	37.7	6
Methoxychlor	200.0	4708	206.1	3
:=====================================	20.0	14832	20.5	3
OCB	40.0		35.9	10

La. Name : CKY Inc
Instrument ID : GC2
GC Columm : Rtx-35
Column size ID : .53mm

Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0 Mid Con Cont LFID & Datime: TF04-79 06-06-96 11:26:47 TF04-80 0

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0	19791	21.2	= === ==
gamma-BHC	20.0			6
beta-BHC	20.0		22.8	14
Heptachlor	20.0		21.8	
delta-BHC	20.0		21.5	
Aldrin	20.0		20.2	
Heptachlor Epoxide	20.0		19.6	
gamma-Chlordane	20.0		19.8	
Endosulfan I	20.0		19.5	
alpha-Chlordane	20.0		19.8	
Dieldrin	40.0		38.7	3
DOE.	40.0		42.2	6
rin	40.0		41.7	
Ldosulfan II	40.0		39.2	2
DDD	40.0	11923	42.5	
Endrin Aldehyde	40.0	12267	38.9	3
DDT	40.0	12385	42.9	7
Endosulfan Sulfate	40.0	14142	38.6	4
Endrin Ketone	40.0		38.1	5
Methoxychlor	200.0	4708	219.1	10
TCX	20.0	14832	20.9	4
DCB	40.0	15132	34.8	13

DDT/Endrin Breakdown

Instrument ID: GC-2

	File: 5F04-z	File: <i>TF04-2</i>
	Col: RX-5	Col: Rtx -35
	%breakdown	%breakdown
DDT	0.4	0
Endrin	2.1	1.2

	File: 5F04-21	File: TF04-21
	Col: Rtx-5	Col: Rtx-35
	%breakdown	%breakdown
DDT	1.8	€
Endrin	6.9	C

	File: 5F 64 - 40	File: TFC4-40
	Col: Ptx-5	Col: Rtx-35
	%breakdown	%breakdown
DDT	1.3	E
Endrin	2.1	0

DDT/Endrin Breakdown

Instrument ID: G-C-Z

	File: 5F 64 - 58	File: TF-04-59
	Col: Ptx-5	Col: Rtx-35
	%breakdown	%breakdown
DDT	8.2	c
Endrin	6-7	l O

	File: 5F04-78	File: TF04-78
	Col: Ptx-5	Col: 2+x-35
	%breakdown	%breakdown
DDT	7.5	0
Endrin	2.4	0.9

	File:	File:
	Col:	Col:
	%breakdown	%breakdown
DDT		
Endrin		

SEQUENCE RECORDED IN F:\SF04.SEQ

SEQUENCE FILE: F:\SF04.SEQ

46 96E080-01H

PEST6

SF04-

SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1 IBLK/10C-1-34-1	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
2 PEM01/10-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
3 DCC1-MIXA/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
4 DCC1-HIXB/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
5 CPF004SQ	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
6 CPF004SZ	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
7 CPF004SZ	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
8 96F004-01	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
9 96F004-02	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
10 96F004-03	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
11 96F004-04	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
12 96F004-05	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
13 96F004-06	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
14 96F004-07	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
15 96F004-12	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
16 96F004-10	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
17 96F004-11	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
18 96F004-08	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
19 96F004-13	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
20 96F004-14	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
21 PEN02/10-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
22 DCC2-MIXA/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
23 DCC2-MIX8/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
24 96F004-15	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
25 96F004-16	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
26 96F004-17	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
27 96F004-18	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
28 96F004-12H	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
29 96F004-12S	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
30 CPF003WB	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
31 CPF003WL	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
32 CPF003WC	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
33 96E080-16	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
34 96E080-17	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
35 96F004-19	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
36 96F004-20	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
37 96F004-06T 10X	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
38 CPF002SB	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
39 SPIKE TEST	PESTÓ	SF04-	1.0000	1.0000	1.0000	1.0000
40 PEH03/10-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
41 OCC3-HIXA/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
42_BCC3-HIX8/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.000
42 96F002SL	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
44 A6F002SC	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
45 96E080-01	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
47 07EVOU-VIM	DESTA	SEAA-	1.0000	1 0000	1.0000	1.0000

1.0000

1.0000

1.0000

1.0000

48	96E080-05	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
49	96E080-06	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
50	96E080-08	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
51	96E080-09	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
52	96E080-10	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
53	96E080-11	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
54	96E080-11T 5X	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
55	96E080-12	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
56	96E080-13	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
57	96E080-14	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
58	96E080-15	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
59	PEH04/10C-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
60	DCC4-HIXA/10-1-242	PEST6	SF04~	1.0000	1.0000	1.0000	1.0000
61	DCC4-HIX8/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
62	DCC1-1660/10-1-302	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
	96E080-09T 5X	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96E080-10T 10X	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	CPF006SB	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
	CPF006SL	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
	CPF006SC	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
	96F013-12	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
	96F013-12M	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
	96F013-12S	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
	CPF007S8	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	CPF007SL	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	CPF007SC	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-01	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-01M	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-01S	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-02	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	PEM05/10C-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	DCCS-HIXA/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	DCC5-HIXB/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	DCC2-1660/10-1-302	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-03	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-04	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-05	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-06	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-07	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-08	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-09	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-10	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-11	PEST6	SF04-	1.0000	1.9000	1.0000	1.0000
	96F009-12	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-13	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-14	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-15	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-16	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-17	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96F009-18	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	PEN06/10C-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	DCC6-HIXA/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	DCC6-HIX8/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
- *	_				-		



CKY Analytical Laboratories Sample Preparation Department

EXTRACTION LOG FOR PESTICIDES/PCBs

95

CKYT-E01-002

CLIENT	0+1	M			_	METHOD	8080	PAGE#	95
MATRIX	S	016			-	DATE EXTRACTED	6/03/96	_ _DATE COMPLETE	D 6/03/96
LAB	5 P. St. J. L. P. P. N. S.	SAMPLE		HXTRACT			CLBAN-UP		CODE
SAMPLE		AMOUNT	pH	POLIUME	CLBAN-UP	NOTES	GPC		G
in		(g/m1)		(ml)	(G/\$/A/I')		TBA		<u> </u>
CPF002 5				1_0			ACID	-	Λ
II .	5Z						PLORISIL.		<u> </u>
	<u> </u>								
E080 - 0		3.0				, who which the order and the Miller of the section is seen and the section of th	RHAGENT		
	M						Na2SO4	95449	
1	<u>S</u>						CH2CL2	36082	
	5						HEXANE	96230)3
0									•
Ø	8								
Ō	9						STANDARDS	10	AMOUNT ADDID (ml)
	0						SPIKE ID MY A	5100-01-0-34-02	0.40
	1						SURROGATE ID	5100-01-0-25-1	2 2.0
	2						MIX B Spike	S10C-01-0-3F0	1 0.40
	3								
10	4-						8DG #	EXTRAC	TLOCATION
1,		V		V					TLOCATION CC-RI-CI
							COMMENTS:	time star	Aed: 17:00
					7			time comp.	leted: 21:00
·	*						***************************************	1	
, , , , , , , , , , , , , , , , , , ,									
						***************************************	PREPARED BY:	ml/m	0/14
						***************************************	STD's ADDED BY:		
25							CHECKED BY:		
							Extracts Received By	v·	6/4/91,
	:=:=:::::!:							! ·	10/ 1/ + 1

CKY Analytical Laboratories Sample Preparation Department

EXTRACTION LOG FOR PESTICIDES/PCBs

CKYT-E01-002 OHM 6080 CLIENT PAGE# **METHOD** WATER 6/02/96 · 16:00 DATE COMPLETED 6/03/96 MATRIX DATE EXTRACTED LAB ... EXTRACT SAMPLE CLBAN-UP CODE SAMPLE AMOUNT VOLUME CLBAN-UP IIq NOTES GPC ·G (g/ml) (G/S/A/F) (ml) TBA - WB CPF003 1000 10 ACID WL FLORISIL NO E080 -REAGENT LOT# Na2SO4 W 954496 36082 F004-CH2CL2 HEXANE ID STANDARDS AMOUNT ADDED (ml) 510(-01-22-62 SPIKE ID SURROGATE ID 15/0C-1-23-2 SDG# **EXTRACT LOCATION COMMENTS:** PREPARED BY: STD's ADDED BY: ယ CHECKED BY: Extracts Received By:



CKY incorporated Analytical Laboratories

Date: 06-05-1996 CKY Batch No.: 96E081

Ms. Missy Art

OHM
5335 TRIANGLE PARKWAY SUITE 450

Subject:

Laboratory Report Project: 18319/CAMP LEJEUNE

Enclosed is the Laboratory report for samples received on 05/31/96. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include :

Sample ID	Control No.	Matrix	Analysis
CLJ100-CS-020 CLJ100-CS-020DP CLJ100-CS-022 CLJ100-CS-026	E081-06 E081-07 E081-09 E081-13	Soil Soil Soil Soil	EPA 8080 EPA 8080 EPA 8080
CLJ100-CS-028 CLJ100-CS-029 CLJ100-CS-030 CLJ100-CS-030DP	E081-15 E081-16 E081-17 E081-18	Soil Soil Soil Soil	EPA 8080 EPA 8080 EPA 8080 EPA 8080

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kain Pourg Kam Y. Pang, Ph.D. Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.

CASE NARRATIVE

CLIENT:

OHM

PROJECT:

CAMP LEJEUNE

SDG:

96E081

PESTICIDES

Eighteen (18) soil and two (1) oil samples were received on 05/31/96 for Pesticides and PCBs analysis in accordance with USEPA SW 846. Only eight (8) samples were authorized for analysis.

1. Holding Time

All samples were analyzed within holding time criteria.

Blank II.

A method blank was free of contamination.

III. Matrix Spike/Matrix Spike Duplicate

All recoveries and RPDs were within QC limits.

IV. Lab Control Sample

All lab control results were within the control limits.

٧. Surrogate Recovery

All surrogate recoveries were within the control limits.

VI. Instrument Performance and Calibration

Initial calibrations were five-point for Pesticides, all RSDs were within the QC limits. Rtx-35 was used as a quantitation column.

VII. Sample Analysis

Sample analysis was done within QC requirements.

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E081 SAMPLE ID: CLJ100-CS-020 CONTROL NO.: E081-06 % MOISTURE: 13.2	DATE COLI DATE RECI DATE EXTI DATE ANAI MATRIX: DILUTION	EIVED: 05/31/96 RACTED: 05/31/96 LYZED: 05/31/96 SOIL
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	RESULTS (ug/kg) NDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	RL (ug/kg) 19.6 11.23 28.6 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 113 78	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E081 SAMPLE ID: CLJ100-CS-020DP CONTROL NO.: E081-07 % MOISTURE: 13.6	DATE RE DATE EX DATE AN MATRIX:	LLECTED: 05/30/96 CEIVED: 05/31/96 TRACTED: 05/31/96 ALYZED: 05/31/96 SOIL
**************************************	DILUTIO 	N FACTOR: 1
PARAMETERS	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg) 19.7 11.6 23.1 28.9 19.7 116 116 116 23.1 116 23.1 116 23.1 116 23.1 23.1 23.1
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	99 . 72	20-150 20-150

CLIENT:	OHM	DATE COLLECTED:	05/20/06
PROJECT:	18319/CAMP LEJEUNE	DATE RECEIVED:	05/30/96
BATCH NO.:	96E081	DATE EXTRACTED:	
SAMPLE ID:	CLJ100-CS-022		05/31/96
		DATE ANALYZED:	06/01/96
CONTROL NO.:		MATRIX:	SOIL
% MOISTURE:	11./	DILUTION FACTOR	: 1

PARAMETERS	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg) 19.3 11.3 22.7 28.3 19.3 113 113 113 22.7 19.3 22.7 19.3 22.7 19.3 22.7 19.3 22.7 22.7 22.7 22.7 22.7 22.7 22.7 22
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 106 74	QC LIMIT 20-150 20-150

RL: Reporting Limit

Care Care	PROJECT:			
Aldrin alpha-BHC beta-BHC delta-BHC formal beta-BHC location beta-location bet	PARAMETERS	PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E081 SAMPLE ID: CLJ100-CS-026 CONTROL NO.: E081-13	DATE RECI DATE EXTI DATE ANAI MATRIX:	SOLL
	Toxaphene ND 2200 SURROGATE PARAMETER % RECOVERY QC LIMIT Tetrachloro-m-xylene 110 20-150	Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor Toxaphene SURROGATE PARAMETER	(ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND	(ug/kg) 18.7 11 22 27.4 18.7 110 110 110 110 110 122 18.7 220 22 110 220 549 1100 2200 QC LIMIT 20-150

RL:

Reporting Limit Was diluted at DF 5 and reanalyzed on 06/02/96 due to high concentration level.

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E081 SAMPLE ID: CLJ100-CS-028 CONTROL NO.: E081-15 % MOISTURE: 7.5	DATE ANA MATRIX:	LECTED: 05/30/96 EIVED: 05/31/96 TRACTED: 05/31/96 ALYZED: 06/01/96 SOIL
PARAMETERS	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 113 73	QC LIMIT 20-150 20-150

RL: Reporting Limit

TLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E081 SAMPLE ID: CLJ100-CS-029 CONTROL NO.: E081-16 % MOISTURE: 12.2	DATE EXT DATE ANA MATRIX:	EIVED: 05/31/96 RACTED: 05/31/96
PARAMETERS	RESULTS (ug/kg) ND ND ND ND ND ND ND 1300* 1600* ND 310 ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 100 68	QC LIMIT 20-150 20-150

RL:

Reporting Limit Was diluted at DF 10 and reanalyzed on 06/02/96 due to high concentration level.

CLIENT: OHM DATE COLLECTED: 05/30/96
PROJECT: 18319/CAMP LEJEUNE DATE RECEIVED: 05/31/96
BATCH NO.: 96E081 DATE EXTRACTED: 05/31/96
SAMPLE ID: CLJ100-CS-030 DATE ANALYZED: 06/01/96
CONTROL NO.: E081-17 MATRIX: SOIL
% MOISTURE: 7.6 DILUTION FACTOR: 1

PARAMETERS	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND N	RL (ug/kg)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 95 68	QC LIMIT 20-150 20-150

RL: Reporting Limit

CLIENT: PROJECT: BATCH NO.: SAMPLE ID:	OHM 18319/CAMP LEJEUNE 96E081 CLJ100-CS-030DP	DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED:	05/30/96 05/31/96 05/31/96 05/31/96 06/01/96
CONTROL NO :	E081-18	MATRIX:	SOÍL
% MOISTURE:	6.9	DILUTION FACTOR:	

PARAMETERS	REGULING BENERHENDER BENERHENDER BENERHENDER REGULING BENERHENDER	RL (ug/kg) 18.3 10.7 21.5 26.9 18.3 107 107 107 21.5 18.3 21.5 107 10.7 21.5 21.5 21.5 21.5
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 99 70	QC LIMIT 20-150 20-150

RL: Reporting Limit

	=======================================	=======================================
'LIENT: OHM 'ROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96E081 SAMPLE ID: MBLK1S CONTROL NO.: CPE017SB % MOISTURE: NA	DATE RECE: DATE EXTRI DATE ANALY MATRIX: DILUTION 1	ACTED: 05/31/96 YZED: 05/31/96 SOIL
PARAMETERS	RESULTS (ug/kg) 	RL (ug/kg) 17 10 20 25 17 100 100 100 100 200 100 200 100 200 1000 200 2
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 103 74	QC LIMIT 20-150 20-150

RL: Reporting Limit

CKY QUALITY CONTROL DATA LCS ANALYSIS

CLIENT:

OHM

3CT:

18319/CAMP LEJEUNE

Mi D: MAikIX:

% MOISTURE:

EPA 8080 SOIL

NA

BATCH NO.: SAMPLE ID: CONTROL NO.:

96E081 LCS1S CPE017SL

DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED:

NA 05/31/96 05/31/96

ACCESSION:

96E081

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	LCS RSLT (ug/kg)	LCS % REC	QC LIMIT
Aldrin	ND	167.00	172.00	103	47-116
alpha-Chlordane	ND	167.00	188.00	113	45-119
gamma-Chlordane	ND	167.00	171.00	103	45-119
4,4'-DDD	ND	333.00	376.00	113	48-136
4,4'-DDT	ND	333.00	366.00	110	34-143
Dieldrin	ND	333.00	335.00	101	41-132

SURROGATE PARAMETER	SPIKE AMOUNT SURROGATE PARAMETER (ug/kg)		LCS % REC	OC LIMIT %
Tetrachloro-m-xylene	400.00	411.40	103	28-137
Decachlorobiphenyl	667.00	623.00	93	51-153

CKY QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIFNT:

OHM

18319/CAMP LEJEUNE

MATRIX:

EPA 8080 SOIL

% MOISTURE: 11.7

BATCH NO.: SAMPLE ID:

CONTROL NO.:

96E081

CLJ100-CS-022

DATE RECEIVED: 05/31/96
DATE EXTRACTED: 05/31/96
DATE ANALYZED: 06/01/96

E081-09

ACCESSION:

96E081

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT	RPD LIMIT %
Aldrin	ND	189.00	200.00	106	189.00	221.00	117	10	20-170	50
alpha-Chlordane	, ND	189.00	239.00	127	189.00	263.00	139	10	20-170	50
gamma-Chlordane	ND	189.00	233.00	123	189.00	251.00	133	8	20-170	50
4.4'-DDD	ND	377.00	462.00	122	377.00	463.00	123	0	20-170	50
4,41-DDT	ND	377.00	476.00	126	377.00	476.00	126	0	20-170	50
Dieldrin	108.00	377.00	472.00	97	377 00	484 00	100	3	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT
Tetrachloro-m-xylene	453.00	449.00	99	453.00	474.00	105	28-137
Decachlorobiphenyl	755.00	728.00	96	755.00	752.00	100	51-153

CKY Analytical Laboratories

Sample Preparation Department

EXTRACTION LOG FOR PESTICIDES/PCBs

CKYT-E01-002

89 PAGE#

CKY INC. / OHM CLIENT

> 07 08

METHOD

8080

DATE COMPLETED 5/31/96

MATRIX	SOIL			-	DATE EXTRACTED
LAB SAMPLE ID	SAMPLE AMOUNT (g/ml)	pH	EXTRACT VOLUME (ml)	CLEAN—UP (G/S/A/F)	NOTES
CPE017-SB			10		
SL					
# E082 - 01	30.0				
14					
15	+				
-E081 - 01	3.0				
-02					
- 03					
<u> </u>					
- -					

CLBAN-UP	CODE
GPC	G
тва	S
ACID	A
FLORISIL	F

REAGENT	LOT#
Na2SO4	35289611
CH2CL2	36082
HEXANE	962303

STANDARDS	ID.	AMOUNT ADDED (ml)
SPIKE IDMIX A	5100-01-24-02	0.25
	S10C-1-23.2	2.0
	SIDC-1-25-01	0.40

SDG #	EXTRACT LOCATION
	GC-RI-CI

COMMENTS:

mo/m PREPARED BY: MD/ML STD's ADDED BY: CHECKED BY:

Extracts Received By:

Rev. 08/89



CHAIN-OF-CUSTODY RECORD

Form 0019 Field Technical Services

166573

C	.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-									•	41	9-423-3526
PROJECT NAME COMP Lejeure. PROJECT LOCATION PROJECT CONTACT PROJECT TELEPHONE NO. 18319 CLIENT'S REPRESENTATIVE PROJECT MANAGER/SUPERVISOR VANA Marshburn Jim D., NA / Alan Whitt								PROJECT TELEPHON	NUMBER OF CONTAINERS	(INC	JALYSIS DESIRED DICATE PARATE NTAINERS)	
ITEM NO.	S	SAMPLE NUMBER DATE TIME S S S S S S S S S S S S S S S S S S S						SAMPLE DESCRIPTION SAMPLE MATRIX A POINT OF SAMPLE	ON ~ ND .	Ą		REMARKS
1	1510	o-CS-015	130/4	1378		X	A	06 33-38	Ruse.	1.8) s	Newsa Level C
2	et io	ocs-oil	13/46	1333		X	Conflex	or 33-38	Ease	1-80	z X	
3	ั. นั/ง	r-65-017	7/36/40	335		X	Contie	Notes 5000	le from	1.80	* X	
4;	IJIU	r-65-018	5/2/46	1341		X		100 Samp	ole from Sidewall	1-80	7 X	
5	Estu	>-C5-619				Contra	- 100 - 500 AUC 33-38	ale from	1-80	, X		
6	<i>i310</i>	v-05~026	Tool	1353		X	Cunting			1.8.	2 X	
7	1510	gguSe-23-0	13/16	1353		X	Duplicat.	Prom A	33-38 5 While	1.8	$X_{\varsigma,}$	
8	1510	u-25-021	1/30/16	358		X	Confir	rution Sun		1-8.		
9	,J10	v	183/16	1403		X			side vull	1-80		
10	2 .5 10	U-C5-BZ3	30/96	1408		X	Contin	AOC 33-38	mple from 5. devall	1-8.	z X	
	NUMBER	ITEM NUMBER			RELIN	QUIS	FERS SHED BY	ACCEP	SFERS TED BY	DATE		
	1	1-10	>	Por	02	K	Hear	ED-EX 6	921491290	5/30/46	1700	118 hour TAT Please Fax Rusulls To (910) 451-1869. Thanks.
	2							Longe	ر مسال المسال	131/16	100	
	3								Hold Samples until we contact you.			
	4											SAMPLER'S SIGNATURE

1660 1/02

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TRANSFER 1

Form 0019
Field Technical Sérvices
Rev. 08/89

166573

CHAIN-OF-CUSTODY RECORD

C	O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526																		
PRC	J. NO.	PROJEC	CT CONTA					PROJECT TELEPHONE NO.	NUMBER OF CONTAINERS	(INC	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)						/		
YAMA Marshinal In I							PROJECT MAN	MENTS OF THE	NOME		,								
ITEM NO.	S	AMPLE IUMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCRIPTION INCLUDE MATRIX AND POINT OF SAMPLE)	Q		(i)				REMARKS				
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2	1100) et, nort		1333		X	1.7	73-38 1, 6p	1-5	, X									
3	,j/s:	rs (15 g 17 c		73.5		X			1.8.	. X									
4	J40) (Se, 14	4.7	[34 <u>]</u>		X	1.	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1-8	. X									
5	1354	•		1204		X		73 38 Clevell	1-4.	X									
6	. 1	· 163 + 233	1/	Of 3		X	(23-38 Silverill	1.8.	· 1/ \ 									
7	15.	oran ayi		1353		X	S. 1. 2. 1.	4 6 73 78 6 11 1	1-8,										
8	,71.	es est	1.0	358		X	4.7	12.58 0 will	1000										
9	· Y · .	Mary Comment	A_{k_0}	1463		X	A	- 1-38 S. Pay II	10.	X									
10	150	9 . 5 OCS	Z	१५०४		X	*	Ang 33-38 12 well	1-2	. X							√		
	NUMBER	ITEM NUMBER		F		ANSF QUIS	ERS HED BY	TRANSFERS ACCEPTED BY	DATE	TIME									
-	1	i - 11	;	ļ	1	- (1 an	1 PEX 6921491290	1.16	1200							(<u> </u>		
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3													105	1, 1	yan yan				
4								(SAMI	PLER'S S		,		L Lyens	(

16E081/D2

. AANSFER 2

Form 0019
Field Technical Services
Rev. 08/89

166574

CHAIN-OF-CUSTODY RECORD

419-423-3526 O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 PROJECT NAME PROJECT LOCATION Camp Lejeune **ANALYSIS DESIRED** (INDICATE NUMBER CONTAINERS PROJECT CONTACT PROJ. NO. SEPARATE (910) 451-2599 CONTAINERS) 18319 CLIENT'S REPRESENTATIVE Jim Dunw/ Alaw Whitt Marshburn WANN SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) COMP SAMPLE NUMBER DATE | TIME REMARKS NEESA 1-807 1 215/00-65-624 ADC 31-42 Confirmation Simple = 2 C15100-C5-025 1/30/16/14/14 1-807 ADC 39-42 Silewall ontirmition Smale 1-807 3 3 KUT100-CS-026 1 4 21500-CS-027 - BUF 25 28 1-807 5 5 15100-C5-028 1 6 CIJAD-CS-UZY 3/8/6/ 1476 -80z firm 1808 17 7 765 No. CS-030 Base Sumple Continuation 1-807 11 8 15100-CS-030 Dp 130/9/ 14/30 ADC 29-32 1 9 CLS100-1B-530 130/41/1437 Black RIJSATR 10 coros- RB- 530 REMARKS ITEM NUMBER **TRANSFERS** Samples sent to CKY INC. **TRANSFERS** DATE RELINQUISHED BY ACCEPTED BY 48 hour T.A.T. Please tax results To (910) 451-1809. Mrs. KS (Liveon K. Azar FIDEX 6921491290 5/30/11700 1-10 2 Hold Samples witill we contact you. 3

16E221/D2

TRANSFER 1

Form 0019
Field Technical Services
Rev. 08/89

166574

CHAIN-OF-CUSTODY RECORD

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		MATERIALS	CORP	·. •	,	Ρ.	O. BOX 551	• FINDLAY, OH 45839-0551	•	4	19-42	3-352	26						
PAC		1.4 .	CT CONT	<i>J</i> .	1,,	,	PROJECT MAN	PROJECT TELEPHONE NO. 1 25 9 AGER/SUPERVISOR	NUMBER	Las	NALY: IDICAT EPARAT ONTAIN	E E	ŚIRED						
ITEM NO.		SAMPLE NUMBER DATE TIME O S S						SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	Ö		ķij			//			REI	MARKS	
1	151	ω-(% ₂)	\mathcal{N}_{θ}	1412		X		1 0 7. 1. From	1.50	>							119 1 19		<u> </u>
2	1510	0.65-025	But	1414		X	Conference		1-80								,		
3	LJIVO	.cs.02l	1/2/	247		X	Confier 7 AUC 20	- Smale From	1-80										
4	e\$ba	-05-077	/s/n	1070	,	X	Contr.	- as Sunda from	1-80	<i>t</i>									
5	とろりし	-65-028	1.5/	1413		X	AUC 3	Single four	1-80	D7 X									
6	LJho	-CS-077	Fife	147L		X		- Suple five	1-80	٦ ,									
7	LIN	- (5-630	Luke	1430		X	Apt	To Saple from F	1.8										
8	ιJ/υυ	-CS-030 DP	You!	4130	,	X	Destinte 1	ADC 23-32 BUSE	1-8,	7 X	1							/	
9	L.510	o-म8्-∷ o	1 /il	1437		X	F.,	W Black	1-11	1 \							Do Not	Run!	
10	isia	- RB 5%	130/16	1441		X	R	Wente Black	1-11	_ X							Do NO	F RUN	1.
TBANCEER	NUMBER	ITEM NUMBER		R	TR	ANSI	FERS SHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	RE	REMARKS Champles Sent Control							
	1	1-10		1 11	71 se	- (29 Tab-	DEX 6921491290	15 /	1.00	,] ±;) , , , , , , , , , , , , , , , , , , ,	110	r 1	<i>[6]</i>				
	2							Lindla-			<u>, </u>						· 大大		
	3					.,									٠.			*	4.7%
	4							(SAM	IPLER'S	SIGNAT	URE			,,,,	(

SAMPLE RECEIPT FORM

CONTROL NO.	96E0 8 I	1					DATE	05 - 31 -96
CLIENT	OHM	1					TIME	900
PROJECT	Camp Lejeune	1				• •	RECIPIENT	Tom Vi
			т				50011/5/75/00 \	
	TATION TO CKY LABO	RATORY:	 	BY	ON(DATE)	AT(TIME)	FROM(SITE/CO.)	COMMENTS
PICKED-UP BY CKY			 			<u> </u>		
DELIVERED BY CLIEN			1					
SHIPPED/AIRBILL NO	Fedex, APTN:	8421441240	<u> </u>	ee Air Bill				
SAMPLE BATCH PAC	KAGING/SEALING UPO	ON RECEIPT:		INTACT	DAMAGED	SEALED	NOT SEALED	NO CONTAINER
CONTAINER:	IN	ISIDE TEMPERATURE:		2° c	CUSTODY SEAL		LOCATION	NUMBER
" COOLER	PACKAGING	TYPE	5	SUFFICIENCY	INTACT	DAMAGED		
BOX	INSULATION:			OK	NAME:		Front Closure	2
OTHER:	ICE/COOLANT:	Regular			DATE:			
	PACKING MATERIAL:	Popcorn		\checkmark	TIME:			
SAMPLE DOCUMENTA	'ATION/CHAIN-OF-CL			SEALED	ENCLOSED	HANDCARRIED	FAXED	MAILED
SAMPLE LOG-IN:		CRITERIA	<u> </u>	····	COMMENTS		DISCREPAN	VCY
SAMPLE CUSTODY SE	EAL	EVERY SAMPLE	No	ne			1	
CONTAINER TYPE/MA		APPROPRIATE	Q					
SAMPLE AMOUNT	1	ENOUGH						
SAMPLE PRESERVATI	ION/HOLDING TIME	SUFFICIENT		·				
HEADSPACE/BUBBLE		ZERO/NONE						
SAMPLE LABEL INFOR		SUFFICIENT						
CHAIN-OF-CUSTOD		SUFFICIENT	$\overline{}$,		/ .
SAMPLE INFO.:	SAMPLE ID	DATE	l	TIME	SIGNATURE /	ANALYSĘS V	PRESERVATIVE /	CONTAINER
INDIVIDUAL SAMPLE C	CONTAINER:	NONE	1	SEALED PLASTIC	BAG	CAN	OTHER(SPECIFY):	: Bubble Wrap
SAMPLE NUMBER	CLIENT ID		DIS	SCREPANCY			ACTION	
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CLIENT SERVICES COI	PY RECEIVED BY	cectia	9/2	31	DATE		TIME	

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4921191	290					96E081 //		
D. 7716471-1	Date	211-01	,		EVEX KE	GULAI UKY GUP NN FOR 1 YEAR		
From (Your Name) Please Print	CÓLL	Your Pho	ne Number (Ver	y important)	To (Recipient's N		Recipient's F	Phone Number Britan
Company FIRING	-CKAN	1910	Departmen	7599 P VFloor No.	Company	M PANG	(310	Department of No.
Street Address	SERVICES	ì			Exact Street Add	ress (We Cannot Deliver to P.O. Boxes or P.O.	3. Zip Codes.)	
	LCOMO BL	<u> </u>			630	maple_Ave	WE	
Gity 130 Kankive is 5	State	_ _	lequired عددن	3	City	, , , ,	State ZIP Re	equired
YOUR INTERNAL BILLING REFERENCE INFORMATION	(optional) (First 24 chai			- · · · · · · · · · · · · · · · · · · ·		IF HOLD AT FEDEX LOCATION, Print FE	DEX Address Here (Not a	vailage at all locations)
PAYMENT 1 BII Sender 2 Bill Recipient's Fed	1Ex Acct. No. 3 Bill 3	ard Party FedEx Ac	cct. No. 4	Bell Credit C	ard .	Address City	State ZIP Fje	equired
5 Caste Accordance Accordance No.			MCRIGES	Exp Date	•		12	·
4 - SERVICES (Check only one box)	DELIVERY AND SPEC	es required)	G 6	WEIGHT In Paunas Only	YOUR DECLARED VALUE (See right)	SERVICE CONDITIONS, DEC AND LIMIT OF LIAE Use of this authii constitutes your agreement	IILIIY 👉	Federal Express Use Base Charges
Priority Overnight Standard Overnight Obevery by next business mornings (Delivery by next business afternoon 11	1 HOLD AT FEDEX L		n H) F	-54		in our current Service Guide, available up sender's copy of this ambill for information. So for Government Overnight Service. See U	on request. See back of ervice conditions may vary	Declared Value Charge
Economy, Two-Day Government Overnight (Delvey by seibnd business days)	Saturday					Guide for details, We will not be responsible for any claim in ex- whether the result of loss, damage delay no	cess of \$100 per package.	Other 1
30 📝 . 41 🗌	31 HOLD AT FEDEX L 3 7 C	IFA in Seco DELIVER SATURDA	AY Total	Total	Total	misinformation, unless you declare a higher charge, and document your actual loss for	r value pay an additional a tinggy claim. Limitations	Other 2
Freight Service (for pechages over 150 bs.) 70 OVERNIGHT on TWO-DAY	9 SATURDAY PICK-I	Extra charge) (Not as	variable ocasions)	54		found in the current reoferal Express Service recover from Federal Express for any loss, the package, loss of Sales, income intere costs, and other forms of dranage we corresequential, or special is limited to to declared value specified to the left. Reco- dicumented loss.	to profit, attorney's fees, elber direct, incidental, refreater of 5100 or the	Total Charges
FREIGHT ** Contented resource required Positive Contented to Contente	Special F	•	DIMIS	HIPMENT (Chai	rgeable Weight)	In the event of untimely delivery, Federal	al Express will at your	REVISION DATE 11/94 Part # 146187/146188
INSTRUCTIONS (Mark appropriate boxes)	6. DRY ICE Compercial Goods Sho		required	. , VI		request and with some limitations return paid. See Service Guide for further information.	all transportation charges toon.	FORMAT #219 GBFE
Dangerous Goods as per attached Shipper's Dectaration Dangerous Goods Shipper's Dectaration not required	Oyes UN 186 8		904	Receive Regular Stop	ad As 3 ☐ Drop Box	SIGNATURE RELEASE	LINAVAII ARI F	O 1994 FECEX PRINTED IN
	12 HOLIDAY DELIVER	RY (If offered)	- è g	On Carlson	4 □ B.S.C. 5 □ Station			u.s.a
		(September 1)		Two	completed of	id signed copies of this l	maraya ara a a a a a a a a a a a a a a a	1-40 h
6921491	.290 Pe	age of	Page	s handi	ed to the ope	rator.	veciaration mu	ist be
TRANSPORT DETAILS This shipment is within the		age of			ed to the ope INING re to comply	erator. in all respects with the	applicable D	angerous Goods
TRANSPORT DETAILS This shipment is within the ilmitations prescribed for: (delete non applicable) PASSENGER CARGO				WAR Failui Regu penal	ed to the ope NNNG re to comply lations may Ities. This De	in all respects with the be in breach of the ap- claration must not, in an	e applicable Di oplicable law, y circumstance	angerous Goods subject to lega es, be completed
TRANSPORT DETAILS This shipment is within the limitations prescribed for: (delete non applicable) PASSENGER CARGO				WAR Failu Regu penal and/o	ed to the ope NING re to comply lations may lities. This De or signed by	in all respects with the be in breach of the application must not, in an a consolidator, a forward.	e applicable Di oplicable law, y circumstance	angerous Goods subject to lega es, be completed
TRANSPORT DETAILS This shipment is within the ilmitations prescribed for: (delete non applicable) PASSENGER CARGO AND CARGO AIRCRAFT ONL Airport of Destination:	Airpor	t of Departur	e	WAR Failur Regu penal and/o	ed to the ope RNING re to comply dations may lities. This De or signed by	in all respects with the be in breach of the ap- claration must not, in an	e applicable Di oplicable law, y circumstance	angerous Goods subject to lega es, be completed
TRANSPORT DETAILS This shipment is within the limitations prescribed for: (delete non applicable) PASSENGER CARGO AND CARGO ANCRAFT Airport of Destination:	Airpor	t of Departur	e	WAR Failur Regu penal and/o	ed to the ope RNING re to comply dations may lities. This De or signed by	in all respects with the be in breach of the apclaration must not, in an a consolidator, a forwardelete non-applicable)	e applicable Di oplicable law, y circumstance	angerous Goods subject to lega es, be completed
TRANSPORT DETAILS This shipment is within the limitations prescribed for: (delete non applicable) PASSENGER CARGO AND CARGO ANCRAFT Airport of Destination:	Airpor OF DANGERO	t of Departur	e	WAR Failur Regu penal and/o	ed to the ope RNING re to comply lations may lities. This De or signed by pment type: (in all respects with the be in breach of the apclaration must not, in an a consolidator, a forwardelete non-applicable)	e applicable Di oplicable law, y circumstance arder or an IA	angerous Goods subject to lega es, be completed
TRANSPORT DETAILS This shipment is within the ilmitations prescribed for: (detete non applicable) PASSENGER CARGO ANCA	Airpor OF DANGEROI Goods Identificati Class or	US GOOD	Packing Group	Subsidiary Risk	ed to the ope RNING re to comply Illations may Ities. This De or signed by DN-RADIOAC	in all respects with the be in breach of the apclaration must not, in an a consolidator, a forwardelete non-applicable) TIVE RADIOACTIVE Quantity and ype of packing	e applicable Deplicable law, y circumstance arder or an IA	angerous Goods subject to lega es, be completed TA cargo agent
TRANSPORT DETAILS This shipment is within the filmitations prescribed for: (delete non applicable) (delete non applicable) (ARGO AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT Dangerous of Proper Shipping Name	OF DANGEROI Goods Identificati Class or Division	US GOOD ON OF ID No.	Packing Group	WAR Failur Regu penal and/o Ship NC	ed to the ope RNING re to comply Illations may Ities. This De or signed by DN-RADIOAC	in all respects with the be in breach of the apclaration must not, in an a consolidator, a forwardelete non-applicable) TIVE RADIOACTIVE Quantity and	e applicable Dipplicable law, y circumstance arder or an IA	angerous Goods subject to lega es, be completed TA cargo agent
TRANSPORT DETAILS This shipment is within the ilimitations prescribed for: (delete non applicable) PASSENGER CARGO AND CARGO AND CARGO AIRCRAFT ONLY Airport of Destination: NATURE AND QUANTITY Dangerous of	OF DANGEROI Goods Identificati Class or Division	US GOOD on UN or ID No.	Packing Group	Subsidiary Risk	ed to the ope RNING re to comply Illations may Ities. This De or signed by DN-RADIOAC	in all respects with the be in breach of the apclaration must not, in an a consolidator, a forwardelete non-applicable) TIVE RADIOACTIVE Quantity and ype of packing	e applicable Deplicable law, y circumstance arder or an IA	angerous Goods subject to lega es, be completed TA cargo agent
TRANSPORT DETAILS This shipment is within the illinitations prescribed for: (delete non applicable) PASSENGER CARGO AND CARGO ANCRAFT Airport of Destination: NATURE AND QUANTITY Dangerous of Proper Shipping Name	OF DANGEROI Goods Identificati Class or Division	US GOOD on UN or ID No.	Packing Group	Subsidiary Risk	ed to the ope RNING re to comply Illations may Ities. This De or signed by DN-RADIOAC	in all respects with the be in breach of the application must not, in an a consolidator, a forwardelete non-applicable) TIVE RADIOACTIVE Quantity and type of packing	Packing Inst.	angerous Goods subject to lega es, be completed TA cargo agent
TRANSPORT DETAILS This shipment is within the ilmitations prescribed for: (detete non applicable) PASSENGER CARGO ANCA	OF DANGEROI Goods Identificati Class or Division	US GOOD on UN or ID No.	Packing Group	Subsidiary Risk	ed to the ope RNING re to comply Illations may Ities. This De or signed by ON-RADIOAC	in all respects with the be in breach of the apclaration must not, in an a consolidator, a forwardelete non-applicable) TIVE RADIOACTIVE Quantity and type of packing	Packing Inst.	angerous Goods subject to lega es, be completed TA cargo agent
TRANSPORT DETAILS This shipment is within the filmitations prescribed for: (delete non applicable) (delete non applicable) (ARGO AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT AIRCRAFT Dangerous of Proper Shipping Name	OF DANGEROI Goods Identificati Class or Division	US GOOD on UN or ID No.	Packing Group	Subsidiary Risk	ed to the ope RNING re to comply Illations may Ities. This De or signed by ON-RADIOAC	in all respects with the be in breach of the application must not, in an a consolidator, a forwardelete non-applicable) TIVE RADIOACTIVE Quantity and type of packing	Packing Inst.	angerous Goods subject to lega es, be completed TA cargo agent
TRANSPORT DETAILS This shipment is within the limitations prescribed for: (detete non applicable) PASSENGER CARGO AIRCRAFT CONT. Airport of Destination: NATURE AND QUANTITY Dangerous of Proper Shipping Name	OF DANGEROI Goods Identificati Class or Division	US GOOD on UN or ID No.	Packing Group	Subsidiary Risk	ed to the ope RNING re to comply plations may lities. This De or signed by coment type: 1 1 1 1 1 1 1 1 1 1 1 1 1	in all respects with the be in breach of the application must not, in an a consolidator, a forward delete non-applicable) TIVE RADIOACTIVE Quantity and type of packing	Packing Inst.	angerous Goods subject to lega es, be completed TA cargo agent
TRANSPORT DETAILS This shipment is within the illinitations prescribed for: (delete non applicable) PASSENGER CARGO AND CARGO ANCRAFT Airport of Destination: NATURE AND QUANTITY Dangerous of Proper Shipping Name	OF DANGEROI Goods Identificati Class or Division	US GOOD on UN or ID No.	Packing Group	Subsidiary Risk	ed to the ope RNING re to comply plations may lities. This De or signed by coment type: 1 1 1 1 1 1 1 1 1 1 1 1 1	in all respects with the be in breach of the apclaration must not, in an a consolidator, a forwardelete non-applicable) TIVE RADIOACTIVE Quantity and type of packing	Packing Inst.	angerous Goods subject to lega es, be completed TA cargo agent
TRANSPORT DETAILS This shipment is within the ilmitations prescribed for: (delete non applicable) PASSENGER CARGO ANCARE AIRCRAFT ONLY NATURE AND QUANTITY Dangerous Proper Shipping Name	OF DANGEROI Goods Identificati Class or Division	US GOOD on UN or ID No.	Packing Group	Subsidiary Risk	ed to the ope INING re to comply lations may lities. This De or signed by oment type: (ODN-RADIOAC	in all respects with the be in breach of the application must not, in an a consolidator, a forward delete non-applicable) TIVE RADIOAGTIVE Quantity and type of packing	Packing Inst.	angerous Goods subject to lega es, be completed TA cargo agent
TRANSPORT DETAILS This shipment is within the illinitations prescribed for: (delete non applicable) PASSENGER AND CARGO ANCART Airport of Destination: NATURE AND QUANTITY Dangerous Proper Shipping Name	OF DANGEROI Goods Identificati Class Or Division	US GOOD on UN or ID No.	Packing Group accurately d, and are	Subsidiary Risk	above by the popers in the popers in the popers in the popers.	in all respects with the be in breach of the application must not, in an a consolidator, a forward delete non-applicable) TIVE RADIOACTIVE Quantity and type of packing Toper Name/Title of Signatory roper AAP was 2 Consolidatory.	Packing Inst.	angerous Goods subject to lega es, be completed TA cargo agent
TRANSPORT DETAILS This shipment is within the ilmitations prescribed for: (delete non applicable) PASSENGER CARGO AND CARGO AIRCRAFT Airport of Destination: NATURE AND QUANTITY Dangerous of the contents	OF DANGEROI Goods Identificati Class or Division	US GOOD on UN or ID No.	Packing Group accurately d, and are al and Natio	Subsidiary Risk	above by the popers in the popers in the popers in the popers.	in all respects with the be in breach of the application must not, in an a consolidator, a forward delete non-applicable) TIVE RADIOACTIVE Quantity and type of packing Toper Name/Title of Signatory roper AAP was 2 Consolidatory.	Packing Inst.	angerous Goods subject to lega es, be completed TA cargo agent

DATE:

June 7, 1996

TO:

Missy Art

FROM:

W. Tu Nisamaneepong

SUBJECT:

Project Camp Lejeune SDG#96004 and SDG# 96E081

Enclosed please find resubmittal and missing report for SDG# 96E081 and SDG 96F004 itemized as follows.

Item# 1: SDG# 96F004 Resubmittal of revised LCS and MS/MSD report

> QC limit ranges of surrogate recoveries in the LCS and MS/MSD were incorrect due to transcript errors. Two copies of revised LCS and MS/MSD reports page# 20, 21, and 25 are enclosed.

Item# 2 SDG# 96E081 Resubmittal revised LCS and MS/MSD report and missing calibration summary

> QC limit ranges of surrogate recoveries in the LCS and MS/MSD were incorrect due to transcript errors. Two copies of revised LCS and MS/MSD reports are enclosed. Two copies of missing initial calibration table and daily calibration check summary are also enclosed.

We are sorry for any inconvenience that may have caused you on data review. Please call me at (310) 618-8889 if you have any questions. Thank you.

MEMO Date: 66/08/96

Resubmittal Item # 1

COC# 96F004

CKY QUALITY CONTROL DATA MS/MSD ANALYSIS

OHM

18319/CAMP LEJEUNE

MATRIX:

EPA 8080 SOIL

% MOISTURE:

NA

BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-041 CONTROL NO.: F004-12

DATE RECEIVED: 06/01/96

DATE EXTRACTED: 06/04/96

DATE ANALYZED: 06/05/96

ACCESSION:

96F004

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT	RPD LIMIT
Aldrin	ND	167.00	187.00	112	167.00	195.00	117	4	20-170	50
alpha-Chlordane	ND	167.00	208.00	125	167.00	204.00	122	2	20-170	50
gamma-Chlordane	ND	167.00	179.00	107	167.00	189.00	113	5	20-170	50
4,41-DDD	ND	333.00	333.00	100	333.00	400.00	120	18	20-170	50
4,41-DDT	ND	333.00	349.00	105	333.00	415.00	125	17	20-170	50
Dieldrin	ND	333.00	285.00	86	333.00	330.00	99	15	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT	
Tetrachloro-m-xylene Decachlorobiphenyl	400.00 667.00	383.00 619.00	96 93	400.00 667.00	416.00 659.00	104	20-150	





CKY QUALITY CONTROL DATA LCS/LCD ANALYSIS

CLIENT:

PF'

18319/CAMP LEJEUNE

ME MATRIX: EPA 8080 SOIL

% MOISTURE:

NA

BATCH NO.: SAMPLE ID:

96F004

DATE RECEIVED: NA

DATE EXTRACTED: 06/04/96

CONTROL NO.:

LCS1S/LCS1SD CPF004SL/C

DATE ANALYZED: 06/04/96

ACCESSION:

96F004

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	8SD RSLT (ug/kg)	BSD % REC	RPD %	QC LIMIT	RPD LIMIT
Aldrin	ND	167.00	177.00	106	167.00	178.00	107	1	47-116	75
alpha-Chlordane	, ND	167.00	182.00	109	167.00	198.00	119	8	45-119	<i>7</i> 5
gamma-Chlordane	ND	167.00	174.00	104	167.00	176.00	105	1	45-119	<i>7</i> 5
4.4'-DDD	ND	333.00	364.00	109	333.00	360.00	108	1	48-136	<i>7</i> 5
4,41-DDT	ND	333.00	386.00	116	333.00	378.00	114	2	34-143	<i>7</i> 5
Dieldrin	ND	333.00	312.00	94	333.00	307.00	92	2	42-132	75

SURROGATE PARAMETER	SPIKE AMT	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT
Tetrachloro-m-xylene	400.00	405.00	101	400.00	397.00	99	20-150
Decachlorobiphenyl	667.00	608.00	91	667.00	612.00	92	20-150

REVISED REPORT

21 \$ 14.90

CKY QUALITY CONTROL DATA LCS/LCD ANALYSIS

MHO

18319/CAMP LEJEUNE

MATRIX:

EPA 8080

% MOISTURE:

WATER

NA

BATCH NO.: SAMPLE ID:

ACCESSION:

96F004

LCS1W/LCS1WD CONTROL NO.: CPF003WL/C

DATE RECEIVED: NA

DATE EXTRACTED: 06/04/96 DATE ANALYZED: 06/05/96

96F004

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT	BSD RSLT (ug/L)	BSD % REC	RPD %	QC LIMIT	RPD LIMIT
Aldrin	ND	.50	.49	98	.50	.52	104	6	47-116	50
alpha-Chlordane	ND	.50	.54	108	.50	.58	116	7	45-119	50
gamma-Chlordane	ND	.50	.50	100	.50	.53	106	6	45-119	50
4,41-000	ND	1.00	1.09	109	1.00	1.13	113	4	48-136	50
4,41-DDT	ND	1.00	1.14	114	1.00	1.15	115	1	34-143	50
Dieldrin	ND	1.00	.98	98	1.00	1.01	101	3	42-132	50

			==========				=======================================
SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	1.20 2.00	.92 1.70	77 85	1.20	1.01	84 88	30-150 24-154

REVISED REPORT

CKY QUALITY CONTROL DATA MS/MSD ANALYSIS

: OHM: 18319/CAMP LEJEUNE

EPA 8080

MATRIX:

SOIL

% MOISTURE:

NA

BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-041

CONTROL NO.: F004-12

DATE RECEIVED: 06/01/96 DATE EXTRACTED: 06/04/96

DATE ANALYZED: 06/05/96

ACCESSION:

96F004

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT	RPD LIMIT
Aldrin	ON	167.00	187.00	112	167.00	195.00	117	4	20-170	50
alpha-Chlordane	ND	167.00	208.00	125	167.00	204.00	122	2	20-170	50
gamma-Chlordane	ND	167.00	179.00	107	167.00	189.00	113	5	20-170	50
4,41-DDD	ND	333.00	333.00	100	333.00	400.00	120	18	20-170	50
4,41-DDT	ND	333.00	349.00	105	333.00	415.00	125	17	20-170	50
Dieldrin	ND	333.00	285.00	86	333.00	330.00	99	15	20-170	50

SPIKE AMT MS RSLT MS SPIKE AMT MSD RSLT MSD QC LIMIT (ug/kg) (ug/kg) % REC % SURROGATE PARAMETER 104 99

 400.00
 383.00
 96
 400.00

 667.00
 619.00
 93
 667.00

 416.00 659.00 Tetrachloro-m-xylene 20-150 Decachlorobiphenyl 20-150

REVISED REPORT

CYVING ANAIVTICAL LABORATORIES COMMILA

CKY QUALITY CONTROL DATA LCS/LCD ANALYSIS

OHM

18319/CAMP LEJEUNE

EPA 8080 SOIL MATRIX: % MOISTURE: NA

BATCH NO.: 96F004 SAMPLE ID: LCS1S/LCS1SD CONTROL NO .: CPF004SL/C

DATE RECEIVED: NA

DATE EXTRACTED: 06/04/96 DATE ANALYZED: 06/04/96

ACCESSION:

96F004

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD %	QC LIMIT	RPD LIMIT
Aldrin	ND	167.00	177.00	106	167.00	178.00	107	1	47-116	75
alpha-Chlordane	ND	167.00	182.00	109	` 167.00	198.00	119	8	45-119	75
gamma-Chlordane	ND	167.00	174.00	104	167.00	176.00	105	1	45-119	75
4,4!-DDD	ND	333.00	364.00	109	333.00	360.00	108	1	48-136	75
4,4'-DDT	ND	333.00	386.00	116	333.00	378.00	114	2	34-143	75
Dieldrin	ND	333.00	312.00	94	333.00	307.00	92	2	42-132	75

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT
Tetrachloro-m-xylene	400.00	405.00	101	400.00	397.00	99	20-150
Decachlorobiphenyl	667.00	608.00	91	667.00	612.00	92	20-150

REVISED REPORT

CKY QUALITY CONTROL DATA LCS/LCD ANALYSIS

Γ:

18319/CAMP LEJEUNE

ME U:

EPA 8080

MATRIX:

WATER

% MOISTURE:

NA

BATCH NO.:

96F004

SAMPLE ID: CONTROL NO.: LCS1W/LCS1WD

CPF003WL/C

DATE RECEIVED: NA

DATE EXTRACTED: 06/04/96

DATE ANALYZED: 06/05/96

ACCESSION:

96F004

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT	BS RSLT (ug/L)	BS % REC	SPIKE AMT	BSD RSLT (ug/L)	BSD % REC	RPD %	QC LIMIT	RPD LIMIT
Aldrin	ND	.50	.49	98	.50	.52	104	6	47-116	50
alpha-Chlordane	ND	.50	.54	108	.50	.58	116	7	45-119	50
gamma-Chlordane	ND	.50	.50	100	.50	.53	106	6	45-119	50
4,41-000	ND	1.00	1.09	109	1.00	1.13	113	4	48-136	50
4,4'-DDT	ND	1.00	1.14	114	1.00	1.15	115	1	34-143	50
Dieldrin	ND	1.00	.98	98	1.00	1.01	101	3	42-132	50

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT %
Tetrachloro-m-xylene	1.20	.92	77	1.20	1.01	84	30-150
Decachlorobiphenyl	2.00	1.70	85	2.00	1. <i>7</i> 5	88	24-154

REVISED REPORT

25 £ 6.4.00

CVV INC. ANAIVTICAL LABORATORIES (200 V.)

MEMO Date: 06/08/96

Resubmittal Item # 4

COC # 96 E081

CKY QUALITY CONTROL DATA LCS ANALYSIS

OHM

ECT:

18319/CAMP LEJEUNE EPA 8080

.JD:

SOIL

% MOISTURE:

NA

BATCH NO.: SAMPLE ID: CONTROL NO.:

96E081 LCS1S CPE017SL

DATE RECEIVED:

DATE EXTRACTED: DATE ANALYZED:

05/31/96 05/31/96

ACCESSION:

96E081

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	LCS RSLT (ug/kg)	LCS % REC	QC LIMIT
Aldrin alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin	ND ND ND ND ND ND	167.00 167.00 167.00 333.00 333.00	172.00 188.00 171.00 376.00 366.00	103 113 103 113 110	47-116 45-119 45-119 48-136 34-143

LCS RESULT SPIKE QC LIMIT AMOUNT SURROGATE PARAMETER (ug/kg) (ug/kg) 양 Tetrachloro-m-xylene Decachlorobiphenyl 400.00 667.00 411.40 623.00 103 20-150 20-150 93

REPORT

CKY QUALITY CONTROL DATA MS/MSD ANALYSIS

CI TAT:

T:

18319/CAMP LEJEUNE

J: MATRIX:

EPA 8080

% MOISTURE:

11.7

BATCH NO.: 96E081 SAMPLE ID: CLJ100-CS-022

CONTROL NO.: E081-09

DATE EXTRACTED: 05/31/96

DATE RECEIVED: 05/31/96

DATE ANALYZED: 06/01/96

ACCESSION: 96E081

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT	RPD LIMIT %
Aldrin	ND	189.00	200.00	106	189.00	221.00	117	10	20-170	50
alpha-Chlordane	ND	189.00	239.00	127	189.00	263.00	139	10	20-170	50
gamma-Chlordane	ND	189.00	233.00	123	189.00	251.00	133	8	20-170	50
4,41-DDD	ND	377.00	462.00	122	377.00	463.00	123	0	20-170	50
4,4'-DDT	DIA	377.00	476.00	. 126	377.00	476.00	126	0	20-170	50
Dieldrin	108.00	377.00	472.00	97	377.00	484.00	100	3	20-170	50

SPIKE AMT MS RSLT (ug/kg) MS SPIKE AMT (ug/kg) MSD RSLT (ug/kg) MSD QC LIMIT % REC % REC SURROGATE PARAMETER (ug/kg) Tetrachloro-m-xylene 453.00 449.00 99 453.00 474.00 105 20-150 Decachlorobiphenyl 755.00 728.00 96 755.00 752.00 100 20-150 20-150 20-150

REVISED REPORT



CKY QUALITY CONTROL DATA LCS ANALYSIS

TMT: ICT: .SD:

MHO 18319/CAMP LEJEUNE EPA 8080

MATRIX: SOIL

% MOISTURE: NA

BATCH NO.: SAMPLE ID: CONTROL NO.:

96E081 LCS1S CPE017SL

DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: NA 05/31/96 05/31/96

ACCESSION:

96E081

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	LCS RSLT (ug/kg)	LCS % REC	QC LIMIT
Aldrin alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin	ND	167.00	172.00	103	47-116
	ND	167.00	188.00	113	45-119
	ND	167.00	171.00	103	45-119
	ND	333.00	376.00	113	48-136
	ND	333.00	366.00	110	34-143
	ND	333.00	335.00	101	41-132

SURROGATE PARAMETER	SPIKE AMOUNT (ug/kg)	LCS RESULT (ug/kg)	LCS % REC	OC LIMIT
Tetrachloro-m-xylene	400.00	411.40	103	20-150
Decachlorobiphenyl	667.00	623.00	93	20-150

CKY QUALITY CONTROL DATA MS/MSD ANALYSIS

OHM

18319/CAMP LEJEUNE ΡF

ME. EPA 8080 MATRIX: SOIL 11.7 % MOISTURE:

BATCH NO.: 96E081 SAMPLE ID: CLJ100-CS-022 CONTROL NO.: E081-09

DATE RECEIVED: 05/31/96 DATE EXTRACTED: 05/31/96

DATE ANALYZED: 06/01/96

ACCESSION:

96E081

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT	RPD LIMIT %
Aldrin	ND	189.00	200.00	106	189.00	221.00	117	10	20-170	50
alpha-Chlordane	ND	189.00	239.00	127	189.00	263.00	139	10	20-170	50
gamma-Chlordane	ND	189.00	233.00	123	189.00	251.00	133	8	20-170	50
4,41-DDD	ND	377.00	462.00	122	377.00	463.00	123	0	20-170	50
4,4'-DDT	ND	377.00	476.00	126	377.00	476.00	126	0	20-170	50
Dieldrin	108.00	377.00	472.00	97	377.00	484.00	100	3	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT
Tetrachloro-m-xylene	453.00	449.00	99	453.00	474.00	105	20-150
Decachlorobiphenyl	755.00	728.00	96	755.00	752.00	100	20-150

REVISED REPORT

INITIAL CALIBRATION METHOD 8080

Lab Name : CKY Inc

Instrument ID : GC2
GC Column : Rtx-35
Column size ID: .53mm

LFID & Datime: TE24-19 05-24-96 21:54:58 TE24-20 05-24-96 22:31:41 LFID & Datime: TE24-21 05-24-96 23:08:24 TE24-22 05-24-96 23:45:08 LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 05-25-96 00:58:31 LFID & Datime: TE24-25 05-25-96 01:35:14 TE24-26 05-25-96 02:11:59 LFID & Datime: TE24-27 05-25-96 02:48:44 TE24-28 05-25-96 03:25:29

CONC UNIT: ppb

	CONC	CAI	IBRATIO	ON FACTO	ORS (A)	REA/UNIT	7)	<u> </u>
COMPOUND	X	1.0X	2.0X	4.0X	8.0X	16.0X	MEAN	%RSD
alpha-BHC	5.0	17678	19650	20474	21133	20017	19791	===== 7
gamma-BHC	5.0	17612	19410	19738			19075	
beta-BHC	5.0	6739	7026	7777	7996	,		5 7
Heptachlor	5.0	17693	17858	17225	16941			5
delta-BHC	5.0	11589		15058		17006		16
Aldrin	5.0	18045	17786	18681	17927	17282		3
Heptachlor Epoxide	5.0	18274	17604	17968	16964	15962		5
gamma-Chlordane	5.0	19619	18677	19081	18009			ເດ ເລ
ndosulfan I	5.0	17577	18227	17895	17535	16138		5
ıpha-Chlordane	5.0	19235	18309	18529	17349	16511		6
Dieldrin	10.0	17776	18460	17738	16977	15492		7
DDE	10.0	14637	14751	15728	15085	14358	14912	<u>4</u>
Endrin	10.0	14416	14847		13564		13865	7
Endosulfan II	10.0	16430	15492	15357			14787	10
DDD	10.0	11133	12298	12243	12396	11543		5
Endrin Aldehyde	10.0	13641	12639	12850	11593	10611		10
DDT	10.0	12292	12971	12681	12553	11430		
Endosulfan Sulfate	10.0	15631	14752	14697	13372	12260	14142	יס מו
Endrin Ketone	10.0	18397	17044	16317	14430	12971	15832	14
Methoxychlor	50.0	5407	5152	4729	4376	3878	4708	13
TCX	5.0	16170	15495	15351	14113	13031	14832	====== 6
DCB	10.0	19012			13136	11773	15132	_

Instrument ID: GC2

GC Column: Rtx-35

Date of Initial Calib: 5/24/1996

Date of Cont. Calib: 5/31/1996

File Name: TE31-3/4

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	21.28	6.4
gamma-BHC	20	19075	21.14	5.7
beta-BHC	20	7454	22.70	13.5
Heptachlor	20	17057	20.40	2.0
delta-BHC	20	14510	21.23	6.2
Aldrin	20	17944	21.31	6.6
Heptachlor Epoxide	20	17354	20.78	3.9
gamma-Chlordane	- 20	18498	20.77	3.9
Endosulfan I	20	17474	20.04	0.2
alpha-Chlordane	20	17987	20.73	3.7
Dieldrin	40	17293	40.13	0.3
DDE	40	14912	44.49	11.2
Endrin	40	13865	39.58	1.1
Endosulfan II	40	14787	41.89	4.7
DDD	40	11923	42.62	6.6
Endrin Aldehyde	40	12267	41.52	3.8
DDT	40	12385	41.41	3.5
Endosulfan Sulfate	40	14142	41.25	3.1
Endrin Ketone	40	15832	41.60	4.0
Methoxychlor	200	4708	206.92	3.5

Instrument ID: GC2

GC Column: Rtx-35

Date of Initial Calib: 5/24/1996

Date of Cont. Calib: 5/31/1996

File Name: ____TE31-10/11

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.11	10.5
gamma-BHC	20	19075	21.93	9.7
beta-BHC	20	7454	21.22	6.1
Heptachlor	20	17057	21.97	9.8
delta-BHC	20	14510	22.95	14.7
Aldrin	20	17944	21.59	7.9
Heptachlor Epoxide	20	17354	21.03	5.2
gamma-Chlordane	20	18498	20.99	5.0
Endosulfan I	20	17474	20.48	2.4
alpha-Chlordane	20	17987	20.94	4.7
Dieldrin	40	17293	41.10	2.8
DDE	40	14912	44.94	12.3
Endrin	40	13865	42.10	5.3
Endosulfan II	40	14787	42.40	6.0
DDD	40	11923	44.46	11.2
Endrin Aldehyde	40	12267	42.36	5.9
DDT	40	12385	43.69	9.2
Endosulfan Sulfate	40	14142	41.96	4.9
Endrin Ketone	40	15832	42.42	6.1
Methoxychlor	200	4708	226.86	13.4

Instrument ID: GC2

GC Column: Rtx-35

Date of Initial Calib: 5/24/1996

Date of Cont. Calib: 6/1/1996

File Name: TE31-24/25

	T T			γ
COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.26	11.3
gamma-BHC	20	19075	22.22	11.1
beta-BHC	20 .	7454	19.74	1.3
Heptachlor	20	17057	20.10	0.5
delta-BHC	20	14510	22.11	10.6
Aldrin	20	17944	21.81	9.0
Heptachlor Epoxide	20	17354	21.10	5.5
gamma-Chlordane	20	18498	21.32	6.6
Endosulfan I	20	17474	20.64	3.2
alpha-Chlordane	20	17987	21.21	6.0
Dieldrin	40	17293	41.51	3.8
DDE	40	14912	45.91	14.8
Endrin	40	13865	44.01	10.0
Endosulfan II	40	14787	42.91	7.3
DDD	40	11923	43.15	7.9
Endrin Aldehyde	40	12267	43.07	7.7
DDT	40	12385	45.57	13.9
Endosulfan Sulfate	40	14142	42.46	6.1
Endrin Ketone	40	15832	42.75	6.9
Methoxychlor	200	4708	228.62	14.3

Instrument ID: GC2

GC Column:

Rtx-35

Date of Initial Calib:

5/24/1996

Date of Cont. Calib: __

6/1/1996

File Name: TE31-36/37

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.65	13.3
gamma-BHC	20	19075	22.67	13.3
beta-BHC	20	7454	19.44	. 2.8
Heptachlor	20	17057	21.90	9.5
delta-BHC	20	14510	22.40	12.0
Aldrin	20	17944	21.80	9.0
Heptachlor Epoxide	20	17354	21.40	7.0
gamma-Chlordane	20	18498	21.42	7.1
Endosulfan I	20	17474	21.07	5.3
alpha-Chlordane	20	17987	21.32	6.6
Dieldrin	40	17293	42.30	5.8
DDE	40	14912	44.96	12.4
Endrin	40	13865	45.13	12.8
Endosulfan II	40	14787	43.39	8.5
DDD	40	11923	45.14	12.8
Endrin Aldehyde	40	12267	43.58	8.9
DDT	40	12385	44.53	11.3
Endosulfan Sulfate	40	14142	43.13	7.8
Endrin Ketone	40	15832	42.99	7.5
Methoxychlor	200	4708	228.77	14.4

Instrument ID: GC2

GC Column: Rtx-35

Date of Initial Calib: 5/24/1996

Date of Cont. Calib: 6/2/1996

File Name: TF01-27/28

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.54	12.7
gamma-BHC	20	19075	22.47	12.4
beta-BHC	20	7454	21.90	9.5
Heptachlor	20	17057	19.02	4.9
delta-BHC	20	14510	23.07	15.3
Aldrin	20	17944	21.36	6.8
Heptachlor Epoxide	20	17354	19.76	1.2
gamma-Chlordane	20	18498	20.80	4.0
Endosulfan I	20	17474	20.63	3.1
alpha-Chlordane	20	17987	20.61	3.0
Dieldrin	40	17293	41.70	4.2
DDE	40	14912	44.20	10.5
Endrin	40	13865	43.20	8.0
Endosulfan II	40	14787	40.41	1.0
DDD	40	11923	45.14	12.8
Endrin Aldehyde	40	12267	39.71	0.7
DDT	40	12385	42.71	6.8
Endosulfan Sulfate	40	14142	38.31	4.2
Endrin Ketone	40	15832	36.49	8.8
Methoxychior	200	4708	228.73	14.4

Instrument ID: ____ GC2

GC Column: Rtx-35

Date of Initial Calib: 5/24/1996

Date of Cont. Calib: 6/2/1996

File Name: TF01-31/32

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.75	13.8
gamma-BHC	20	19075	22.55	12.8
beta-BHC	20	7454	22.64	13.2
Heptachlor	20	17057	21.79	8.9
delta-BHC	20	14510	22.78	13.9
Aldrin	20	17944	22.98	14.9
Heptachlor Epoxide	20	17354	21.78	8.9
gamma-Chlordane	20	18498	22.41	12.0
Endosulfan I	20	17474	21.64	8.2
alpha-Chlordane	20	17987	22.25	11.2
Dieldrin	40	17293	43.48	8.7
DDE	40	14912	45.24	13.1
Endrin	40	13865	45.26	13.1
Endosulfan II	40	14787	44.37	10.9
DDD	40	11923	44.63	11.6
Endrin Aldehyde	40	12267	44.62	11.6
DDT	40	12385	45.27	13.2
Endosulfan Sulfate	40	14142	43.34	8.3
Endrin Ketone	40	15832	41.10	2.8
Methoxychlor	200	4708	230.88	15.4

DDT/Endrin Breakdown

Instrument ID: GC-2

	File: 5E3/-2	File: TE31-2
	Col: Rtx-5	Col: ptx -35
	%breakdown	\\ \%breakdown
DDT	e.4	0
Endrin	7.2	3.7_

	File: 5E 31-23	File: TE 31-23
	Col: 2+x-5	Col: Rtx-35
	%breakdown	%breakdown
DDT	31.4	1 8.5
Endrin	3.0	1.2

	File: SE 31-35	File: TE 31-35
	Col: Rtx-5	Coi: Rtx -35
	%breakdown	%breakdown
DDT	c-4	a.7
Endrin	4.0	1.1

DDT/Endrin Breakdown

Instrument ID: GC-z

	File: 5F01-26	File: TF 01 -26
	Col: Rtx-5	Col: Rtx-36
	%breakdown	%breakdown
TOD	1.4	c.7
Endrin	8.1	2.5

	File:	File:
	Col:	Col:
	%breakdown	%breakdown
DDT		
Endrin		

	File:	File:
	Col:	Col:
	%breakdown	%breakdown
DDT		
Endrin		

SEQUENCE FILE: SE31

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD	DILUTION FACTOR	SAMPLE WEIGHT
	IBLK/10C-1-34-1	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
	PEM01/10C-1-20-2	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
	DCC1-MIXA/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
	DCC1-MIXB/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
	CPE017S8	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
	CPE017SL	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
7	96E082-01	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
8	96E082-01M	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
9	96E082-01S	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
10	DCC2-MIXA/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
11	DCC2-MIXB/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
12	96E081-01	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
13	96E081-02	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
14	96E081-03	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
15	96E081-04	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
16	96E081-05	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
17	96E081-06	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
18	96E081-07	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
19	96E081-08	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
20	96E081-09	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
21	96E081-09M	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
22	96E081-09S	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
23	PEM02/10-1-20-2	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
24	DCC2-MIXA/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
25	DCC2-MIX8/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
26	96E081-10	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
27	96E081-11	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
28	96E081-12	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
29	96E081-13	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
30	96E081-14	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
31	96E081-15	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
32	96E081-16	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
33	96E081-17	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
34	96E081-18	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
	PEN03/10C-1-20-2	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
36	DCC3-MIXA/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
37	DCC3-MIXB/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000

019-11 Processed: 06-08-1996 10:16:12, Segment 20, Cycle 33

SEQUENCE FILE: SF01

47 96E065-08

1660F01

SEQUENCE FILE: SF01						
SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1 IBLK/10C-1-34-1	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
2 \$1-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
3 \$2-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
4 \$3-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
5 \$4-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
6 \$5-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
7 DCC1-1221/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
8 DCC1-1232/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
9 DCC1-1242/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
10 DCC1-1248/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
11 DCC1-1254/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
12 DCC1-TOX/10-1-33-1	PCB01	SF01-	1.0000	1.0000	1.0000	1.0000
13 CPE009SB	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
14 CPE009SL	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
15 CPE009SC	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
16 96E040-04T 20X	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
17 96E028-10M	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
18 96E028-10S	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
19 96E028-05	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
20 96E028-06	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
21 96E028-07	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
22 96E028-08	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
23 96E028-09	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
24 96E028-10	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
25 DCC1-1660/10-1-302	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
26 PEM01/10C-1-20-2	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
27 DCC1-HIXA/10-1-242	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
28 DCC1-MIXB/10-1-242	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
29 96E081-13T 5X	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
30 96E081-16T 10X	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
31 DCC2-MIXA/10-1-242	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
32 DCC2-MIXB/10-1-242	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
33 0003-1660/10-1-302	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
34 CPE013S8	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
35 CPE013SL	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
36 CPE013SC	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
37 96E065-01	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
38 96E065-01M	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
39 96E065-01S	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
40 96E065-02	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
41 96E065-03	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
42 96E065-04	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
43 96E065-05	166 0F 01	SF01-	1.0000	1.0000	1.0000	1.0000
44 96E065-06T 10X	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
45 DCC4-1660/10-1-302	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
46 96E065-07	166 0 F01	SF01-	1.0000	1.0000	1.0000	1.0000
17 0/50/5 00	4//0501	CEAL	4 0000	1 0000	4 0000	

SF01- 1.0000 1.0000 1.0000 1.0000

INITIAL CALIBRATION METHOD 8080

Lab Name : CKY Inc

Instrument ID : GC2
GC Columm : Rtx-35

Column size ID: .53mm

LFID & Datime: TE24-19 05-24-96 21:54:58 TE24-20 05-24-96 22:31:41 LFID & Datime: TE24-22 TE24-21 05-24-96 23:08:24 05-24-96 23:45:08 LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 05-25-96 00:58:31 LFID & Datime: TE24-25 05-25-96 01:35:14 TE24-26 05-25-96 02:11:59 LFID & Datime: TE24-27 05-25-96 02:48:44 TE24-28 05-25-96 03:25:29

CONC UNIT: ppb

	CONC	CA]	LIBRATIO	ON FACTO	ORS (A	REA/UNI	I)	
COMPOUND	X	1.0X	2.0X	4.0X	8.0X	16.0X	MEAN	%RSD
	=====	=====	=====	=====	=====	=====	=====	=====
alpha-BHC	5.0	17678	19650	20474	21133	20017		7
gamma-BHC	5.0	17612	19410	19738	19946	18668		5
beta-BHC	5.0	6739	7026	7777	7996	7731		7
Heptachlor	5.0	17693	17858		16941	15567	17057	5
delta-BHC	5.0	11589	12737	15058	16159	17006	14510	16
Aldrin	5.0	18045	17786	18681	17927	17282	17944	3
Heptachlor Epoxide	5.0	18274	17604	17968	16964	15962	17354	5
gamma-Chlordane	5.0	19619	18677	19081	18009	17106	18498	თ ი ი
`dosulfan I	5.0	17577	18227	17895	17535	16132	17474	5
.pha-Chlordane	5.0	19235	18309	18529	17349	16511		6
Dieldrin	10.0	17776	18460	17738	16977	15492		7
DDE	10.0	14637	14751	15728	15085	14358	14912	4
Endrin	10.0	14416	14847	14283	13564	12212	13865	7
Endosulfan II	10.0	16430		15357	13933	12725	14787	10
DDD	10.0	11133	12293	12243	12396	11543		5
Endrin Aldehyde	10.0	13641	12639	12850	11593	10611		10
DDT	10.0	12292		12681	12553	11430		= 5
Endosulfan Sulfate	10.0	15631		14697	13372	12260	14142	10 0
Endrin Ketone	10.0				14430	12971		14
Methoxychlor	50.0		5152	4729	4376	3878	4706	13
	=====	======	======	======	======	=====	======	=====
TCX	5.0	16170	15495	15351	14113	13031	14832	8
DCB	10.0	19012		-	13136	11773	15132	19

Instrument ID: GC2

GC Column: _

Rtx-35

Date of Initial Calib:

5/24/1996

Date of Cont. Calib:

5/31/1996

File Name:

TE31-3/4

				
COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	21.28	6.4
gamma-BHC	20	19075	21.14	5.7
beta-BHC	20	7454	22.70	13.5
Heptachlor	20	17057	20.40	2.0
delta-BHC	20	14510	21.23	6.2
Aldrin	20	17944	21.31	6.6
Heptachlor Epoxide	20	17354	20.78	3.9
gamma-Chlordane	20	18498	20.77	3.9
Endosulfan I	20	17474	20.04	0.2
alpha-Chlordane	20	17987	20.73	3.7
Dieldrin	40	17293	40.13	0.3
DDE	40	14912	44.49	11.2
Endrin	40	13865	39.58	1.1
Endosulfan II	40	14787	41.89	4.7
DDD	40	11923	42.62	6.6
Endrin Aldehyde	40	12267	41.52	3.8
DDT	40	12385	41.41	3.5
Endosulfan Sulfate	40	14142	41.25	3.1
Endrin Ketone	40	15832	41.60	4.0
Methoxychlor	200	4708	206.92	3.5

Instrument ID: GC2

GC Column: Rtx-35

Date of Initial Calib: 5/24/1996

Date of Cont. Calib: 5/31/1996

File Name: ____TE31-10/11

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.11	10.5
gamma-BHC	20	19075	19075 21.93	
beta-BHC	20	7454	21.22	6.1
Heptachlor	20	17057	21.97	9.8
delta-BHC	20	14510	22.95	14.7
Aldrin	20	17944	21.59	7.9
Heptachlor Epoxide	20	17354	21.03	5.2
gamma-Chlordane	20	18498	20.99	5.0
Endosulfan I	20	17474	20.48	2.4
alpha-Chlordane	20	17987	20.94	4.7
Dieldrin	40	17293	41.10	2.8
DDE	40	14912	44.94	12.3
Endrin	40	13865	42.10	5.3
Endosulfan II	40	14787	42.40	6.0
DDD	40	11923	44.46	11.2
Endrin Aldehyde	40	12267	42.36	5.9
DDT	40	12385	43.69	9.2
Endosulfan Sulfate	40	14142	41.96	4.9
Endrin Ketone	40	15832	42.42	6.1
Methoxychior	200	4708	226.86	13.4

Instrument ID: GC2

GC Column: Rtx-35

Date of Initial Calib: 5/24/1996

Date of Cont. Calib: 6/1/1996

File Name: ____TE31-24/25

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.26	11.3
gamma-BHC	20	19075	19075 22.22	
beta-BHC	20	7454	19.74	1.3
Heptachlor	20	17057	20.10	0.5
delta-BHC	20	14510	22.11	10.6
Aldrin	20	17944	21.81	9.0
Heptachlor Epoxide	20	17354	21.10	5.5
gamma-Chlordane	20	18498	21.32	6.6
Endosulfan I	20	17474	20.64	3.2
alpha-Chlordane	20	17987	21.21	6.0
Dieldrin	40	17293	41.51	3.8
DDE	40	14912	45.91	14.8
Endrin	40	13865	44.01	10.0
Endosulfan II	40	14787	42.91	7.3
DDD	40	11923	43.15	7.9
Endrin Aldehyde	40	12267	43.07	7.7
DDT	40	12385	45.57	13.9
Endosulfan Sulfate	40	14142	42.46	6.1
Endrin Ketone	40	15832	42.75	6.9
Methoxychlor	200	4708	228.62	14.3

Instrument ID: GC2

GC Column: Rtx-35

Date of Initial Calib: 5/24/1996

Date of Cont. Calib: 6/1/1996

File Name: TE31-36/37

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.65	13.3
gamma-BHC	20	19075	22.67	13.3
beta-BHC	20	7454	19.44	2.8
Heptachlor	20	17057	21.90	9.5
delta-BHC	20	14510	22.40	12.0
Aldrin	20	17944	21.80	9.0
Heptachlor Epoxide	20	17354	21.40	7.0
gamma-Chlordane	20	18498	21.42	7.1
Endosulfan I	20	17474	21.07	5.3
alpha-Chlordane	20	17987	21.32	6.6
Dieldrin	40	17293	42.30	5.8
DDE	40	14912	44.96	12.4
Endrin	40	13865	45.13	12.8
Endosulfan II	40	14787	43.39	8.5
DDD	40	11923	45.14	12.8
Endrin Aldehyde	40	12267	43.58	8.9
DDT	40	12385	44.53	11.3
Endosulfan Sulfate	40	14142	43.13	7.8
Endrin Ketone	40	15832	42.99	7.5
Methoxychlor	200	4708	228.77	14.4

Instrument ID: GC2

GC Column: Rtx-35

Date of Initial Calib: 5/24/1996

Date of Cont. Calib: 6/2/1996

File Name: TF01-27/28

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.54	12.7
gamma-BHC	20	19075	22.47	12.4
beta-BHC	20	7454	7454 21.90	
Heptachlor	20	17057	19.02	4.9
delta-BHC	20	14510	23.07	15.3
Aldrin	20	17944	21.36	6.8
Heptachlor Epoxide	20	17354	19.76	1.2
gamma-Chlordane	20	18498	20.80	4.0
Endosulfan I	20	17474	20.63	3.1
alpha-Chlordane	20	17987	20.61	3.0
Dieldrin	40	17293	41.70	4.2
DDE	40	14912	44.20	10.5
Endrin	40	13865	43.20	8.0
Endosulfan II	40	14787	40.41	1.0
DDD	40	11923	45.14	12.8
Endrin Aldehyde	40	12267	39.71	0.7
TOD	40	12385	42.71	6.8
Endosulfan Sulfate	40	14142	38.31	4.2
Endrin Ketone	40	15832	36.49	8.8
Methoxychlor	200	4708	228.73	14.4

instrument ID: GC2

GC Column: Rtx-35

Date of Initial Calib: 5/24/1996

Date of Cont. Calib: 6/2/1996

File Name: TF01-31/32

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.75	13.8
gamma-BHC	20	19075	22.55	12.8
beta-BHC	20	7454	22.64	13.2
Heptachlor	20	17057	21.79	8.9
delta-BHC	20	14510	22.78	13.9
Aldrin	20	17944	22.98	14.9
Heptachlor Epoxide	20	17354	21.78	8.9
gamma-Chlordane	20	18498	22.41	12.0
Endosulfan I	20	17474	21.64	8.2
alpha-Chlordane	20	17987	22.25	11.2
Dieldrin	40	17293	43.48	8.7
DDE	40	14912	45.24	13.1
Endrin	40	13865	45.26	13.1
Endosulfan II	40	14787	44.37	10.9
DDD	40	11923	44.63	11.6
Endrin Aldehyde	40	12267	44.62	11.6
DDT	40	12385	45.27	13.2
Endosulfan Sulfate	40	14142	43.34	8.3
Endrin Ketone	40	15832	41.10	2.8
Methoxychlor	200	4708	230.88	15.4

DDT/Endrin Breakdown

Instrument ID: G-C-2

	File: 5E 31-2	File: TE31-2
	Col: Rtx-5	Col: Pty -35
	%breakdown	%breakdown
DDT	0.4	٥
Endrin	7. 2	3.7

	File: 5E 31-23	File: TE 31-23
	Col: 2+x-5	coi: Rtx-35
	%breakdown	%breakdown
DDT	≥ 1.4	0.5
Endrin	3.0	1.2

	File:	SE 31-35	File:	TE 31-35
	Coi:	R+x-5	lCoi:	Rtx -35
		%breakdown		%breakdown
DDT		6-4	İ	6.7
Endrin		4.0		(.)

DDT/Endrin Breakdown

Instrument ID: GC-z

	File: 5F01-26	File: TF01-26
	Col: Ptx-5	Col: Rtx -36
	%breakdown	%breakdown
DDT	1.4	6.7
Endrin	8.1	2.5

	File:	File:
	Col:	Col:
	%breakdown	%breakdown
DDT		
Endrin		

	File:	File:
	Cal:	Col:
	%breakdown	%breskdown
DOT		
Endrin		

SEQUENCE FILE: SE31

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
	IBLK/10C-1-34-1	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
	PEN01/10C-1-20-2	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
3	DCC1-MIXA/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
4	DCC1-MIXB/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
5	CPE017SB	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
6	CPE017SL	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
7	96E082-01	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
8	96E082-01M	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
9	96E082-01S	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
10	DCC2-MIXA/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
11	DCC2-MIX8/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
12	96E081-01	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
13	96E081-02	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
14	96E081-03	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
15	96E081-04	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
16	96E081-05	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
17	96E081-06	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
18	96E081-07	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
19	96E081-08	PEST6	SE31-	1.0000	1.0000	- 1.0000	1.0000
20	96E081-09	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
21	96E081-09M	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
22	96E081-09S	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
23	PEM02/10-1-20-2	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
24	DCC2-MIXA/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
25	OCC2-MIXB/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
26	96E081-10	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
27	96E081-11	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
28	96E081-12	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
29	96E081-13	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
30	96E081-14	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
31	96E081-15	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
	96E081-16	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
33	96E081-17	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
34	96E081-18	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
35	PEM03/10C-1-20-2	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
36	DCC3-MIXA/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
37	DCC3-MIXB/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000

⁷⁰¹⁹⁻¹¹ Processed: 06-08-1996 10:16:12, Segment 20, Cycle 33

SEQUENCE ETLE: SEQ1

SEC	NUENCE FILE: SF01						
	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	IBLK/10C-1-34-1	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
2	\$1-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
3	\$2-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
4	\$3-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
5	54-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
6	\$5-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
7	DCC1-1221/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
8	DCC1-1232/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
9	DCC1-1242/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
10	DCC1-1248/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
11	DCC1-1254/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
12	DCC1-T0X/10-1-33-1	PCB01	SF01-	1.0000	1.0000	1.0000	1.0000
13	CPE009S8	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
14	CPE009SL	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
15	CPE009SC	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
16	96E040-04T 20X	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
17	96E028-10M	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
18	96E028-10S	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
19	96E028-05	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
20	96E028-06	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
21	96E028-07	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
22	96E028-08	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
23	96E028-09	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
24	96E028-10	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
25	0001-1660/10-1-302	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
26	PEH01/10C-1-20-2	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
27	DCC1-MIXA/10-1-242	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
28	DCC1-MIXB/10-1-242	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
29	96E081-13T 5X	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
30	96E081-16T 10X	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
31	DCC2-MIXA/10-1-242	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
32	DCC2-MIX8/10-1-242	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
33	DCC3-1660/10-1-302	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
34	CPE013SB	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
35	CPE013SL	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
36	CPE013SC	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
37	96E065-01	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
38	96E065-01M	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
39	96E065-01S	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
40	96E065-02	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
	96E065-03	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
	96E065-04	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
	96E065-05	166 0 F01	SF01-	1.0000	1.0000	1.0000	1.0000
	96E065-06T 10X	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
	DCC4-1660/10-1-302	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
	96E065-07	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
47	96E065-08	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000



C K Y incorporated Analytical Laboratories

Date: 06-05-1996 CKY Batch No.: 96F004

Attn: Ms. Missy Art

5335 Triangle Parkway Suite 450 Norcross, GA 30092

Subject:

Laboratory Report Project: 18319/CAMP LEJEUNE

Enclosed is the Laboratory report for samples received on 06/01/96. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include:

Sample ID	Control No.	Matrix	Analysis
CLJ100-CS-031 CLJ100-CS-032 CLJ100-CS-033 CLJ100-CS-034 CLJ100-CS-035 CLJ100-CS-036 CLJ100-CS-037 CLJ100-CS-040 CLJ100-CS-040 CLJ100-CS-040 CLJ100-CS-041 CLJ100-CS-042 CLJ100-CS-043 CLJ100-CS-043 CLJ100-CS-045 CLJ100-CS-045 CLJ100-CS-047 CLJ100-RB-531 CLJ100-FB-531	F004-01 F004-02 F004-03 F004-05 F004-06 F004-07 F004-10 F004-11 F004-11 F004-12 F004-13 F004-14 F004-15 F004-16 F004-17 F004-17 F004-18 F004-19 F004-20	Soil Soil Soil Soil Soil Soil Soil Soil	EPA 8080 EPA

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D. Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.



CHAIN-OF-CUSTODY RECORD

TRANSFER 2

Form 0019 **Field Technical Services**

Rev. 08/89 166577

96F004 D4 O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551. 419-423-3526 PROJECT NAME PROJECT LOCATION MP Lejeune ANALYSIS DESIRED PROJ. NO. (INDICATE NUMBER CONTAINERS 18319 SEPARATE CONTAINERS) CLIENT'S REPRESENTATIVE PROJECT MANAGER/SUPERVISOR Marshburn Jim Dunn SAMPLE NUMBER COMP SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) 7=200 DATE TIME REMARKS 1 C15/100-CS-031 Level C 1047 -804 2 (15100-CS-032) 3 15100 CS-033 1054 4 715100-05-034 1-801 5 CITIW-CS-035 / 6 115100.C5-036 1-800 Confination 7 25100-65-037 19/11/13 1-804 AUL 79.37 8 LIS100-CS-038 13/96 1117 -8 oz 1500-cs.039 17/9/11/22 10 CUTION-CS-040 174/6/11/25 1-802 **TRANSFERS TRANSFERS** Sandar Sout To CKY RELINQUISHED BY ACCEPTED BY DATE | TIME



CHAIN-OF-CUSTODY RECORD

) fransjer 2

Form 0019
Field Technical Services
Rev. 08/89

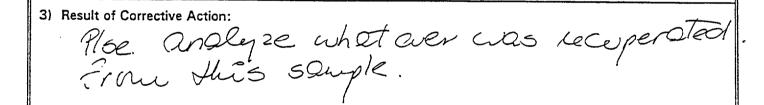
166578 96F004 nlf O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 · 419-423-3526 PROJECT NAME PROJECT LOCATION Lejeure MP Lejeune NC. **ANALYSIS DESIRED** (INDICATE PROJECT CONTACT NUMBER OF CONTAINERS SEPARATE /83/9 CLIENT'S REPRESENTATIVE しんけけ PROJECT MANAGER/SUPERVISOR

Jim Dun Alaw Wh. T. **CONTAINERS**) Marshburd VANA SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) COMP SAMPLE NUMBER 7-208 DATE TIME REMARKS Duplicate Confirmation From ADE 29-32 AGS Africa I Ro 11 1 11 100 -CS-040 DP 13 2 CETIOD-CS-041 -807 13 3 25100-65-042 1-800 -802 4 4 St5100-CS-043 731/5/ 15 25100-65-044 1 -802 16/15/100-05-045 - 8 we Mr. 1248 77 PLS100-C5-04/ 1-802 18/15/00-CS-047 -807 AUC 17:20 Buck 9 CISTOD-PB-531 1/31 110 15100 FB-531 TRANSFER NUMBER REMARKS Samples set to CKY Exc. ITEM TRANSFERS TRANSFERS NUMBER **RELINQUISHED BY** ACCEPTED BY DATE TIME EVEX6421491301

CORRECTIVE/ACTION/FORM (CKY/Sample/Receipt/Discrepancy)

Client	ОНН
CKY Batch No.	96 FOO4
Control No.	
Method	80 % - C.
Matrix	pri/

1)	Nature of Discrepancy:	_				
	Sample	96 F004-	6 >	bettle	was	peceived
	broken.					,,



Approved by: Carteilles Date:	6/3/86.
4) Further Corrective Action Taken? Yes	No Date:
	ples in this 500, except
96 FOOY-9-	(1) 0 0(5
Results (Verbal or wi	THEN) for 86 FOOY-1 greguli
Approved by: Olivitas Coles	1/01 1/4/4

CKY INC ANALYTICAL LARORATORIES (20)

jobin 1 0

LABORATORY REPORT FOR

OHM

18319/CAMP LEJEUNE

CHLORINATED PESTICIDES

SDG#: 96F004

JUNE 06, 1996

CASE NARRATIVE

CLIENT:

MHO

PROJECT:

18319/CAMP LEJEUNE

SDG:

96F004

CHLORINATED PESTICIDES

Eighteen (18) soil and two (2) water samples were received on 06/01/96 for Pesticide analysis in accordance with SW846. Sample F004-06 container was broken upon receiving but the sample was requested for analysis. Sample F004-09 was canceled.

I. Holding Time

All samples were extracted and analyzed within the holding time criteria.

II. Blank

Both soil and water method blanks were free of contamination.

III. Matrix Spike/Matrix Spike Duplicate

All recoveries and RPDs for soil matrix were within the QC limits. There was no MS/MSD for water matrix, LCS/LCSD were analyzed as precision QC samples.

IV. Lab Control Sample/Lab Control Duplicate

All results were within the control limits.

V. Surrogate Recovery

All surrogate recoveries were within the control limits.

VI. Instrument Performance and Calibration

An initial calibration was five-point and all RSDs were within the QC limits. Rtx35 was a quantitation column. All continue calibrations in the quantitation column were checked at 12 hour interval and all recoveries were within the QC limits. All DDT and Endrin breakdown were within QC limits.

VII. Sample Analysis

All sample analyses met QC requirements. All results were confirmed by the second column Rtx5.



SAMPLE RESULTS

LIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-031 CONTROL NO.: F004-01 MOISTURE: 8.8	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/01/96 RACTED: 06/04/96 LYZED: 06/04/96 SOIL
PARAMETERS	149. 1991. 1	RL (ug/kg)
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 99 94	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-032 CONTROL NO.: F004-02 % MOISTURE: 7.0	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/01/96 RACTED: 06/04/96 LYZED: 06/04/96 SOIL
PARAMETERS	RESULTS (ug/kg)	RL (ug/kg) 18.3 10.8 21.5 21.5 108 108 108 108 108 108 108 108 21.5 21.5 10.8 21.5 10.8 21.5 21.5 10.8 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 101 96	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-033 CONTROL NO.: F004-03 MOISTURE: 9.3	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/01/96 RACTED: 06/04/96 LYZED: 06/04/96 SOIL
PARAMETERS	S) U/k : 0 U/k	RL (ug/kg)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 105 101	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-034 CONTROL NO.: F004-04 MOISTURE: 6.6	DATE REG DATE EX DATE AN MATRIX:	LLECTED: 05/31/96 CEIVED: 06/01/96 TRACTED: 06/04/96 ALYZED: 06/04/96 SOIL N FACTOR: 1
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	RESULTS ULTS ULTS ULTS ULTS ULTS ULTS ULTS	RL (ug/kg)
Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 95 96	QC LIMIT 20-150 20-150

LIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-035 CONTROL NO.: F004-05 MOISTURE: 17.4	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/01/96 TRACTED: 06/04/96 LYZED: 06/04/96 SOIL
PARAMETERS	RESULT SOLUTION TO	RL (ug/kg) 20.6 12.1 24.2 30.3 20.6 121 121 121 121 24.2 20.6 242 24.2 121 12.1 24.2 24.2 12.1 24.2
URROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 95 89	QC LIMIT 20-150 20-150

CLIENT: OHM
PROJECT: 18319/CAMP LEJEUNE DATE RECEIVED: 06/01/96
BATCH NO: 96F004 DATE EXTRACTED: 06/04/96
SAMPLE ID: CLJ100-CS-036 DATE ANALYZED: 06/04/96 PROJECT: 18319/CI BATCH NO.: 96F004 SAMPLE ID: CLJ100-C CONTROL NO.: F004-06 % MOISTURE: 11.4 DATE EXTRACTED: DATE ANALYZED: MATRIX: SOIL DILUTION FACTOR: 1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene		19.2 11.3 22.6 28.2 19.13 11.3 11.3 11.3 22.6 19.2 22.6 22.6 11.3 11.3 22.6 11.3 22.6
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 98 98	QC LIMIT 20-150 20-150

RL:

Reporting Limit Was diluted at DF 10 and reanalyzed on 06/05/96 due to high concentration level.

LIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-037 CONTROL NO.: F004-07 MOISTURE: 12.3	INTAIL TV:	LLECTED: 05/31/96 CEIVED: 06/01/96 TRACTED: 06/04/96 ALYZED: 06/04/96 SOIL N FACTOR: 1
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene URROGATE PARAMETER	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg) 19.4 11.4 22.8 28.5 19.4 114 114 114 22.8 19.4 22.8 19.4 22.8 114 11.4 22.8 114 11.4
Tetrachloro-m-xylene Decachlorobiphenyl	93 91	20-150 20-150

LIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-038 CONTROL NO.: F004-08 MOISTURE: 6.3	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/01/96 RACTED: 06/04/96 LYZED: 06/04/96 SOIL
PARAMETERS	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg)
Tetrachloro-m-xylene Decachlorobiphenyl	100 95	20-150 20-150

CLIENT: PROJECT: BATCH NO.: SAMPLE ID: CONTROL NO.: % MOISTURE:	OHM 18319/CAMP LEJEUNE 96F004 CLJ100-CS-040 F004-10 15.8	DATE COLLI DATE RECE DATE EXTRA DATE ANALY MATRIX: DILUTION I	ACTED: 06/04/96 ZZED: 06/04/96 SOIL
		RESULTS	RL

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	ND ND ND ND ND ND ND ND 170 120 43 ND ND ND 170 120 43 ND ND ND ND ND ND ND ND ND ND ND ND ND	20.2 11.8 29.7 20.19 119 119 119 23.8 20.38 23.8 11.9 23.8 11.9 23.8 11.9 23.8 11.9 23.8 23.8 23.8
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 99 96	QC LIMIT 20-150 20-150

CLIENT: OHM	=======================================	=======================================
CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004	DATE COLL DATE RECE DATE EXTR DATE ANAL	ECTED: 05/31/96 IVED: 06/01/96 ACTED: 06/04/96
SAMPLE ID: CLJ100-CS-040DP CONTROL NO.: F004-11 % MOISTURE: 15.5	MATRIX:	SOIL
6 MOISTORE: 15.5	DILUTION	FACTOR: 1
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor Toxaphene	RESULTS (ug/kg)	RL (ug/kg) 20.1 11.8 23.7 29.6 20.1 118 118 118 23.7 20.1 23.7 20.1 23.7 23.7 23.7 23.7 23.7 23.7 23.7 23.7
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 97 90	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-041 CONTROL NO.: F004-12 % MOISTURE: 9.7	DATE RECE	RACTED: 06/04/96 LYZED: 06/04/96 SOIL
PARAMETERS	RESULTED TO THE SULTE TO THE SU	RL (ug/kg)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 99 96	QC LIMIT 20-150 20-150

LIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-042 CONTROL NO.: F004-13 MOISTURE: 8.3	DATE EXT DATE ANA MATRIX:	EIVED: 06/01/96 RACTED: 06/04/96
PARAMETERS	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg)
Tetrachloro-m-xylene Decachlorobiphenyl	97 93	20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-043 CONTROL NO.: F004-14 % MOISTURE: 12.2	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/01/96 RACTED: 06/04/96 LYZED: 06/04/96 SOIL
PARAMETERS	SON TEEN TEEN TEEN TEEN TEEN TEEN TEEN TE	RL (ug/kg)
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	99 98	20-150 20-150

CLIENT: OHM DATE COLLECTED: 05/31/96
PROJECT: 18319/CAMP LEJEUNE DATE RECEIVED: 06/01/96
BATCH NO.: 96F004 DATE EXTRACTED: 06/04/96
SAMPLE ID: CLJ100-CS-044 DATE ANALYZED: 06/05/96
CONTROL NO.: F004-15 MATRIX: SOIL
% MOISTURE: 6.4 DILUTION FACTOR: 1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor Toxaphene		18.2 10.7 21.4 26.7 18.2 107 107 107 21.4 18.2 214 21.4 107 10.7 214 534 1070 2140
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 95 97	QC LIMIT 20-150 20-150

CLIENT:	OHM	DATE COLLECTED:	05/31/96
PROJECT:	18319/CAMP LEJEUNE	DATE RECEIVED:	06/01/96
BATCH NO.:	96F004	DATE EXTRACTED:	06/04/96
SAMPLE ID: CONTROL NO.:	CLJ100-CS-045 F004-16	DATE ANALYZED: MATRIX:	06/05/96 SOIL
% MOISTURE:		DILUTION FACTOR:	2017
=======================================	· · · · · · · · · · · · · · · · · · ·	DIDOTION PACTOR.	

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor Toxaphene	- 	18.4 10.8 21.6 27.1 18.4 108 108 108 108 21.6 18.4 216 21.6 10.8 21.6 10.8 21.6
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 99 100	QC LIMIT 20-150 20-150



~=====================================	=======================================	
LIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-046 CONTROL NO.: F004-17 MOISTURE: 6.9	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/01/96 RACTED: 06/04/96 LYZED: 06/05/96
PARAMETERS	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg) 18.3 10.7 21.5 26.9 18.3 107 107 107 21.5 18.3 21.5 107 10.7 21.5 10.7 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5
	=========	

RL: Reporting Limit

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-CS-047 CONTROL NO.: F004-18 % MOISTURE: 10.3	MATRIX:	LLECTED: 05/31/96 CEIVED: 06/01/96 FRACTED: 06/04/96 ALYZED: 06/05/96 SOIL N FACTOR: 1
PARAMETERS	RESUNCTS USANT NEW NEW NEW NEW NEW NEW NEW NEW NEW NEW	RL (ug/kg) 19 11.1 22.3 27.9 19 111 111 111 22.3 29 223 21.1 11.1 22.3 11.1 22.3 11.1 22.3
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 96 . 96	QC LIMIT 20-150 20-150

EPA METHOD 8080 EPA METHOD 8080 PESTICIDES

CLIENT: OHM DATE COLLECTED: NA
PROJECT: 18319/CAMP LEJEUNE DATE RECEIVED: NA
BATCH NO.: 96F004 DATE EXTRACTED: 06/04/96
SAMPLE ID: MBLK1S DATE ANALYZED: 06/04/96
CONTROL NO.: CPF004SQ MATRIX: SOIL
% MOISTURE: NA DILUTION FACTOR: 1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	888888888888888888888888888888888888888	17 10 20 25 17 100 100 100 100 200 100 200 100 200 100 200 100 200 2
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 93 90	QC LIMIT 20-150 20-150

CKY QUALITY CONTROL DATA MS/MSD ANALYSIS

CL TENT:

OHM

7:

18319/CAMP LEJEUNE

MATRIX:

EPA 8080 SOIL

% MOISTURE:

NA

BATCH NO.: SAMPLE ID: 96F004

CLJ100-CS-041

CONTROL NO.: F004-12

DATE RECEIVED: 06/01/96 DATE EXTRACTED: 06/04/96

DATE ANALYZED: 06/05/96

ACCESSION:

96F004

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT
Aldrin	ND	167.00	187.00	112	167.00	195.00	117	4	20-170	50
alpha-Chlordane	ND	167.00	208.00	125	167.00	204.00	122	2	20-170	50
gamma-Chlordane	ND	167.00	179.00	107	167.00	189.00	113	5	20-170	50
4,41-DDD	ND	333.00	333.00	100	333.00	400.00	120	18	20-170	50
4,4'-DDT	ND	333.00	349.00	105	333.00	415.00	125	17	20-170	50
Dieldrin	ND	333.00	285.00	` 86	333.00	330.00	99	15	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT
Tetrachloro-m-xylene	400.00	383.00	96	400.00	416.00	104	28-137
Decachlorobiphenyl	667.00	619.00	93	667.00	659.00	99	51-153

CKY QUALITY CONTROL DATA LCS/LCD ANALYSIS

CLIENT:

OHM

۳:

18319/CAMP LEJEUNE

667.00

MATRIX:

EPA 8080 SOIL

% MOISTURE:

BATCH NO.: SAMPLE ID:

CONTROL NO.:

Decachlorobiphenyl

96F004 LCS1S/LCS1SD

CPF004SL/C

DATE RECEIVED: NA DATE EXTRACTED: 06/04/96

DATE ANALYZED: 06/04/96

608.00 91 667.00 612.00 92 51-153

ACCESSION:

96F004

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD %	QC LIMIT	RPD LIMIT
Aldrin	ND	167.00	177.00	106	167.00	178.00	107	1	47-116	<i>7</i> 5
alpha-Chlordane	ND	167.00	182.00	109	167.00	198.00	119	8	45-119	75
gamma-Chiordane	ND	167.00	174.00	104	167.00	176.00	105	1	45-119	75
4,4'-DDD	ND	333.00	364.00	109	333.00	360.00	108	1	48-136	<i>7</i> 5
4,41-DDT	ND	333.00	386.00	116	333.00	378.00	114	2	34-143	75
Dieldrin	ND	333.00	312.00	94	333.00	307.00	92	2	42-132	<i>7</i> 5

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	GC LIMIT %	
Tetrachloro-m-xylene	400.00	405.00	101	400.00	397.00	99	28-137	

LIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-RB-531 CONTROL NO.: F004-19 MOISTURE: NA	DATE COLL DATE RECE DATE EXTR DATE ANAL MATRIX: DILUTION	IVED: 06/01/96 ACTED: 06/04/96 YZED: 06/05/96 WATER
PARAMETERS	RESUDITS UD NESUDITS UD NESUDITS UD NESUDITS NES	RL (ug/L)
'URROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 104 50	QC LIMIT 30-150 24-154

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F004 SAMPLE ID: CLJ100-FB-531 CONTROL NO.: F004-20 % MOISTURE: NA	DATE COLI DATE RECE DATE EXTE DATE ANAI MATRIX: DILUTION	EIVED: 06/01/96 RACTED: 06/04/96 LYZED: 06/05/96 WATER
PARAMETERS	RESULTS USERSESSESSESSESSESSESSESSESSESSESSESSESS	RL (ug/L) .04 .035 .055 .054 .144 .0 .12 .044 .044 .044 .044 .0555 .055 .055
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 96 61	QC LIMIT 30-150 24-154

CLIENT: OHM PROJECT: 18319/CAMP LEJET BATCH NO.: 96F004 SAMPLE ID: MBLK1W CONTROL NO.: CPF003WB % MOISTURE: NA	DATE COLLECTED UNE DATE RECEIVED: DATE EXTRACTED DATE ANALYZED: MATRIX: DILUTION FACTO	NA : 06/04/96 06/05/96 WATER
PARAMETERS	RESULTS (U) ND ND ND ND ND ND ND ND ND ND ND ND ND N	RL (ug/L) .04 .035 .055 .055 .04 .14 .04 .02 .14 .04 .06 .055 .055 .055 .055
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	117	C LIMIT 30-150 24-154

CKY QUALITY CONTROL DATA LCS/LCD ANALYSIS

CLIENT:

OHM

18319/CAMP LEJEUNE

MATRIX:

EPA 8080 WATER

% MOISTURE:

BATCH NO.:

SAMPLE ID:

96F004 LCS1W/LCS1WD

DATE RECEIVED: NA
DATE EXTRACTED: 06/04/96

CONTROL NO.: CPF003WL/C

DATE ANALYZED: 06/05/96

ACCESSION:

96F004

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT	BSD RSLT (ug/L)	BSD % REC	RPD %	QC LIMIT	RPD LIMIT
Aldrin	ND	.50	.49	98	.50	.52	104	6	47-116	50
alpha-Chlordane	ND.	.50	.54	108	.50	.58	116	7	45-119	50
gamma-Chlordane	ND	.50	.50	100	.50	.53	106	6	45-119	50
4,4'-DDD	ND	1.00	1.09	109	1.00	1.13	113	4	48-136	50
4,41-DDT	ND	1.00	1.14	114	1.00	1.15	115	1	34-143	50
Dieldrin	ND	1.00	.98	98	1.00	1.01	101	3	42-132	50

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT
Tetrachloro-m-xylene	1.20	.92	77	1.20	1.01	84	23-141
Decachlorobiphenyl	2.00	1.70	85	2.00	1.75	88	32-195

CALIBRATION

INITIAL CALEBRATION METHOD 8080

Tob Name : CKY Inc .

;trument ID : GC2
GC Columm : Rtx-35
Column size ID: .53mm

LFID & Datime: TE24-19 05-24-96 21:54:58 TE24-20 05-24-95 22:31:41 LFID & Datime: TE24-21 05-24-96 23:08:24 TE24-22 05-24-96 23:45:08 LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 05-25-96 00:58:31 LFID & Datime: TE24-25 05-25-96 01:35:14 TE24-26 05-25-96 02:11:59 LFID & Datime: TE24-27 05-25-96 02:48:44 TE24-28 05-25-96 03:25:29

CONC UNIT: ppb

	CONC			ON FACTO	ORS (A	REA/UNI	[])	
COMPOUND	X	1.0X	2.0X	4.0X	8.0X	16.0X	MEAN	%RSD
alpha-BHC	5.0	17678	19650	20474	21133	20017	19791	7
gamma-BHC	5.0	17612	19410			18668		5
beta-BHC	5.0	6739	7025	7777	7996	7731		7
Heptachlor	5.0	17693	17858	17225		15567		5
delta-BHC	5.0	11589	12737	15058	16159	1700€		16
Aldrin	5.0	18045	17786	18681	17927	17282		3
Heptachlor Epoxide	5.0	18274	17604	17968	16964	15962		5
gamma-Chlordane	5.0	19619	18677	19081	18009	17106	18498	5 5 5
Endosulfan I	5.0	17577	18227	17895	17535	16138		5
alpha-Chlordane	5.0	19235	18309	18529	17349	16511		6
nieldrin	10.0	17776		17738	16977	15492	17293	7
)E	10.0	14637	14751	15728	15085	14358	14912	4
_ndrin	10.0	14416			13564	12212	13865	7
Endosulfan II	10.0	16430	15492	15357	13933	12725	14787	10
DDD	10.0	11133		12243	12396	11543	11923	5
Endrin Aldehyde	10.0	13641	12639	12850	11593	10611	12267	10
DDT	10.0	12292	12971		12553	11430	12385	5
Endosulfan Sulfate	10.0	15631	14752	14697	13372	12260	14142	10 01
Endrin Ketone	10.0	18397	17044		14430	12971	15832	14
Methoxychlor	50.0	5407	5152	4729	4376	3878	4708	13
TCX	5.0	16170	15495	15351	14113	13031	14632	8
DCB	10.0	19012		15132	13136	11773	14632	19

INITIAL CALIBRATION METHOD 8080

Jab Name : CKY Inctrument ID : GC2

trument ID : GC2 Column : Rtx-5 Column size ID: .53mm

LFID & Datime: SE24-19 05-24-96 21:54:58 SE24-20 05-24-96 22:31:41 LFID & Datime: SE24-21 05-24-96 23:08:24 SE24-22 05-24-96 23:45:08 LFID & Datime: SE24-23 05-25-96 00:21:50 SE24-24 05-25-96 00:58:31 LFID & Datime: SE24-25 05-25-96 01:35:14 SE24-26 05-25-96 02:11:59 LFID & Datime: SE24-27 05-25-96 02:48:44 SE24-28 05-25-96 03:25:29

CONC UNIT: ppb

	CONC	CAI	LIBRATIO	ON FACTO	DRS (A	REA/UNIT	[]	
COMPOUND	X	1.0X	2.0X	4.0X	8.0X	16.0X	MEAN	%RSD
	=====	=====	=====	=====	=====	=====	=====	=====
alpha-BHC	5.0	41177	40213	36602	35330	37833	38231	6
gamma-BHC	5.0	39466	38125	34581	33179	32912	35653	8
beta-BHC	5.0	12873	12269	12313	11812	10785	12010	7
Heptachlor	5.0	38017	35794	31986	29595	27129	32504	14
delta-BHC	5.0	31204	29740	30810	28493	26524	29354	6
Aldrin	5.0	41336	36959	35395	31574	29036	34860	14
Heptachlor Epoxide	5.0	38270	34034	32210	28418	24971	31580	16
gamma-Chlordane	5.0	40880	36679	35288	31884	29581	34862	13
Endosulfan I	5.0	38762	36592	32704	30001	25870	32786	16
alpha-Chlordane	5.0	38568	34592	32931	29464	27174	32546	14
Dieldrin	10.0	37937	34760	30380	27539	25473	31218	16
E	10.0	34211	31061	29800	26624	26983	29740	11
udrin	10.0	28592	25967	22718	20193	17321	22962	20
Endosulfan II	10.0	30975	27043	24766	21386	19291	24692	19
DDD	10.0	25089	24939	23337	22215	20797	23275	8
Endrin Aldehyde	10.0	22346	19674	19022	16709	14831	18516	16
DDT	10.0	25517	24813		21951	21627	23402	7
Endosulfan Sulfate	10.0	27102	24039	22216	19235	17221	21963	18
Endrin Ketone	10.0	26944	23503	21553	18352	16370	21345	20
Methoxychlor	50.0	8087	7174	6044	5125	4086	6103	26
	======	=====	=====	=====	=====	=====	=====	=====
TCX	5.0	25345	23077	i .	19641	18204		13
DCB	10.0	20292	18060	17138	15647	15126	17253	12

CONTINUE CALIBRATION METHOD 8080

Name : CKY Inc

Instrument ID : GC2
GC Columm : Rtx-5
Column size ID : 0.53mm

Mid Con Init LFID & Datime: SE24-23 05-25-96 00:21:50 SE24-24 0 Mid Con Cont LFID & Datime: SF04-3 06-04-96 12:01:37 SF04-4 0

CONC UNIT : ppb

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0		22.0	10
gamma-BHC	20.0	1		
beta-BHC	20.0	1		
Heptachlor	20.0		23.5	
delta-BHC	20.0		37.0	
Aldrin	20.0	34860	32.0	
Heptachlor Epoxide	20.0	31580	30.9	
gamma-Chlordane	20.0	34862	31.2	
Endosulfan I	20.0	32786	21.4	
alpha-Chlordane	20.0	32546	31.4	57
Dieldrin	40.0	31218	41.3	
DDE	40.0		63.4	59
Endrin	40.0		53.2	33
dosulfan II	40.0		59.5	49
	40.0		39.9	0
Endrin Aldehyde	40.0		59.9	50
DDT	40.0		39.4	2
Endosulfan Sulfate	40.0		57.3	43
Endrin Ketone	40.0		59.8	49
Methoxychlor	200.0		253.8	27
TCX	20.0			======
DCB	40.0	17253	34.4 61.0	
505	40.0	1/200	61.0	52

25C

CONTINUE CALIBRATION METHOD 8080

L Name : CKY Inc Instrument ID : GC2

GC Column : Rtx-35 Column size ID : 0.53mm

Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0 Mid Con Cont LFID & Datime: TF04-3 06-04-96 12:01:37 TF04-4 0

CONC UNIT : ppb

	CONC	AVERAGE	RESULT	_
COMPOUND	4.0X	CF	CONC	%RSD
	======	======		=====
alpha-BHC	20.0			1
gamma-BHC	20.0	1		3
beta-BHC	20.0	}		7
Heptachlor	20.0			
delta-BHC	20.0)		
Aldrin	20.0			
Heptachlor Epoxide	20.0			9
gamma-Chlordane	20.0			_
Endosulfan I	20.0			
alpha-Chlordane	20.0			
Dieldrin	40.0			
DDE	40.0	•		0
Endrin	40.0	13865		
'osulfan II	40.0			7
	40.0	11923	39.2	2
Endrin Aldehyde	40.0	12267		7
DDT	40.0	12385	39.1	2
Endosulfan Sulfate	40.0	14142	36.4	
Endrin Ketone	40.0	15832	36.5	
Methoxychlor	200.0	4708	221.7	11
	======	======		=====
TCX	20.0	14832		
DCB	40.0	15132	35.4	11

25 D

CONTINUE CALIBRATION METHOD 8080

Lau Name CKY Inc Instrument ID GC2

GC Columm Rtx-5 Column size ID .53mm

Mid Con Init LFID & Datime: SE24-23 05-25-96 00:21:50 SE24-24 0 Mid Con Cont LFID & Datime: SF04-22 06-04-96 23:48:37 SF04-23 0

CONC UNIT : ppb

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT	%.Dan
COMPOUND	4.07	Cr	CONC	%RSD
alpha-BHC	20.0		29.3	46
gamma-BHC	20.0			
beta-BHC	20.0		33.9	
Heptachlor	20.0		31.9	
delta-BHC	20.0		34.2	
Aldrin	20.0		30.9	
Heptachlor Epoxide	20.0	31580	30.2	
gamma-Chlordane	20.0		30.9	
Endosulfan I	20.0	32786	29.4	
alpha-Chlordane	20.0	32546	31.4	
Dieldrin	40.0	31218	57.3	
DDE	40.0	29740	62.4	56
P-3rin_	40.0	22962	61.6	54
sulfan II	40.0	24692	59.5	49
מיק	40.0		62.0	55
Endrin Aldehyde	40.0	18516	59.4	48
DDT	40.0	23402	61.6	54
Endosulfan Sulfate	40.0	21963	58.1	45
Endrin Ketone	40.0	21345	59.9	50
Methoxychlor	200.0	6103	323.1	62
TCX	20.0		30.0	=====
DCB	40.0	17253		
DCB	40.0	1/253	52.4	31

CONTINUE CALIBRATION METHOD 8080

I Name : CKY Inc

Inscrument ID : GC2

GC Column Rtx-35 Column size ID .53mm

Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0 Mid Con Cont LFID & Datime: TF04-22 06-04-96 23:48:37 TF04-23 0

CONC UNIT : ppb

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
COMPOUND	4.07	ſ	CONC	~KSD
alpha-BHC	20.0		21.6	8
gamma-BHC	20.0		l .	
beta-BHC	20.0	7454	21.7	
Heptachlor	20.0	. 17057	22.4	12
delta-BHC	20.0	14510	22.1	11
Aldrin	20.0	17944	20.5	2
Heptachlor Epoxide	20.0	17354	19.9	
gamma-Chlordane	20.0	18498	20.0	0
Endosulfan I	20.0	17474	19.7	1
alpha-Chlordane	20.0	17987	20.0	0 2
Dieldrin	40.0	17293	39.2	2
DDE	40.0	14912	42.7	7
Endrin	40.0	13865	42.4	6 1
Frdosulfan II	40.0		39.5	1
	40.0		43.2	
Lrin Aldehyde	40.0	12267	39.8	0
DDT	40.0		43.8	
Endosulfan Sulfate	40.0		38.7	
Endrin Ketone	40.0		39.1	
Methoxychlor	200.0	}	228.0	14
TCX	20.0)	20.9	5
DCB	40.0	15132	37.3	

CONTINUE CALIBRATION METHOD 8080

Name : CKY Inc
Instrument ID : GC2
GC Columm : Rtx-5
Column size ID : .53mm

Mid Con Init LFID & Datime: SE24-23 05-25-96 00:21:50 SE24-24 0 Mid Con Cont LFID & Datime: SF04-41 06-05-96 11:27:08 SF04-42 0

CONC UNIT : ppb

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0	38231	31.3	56
gamma-BHC	20.0			
beta-BHC	20.0			
Heptachlor	20.0	32504		
delta-BHC	20.0	29354	34.0	
Aldrin	20.0	34860		
Heptachlor Epoxide	20.0	31580		
gamma-Chlordane	20.0	34862		
Endosulfan I	20.0	32786	30.7	53
alpha-Chlordane	20.0	32546		
Dieldrin	40.0	31218	59.4	
DDE	40.0	29740	61.5	
Endrin	40.0	22962	73.1	83
Todosulfan II	40.0	24692	58.6	46
	40.0	23275	63.3	58
Ldrin Aldehyde	40.0	18516	57.7	44
DDT	40.0	23402	63.2	58
Endosulfan Sulfate	40.0	21963	56.8	42
Endrin Ketone	40.0		58.8	47
Methoxychlor	200.0	6103	331.4	66
TCX	20.0	21737	31.3	56
DCB	40.0			57
	.			

25G

CONTINUE CALIBRATION METHOD 8080

I Name : CKY Inc

Inscrument ID : GC2
GC Columm : Rtx-35
Column size ID : .53mm

Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0 Mid Con Cont LFID & Datime: TF04-41 06-05-96 11:27:08 TF04-42 0

CONC UNIT : ppb

	CONC	AVERAGE	RESULT	
COMPOUND	4.0X	CF	CONC	%RSD
	=====	======		=====
alpha-BHC	20.0	19791	21.4	7
gamma-BHC	20.0	19075	21.2	6
beta-BHC	20.0	7454	21.4	7
Heptachlor	20.0	17057	21.0	5
delta-BHC	20.0	14510	21.6	5 8 3 7
Aldrin	20.0	17944	19.4	3
Heptachlor Epoxide	20.0	17354	18.6	
gamma-Chlordane	20.0	18498	18.8	6
Endosulfan I	20.0	17474	22.8	14
alpha-Chlordane	20.0	17987	18.9	
Dieldrin	40.0	17293	39.1	2
DDE	40.0	14912	40.3	1
Endrin	40.0	13865	42.0	1 5 7
F dosulfan II	40.0	14787	37.2	7
	40.0	11923	42.3	6
Lidrin Aldehyde	40.0	12267	37.3	
DDT	40.0	12385	41.4	
Endosulfan Sulfate	40.0	14142	36.6	
Endrin Ketone	40.0	15832	36.8	8
Methoxychlor	200.0	4708	211.2	6
	=====			=====
TCX	20.0	14832	19.9	0
DCB	40.0	15132	35.7	11
		<u></u>		

25H

DDT/Endrin Breakdown

Instrument ID: GC-2

	File: 5 F 0 4 - z	File: <i>TFc4-2</i>
	Col: RX-5	Col: Rtx -35
	%breakdown	%breakdown
DDT	0.4	0
Endrin	2./	1.2

	File: 5F04-21	File: TF04-21
	Col: Rtx-5	Col: Rtx-35
	%breakdown	%breakdown
DDT	1.8	e
Endrin	0.9	C

	File: 5 = 64 - 40	File: TF04-40
• .	Col: Rtx-5	Col: Rtx -35
	%breakdown	%breakdown
DDT	1.3	E
Endrin	2.1	0

ANALYSIS SEQUENCE AND EXTRACTION LOG
,

CKY Analytical Laboratories Sample Preparation Department

A SHAMMAN

EXTRACTION LOG FOR PESTICIDES/PCBs

CKYT-E01-002 92 OHM 60 8⁰ PAGE # **MBTHOD** CLIENT DATE EXTRACTED 6/02/96.16:00 DATE COMPLETED 6/03/96 WATER MATRIX CLEAN-UP CODE EXTRACT LAB SAMPLE CLBAN-UP GPC VOLUME NOTES SAMPLE AMOUNT pН (G/S/A/F) (g/ml) (ml) TBA JD. CDF003 - WB 1000 10 ACID W)_ FLORISIL NC E080 -REAGENT LOT# 954496 Na2SO4 W 954496 36082 CH2CL2 962303 HEXANE AMOUNT ADDED (ml) STANDARDS ID 5106-01-22-62 .0 SPIKE ID (1.1 SURROGATE ID SIOC-1-23-レ EXTRACT LOCATION SDG# ac- Plac2 COMMENTS: PREPARED BY: STD's ADDED BY: N CHECKED BY: Extracts Received By:

CKY Analytical Laboratories Sample Preparation Department EXTRACTION LOG FOR PESTICIDES/PCBs

CKYT-E01-002

client 0HN matrix S	1			_	METHOD	6080	PAGE#	96
MATRIX S	101L				DATE EXTRACTED	4/03/96	DATE COMPLETED	06/04/96
LAB	SAMPLE		EXTRACT			CLEAN-UP	C	ODE
SAMPLE	AMOUNT	pH	VOLUMB.	CLBAN-UP	NOTES	GPC		G
ID TO	(g/ml)		(ml)	(G/\$/A/F)		TBA	<u> </u>	S
OFF004 - 50	 	 	10	 		ACID		Λ
<u> </u>			 	<u> </u>		FLORISIL		P
57_						[
1004-01	3.0					REAGENT		OT#
02						Na2SO4	954490	, p
03						CH2CL2	36082	
04						HEXANE	954490 36082 962303	
05								
06								
07						STANDARDS	ID A	MOUNT ADDED (mi)
08						SPIKE ID MIX A	5100-01-0-34-02	0.40
10						SURROGATE ID	5100-01-0-35-02	2.0
							SICC-01-0-31-91	
. 12								
12 M						SDG #	EXTRACT	LOCATION
125							EXTRACT GC-RI-MOL- 1	0 CB
13						COMMENTS:		
14						***************************************	time starte	d: 17:00 led: 10:30
15							time complet	led: 10:30
16						No. 25 (24 (24 (24 (24 (24 (24 (24 (24 (24 (24		
(7	<u> </u>					PREPARED BY:	$\underline{\hspace{1cm}}$ MO/n	N/FY
18	4		<u> </u>			STD's ADDED BY:	$\underline{\hspace{1cm}}$ mo $\frac{1}{2}$ m	N
						CHECKED BY:		
					4	Extracts Received B	у:	



CKY incorporated Analytical Laboratories

Date: 06-08-1996

CKY Batch No.: 96F009

Attn: Ms. Missy Art

5335 Triangle Parkway Suite 450 Norcross, GA 30092

Subject:

Laboratory Report Project: 18319/CAMP LEJEUNE

Enclosed is the Laboratory report for samples received on 06/04/96. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include :

Sample ID	Control No.	Matrix	Analysis
CLJ100-CS-048 CLJ100-CS-049 CLJ100-CS-050 CLJ100-CS-051 CLJ100-CS-052 CLJ100-CS-053 CLJ100-CS-054 CLJ100-CS-055 CLJ100-CS-056 CLJ100-CS-057 CLJ100-CS-058 CLJ100-CS-059 CLJ100-CS-060 CLJ100-CS-060 CLJ100-CS-061 CLJ100-CS-061 CLJ100-CS-061	F009-04 F009-05 F009-06 F009-06 F009-07 F009-08 F009-09-11 F009-11 F009-12 F009-13 F009-15 F009-15 F009-17	Soil Soil Soil Soil Soil Soil Soil Soil	EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080
CLJ100-CS-063	F009-18	Soil	EPA 8080

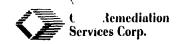
The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D. Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.



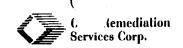
CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

96 FC 09

113

O.H. N	MATERIALS	CORP), •	1	P.C	D. BOX 551	•	FINDLAY, OH 45839-055	•	4	19-	9-423-3526
PROJ. NO. / CLIENT'S R	CMID PROJEC	CT CONT	jeun Alan Mars	<u> </u>		1/2 H	anp PROJ	Lajeune, NC ECTTELEPHONE NO. 10) 451-2599 UPERVISOR / Alaw Whitt	NUMBER OF CONTAINERS	- 1 a	NDIC EPAF	ALYSIS DESIRED ICATE ARATE ITAINERS)
ITEM NO.	SAMPLE IUMBER	DATE	TIME	COMP	GRAB		SAMPLI (INCLUI POIN	E DESCRIPTION DE MATRIX AND T OF SAMPLE)	ō		AS	REMARKS
1 :1510	१८८-०५४	5/A6	1832		X	Confirma AOC	17 -	20 Sidewall	1-80			NEESA Leve C.
2 (1510	o-CS-049	1/26	J835		X	ADC.	17 -		1-80	7		
3 150	- c s-o50	1/16	2839		X	Const. p	17.2	O Sile Lull	1-80	7	$\langle $	
4 CL5/00	-C5-LEOOP	6/1/16	p839		X	Duplicate	AO	ofirmation Somple	1-80	ر ج	$\langle $	
5 75/0	r-CS-051	1/2	D843		X	Confir	17 - 2.	U Silvuall	1-80	7	\langle	
6 36570	xu- 65-052	In fac	0845		X	LONG	17-	ion Somple From 20 5 Tewall	1-80)7		
7 050	o-C5-c53	1/6	78 58		X	Confic AOC	17.	20 Sidewall	1-8,	, ? X		
8 750	o- 6 5-054	4/11.	1853		X	Confirm Acc.	17 .	v Simple from	1-8	,7)	$\langle $	
9 751a	s-65-655	4/1/11	1856		χ	Confie AUC	17	-20 Sidewell	1-8	ر ۽ ر		
10 76510	0.55 056	7.790	1907	,	X	Confid	1-12		1-8	,,)		
TRANSFER	ITEM NUMBER		F		ANSF QUIS	ERS HED BY		TRANSFERS ACCEPTED BY	DATE	TIMI		Samples Sent To CKY INC. 48 hour TAT. Please fax results
1	1-10)	(lo	301	J	An	FE	EX 692149131Z	13/16			
2							10%	& Calel	1/91	10:1	2	To (910) 451-1809. Thanks
3							11		1 "			Hold Samples untill we contact you.
4	1							(8	SAMPLER'S SIGNATURE (MOL) R. REAL



CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

96 F co7 H3

1	IATERIALS	CORP	. •		P.C	D. BOX 551	•	FINDLAY, OH 45839-055	1 •	4	419-423-3526
PROJ. NO. 1831' CLIENT'S R	PROJECT	T CONTA	eune lau irslib	ι	Nh.	,'++ PROJECT MAI	PRO.	Lejewe, N.C. JECT TELEPHONE NO. JO 1151-2599 UPERVISOR /Ala whith	NUMBER OF CONTAINERS	an	ANALYSIS DESIRED (AD) INDICATE SEPARATE CONTAINERS)
ITEM NO.	AMPLE IUMBER	DATE	TIME	COMP	GRAB		SAMPL (INCLU POIN	E DESCRIPTION DE MATRIX AND T OF SAMPLE)	l p		T: 2 C TY REMARKS
1 C15/10	0-65-057	1/1/46	910		X	CONFIRM		5. De uni	1-8	67	NESSA Level C.
2 C15/10	5-05-05 8	1/46	0913		X	CONFINA ADC 1		5, le vall	1-8.) - -	
3 (156)-C5-059	Yhu	2917		X	CONFILA	17.	Sidewall	1-8		
4 :1510	25.060	1/91	0920		X	Confir	1-12	Sidenall	1-8) 	
5 :5/0	LS -clupp	1/16	0920		X	From ADO	1-12		1-6	IZ	
6 CLTICA	·cs-061	1/16	1923		X	Aoc	1-12	Base from	1-8	4	
7 CUTI	as-cs-ol2	ne	0925		X	Aoc .	-1-12.		1-8	ve)	
8 75500	-cs-ol.3	1/1/96	0927		X	CONTIC		'22 Sample From	1-8	02	
9 26510	o-re-601	1/46	0932		X	<i>j-</i> / c	2/2	Blask	1-1	1	X Do NOT ANalyze
10 CLT10	o-FB-601	1/46	0937		X	K.L	, 5at	e Rlank	1-1	L)	X Do Not Analyze
TRANSFER	ITEM NUMBER		í			FERS SHED BY		TRANSFERS ACCEPTED BY	DATE	TIME	1 300 0 300
1	1-10		Pireo	1, 1	R,	Ara	I-EL	EX 6921491312	13/46		48 hour TAT. Please Fax results
2							1/ -	Secret	6/4/16	10:0 A1	To (910) 451-1809, Thanks
3							6				Donot rus untill we contact you.
4											SAMPLER'S SIGNATURE

ANALYSIS REQUEST FORM (Additional)

CLIENT NAME: OHM- Camp Le jeun! CKY Control No.: 96 FOO9				
CLIENT NAME: UMM	• • •	 •	• •	•
CKY Control No.:	• • •	 . •		•
Date Requested: . 6/.5/96	• • •	 		•
Requested by:	• •	 · •		•

CKY Control No.	Analysis Requested	Comments
	Hnalyze all Pauxles!	
	Pauxler!	
	/	
·		

all it is



			OVIAII FF LIF				
CONTROL NO.	96F0 09	7				DATE	06-04 -96
CLIENT	OHM				•	TIME	10: OVAM
PROJECT	CAMPLEJEUN	ष				RECIPIENT	I. PATEL
SAMPLE TRANSPOR	TATION TO CKY LABO	RATORY:	BY	ON(DATE)	AT(TIME)	FROM(SITE/CO.)	COMMENTS
PICKED-UP BY CKY	COURIER						
DELIVERED BY CLIE	NT V						
		1:692149131	2 SEE AIR	BILL			
SAMPLE BATCH PAC	KAGING/SEALING UP	ON RECEIPT:	INTACT	DAMAGED	SEALED	NOT SEALED	NO CONTAINER
CONTAINER:	11	ISIDE TEMPERATURE:	2° C	CUSTODY SEAL		LOCATION	NUMBER
COOLER	PACKAGING	TYPE	SUFFICIENCY	INTACT	DAMAGED	FRANTCIUSUPE	2
BOX	INSULATION:		Ole	NAME:	SEE COL		
OTHER:	ICE/COOLANT:	REGULAR		DATE:			
	PACKING MATERIAL:	BUBBLEPHE	4	TIME:			
SAMPLE DOCUMENT	ATION/CHAIN-OF-C	USTODY(COC)	SEALED	ENCLOSED	HANDCARRIED	FAXED	MAILED
SAMPLE LOG-IN:		CRITERIA		COMMENTS		DISCREPA	NCY ,
SAMPLE CUSTODY S	EAL	EVERY SAMPLE	NONE				
CONTAINER TYPE/M/	ATERIAL	APPROPRIATE	Ole				
SAMPLE AMOUNT		ENOUGH					
SAMPLE PRESERVAT	ION/HOLDING TIME	SUFFICIENT					
HEADSPACE/BUBBLE	S	ZERO/NONE	7				
SAMPLE LABEL INFO	RMATION	SUFFICIENT					
CHAIN-OF-CUSTO	OY INFORMATION	SUFFICIENT	SEE BELOW				
SAMPLE INFO.:	SAMPLE ID	DATE	TIME	SIGNATURE	ANALYSES	PRESERVATIVE	CONTAINER
INDIVIDUAL SAMPLE	CONTAINER:	NONE	SEALED PLASTIC	BAG	CAN	OTHER(SPECIFY)	
SAMPLE NUMBER	CLIENT ID		DISCREPANCY			ACTION	
-20	CLJ107-FB-601		LIS CLJIOU-R	B-601	should b	ACTION 26 KB	TW
		DATE & TI	ME IS OR		1. +		/
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CLIENT SERVICES CO	HA HECEINED BA		ulu	DATE		TIME	1

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18319					<u> </u>	Address	State	ZIP Rec	uired
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Cargo Aircraft only	12 HOLIDAY DELIVE	ERY (If offered)	2 🗆	On-Call Stop	4□B.S.C. 5□ Station				
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I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked, and labeled, and are in all respects in the proper condition for transport by air according to the applicable International and National Governmental Regulations.

Place and bale Signature
Signature
(see warning spove)

Emergency Telephone Number (Required for US Origin or Destination Shipments)

IF ACCEPTABLE FOR PASSENGER AIRCRAFT, THIS SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN, OR INCIDENT TO, RESEARCH, MEDICAL DIAGNOSIS, OR TREATMENT.

LABORATORY REPORT FOR

OHM

18319/CAMP LEJEUNE

CHLORINATED PESTICIDES

SDG#: 96F009

JUNE 08, 1996

CASE NARRATIVE

CLIENT:

OHM

PROJECT:

18319/CAMP LEJEUNE

SDG:

96F009

CHLORINATED PESTICIDES

Eighteen (18) soil samples were received on 06/04/96 for Pesticide analysis in accordance with SW846.

Holding Time 1.

All samples were extracted and analyzed within the holding time criteria.

11. Blank

A method blank was free of contamination.

III. Matrix Spike/Matrix Spike Duplicate

All recoveries and RPDs were within the QC limits.

IV. Lab Control Sample

All results were within the control limits.

٧. Surrogate Recovery

All surrogate recoveries were within the control limits.

VI. Instrument Performance and Calibration

An initial calibration was five-point and all RSDs were within the QC limits in a quantitation column. Rtx35 was used as the quantitation column. All continue calibrations were checked at 12 hour interval and all recoveries in the quantitation were within the QC limits. All DDT and Endrin breakdown were within QC limits.

VII. Sample Analysis

All sample analyses met the project specific QC requirements. All results were confirmed by the second column Rtx5.

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS-048 CONTROL NO.: F009-01 MOISTURE: 14.3	DATE RE DATE EX' DATE AN MATRIX:	LLECTED: 06/01/96 CEIVED: 06/04/96 TRACTED: 06/05/96 ALYZED: 06/06/96 SOIL N FACTOR: 1
PARAMETERS	REU SU/ SU/ SU/ SU/ SU/ SU/ SU/ SU/ SU/ SU	RL (ug/kg) 19.8 11.7 23.3 29.8 11.7 11.7 11.7 23.3 19.8 23.3 11.7 23.3 11.7 23.3 23.3 23.3 23.3 23.3
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 100 88	QC LIMIT 20-150 20-150

CLIENT: PROJECT: BATCH NO.: SAMPLE ID: CONTROL NO.: % MOISTURE:	OHM 18319/CAMP LEJEUNE 96F009 CLJ100-CS-049 F009-02 13.3	DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: MATRIX: DILUTION FACTOR:	06/01/96 06/04/96 06/05/96 06/06/96 SOIL
		RESIII.TS	DT

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	888888888888888888888888888888888888888	19.6 123.8 19.15 115 115 1115 1123.15 112377 123 12317 12377 12317 12317
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	96 93	20-150 20-150

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CLIENT:	OHM	DATE COLLECTED:	06/01/96
PROJECT:	18319/CAMP LEJEUNE	DATE RECEIVED:	06/04/96
BATCH NO.:	96F009	DATE EXTRACTED:	06/05/96
SAMPLE ID:	CLJ100-CS-050	DATE ANALYZED:	06/06/96
CONTROL NO.:	F009-03	MATRIX:	SOIL
% MOISTURE:	6.8	DILUTION FACTOR:	1

PARAMETERS	RESULTS (u) - ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 94 93	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS050DP CONTROL NO.: F009-04 MOISTURE: 17.9	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	TEIVED: 06/04/96 TRACTED: 06/05/96 ALYZED: 06/06/96 SOIL
PARAMETERS	RESULT SOLUTION TO	RL (ug/kg) 20.7 12.2 24.4 30.5 20.7 122 122 122 122 122 122 122 122 24.4 20.7 24.4 21.2 12.2 12.2 24.4 20.7 24.4
GURROGATE PARAMETER	% RECOVERY	QC LIMIT
<pre>fetrachloro-m-xylene Decachlorobiphenyl</pre>	76 76	20-150 20-150

RL: Reporting Limit

CLIENT: OHM DATE COLLECTED: 06/01/96
PROJECT: 18319/CAMP LEJEUNE DATE RECEIVED: 06/04/96
BATCH NO.: 96F009 DATE EXTRACTED: 06/05/96
SAMPLE ID: CLJ100-CS-051 DATE ANALYZED: 06/06/96
CONTROL NO.: F009-05 MATRIX: SOIL
% MOISTURE: 14.2 DILUTION FACTOR: 1

PARAMETERS	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND N	RL (ug/kg)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 94 95	QC LIMIT 20-150 20-150

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CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS-052 CONTROL NO.: F009-06 % MOISTURE: 6.7	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/04/96 RACTED: 06/05/96 LYZED: 06/06/96 SOIL
PARAMETERS	RESULTS (ug/kg)	RL (ug/kg) 18.2 10.7 21.4 26.8 18.2 107 107 107 21.4 18.2 21.4 21.4 107 107 21.4
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 97 93	QC LIMIT 20-150 20-150

CLIENT:	OHM	DATE COLLECTED:	06/01/96
PROJECT:	18319/CAMP LEJEUNE	DATE RECEIVED:	06/04/96
BATCH NO.: SAMPLE ID:	96F009 CLJ100-CS-053	DATE EXTRACTED:	06/05/96
CONTROL NO.:		DATE ANALYZED: MATRIX:	06/06/96 SOIL
% MOISTURE:		DILUTION FACTOR:	1
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC delta-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	888888888888888888888888888888888888888	17.9 10.5 21.1 26.3 17.05 105 105 105 21.1 21.1 10.5 21.1 10.5 21.1 10.5 21.1 21.1 21.1 21.1 21.1 21.1 21.1 21
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 96 99	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS-054 CONTROL NO.: F009-08 % MOISTURE: 7.7	DATE COLL DATE RECE DATE EXTR DATE ANAL MATRIX: DILUTION	IVED: 06/04/96 ACTED: 06/05/96 YZED: 06/06/96 SOIL
PARAMETERS	RESULTS (U) - 1 RESULTS (U) - 1 RESULTS RESULT	RL (ug/kg) 18.4 10.8 21.7 27.1 18.4 108 108 108 108 21.7 18.4 21.7 21.7 21.7 10.8 21.7 21.7
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 97 95	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS-055 CONTROL NO.: F009-09 % MOISTURE: 7.4	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	LECTED: 06/01/96 EIVED: 06/04/96 TRACTED: 06/05/96 LYZED: 06/06/96 SOIL
PARAMETERS	5) 5/k1 89/k1 80/k	RL (ug/kg)
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	91 95 ==========	20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS-056 CONTROL NO.: F009-10 MOISTURE: 13.2	DATE COLL DATE RECE DATE EXTR DATE ANAL MATRIX: DILUTION	IVED: 06/04/96 ACTED: 06/05/96 YZED: 06/06/96 SOIL
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor Toxaphene	## ## ## ## ## ## ## ## ## ## ## ## ##	RL (ug/kg)
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 102 101	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS-057 CONTROL NO.: F009-11 % MOISTURE: 8.1	DATE COLL DATE RECE DATE EXTR DATE ANAL MATRIX: DILUTION	SOIL
PARAMETERS	RESULTS LAGINERS EN LAGINES EN LAGINES EN LAGINES EN LAGINES EN LA LAGINES EN LAGINES EN LA LAGINES EN LAGINES EN LA LAGINES EN LAGINES EN LAGINES EN LA LAGINES EN LAGINES	RL (ug/kg)
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 96 95	QC LIMIT 20-150 20-150

RL: Reporting Limit

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS-058 CONTROL NO.: F009-12 % MOISTURE: 4.6	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/04/96 RACTED: 06/05/96 LYZED: 06/06/96
PARAMETERS	s) ; b k ; b b b b b b b b b b b b b b b b b	RL (ug/kg) 17.8 10.5 26.2 17.8 105 105 105 105 105 21 17.8 210 211 10.5 210 524 1050 2100
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	98 95	20-150 20-150
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TLIENT:	OHM	DATE COLLECTED:	06/01/96
≥ROJECT:	18319/CAMP LEJEUNE	DATE RECEIVED:	06/04/96
BATCH NO.:	96F009	DATE EXTRACTED:	06/05/96
SAMPLE ID:	CLJ100-CS-059	DATE ANALYZED:	06/06/96
CONTROL NO.:	F009-13	MATRIX:	SOIL
% MOISTURE:	4 6	DILUTION FACTOR:	1
· ····································	1.0	DIMOTION PACTOR.	-
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RESULTS (ug/kg) **PARAMETERS** (ug/kg) Aldrin ND alpha-BHC beta-BHC 10.5 21 ND ND 26.2 17.8 105 105 105 delta-BHC ND gamma-BHC (Lindane) ND alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE ND ND ND ND 4,4'-DDT ND 105 Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate 17.8 210 210 ND ND ND ND ND 105 Endrin Endrin aldehyde 10.5 ND Heptachlor 210 524 ND Heptachlor Epoxide Methoxychlor ND ND 1050 2100 Toxaphene ND SURROGATE PARAMETER RECOVERY QC LIMIT _ _ _ _ _ _ _ Tetrachloro-m-xylene 98 20-150 98 Decachlorobiphenyl 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS-060 CONTROL NO.: F009-14 MOISTURE: 10.4	DATE EXT DATE ANI MATRIX:	CEIVED: 06/04/96 TRACTED: 06/05/96
PARAMETERS	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg) 19 11.2 22.3 27.9 19 112 112 112 112 22.3 19 223 22.3

ND

ND ND ND ND

19 223 22.3 112 11.2 223 558 1120 2230 Endrin
Endrin aldehyde
Heptachlor
Heptachlor Epoxide
Methoxychlor
Toxaphene SURROGATE PARAMETER % RECOVERY QC LIMIT Tetrachloro-m-xylene Decachlorobiphenyl 20-150 20-150 9<u>5</u>

RL: Reporting Limit

Endrin

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CLIENT: PROJECT: BATCH NO.: SAMPLE ID: CONTROL NO.: MOISTURE:	DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: MATRIX: DILUTION FACTOR:	06/01/96 06/04/96 06/05/96 06/06/96 SOIL 1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	888888888888888888888888888888888888888	17.7 10.4 20.8 26 17.7 104 104 104 20.8 17.7 20.8 104 10.4 20.8 10.4 20.8 10.4 20.8
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 96 94	QC LIMIT 20-150 20-150

OHM CLIENT: DATE COLLECTED: 06/01/96 DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: 18319/CAMP LEJEUNE 96F009 CLJ100-CS-061 ?ROJECT: 06/04/96 BATCH NO .: 06/05/96 06/06/96 SAMPLE ID: CLJ100-CONTROL NO.: F009-16 MATRIX: SOIL MOISTURE: 6.7 DILUTION FACTOR: 1 RESULTS RL**PARAMETERS** (ug/kg) (ug/kg) 18.2 10.7 Aldrin ND alpha-BHC ND 21.4 26.8 18.2 beta-BHC ND delta-BHC ND gamma-BHC (Lindane) NDālpha-Chlordane ND gamma-Chlordane ND 107 4,4'-DDD 4,4'-DDE 4,4'-DDT ND 107 ND 107 ND 107 21.4 18.2 Dìeldrin ND Endosulfan I ND Endosulfan II Endosulfan Sulfate ND 214 ND 21.4 107 Endrin ND Endrin aldehyde Heptachlor ND 10.7 ND 214 Heptachlor Epoxide 536 ND Methoxychlor ND 1070 Toxaphene ND2140 SURROGATE PARAMETER % RECOVERY QC LIMIT -------- ----20-150 Tetrachloro-m-xylene 89

93

20-150

RL: Reporting Limit

Decachlorobiphenyl



CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS-062 CONTROL NO.: F009-17 % MOISTURE: 4.4	DATE EXT DATE ANA MATRIX:	CEIVED: 06/04/96 TRACTED: 06/05/96
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg) 17.8 10.5 20.9 26.2 17.8 105 105 105 105 20.9 17.8

Endosulfan II	ND	209
Endosulfan Sulfate	ND	20.9
Endrin	ND	105
Endrin aldehyde	ND	10.5
Heptachlor Epoxide	ND ND	209 523
Methoxychlor	ND	1050
Toxaphene	ND	2090
SURROGATE PARAMETER	% RECOVERY	OC LIMIT

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	101	20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: CLJ100-CS-063 CONTROL NO.: F009-18 % MOISTURE: 12.1	DATE COLI DATE RECE DATE EXTE DATE ANAI MATRIX: DILUTION	EIVED: 06/04/96 RACTED: 06/05/96 LYZED: 06/06/96
PARAMETERS	RESULTS ULKU UNDENNERSENERSENERSENERSENERSENERSENERSEN	RL (ug/kg) 19.3 11.4 22.8 28.4 19.3 114 114 114 22.8 19.3 22.8 11.4 11.4 22.8 22.8 11.4 11.4
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 92 . 96	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F009 SAMPLE ID: MBLK1S CONTROL NO.: CPF007SB % MOISTURE: NA	DATE RE DATE EX DATE AN MATRIX:	LLECTED: NA CEIVED: NA TRACTED: 06/05/96 ALYZED: 06/06/96 SOIL N FACTOR: 1
PARAMETERS	REULINGE REU	RL (ug/kg)
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	103 77	20-150 20-150
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CKY QUALITY CONTROL DATA LCS ANALYSIS

OHM

CLIENT: P ECT

18319/CAMP LEJEUNE

P ECT: M JD: MAIRIX:

EPA 8080 SOIL

% MOISTURE:

NA

96F009 LCS1S CPF007SL

DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED:

BATCH NO.: SAMPLE ID: CONTROL NO.:

06/05/96 06/06/96

ACCESSION:

96F009

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	LCS RSLT (ug/kg)	LCS % REC	QC LIMIT
Aldrin alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin	ND ND ND ND ND ND ND	167.00 167.00 167.00 333.00 333.00	186.00 189.00 180.00 351.00 365.00 317.00	111 113 108 105 110 95	47-116 45-119 45-119 48-136 34-143 42-132

SURROGATE PARAMETER	SPIKE AMOUNT (ug/kg)	LCS RESULT (ug/kg)	LCS % REC	QC LIMIT %
Tetrachloro-m-xylene	400.00	402.00	100	20-150
Decachlorobiphenyl	667.00	528.00	79	20-150

CKY QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT:

OHM

T:

18319/CAMP LEJEUNE

MATRIX:

EPA 8080

% MOISTURE:

SOIL

BATCH NO.:

SAMPLE ID: CONTROL NO.: 96F0U9 CLJ100-CS-048

F009-01

DATE RECEIVED: 06/04/96
DATE EXTRACTED: 06/05/96

DATE ANALYZED: 06/06/96

ACCESSION:

96F009

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT
Aldrin	ND	195.00	211.00	108	195.00	210.00	108	1	20-170	50
alpha-Chlordane	ND	195.00	244.00	125	195.00	247.00	127	1	20-170	50
gamma-Chlordane	ND	195.00	195.00	100	195.00	203.00	104	4	20-170	50
4,41-DDD	ND	389.00	427.00	110	389.00	432.00	111	1	20-170	50
4,4'-DDT	ND	389.00	495.00	127	389.00	502.00	129	1	20-170	50
Dieldrin	ND	389.00	358.00	92	389.00	357.00	92	0	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT
Tetrachloro-m-xylene	467.00	455.00	98	467.00	449.00	96	20-150
Decachlorobiphenyl	778.00	679.00	87	778.00	684.00	88	20-150

INITIAL CALIBRATION METHOD 8080

Name : CKY Inc Instrument ID : GC2
GC Columm : Rtx-35

Column size ID: .53mm

LFID & Datime: TE24-19 05-24-96 21:54:58 TE24-20 05-24-96 22:31:41 LFID & Datime: TE24-21 05-24-96 23:08:24 TE24-22 05-24-96 23:45:08 LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 05-25-96 00:58:31 LFID & Datime: TE24-25 05-25-96 01:35:14 TE24-26 05-25-96 02:11:59 LFID & Datime: TE24-27 05-25-96 02:48:44 TE24-28 05-25-96 03:25:29

CONC UNIT: ppb

	CONC	CAI	LIBRATIO	ON FACTO	ORS (AI	REA/UNIT	[]	
COMPOUND	Х	1.0X	2.0X	4.0X	8.0X	16.0X	MEAN	%RSD
	======	=====	=====	=====			=====	======
alpha-BHC	5.0	17678	19650		21133	20017	19791	7
gamma-BHC	5.0	17612	19410	19738	19946	18668	19075	5
beta-BHC	5.0	6739	7026	7777	7996	7731	7454	7
Heptachlor	5.0	17693				15567	17057	5
delta-BHC	5.0	11589	12737	15058	16159	17006	14510	16
Aldrin	5.0	18045	17786	18681	17927	17282	17944	3
Heptachlor Epoxide	5.0	18274		17968	16964	15962	17354	5
gamma-Chlordane	5.0	19619	18677	19081	18009	17106	18498	5
Endosulfan I	5.0	17577	18227	17895	17535	16138	17474	5
pha-Chlordane	5.0	19235	18309	18529	17349	16511	17987	6
_eldrin	10.0	17776	18480	17738	16977	15492	17293	7
DDE	10.0	14637	14751	15728	15085	14358	14912	4
Endrin	10.0	14416	14847	14283	13564	12212	13865	7
Endosulfan II	10.0	16430	15492	15357	13933	12725	14787	10
DDD	10.0	11133	12298	12243	12396	11543	11923	5
Endrin Aldehyde	10.0	13641	12639	12850	11593	10611	12267	10
DDT	10.0	12292	12971	12681	12553	11430	12385	5
Endosulfan Sulfate	10.0	15631	14752	14697	13372	12260	14142	9
Endrin Ketone	10.0	18397	17044	16317	14430	12971	15832	14
Methoxychlor	50.0	5407	5152	4729	4376	3878	4708	13
	=====		=====	=====		=====	=====	=====
TCX	5.0	16170	15495	15351	14113	13031	14832	8
DCB	10.0	19012	16608	15132	13136	11773	15132	19

DDT/Endrin Breakdown

Instrument ID: G-C-Z

	File: 5F04-59	File: TF-04-59
	Col: Ptx-5	Col: Rtx-35
	%breakdown	%breakdown
DDT	8.2	0
Endrin	6.7	0

	File: 5F04-78	File: TF04-78
	Col: Rtx-5	Col: 2+x-35
	%breakdown	%breakdown
DDT	7.5	0
Endrin	2.4	0.9

	File: SFOU-96	File: TF04-85
	Col: Ztx-5	Col: 12+x-35
	%breakdown	%breakdown
DDT	0.5	0
Endrin	55	1.2

CONTINUE CALIBRATION METHOD 8080

Name : CKY Inc
Instrument ID : GC2
GC Columm : Rtx-35
Column size ID : .53mm

Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0 Mid Con Cont LFID & Datime: TF04-60 06-05-96 23:49:55 TF04-61 0

CONC UNIT : ppb

	CONC	AVERAGE	RESULT	
COMPOUND	4.0X	CF	CONC	%RSD
alpha-BHC	20.0	19791	21.7	8
gamma-BHC	20.0	i .		
beta-BHC	— 20.0 20.0	4	22.5	
Heptachlor	20.0		20.9	
delta-BHC	20.0	1	22.9	
Aldrin	20.0	3	20.1	
Heptachlor Epoxide			19.3	
gamma-Chlordane	_ 20.0		19.5	
Endosulfan I	20.0	•	19.6	2
alpha-Chlordane	20.0		19.5	3
Dieldrin	40.0		39.1	2
DDE	40.0	i I	41.8	
Endrin	— 40.0		42.0	
dosulfan II	40.0		38.5	
(ODGITAII II	40.0	1	42.4	
kndrin Aldehyde		•	38.3	
DDT	40.0		40.3	
Endosulfan Sulfate			37.9	
Endrin Ketone	40.0		37.7	
Methoxychlor	200.0		206.1	
	=======		=========	=====
TCX	20.0	14832	20.5	
DCB	40.0	15132	35.9	10

CONTINUE CALIBRATION METHOD 8080

La. Name CKY Inc

Instrument ID GC2 GC Column Rtx-35 Column size ID .53mm

Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0 Mid Con Cont LFID & Datime: TF04-79 06-06-96 11:26:47 TF04-80 0

CONC UNIT : ppb

	CONC	AVERAGE	RESULT	
COMPOUND	4.0X	CF	CONC	%RSD
	======	======		======
alpha-BHC	20.0		,	_
gamma-BHC	20.0	1		6
beta-BHC	20.0	7454	22.8	14
Heptachlor	20.0	17057	21.8	9
delta-BHC	20.0	14510	21.5	
Aldrin	20.0	17944	20.2	1
Heptachlor Epoxide	20.0	17354		1
gamma-Chlordane	20.0	18498		
Endosulfan I	_ 20.0	17474	19.5	
alpha-Chlordane	20.0	1	19.8	
Dieldrin	40.0		38.7	ł
L	40.0		42.2	
. cin	40.0		41.7	
Endosulfan II	40.0		39.2	2
DDD	40.0	11923	42.5	
Endrin Aldehyde	40.0		38.9	
DDT	40.0	1	42.9	7
Endosulfan Sulfate	40.0		38.6	
Endrin Ketone	40.0	:	38.1	5
Methoxychlor	200.0	4708	219.1	10
	= =====	======		
TCX	20.0	14832	20.9	4
DCB	40.0	15132	34.8	13
	— · · · ·	10102	34.0	12

CONTINUE CALIBRATION METHOD 8080

Name : CKY Inc
Instrument ID : GC2
GC Columm : Rtx-35
Column size ID : .53mm

Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0 Mid Con Cont LFID & Datime: TF04-99 06-06-96 23:41:37 TF04-100 0

CONC UNIT : ppb

CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
	======	=======================================	=====
20.0	19791	22.0	10
20.0	19075	21.9	
20.0	7454	22.9	
20.0	17057	22.0	
20.0	14510	22.1	
20.0		20.3	_
20.0	17354		
20.0	18498	1	
20.0	17474		
20.0	1		
40.0	17293	39.8	
40.0	14912	42.1	
40.0	13865		
40.0	14787	l .	
40.0	11923	43.3	
40.0	12267	38.3	
40.0	12385	42.2	5
40.0	14142	38.3	4
40.0	15832	3.8.2	4
.	Į.	217.4	9
1	i	21 1	6
, 20.0	1 74075	1 21.1	1
40.0	15132	36.0	10
	4.0X 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 40.0 40.0 40.0 40.0 40.0 40.0 20.0	4.0X	4.0X CF CONC

					ومنومينية ومناها	وه و پیشمند میشود به این او در این	ير ميسيدهد پردن در ساز
-	48 96E080-05	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	49 96E080-06	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	50 96E080-08	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	51 96E080-09	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	52 96E080-10	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	53 96E080-11	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	54 96E080-11T 5X	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	55 96E080-12	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	56 96E080-13	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
•	57 96E080-14	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	58 96E080-15	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	59 PEN04/10C-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	60 DCC4-HIXA/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
•	61 DCC4-HIXB/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	62 DCC1-1660/10-1-302	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
	63 96E080-09T 5X	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
year sa	64 96E080-10T 10X	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
· Constant	65 CPF006SB	1660F01	SF04~	1.0000	1.0000	1.0000	1.0000
	66 CPF006SL	1660F01	SF04~	1.0000	1.0000	1.0000	1.0000
	67 CPF006SC	1660F01	SF04~	1.0000	1.0000	1.0000	1.0000
	68 96F013-12	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
•	69 96F013-12M	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
	70 96F013-12S	1660F01	SF04~	1.0000	1.0000	1.0000	1.0000
	71 CPF007SB	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	72 CPF007SL	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	73 CPF007SC	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	74 96F009-01	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	75 96F009-01H	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	76 96F009-01S	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	77 96F009-02	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	78 PEM05/10C-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	79 DCC5-HIXA/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	80 DCC5-HIXB/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	81 OCC2-1660/10-1-302	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
	82 96F009-03	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	83 96F009-04	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	84 96F009-05	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	85 96F009-06	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	86 96F009-07	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	87 96F009-08	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
yen -	88 96F009-09	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
in Announce.	89 96F009-10	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	90 96F009-11	PEST6	SF04-	1.0000	- 1.0000	1.0000	1.0000
	91 96F009-12	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	92 96F009-13	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	93 96F009-14	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	94 96F009-15	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	95 96F009-16	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	96 96F009-17	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	97 96F009-18	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	98 PEM06/10C-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	99 DCC6-HIXA/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	100 DCC6-HIXB/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
	100 0000 HIND/10 1 242	FLJ10	JI 04"	1.0000	1.0000	1.0000	1.0000

CKY Analytical Laboratorics Sample Preparation Department

EXTRACTION LOG FOR PESTICIDES/PCBs

CLIENT 011M	/ Comp	Lejer	inl	CKY	1-E01-002 Method	8080	PAGE#	98
MATRIX \sim	DIL.			<u>-</u>	DATEBATRACTED	6/5/96 1050	MATE COMPLETED	6/5/26 16
LAB SAMPLIS	SAMPLE		HXTRACT			GLBAN-UP	CO	DU
SAMPLE	AMOUNT	pH	VOLUMB	CLBAN-DP	NOTES	GPC	G	
(0,5007 7 2	(g/m1)		<u>(m))</u>	(G/S/A/F)		TBA		
UF007.5B			<u> </u>			ACID	Δ	
<u>5L</u>				-		FLORISH.	[/	
<u>sc</u>	2 1							
F609-01	3.0	ļ				REAGENT	1,0	T#
1.2					***************************************	Na2SO4	Mr 45cra	971496 79
		ļ				CH2CL2	360	79
02						HEXANE	96230	
03								
04								
ar						STANDARDS	ID AM	OUNT ADDED (ml)
06						SPIKE ID MIX A	S10C-01-0-34-02	0.40
07						SURROGATE ID	2/05-101-0-31-00	2.0
08						Spike mix B	Sloc-01-0-31-07	0.40
09							•	
10						8DG #	BXTRACT L	OCATION
[2]						COMMENTS:		
13								
14								
15							h. O	
						PREPARED BY:		***************************************
17						STD's ADDED BY:	140 / 144	1/
N 18			4	***************************************		CHECKED BY:	Mp/m	V
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administration to the electronic development of the contract of the electronic and administration and again the age and the contract of the electronic and administration and the electronic and administration and the electronic and the electr						Extracts Received By	•	
							-	



CKY incorporated **Analytical Laboratories**

Date: 06-08-1996

CKY Batch No.: 96F014

Attn: Ms. Missy Art

OHM

5335 Triangle Parkway Suite 450 Norcross, GA 30092

Subject:

Laboratory Report Project: 18319/CAMP LEJEUNE

Enclosed is the Laboratory report for samples received on 06/05/96. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include :

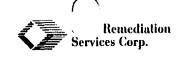
Sample ID	Control No.	Matrix	Analysis
CLJ100-CS-064	F014-01	 C1	ED3 0000
CLJ100-CS-064	F014-01 F014-02	Soil Soil	EPA 8080 EPA 8080
CLJ100-CS-066	F014-03	Soil	EPA 8080
CLJ100-CS-068	F014-05	Soil	EPA 8080
CLJ100-CS-069	F014-06	Şoil	EPA 8080
CLJ100-CS-071	F014-09	Soil	EPA 8080
CLJ100-CS-073 CLJ100-CS-074	F014-11 F014-12	Soil Soil	EPA 8080 EPA 8080
CLJ100-CS-074	F014-12 F014-13	Soil	EPA 8080
CLJ100-CS-077	F014-15	Soil	EPA 8080
CLJ100-CS-078	F014-16	Soil	EPA 8080
CLJ100-CS-079	F014-17	Soil	EPA 8080
CLJ100-FB-604	F014-18	Water	EPA 8080
CLJ100-RB-604	F014-19	Water	EPA 8080

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours Kam Y. Pang, Ph.D. Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.



CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

96F014 H4 166587

O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526 PROJECT NAME/ PROJECT LOCATION Comp Levere, NC. " ANALYSIS DESIRED comp Lejeune (INDICATE PROJECT CONTACT SEPARATE 17+ (910) 45-1- 2599 18319 CLIENT'S REPRESENTATIVE CONTAINERS) Jim Dwa /Alaw whitt VANN Marshburn SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) -T= 2' C W SAMPLE NUMBER DATE TIME **REMARKS** Confirmation Sample from ACC 1-12 Base NEESA Level "C." 1-8<u>02</u> 1 (1500-15-64 1/4/10729 Confirmation Sample -402 2 /15/00-05-065 /4610624 AOC 31-112 Confirmation Sample from 3 (25/100-65-066 1/1/960 628 -80Z Acx 39-42 Confirmation Somple from 1-802 4 (75000-05-067 14/91/6633 Baye AUC 33-38 from of firmation Sample 5 15/20-CS-068 1/4/10637 1-807 AOC 33-38 Base on Firmation Sample 6 2510 CS-269 1/4,96 7643 -808 Sample from 7 (25/16-C5-070 / 466 065) 1-902 Duplicate Confirmation Simple from ACC 35-38 sidewall 8 CITIOD-CS-07000/4/9/ 10651 1-807 Confirmation Simple From 1-808 9/15/00-65-071 /1/0/0655 33-38 Silewall CONFIRMATION
AUG 33-38 From Sample 1-802 10/25106-65-072//4/4/5 701 DATE TIME Samples SONT TO CKY INC.

1944 1700 48 hour TAT. Please Fax results ITEM TRANSFERS TRANSFERS ACCEPTED BY **RELINQUISHED BY** NUMBER loran K. Acon FED EX 6921491334 -10 To 1910) 451-1809. Thanks 2 Hold samples untill we contact You. 3 SAMPLER'S SIGNATURE



CHAIN-OF-CUSTODY RECORD

THAMSELR?

Form 0019 Field Technical Services Rev. 08/89

	OHAIN-OF-OODIN	Doug 00
		76 FOIH HY 166588
O.H. MATERIALS CORP. • P.C	. BOX 551 • FINDLAY, OH 45839-0551	51 • 419-423-3526
PROJECT NAME CUMP LPEUTE PROJECT CONTACT Alan w CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR	CONTAINERS)
VANN Marshburn ON SAMPLE NUMBER DATE TIME OF BY	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	REMARKS
1 CLT100-CS-073 44/96 1707	ADC 33-385 dewall	1-802 X NEESA Leve C."
2 (15100-65-074) 6/4/10712	ACC 29-32 Rase	1-80t X
3 (15/10-cs-075 1/1/91 0733 X	Confirmation Sample From	1-802
4 C15110-C5-076 /4/10738 X	Aug 1-12 Page from	1-807
5 CUTION-CS-077 74/16 5742 X	Aoc 1-12 Sase	1-802 X
6 7700-05-078 1/40746	CONFIRMET & Sample From ADC 1-12 BASE	1-802
7 LIS160-CS-UT9 446 0749 X	CONFIRMATION Sunde from AUC 1-12 Page Field Black	1-907
8 715/00-FB-604 9/1/41 0754 X	Field Black	1-802
9 75112-RB-604 4/96 0759 X	RINGATE Blank	1-807
10		
NUMBER RELINQUIS	HED BY ACCEPTED BY	DATE TIME Samples Seut To CKY THE.
$A \cap A \cap A$	The state of the s	16 C F 1

CORRECTIVE ACTION FORM (CKY Sample Receipt Discrepancy)

CKY Batch No.	967019 1 U	·
Control No.	· · · · · ·	
Method	8080 - ·	
Matrix	Dol	
1) Nature of Discrepand	γ:	
n	lify COC per Carl	Burgel.
2) Corrective Action:	analyze the followin	O FOULU FOULD
F014-8,	F014-10, F014-14) 1019-9, 1019-7
3) Result of Corrective	Action: sult to chemists	•
	<u>:</u>	
Approved by:	Lalle Date: 6/	15/96.
4) Further Corrective Ad	etion Taken? Yes No	Date:
		au Jels,

Approved by:

Client

Date:

	• }	
CAMPLE	RŁJÉIPT	EODM
SHIVIFLE	NESCIFI	I ONW

~		T	1					A 15- 00
0	CONTROL NO.	96F0/4					DATE	06-05 -96
CKY	CLIENT	OHM	سو)				TIME	10:01 AM
	PROJECT	CAMP LEJEUN	F				RECIPIENT	I. PATEL
INC.	SAMPLE TRANSPORT	TATION TO CKY LABO	RATORY:	BY	ON(DATE)	AT(TIME)	FROM(SITE/CO.)	COMMENTS
	PICKED-UP BY CKY	COURIER		142.84 PF =				
A	DELIVERED BY CLIEN	VT /						
ANALYTICAL	SHIPPED/AIRBILL NO	FEDERAPIA	189214913	34 SEC A1	2BILL			
ر <u>۲</u>	SAMPLE BATCH PAC	KAGING/SEALING UPO	ON RECEIPT:	INTACT	DAMAGED	SEALED	NOT SEALED	NO CONTAINER
Ľ	CONTAINER:	IN	SIDE TEMPERATURE:	2.€ C	CUSTODY SEAL		LOCATION	NUMBER
Σ	COOLER	PACKAGING	TYPE	SUFFICIENCY	NTACT	DAMAGED	FRATCLISUME	2
80	BOX	INSULATION:		ofc	NAME:	SECTUC		
R.	OTHER:		REGULAR		DATE:			Terror
<u> </u>		PACKING MATERIAL:	BUPB GEPAK	l./l	TIME:			
ABORATORIES,	SAMPLE DOCUMENT	ATION/CHAIN-OF-C	JSTODY(COC)	SEALED	ENCLOSED	HANDCARRIED	FAXED	MAILED
S, 6	SAMPLE LOG-IN:		CRITERIA		COMMENTS		DISCREPA	VCY
630 1	SAMPLE CUSTODY S	EAL	EVERY SAMPLE	NONE				
Maple	CONTAINER TYPE/MA	TERIAL	APPROPRIATE	06				
Э	SAMPLE AMOUNT		ENOUGH					
ě.	SAMPLE PRESERVAT	ION/HOLDING TIME	SUFFICIENT					
텇	HEADSPACE/BUBBLE	<u>S</u>	ZERO/NONE		······································	.,	/	···
35	SAMPLE LABEL INFO	RMATION	SUFFICIENT					
1 2 33.00	CHAIN-OF-CUSTOE		SUFFICIENT	中				
	SAMPLE INFO.:	SAMPLE ID	DATE	TIME	SIGNATURE	ANALYSES -	- PRESERVATIVE †	CONTAINER
9	INDIVIDUAL SAMPLE	CONTAINER:	NONE	SEALED PLASTIC	BAG	CAN	OTHER(SPECIFY)	BUBBLEPAR
Calif. 90503	SAMPLE NUMBER	CLIENT ID		DISCREPANCY			ACTION	
	-18	FIELD BLANK	Red) IL G	ASS BOTTLE (L			·	
<u> </u>	-19	RINSATEBLANK	. 11 11	11 11 C	WATER		······································	
Tel. (310) 618-88								
5			<u> ,</u>				/	

7			*******					
K G							<u> </u>	
9								
618								
89 Fax: (310) 618-0818			- Orál	x 6/5-		- 		
& ;∶[CLIENT SERVICES CO	PY RECEIVED BY		<u> </u>	DATE		TIME	·
					•			

	TCO =X STREET	URBILL FOR DANGEROUS GOODS SHIPHENTS ON TERMATIONAL AIR MAYBULL FOR SHIPMENTS TO ONS? CALL 800-238-5355 TOLL FO	ILY WITHIN THE CON PUERTO RICO AND A REE	TIMENTAL U.S.A. ALASKA AN LL NON U.S. LOCATIONS L. 6-F014	NO HAWAII. AIRBILL PACKAGE TRACKING NUMBER	_L921	497334
	rom (Your Name) Please Print	Date 6-4-96		6596		T'S COPY	
1	Company Please Print	$\wedge \wedge \wedge \wedge$) 451-2 Department/	599	pient's Name) Please Print Kan Povg	Reopents	Phone Number (V.) \$14-9559 Department/Floor No.
	Street Address	SERVICES		Exact St	treet Address (We Cannot Deliver to P.O. Boxes o	TPO. Zip Codes.)	······································
A	City CIRCKSONVILLS	NC 2	lequired 소 등 목	city To	rrance	CA 9.	equired
1	YOUR INTERNAL BILLING REFERENCE INFORMATION PAYMENT TO BUILDING REF	on (optional) (First 24 Characters will appe		Bill Credit Card	Street Address City		ivailable at all locations)
	S Cash	是为各种性质的	TACKAGES	经常是	ECLARED Emp. No. Da		
	SERVICES (Check only one box) Priority Overnight (Demony for neal business monutary) (Demony for neal business monutary) (Demony for neal business monutary)	DELIVERY AND SPECIAL HANDLIN (Check services required) Weekday Service 1 HOLD AT FEDEX LOCATION WEEKD 'Fill in Section	DAY 1	in Pounds VA	Life Cash Received Gash Received Return Shipment Third Party Chg. To	-	Federal Express Use Base Charges
	ECONOMY Two-Day Government Overnight (Compay by second planess cayl) (Pessional for authorized users only)	Saturday Service	Y		Street Address		Declared Value Charge Other 1
	Freight Service	31 HOLD AT FEDEX LOCATION SATUR. (Fix in Section 3 DELIVER SATURD) 9 SATURDAY PICK-UP 10 as is	m H) Total	Total Total	Received By:	ate Zip	Other 2
A COMP	(For packages over 150 bs.) 70	Special Handling 4 X DANGEROUS GOODS (Extra charge) 6 ORY ICE Dangerous Goods Shoper's Declaration not		PMENT (Chargeable Weig	Date/Time Received FedE	x Employee Number	Total Charges REVISION DATE 11/94 Part # 146167/146188 FORMAT #219 GBFE
	Dangerous Goods as per attached Shipper's Declaration Dangerous Goods Shipper's Declaration not required Cargo Aircraft only	Dy to: 9 UN 156 7 X kg. 12 HOUIDAY DELIVERY (If c*ered) (Extra cruzye)	904	X	I SUSPALUDE DELEAS	E UNAVAILABLE	219 © 1994 FEDEX PRINTED IN U.S.A.
1	692149:	1334 Page 1. of	Pages	Two completed handed to the	ted and signed copies of this	Declaration mu	ist be
	TRANSPORT DETAILS This shipment is within the limitations prescribed for: (delete non applicable)	Airport of Departure		Regulations	omply in all respects with t may be in breach of the	applicable law,	subject to legal
	This shipment is within the limitations prescribed for:	Airport of Departure		Failure to con Regulations penalties. The and/or signs	omply in all respects with t may be in breach of the his Declaration must not, in a ed by a consolidator, a for	applicable law, iny circumstanc	subject to legal es, be completed
	This shipment is within the ilmitations prescribed for: (delete non applicable) PASSENGER CARGO AND CARGO AIRCRAFT ONLY Airport of Destination:	Airport of Departure		Failure to or Regulations penalties. Th and/or signe Shipment typ	omply in all respects with t may be in breach of the his Declaration must not, in a ed by a consolidator, a for	applicable law, iny circumstanc	subject to legal es, be completed
	This shipment is within the limitations prescribed for: (delete non applicable) PASSENGER CARGO AND CARGO AIRCRAFT ONLY Airport of Destination: NATURE AND QUANTITY			Failure to or Regulations penalties. Th and/or signe Shipment typ	omply in all respects with t may be in breach of the nis Declaration must not, in a ed by a consolidator, a for De: (delete non-applicable)	applicable law, iny circumstanc	subject to legal
	This shipment is within the limitations prescribed for: (delete non applicable) PASSENGER AND CARGO AND C	OF DANGEROUS GOOD Goods Identification Class or or Division ID No.	S	Failure to connect Regulations penalties. The and/or signs Shipment typ NON-RAD	omply in all respects with t may be in breach of the his Declaration must not, in a ed by a consolidator, a for the consolidator of the consolidat	applicable law, any circumstance warder or an IA	subject to legal es, be completed TA cargo agent.
	This shipment is within the ilmitations prescribed for: (delete non applicable) PASSENGER AND CARGO AIRCRAFT ONLY Airport of Destination: NATURE AND QUANTITY Dangerous	OF DANGEROUS GOOD Goods Identification Class or or Division ID No.	S	Failure to con Regulations penalties. The and/or signs Shipment typ NON-RAD Subsidiary Risk	omply in all respects with to may be in breach of the may be in breach of the mis Declaration must not, in a sed by a consolidator, a for Dec. (delete non-applicable) ODACTIVE RADIOACTIVE Quantity and	Packing Inst.	subject to legal es, be completed TA cargo agent.
	This shipment is within the limitations prescribed for: (delete non applicable) PASSENGER AND CARGO AND C	OF DANGEROUS GOOD Goods Identification Class or or Division ID No.	S	Failure to con Regulations penalties. The and/or signed Shipment type NON-RAD Subsidiary Risk	omply in all respects with to may be in breach of the may be in breach of the mis Declaration must not, in a sed by a consolidator, a formore: (delete non-applicable) DIOACTIVE RADIOACTIVE Quantity and type of packing	Packing Inst.	subject to legal es, be completed TA cargo agent.
	This shipment is within the limitations prescribed for: (delete non applicable) PASSENGER AND CARGO AND C	OF DANGEROUS GOOD Goods Identification Class or or Division ID No.	S	Failure to con Regulations penalties. The and/or signed Shipment type NON-RAD Subsidiary Risk	omply in all respects with to may be in breach of the his Declaration must not, in a sed by a consolidator, a formoe: (delete non-applicable) DIOACTIVE RADIOACTIVE Quantity and type of packing	Packing Inst.	subject to legal es, be completed TA cargo agent.
	This shipment is within the Ilmitations prescribed for: (delete non applicable) PASSENGER AND CARGO AIRCRAFT AIRCRAFT AIRCRAFT Airport of Destination: NATURE AND QUANTITY Dangerous Proper Shipping Name	OF DANGEROUS GOOD Goods Identification Class UN or Division ID No.	S Packing Group	Failure to con Regulations penalties. The and/or signs Shipment typ NON-RAD	omply in all respects with to may be in breach of the may be in breach of the mis Declaration must not, in a sed by a consolidator, a formulation of the mis Declaration must not, in a sed by a consolidator, a formulation of the majority of the proper Name/Title of Signatory	Packing Inst.	subject to legal es, be completed TA cargo agent. Authorization
	This shipment is within the Ilmitations prescribed for: (delete non applicable) PASSENGER AND CARGO AND C	OF DANGEROUS GOOD Goods Identification Class UN or Division ID No. Class UN or Division ID No. Class UN or Division ID No. Class UN or Division ID No.	Packing Group Accurately de di, and are in il and Nationa	Failure to con Regulations penalties. The and/or signed Shipment type NON-RAD Subsidiary Risk	omply in all respects with to may be in breach of the may be in breach of the mis Declaration must not, in a sed by a consolidator, a formation of the mis Declaration must not, in a sed by a consolidator, a formation of the majority and the proper the proper legulations. Name/Title of Signatory Place and Oate Proper legulations. Name/Title of Signatory Place and Oate Proper legulations.	Packing Inst.	Subject to legal es, be completed TA cargo agent. Authorization

LABORATORY REPORT FOR

OHM

18319/CAMP LEJEUNE

CHLORINATED PESTICIDES

SDG#: 96F014

JUNE 08, 1996

CASE NARRATIVE

CLIENT:

ОНМ

PROJECT:

18319/CAMP LEJEUNE

SDG:

96F014

CHLORINATED PESTICIDES

Eighteen (18) soil and one (1) water samples were received on 06/05/96 for Pesticide analysis in accordance with SW846. Samples CLJ100-CS-067, -070, -070DP, -072, -076, and CLJ-FB-604 were canceled.

I. Holding Time

All samples were extracted and analyzed within the holding time criteria.

11. Blank

Both soil and water method blanks were free of contamination.

III. Matrix Spike/Matrix Spike Duplicate

All recoveries and RPDs for soil matrix were within the QC limits. There was no MS/MSD for water matrix, LCS/LCSD were analyzed as precision QC samples.

IV. Lab Control Sample/Lab Control Duplicate

All results were within the control limits.

V. Surrogate Recovery

All surrogate recoveries were within the control limits.

VI. Instrument Performance and Calibration

An initial calibration was five-point and all RSDs were within the QC limits. Rtx35 was a quantitation column. All continue calibrations in the quantitation column were checked at 12 hour interval and all recoveries were within the QC limits. All DDT and Endrin breakdown were within QC limits.

VII. Sample Analysis

All sample analyses met QC requirements. All results were confirmed by the second column Rtx5.

SAMPLE RESULTS

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F014 SAMPLE ID: CLJ100-CS-064 CONTROL NO.: F014-01 % MOISTURE: 3.4	DATE COLI DATE RECE DATE EXTE DATE ANAI MATRIX: DILUTION	EIVED: 06/05/96 RACTED: 06/05/96 LYZED: 06/07/96
PARAMETERS	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg)
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 87 85	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F014 SAMPLE ID: CLJ100-CS-065 CONTROL NO.: F014-02 % MOISTURE: 13.9	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/05/96 RACTED: 06/05/96 LYZED: 06/07/96 SOIL
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	TS) Llg) SU/k NDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	RL (ug/kg) 19.7 11.6 23.2 29 19.7 116 116 116 116 23.2 19.7 232 23.2 11.6 23.2 11.6 23.2
SURROGATE PARAMETER Tetrachloro-m-xylene	% RECOVERY 92	QC LIMIT 20-150
Decachlorobiphenyl	85	20-150

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LIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F014 SAMPLE ID: CLJ100-CS-066 CONTROL NO.: F014-03 MOISTURE: 13.5	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	RACTED: 06/05/96 LYZED: 06/07/96 SOII
PARAMETERS	RESULTS (ug/kg)	RL (ug/kg) 19.7 11.6 23.1 28.9 19.7 116 116 116 116 23.7 23.1 11.3 23.1 11.3 23.1 23.1 23.1 23.1
GURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	89 . 89	20-150 20-150

LIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F014 SAMPLE ID: CLJ100-CS-068 CONTROL NO.: F014-05 % MOISTURE: 14.3	DATE RE DATE EX DATE AN MATRIX:	LLECTED: 06/04/96 CEIVED: 06/05/96 TRACTED: 06/05/96 ALYZED: 06/07/96 SOIL N FACTOR: 1
PARAMETERS	######################################	RL (ug/kg)
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 85 90	QC LIMIT 20-150 20-150

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LIENT:	OHM	DATE	COLLECTED:	06/04/96
PROJECT:	18319/CAMP LEJEUNE		RECEIVED:	06/05/96
BATCH NO.:	96F014		EXTRACTED:	06/05/96
SAMPLE ID:	CLJ100-CS-069		ANALYZED:	
CONTROL NO .:		MATR		06/07/96
% MOISTURE:				SOIL
		טעדע.	FION FACTOR:	T

PARAMETERS	RESULTS (ug/kg) 35 ND ND ND ND ND ND ND 180 210 58 ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg)
GURROGATE PARAMETER Tetrachloro-m-xylene	% RECOVERY	QC LIMIT
Decachlorobiphenyl	91	20-150

LIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F014 SAMPLE ID: CLJ100-CS-071 CONTROL NO.: F014-09 MOISTURE: 11.9	DATE REG DATE EX DATE ANI MATRIX:	LLECTED: 06/04/96 CEIVED: 06/05/96 FRACTED: 06/05/96 ALYZED: 06/07/96 SOIL N FACTOR: 1
PARAMETERS	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg) 19.3 11.4 22.7 28.4 19.3 114 114 114 22.7 19.3 22.7 22.7 22.7 21.4 11.4 227 568 1140 2270
URROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F014 SAMPLE ID: CLJ100-CS-073 CONTROL NO.: F014-11 % MOISTURE: 14.1	DATE RE DATE EX DATE AN MATRIX:	LLECTED: 06/04/96 CEIVED: 06/05/96 TRACTED: 06/05/96 ALYZED: 06/07/96 SOIL N FACTOR: 1
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Epoxide Methoxychlor Toxaphene	RESULTS UUS RESULTS	RL (ug/kg)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 86 88	QC LIMIT 20-150 20-150

'LIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F014 SAMPLE ID: CLJ100-CS-074 CONTROL NO.: F014-12 % MOISTURE: 15.3	DATE EXT DATE ANA MATRIX:	EIVED: 06/05/96 RACTED: 06/05/96
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor Toxaphene 'URROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg) 20.1 11.8 23.6 29.1 118 118 118 118 118 11.8 23.6 23.6 23.6 23.6 23.6 23.6 23.6 23.6

CLIENT: PROJECT: BATCH NO.: SAMPLE ID: CONTROL NO.: MOISTURE:		DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: MATRIX:	06/04/96 06/05/96 06/05/96 06/05/96 06/07/96 SOIL	
% MOISTURE:	12.0	DILUTION FACTOR:		

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	ND ND ND ND ND ND ND ND ND ND ND ND ND N	19.3 11.4 22.7 28.4 19.3 114 114 114 22.7 19.3 22.7 22.7 22.7 114 11.4 22.7 22.7
GURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	88 88	20-150 20-150

Reporting Limit Analyzed at DF=5 due to high concentration level $\frac{1}{2}$

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F014 SAMPLE ID: CLJ100-CS-077 CONTROL NO.: F014-15 % MOISTURE: 9.5	DATE COLL DATE RECE DATE EXTR DATE ANAL MATRIX: DILUTION	IVED: 06/05/96 ACTED: 06/05/96 YZED: 06/07/96 SOIL
PARAMETERS	RESULTS UUJ - NOONENEESEN NOONE NOONENEESEN NOONEESEN NOONENEESEN	RL (ug/kg)
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 91 91	QC LIMIT 20-150 20-150

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CLIENT:	OHM	DATE COLLECTED:	06/04/96
PROJECT:	18319/CAMP LEJEUNE	DATE RECEIVED:	06/05/96
BATCH NO.:	96F014	DATE EXTRACTED:	06/05/96
SAMPLE ID:	CLJ100-CS-078	DATE ANALYZED:	06/07/96
CONTROL NO.:	F014-16	MATRIX:	SOIL
% MOISTURE:	9.4	DILUTION FACTOR:	1
			_

PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor Toxaphene	SS SS SS SS SS SS SS SS SS SS SS SS SS	RL (ug/kg)
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 80 89	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F014 SAMPLE ID: CLJ100-CS-079 CONTROL NO.: F014-17 % MOISTURE: 10.1	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/05/96 RACTED: 06/05/96 LYZED: 06/07/96 SOIL
7 MOISTORD: 10.1		FACTOR: 1
PARAMETERS	RESULTS (ug/kg) NDD NDD NDD NDD NDD NDD NDD NDD ND	RL (ug/kg)
GURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	86 89	20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP BATCH NO.: 96F014 SAMPLE ID: MBLK1S CONTROL NO.: CPF009SB MOISTURE: NA	LEJEUNE DATE R DATE E DATE A MATRIX	COLLECTED: NA ECCIVED: NA EXTRACTED: 06/05/96 NALYZED: 06/07/96 E: SOIL ON FACTOR: 1
PARAMETERS	RESULTS UUG UUG UUG UUG UUG UUG UUG UUG UUG UU	RL (ug/kg)
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 84 83	QC LIMIT 20-150 20-150

CKY QUALITY CONTROL DATA MS/MSD ANALYSIS

الد... Mb

: OHM

: 18319/CAMP LEJEUNE
: EPA 8080

MATRIX:

% MOISTURE: 3.4

BATCH NO.: 96F014 SAMPLE ID: CLJ100-CS-064

CONTROL NO.: F014-01

DATE RECEIVED: 06/05/96

DATE EXTRACTED: 06/05/96

DATE ANALYZED: 06/07/96

ACCESSION: 96F014

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	GC LIMIT	RPD LIMIT
Aldrin	ND	173.00	186.00	108	173.00	169.00	98	10	20-170	50
alpha-Chlordane	ND	173.00	206.00	119	173.00	185.00	107	11	20-170	50
gamma-Chlordane	ND	173.00	185.00	107	173.00	170.00	99	8	20-170	50
4,41-DDD	ND	345.00	378.00	110	345.00	353.00	102	7	20-170	50
4,4'-DDT	ND	345.00	402.00	117	345.00	375.00	109	7	20-170	50
Dieldrin	ND	345.00	328.00	95	345.00	301.00	87	8	20-170	50

SPIKE AMT MS RSLT MS SPIKE AMT MSD RSLT MSD QC LIMIT (ug/kg) (ug/kg) % REC (ug/kg) (ug/kg) % REC % SURROGATE PARAMETER
 414.00
 374.00
 90
 414.00
 342.00
 83
 20-150

 690.00
 659.00
 95
 690.00
 636.00
 92
 20-150
 Tetrachioro-m-xylene Decachlorobiphenyl

CKY QUALITY CONTROL DATA LCS/LCD ANALYSIS

"τ:

Τ:

18319/CAMP LEJEUNE

ν: MATRIX:

EPA 8080 SOIL

% MOISTURE:

NA

BATCH NO.:

96F014

SAMPLE ID: CONTROL NO.: LCS1S/LCS1SD

CPF009SL/C

DATE RECEIVED:

DATE EXTRACTED: 06/05/96

DATE ANALYZED: 06/07/96

ACCESSION:

96F014

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	8S % REC	SPIKE AMT	BSD RSLT (ug/kg)	BSD % REC	RPD %	QC LIMIT	RPD LIMIT
Aldrin	ND	167.00	175.00	105	167.00	175.00	105	0	47-116	75
alpha-Chlordane	ND ND	167.00	189.00	113	` 167.00	191.00	114	1	45-119	75
gamma-Chlordane	ND	167.00	176.00	105	167.00	176.00	106	1	45-119	75
4,41-DDD	ND	333.00	353.00	106	333.00	353.00	106	0	48-136	75
4,41-DDT	ND	333.00	371.00	112	333.00	374.00	112	0	34-143	75
Dieldrin	ND	333.00	303.00	91	333.00	303.00	91	0	42-132	75

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT
Tetrachloro-m-xylene	400.00	370.00	92	400.00	367.00	92	20-150
Decachlorobiphenyl	667.00	613.00	92	667.00	617.00	92	20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F014 SAMPLE ID: CLJ100-FB-604 CONTROL NO.: F014-18 % MOISTURE: NA	DATE EXTI DATE ANAI	EIVED: 06/05/96 RACTED: 06/05/96 LYZED: 06/07/96 WATER
PARAMETERS	RESUDITION NO NO NO NO NO NO NO NO NO NO NO NO N	RL (ug/L) .04 .035 .055 .044 .144 .012 .044 .044 .041 .055 .055 .055 .055
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 90 71	QC LIMIT

LIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F014 SAMPLE ID: CLJ100-RB-604 CONTROL NO.: F014-19 MOISTURE: NA	DATE COLI DATE RECE DATE EXTR DATE ANAL MATRIX: DILUTION	ACTED: 06/05/96 YZED: 06/07/96 WATER
PARAMETERS	RESULTS (ug/L) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/L) .04 .03 .05 .05 .04 .14 .14 .04 .1 .02 .14 .04 .1 .06 .1 .03 .05 .05 .05
Decachlorobiphenyl	59 ======	24-154

CLIENT: OHM DATE COLLECTED: NA DATE COLLECTED: NA DATE RECEIVED: NA DATE EXTRACTED: 06 DATE ANALYZED: 06 MATRIX: WA DILUTION FACTOR: 1 NAPROJECT: 18319/CA BATCH NO.: 96F014 SAMPLE ID: MBLK1W CONTROL NO.: CPF008WB % MOISTURE: NA 18319/CAMP LEJEUNE 96F014 MBLKIW NA 06/05/96 06/07/96 WATER

PARAMETERS	RESULTS USULT USULTS US	RL (ug/L) .04 .03 .05 .05 .04 .14 .14 .14 .04 .014 .014 .055 .055 .055 .055
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 100 57	QC LIMIT 30-150 24-154

CKY QUALITY CONTROL DATA LCS/LCD ANALYSIS

OHM

18319/CAMP LEJEUNE

ME I NOD: MATRIX:

EPA 8080

WATER

% MOISTURE:

NA

BATCH NO.: SAMPLE ID: 96F014

LCS1W/LCS1WD

CONTROL NO.: CPF008WL/C

DATE RECEIVED: NA

DATE EXTRACTED: 06/05/96

DATE ANALYZED: 06/07/96

ACCESSION: 96F014

Decachlorobiphenyl

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT	BS RSLT (ug/L)	BS % REC	SPIKE AMT	BSD RSLT (ug/L)	BSD % REC	RPD %	QC LIMIT	RPD LIMIT
Aldrin	ND	.50	.57	114	.50	.56	112	2	47-116	50
alpha-Chlordane	ND	.50	.56	112	.50	.56	112	0	45-119	50
gamma-Chlordane	ND	.50	.55	110	.50	.55	110	0	45-119	50
4,41-DDD	ND	1.00	1.04	104	1.00	1.12	112	7	48-136	50
4,41-DDT	DIA	1.00	1.07	107	1.00	1.10	110	3	34-143	50
Dieldrin	ND	1,00	.90	90	1.00	.94	94	4	42-132	50

SPIKE AMT BS RSLT BS SPIKE AMT BSD RSLT BSD QC LIMIT (ug/L) (ug/L) % REC (ug/L) (ug/L) % REC % SURROGATE PARAMETER
 1.20
 .99
 82
 1.20
 1.02
 85

 2.00
 1.65
 82
 2.00
 1.70
 85
 30-150 Tetrachloro-m-xylene 24-154

CALIBRATION

INITIAL CALIBRATION METHOD 8080

Name : CKY Inc

Instrument ID : GC2

GC Column : Rtx-35

Column size ID: .53mm

LEID : Datima: ME34-10

TE24-19 LFID & Datime: 05-24-96 21:54:58 05-24-96 TE24-20 22:31:41 LFID & Datime: TE24-21 05-24-96 23:08:24 TE24-22 05-24-96 23:45:08 LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 05-25-96 00:58:31 LFID & Datime: TE24-25 05-25-96 01:35:14 TE24-26 05-25-96 02:11:59 LFID & Datime: TE24-27 05-25-96 02:48:44 TE24-28 05-25-96 03:25:29

CONC UNIT: ppb

	CONC	CA	LIBRATI	ON FACTO	ORS (A	REA/UNI	Γ)	
COMPOUND	X	1.0X	2.0X	4.0X	8.0X	16.0X	MEAN	%RSD
alpha-BHC	5.0	17678	19650	20474	21133	20017	19791	7
gamma-BHC	5.0	17612	19410	19738	19946		19075	5
beta-BHC	5.0	6739	7026	7777		1		7
Heptachlor	5.0	17693	17858	17225			17057	5
delta-BHC_	5.0	11589		15058		17006	14510	16
Aldrin	5.0	18045	£	18681	17927	17282	17944	3
Heptachlor Epoxide	5.0	18274		17968	16964	15962	17354	5
gamma-Chlordane	5.0	19619	18677	19081	18009	17106	18498	5
Endosulfan I	5.0	17577	18227	17895	17535	16138	17474	5
~lpha-Chlordane	5.0	19235	18309	18529	17349		17987	6
eldrin	10.0	17776	18480	17738	16977		17293	7
√υE	10.0	14637	14751	15728	15085	14358	14912	4
Endrin	10.0	14416	14847	14283	13564	12212	13865	7
Endosulfan II	10.0	16430	15492	15357	13933	12725	14787	10
DDD	10.0	11133	12298	12243	12396	11543	11923	5
Endrin Aldehyde	10.0	13641	12639	12850	11593	10611	12267	10
DDT	10.0	12292	12971	12681	12553	11430	12385	5
Endosulfan Sulfate_	10.0	15631	14752	14697	13372	12260	14142	9
Endrin Ketone	10.0	18397	17044	16317	14430	12971	15832	14
Methoxychlor	50.0	5407	5152	4729	4376	3878	4708	13
	=====	=====	=====	=====	=====	=====	=====	=====
TCX	5.0	16170	15495	15351	14113	13031	14832	8
DCB	10.0	19012	16608	15132	13136	11773	15132	19

CONTINUE CALIBRATION METHOD 8080

I Name : - CKY Inc i rument ID : GC2 GC Columm : Rtx-35 Column size ID : .53mm

Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0 Mid Con Cont LFID & Datime: TF07-3 06-07-96 12:03:58 TF07-4 0

CONC UNIT : ppb

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%D
alpha-BHC	20.0		18.2	9
gamma-BHC	20.0			10
beta-BHC	20.0		19.5	
Heptachlor	20.0		19.1	5
delta-BHC	20.0		19.7	
Aldrin	20.0		17.4	13
Heptachlor Epoxide	20.0	17354	17.4	
gamma-Chlordane	20.0	18498	17.1	
Endosulfan I	20.0	17474	17.4	13
alpha-Chlordane	20.0	17987	16.9	
Dieldrin	40.0	17293	34.5	14
DDE	40.0	14912	36.7	
Endrin	40.0	13865	34.8	
Endosulfan II	40.0	14787	34.7	13
סרי	40.0	11923	34.5	14
rin Aldehyde	40.0	12267	34.2	14
Γ שטן Γ	40.0	12385	35.0	13
Endosulfan Sulfate	40.0	14142	34.5	14
Endrin Ketone	40.0		33.8	15
Methoxychlor	200.0	4708	198.9	1
	=====	1		======
TCX	20.0	14832	18.2	9
DCB	40.0	15132	31.2	22
	.			

FORM VII PC

CONTINUE CALIBRATION METHOD 8080

Name : CKY Inc
irument ID : GC2
Gc Columm : Rtx-35
Column size ID : .53mm

Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0 Mid Con Cont LFID & Datime: TF07-24 06-08-96 00:06:00 TF07-25 0

CONC UNIT : ppb

COMPOUND	CONC	AVERAGE	RESULT	0.5
COMPOUND	4.0X	CF	CONC	%D
alpha-BHC_	20.0	19791	19.9	1
gamma-BHC	20.0			. –
beta-BHC	20.0		21.4	1
Heptachlor	20.0	17057	20.9	
delta-BHC	20.0		21.7	8
Aldrin	20.0	17944	19.5	_
Heptachlor Epoxide	20.0	17354	19.4	3
gamma-Chlordane	20.0	18498	19.2	
Endosulfan I	20.0	17474	19.0	
alpha-Chlordane	20.0	17987	19.2	
Dieldrin	40.0	17293	38.2	
DDE	40.0	14912	41.3	3
Endrin	40.0	13865	40.2	3 1
Endosulfan II	40.0	14787	39.8	0
	40.0	11923	41.4	4
drin Aldehyde	40.0	12267	40.1	0
	40.0	12385	42.0	5
Endosulfan Sulfate	40.0	14142	39.4	
Endrin Ketone	40.0		40.1	0
Methoxychlor	200.0	4708	224.6	12
TCX	20.0	14832	19.9	0
DCB	40.0		37.7	6

DDT/Endrin Breakdown

Instrument ID: G-C - 2

	File: 5Fc7-2	File: TF07-2
	Col: Rtx-5	Col: Rtx-35
	%breakdown	%breakdown
DDT	2-0	b
Endrin	1.3	1-5

	File: 5F07-23	File: TF07-23
	Col: R+x-15	Col: 7+x-35
	%breakdown	%breakdown
TOO	7.0	o
Endrin	4 2	2.)

	File:	File:
	Col:	Col:
	%breakdown	%breakdown
DDT		
Endrin		

ANALYSIS SEQUENCE AND EXTRACTION LOG

Areas, times, and heights stored in: E:QF07-10.ATB SEQUENCE RECORDED IN F:\SF07.SEQ

SEQUENCE FILE: F:\SF07.SEQ

				AMOUNT	INT.STD.	DILUTION	SAMPLE
	SAMPLE NAME	METHOD NAME	DATA FILE	INJECTED	AMOUNT	FACTOR	WEIGHT
1	IBLK/10C-1-34-1	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
2	PEM01/10C-1-20-2	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
3	DCC1-MIXA/10-1-242	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
4	DCC1-MIXB/10-1-242	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
5	CPF009SB	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
6	96F014-01	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
7	96F014-02	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
8	96F014-03	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
9	96F014-05	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
10	96F014-06	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
11	96F014-09	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
12	96F014-11	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
13	96F014-12	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
14	96F014-13	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
15	96F014-15	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
16	96F014-16	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
17	96F014-17	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
18	CPF009SL	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
19	CPF009SC	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
20	96F014-01M	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
21	96F014-01S	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
22	96F014-13T 5X	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
23	PEH02/10C-1-20-2	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
24	DCC2-MIXA/10-1-242	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
25	DCC2-MIXB/10-1-242	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000

CKY Analytical Laboratories Sample Preparation Department

029

EXTRACTION LOG FOR PESTICIDES/PCBs CKYT-E01-002

0.4	11/10	1		<u>UNI</u>	1-101-002	_		100	
CLIENT Off	M/Can Soil	PLI	ruche		METHOD	8080			
MATRIX	soil'			~ 	DATE EXTRACTED	6/5/94	DATE COMPLETED	6/06/96	
LAB	SAMPLI		EXTRACT			CLBAN-UP	co	DB	
Sampli	AMOUNT	Hq	NOLUMB	CLISAN-UP	NOTES	GPC	(;	
JD .	(g/ml)		(ml)	(G/\$/A/P)		TBA		;	
P F009-5B			10	_		ACID		<u> </u>	<u>-</u>
-SL						FLORISH.	1	7	====
-SL -SC 96F014-01 -01M -01S									
96 F0/4 - 01	3,0	<u> </u>				JOHAOHNT		YT W	
- 01 M						Na2SO4	954	496	
-015				_		C112C1.2	360		
- 02 - 03 - 05						HEXANI	962	303	
03									
05									
-06						STANDARDS	ID A	MOUNT ADDED	ml)
- 09						SPIKE ID MIX A	5/00-01-0-34-02	0,40	
//						SURROGATE ID	S10c-01-0-35-02	2,0	
- 12						spikemix B	5100-01-0-35-01	0,40	
- 13									
— /J						SDG #	EXTRACT	OCATION	
-16									
- 17	V					COMMENTS:			
					7				
							······································	· · · · · · · · · · · · · · · · · · ·	
						PREPARED BY:	ML		
						STD's ADDED BY:	ML/7	A	
						СПВСКВЮ ВУ:	F	4	
		7				Extracts Received I	lv:		
	l	<i></i>	l				· y ·		

CKY Analytical Laboratories Sample Preparation Department

EXTRACTION LOG FOR PESTICIDES/PCBs

		10	,		<u>CKY</u>	<u>YT-E01-002</u>			99
CLIENT	OHM	/Camp	Legu	enc	_	метнор	8080	PAGE#	6/06/96/0
MATRIX	w W	MIER'	0		-	DATE EXTRACTED			
LAI	1	SAMPLII AMOUNT		EXTRACT			CLBAN-UP	[C	ODB
			pli	VOLUMIS	CLUAN-UP		GrC		G
10		(g/ml)	ļ	(ml)	(C)/S/A/I')		TBA	_	<u> </u>
CPF008		1000		10			VCID		Λ
	WL			<u> </u>			FLORISIL		<u>I</u>
	WC		.]				ı Ir		
F014 -	18		ļ	,			RUAGIRAT		or #
	19	4		<u> </u>			Na2SO4		954496
							C112C1.2		36079
				<u> </u>			HEXANE		962303
								<u></u>	
				 			[
					_/				AMOUNT ADDED (ml)
	· .						SPIKE ID MIX A	5100-01-0-34-02	0.40
<u></u>							SURROGATE ID	5100-01-0-35-02	1.0
,							Spike MIX B	510c-01-0-35-02 510c-01-0-35-02	0.40
							8DG #	EXTRAC	LOCATION
]						
							COMMENTS:		
							PREPARED BY:	ML/ MI	2
						,	STD's ADDED BY:	ML/MI MD/F	-y
							CHECKED BY:		y
							Batracts Received l	By:	
Language Communication of the		·				2- 		-	



CKY incorporated Analytical Laboratories

Date: 06-10-1996 CKY Batch No.: 96F019

Attn: Missy Art

5335 Triangle Parkway, Suite 450 Norcross, GA 30092

Subject:

Laboratory Report Project: 18319/CAMP LEJEUNE

Enclosed is the Laboratory report for samples received on 06/06/96. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include:

Sample ID	Control No.	Matrix	Analysis
CLJ100-CS-080 CLJ100-CS-080DP CLJ100-CS-081 CLJ100-CS-082 CLJ100-CS-083 CLJ100-CS-084 CLJ100-CS-085 CLJ100-CS-086 CLJ100-CS-087 CLJ100-CS-088 CLJ100-CS-089 CLJ100-CS-090 CLJ100-CS-090 CLJ100-CS-090 CLJ100-CS-091 CLJ100-CS-092 CLJ100-CS-093 CLJ100-CS-094	F019-01 F019-02 F019-03 F019-04 F019-05 F019-06 F019-07 F019-08 F019-09 F019-11 F019-11 F019-12 F019-13 F019-14 F019-15 F019-15 F019-16	Social So	EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080
CLJ100-CS-095	F019-18	Soil	EPA 8080

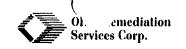
The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.b. Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.



CHAIN-OF-CUSTODY RECORD

Form 0019 Field Technical Services CFO1 Rev. 08/89

96F619

166591

L	O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551, • 419-423-3526																
PROJECT NAME PROJECT LOGATION PROJECT MANAGER/SUPERISOR VAND MACCELL BULL PROJECT MANAGER/SUPERISOR VAND MACCELL BULL TIME DUNA Alam Whith								NUMBER		INDI	LYSIS DES	SIRED	(1)	7///			
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	ı	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	P								T; 2'C'Y REMARKS	
1	1560-65-680	15/96	5213		X	AUC	12 R 44	1-8	יקט ,	X						NEESA 1	end C
	(1510UCS-88XXX	45/91	0813		X	Duplic at	e Carrier a Scaple.	1-8.	v7	\langle							
3	C15140-CS-011	15/91	1817		X	10C		1-80	7	\langle							
4	1540-65-082	15/4	0820		X	Auc 1		1-8.	7	\langle							
5	12/10-52-083	15/9	OSEL		X		1-12 15 carell	1-8	ं के	X							
6	115-16-CS-0764	45/91	083 2		X	Auc 1	1-12 & reducill	1-8	08	$\langle $							
7	1510-65-185	15/11	,840		X	A OC	1-17 Comple from	1-8	7	X							
8	1516-65-646	15 h	19.43		X	Contra	1012 Salare From	1-80	7	X							
9	27100-65-097	15/96	3855		X	Cont and	-, a Samue fim	1-50	()								
10	105.16-65-688	5/46	1958	L `	X	Cost and	1-12 s. Penall	1-8.	1							<i>'</i>	/
	NUMBER		F		ANSF	ERS HED BY	TRANSFERS ACCEPTED BY	DATE	TIM	ΙE	San	ples		5 EV,	,+	To C	KY INC.
	1 1-10) /	loc	9V	K	Azan	FED EX 69 21491323	196	170	TIME Samples sent To 1700 48 hour TAT. Pleas		Please 1	ax Results				
	2		.*			· · J	Carlotte 1		<i>i</i>		To	71	v)4	51	- 19	309.	
	3										Hole	<u>d </u>	Sum	ple	ζ	HATIL WE	Gostact you.
	4						(1		SAMPLER'S SIGNATURE					Anna (



CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

76F019 110

166592

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-055											419-423-3526			
PROJECT NAME (AMP Lejeville, NC. PROJECT CONTACT (BZ19 CLIENT'S REPRESENTATIVE VANH MUTCH DUCK PROJECT LOCATION (MP) Lejeville, NC. PROJECT TELEPHONE NO. (1) L/51-2599 PROJECT MANAGER/SUPERYISOR TIM TAMA PLAN Whitt								PROJECT TELEPHONE NO. (1) 451-2599 AGER/SUPERVISOR	NUMBER	(INC	ANALYSIS DESIRED INDICATE SEPARATE CONTAINERS)			
ITEM NO.		AMPLE UMBER		TIME		GRAB		SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	S AO		Teb CT REMARKS			
П	(J110-	(5-08 ^c 1	1/16	1654		X	100 1-1	- a Saip's from	1-80	, X	Neesa Level C"			
1		65-69 0	1/2/1	1657		X	Costia Acci	- a Sangle from	1-80	, X	X			
3	13100-	C5-0960P	1/4	1639		X	Donlier	- A(C)-12 Sidewall	1-80	2 X	X			
4	1J/0s -	-65-691	15/a	1316		X	.4 úc	1-12 Burgle from	1-80:	, X				
5	13 nx	7- CS- 69Z	1-/1	1319		X	AUC 1-	17 1.18	1-80	2 X				
		-05 (93)	1//	323		X	Contini-		1-80	7	$X \ \ \ \ \ \ \ \ $			
7	17/00	-65-694	1/3/11	1326		X	Cont	- Simple from	1-40	, X				
8	13110	-65-096	15/16	1330		X			1-80	z X				
П		-FB-6	1.7	3904		X	.		1-11.	X	X DONOT RUN!			
			1/5/96	0909		X	R.	cate Blank	1-12	_	X Down for Road			
TOANGEER	NUMBER	ITEM NUMBER				IANSF IQUIS	FERS SHED BY	TRANSFERS ACCEPTED BY	DATE	TIME				
	1	1-10		Do	or	J K	Arm	FED EX 6921491323	6/196	1700	48 hour TAT. Please Fax Results			
	2						101							
	3										Hold Samples until we contact you.			
	4										SAMPLER'S SIGNATURE			

CORRECTIVE ACTION FORM (CKY Sample Receipt Discrepancy)

Client	OHM
CKY Batch No.	96F019
Control No.	36 FO1,9-1 Hrough 96F019-18
Method	8080
Matrix	Dn'/
1) Nature of Discrepan	
Ken	ese COC 96F019.
2) Corrective Action:	01
Q_n	alyze all prîl samples 5019-1 through 96F019-18
96	5010, through 86F019-18
706	0/3-/
2) Popula of Compating	A axio
3) Result of Corrective	
Ki	nte to clewists.
	-
<i>O</i> ₂	01 3 Aha (1,10)
Approved by:	<u>Cià de Date: 6/6/96</u>
4) Further Corrective A	Action Taken? Yes No Date:/
	W. 1 6/6
1	404 6/6
	fhil 6/6
_	CJ 6-0
Approved by:	Date:

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ANAIVTICAT I ABOBATOBIES CON W._!. A...

SAMPLE RELLIPT FORM

CONTROL NO.	96F019]				DATE	06-06 -96		
CLIENT	OHM]		•		TIME	10:15 AM		
PROJECT	CAMP LE JEUN	NE				RECIPIENT	I. PATEL		
SAMPLE TRANSPORT	TATION TO CKY LABOR	RATORY:	ВҮ	ON(DATE)	AT(TIME)	FROM(SITE/CO.)	COMMENTS		
PICKED-UP BY CKY					<u> </u>				
DELIVERED BY CLIEN							•		
		N:692149/3	23 SEE AIR	BILL					
	KAGING/SEALING UPC		INTACT	DAMAGED	SEALED	NOT SEALED	NO CONTAINER		
CONTAINER:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	NSIDE TEMPERATURE:	20 C	CUSTODY SEAL	<u> </u>	LOCATION	NUMBER		
COOLER	PACKAGING	TYPE	SUFFICIENCY	INTACT	DAMAGED	FRONT CLOSURE			
BOX	INSULATION:	+	OR	NAME:	SEECIC	1-paini Cosaice			
OTHER:		REGULAR		DATE:	1 Sec 0.0				
		BUBBLEPAK	1	TIME:					
	ration/chain-of-cl		SEALED	ENCLOSED	HANDCARRIED	FAXED	MAILED		
		7							
SAMPLE LOG-IN: SAMPLE CUSTODY SI	· · · · · · · · · · · · · · · · · · ·	CRITERIA EVERY SAMPLE	NONE	COMMENTS	DISCREPA	NCY			
CONTAINER TYPE/MA		APPROPRIATE	Ob						
SAMPLE AMOUNT	TENIAL	ENOUGH							
SAMPLE PRESERVATI	TON/HOLDING TIME	SUFFICIENT		***************************************			/		
HEADSPACE/BUBBLE		ZERO/NONE							
SAMPLE LABEL INFO		SUFFICIENT							
CHAIN-OF-CUSTOD		SUFFICIENT	4						
SAMPLE INFO.:	SAMPLE ID -	DATE -	TIME	- SIGNATURE	ANALYSES -	PRESERVATIVE	CONTAINER		
INDIVIDUAL SAMPLE	*	NONE	SEALED PLASTIC		CAN	OTHER(SPECIFY)			
SAMPLE NUMBER	CLIENT ID	-10 01	DISCREPANCY			ACTION			
		NO DATE	OF RELINQU	AISHED OF CUL	<u> </u>				
							_/		
	-/-								
						/			
	·	·							
/	,								
		Chilie	-6/6						
CLIENT SERVICES CO	BY HECEIVED BY	<u> </u>		DATE	!	TIME			

USE THIS AIRBILL FOR DAMGEROUS GOOUS SHIPMENTS ONLY WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAH.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER
96F019

		6.5-76	V (U)	ta vi. i	RECIPIE	ENT'S COL	PY
	From (Your Name) Please Print	Your Phone Nu	mber (Very Important)	To (Recipient's I	Name) Ploaso Print	A	ecipient's Phone Humber (Very Important)
1	Company LARDS Z.		151-2599 partment/Floor No.	Company	An Peng),	310,618-8889
ľ	Charles a section		parment loor no.	(2)	KY IN	C .	Doparlmen/Floor No.
١	Street Addigates			Exact Stroot Add	dioss (We Cannot Deliver to P.O. B	ioxes of P.O. Zip Codes.) A VCM U	.,,
IJ	CALL LEVELOS / 1	State 7/P Requir	ed	City	3	State	ZIP, Required
اا	JASOSCAVILLE	we by		12000	NLe.	CA	70503
	18319	1,		D		, Print FEDEX Address H	ere (Not available at all locations)
	PAYMENT, 1 Bitt Sander 2 Bitt Recipient's	FodEx Acct. No. 3 Bill 3rd Party FodEx Acct. No.	4 Bill Credit Ca		Cily	State	ZIP Required
1	SERVICES	DELIVERY AND SPECIAL HANDLING	PACKAGES WEIGHT	YOUR DECLARED VALUE	Emp. No.	Date	Foderal Express Uso
	(Check only one box) 1. Priority Overnight (Detroy by and had a ps monnight (Others) by a ps monnight (Others) by a ps monnight (Others) by a ps monnight (Others) by a ps monn	(Chack services required) Wookday Service	1 56	(See right)	Cash Recoved Rotum Shipmant Shirt Party	hg. To Dat. Chg	Base Charges To Hold Ductared Value Charge
ľ	Economy Two-Day Government Overnight	. 2 DELIVER WEEKOAY Saturday Sarvica			Stroot Address		Other 1
	(Definity by second business dept) (Resincted for euthorized users grey) 30 [41 [31 HOLD AT FEDEX LOCATION SATURDAY (Fall in Socion II)		•	City	State Z	ip .
	Freight Service	3 DELIVER SATURDAY (Calia change) (the available	Total Total	Total	Rucolvod By:		Othor 2
	OVERNIGHT BO TWO DAY	g [Saturate Fick of	DIM SHIPMENT (Charg	neathle Weight)	X		Total Charges
	FREIGHT FREIGHT Downward restriction required	Special Handling 4 X DANGEROUS GOODS (Extra charge)		the	Date/Time Received	FedEx Employee Nur	REVISION DATE 11/94 Part / 146187/146188
	: INSTRUCTIONS (Mark appropriate boxes).	6 ORY ICE Dangerous Goods Shipper's Declaration not required	L × W	/_x_H_			FORMAT 8219 GBFE
	Dangerous Goods Shipper's Declaration Dangerous Goods Shipper's Declaration	Organ 9. Lin 1885, 10	Recoved		 SIGNATURE RELE	ASE UNAVAIL	O MOVIEDLY
$\ $	Cargo Aircraft only	12 HOLIDAY DELIVERY (It offered) {Extra chargo}	2 (7 On-Call Sup	4 (18.S.C. 5 (1) Station	ĺ		U.S.A.

LABORATORY REPORT FOR

OHM

18319/CAMP LEJEUNE

CHLORINATED PESTICIDES

SDG#: 96F019

JUNE 10, 1996

CASE NARRATIVE

CLIENT:

ОНМ

PROJECT:

18319/CAMP LEJEUNE

SDG:

96F019

CHLORINATED PESTICIDES

Eighteen (18) soil samples were received on 06/06/96 to be analyzed for Pesticide analysis in accordance with SW846.

I. Holding Time

All samples were extracted and analyzed within the holding time criteria.

II. Blank

A method blank was free of contamination.

III. Matrix Spike/Matrix Spike Duplicate

All recoveries and RPDs were within the QC limits.

IV. Lab Control Sample

All results were within the control limits.

V. Surrogate Recovery

All surrogate recoveries were within the control limits.

VI. Instrument Performance and Calibration

An initial calibration was five-point and all RSDs were within the QC limits in a quantitation column. DB608 was used as the quantitation column. All continue calibrations were checked at 12 hour interval and all recoveries in the quantitation were within the QC limits. All DDT and Endrin breakdown were within QC limits. Only recovery of Heptachlor in last calibration check in the sequence run was within the QC limits. However, according to the method there was no corrective actions required for recovery out of control in the last calibration check on the sequence run.

VII. Sample Analysis

All sample analyses met the project specific QC requirements. All results were confirmed by the second column DB1701.



SAMPLE RESULTS

DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: 06/05/96 06/06/96 06/06/96 06/08/96 CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE
BATCH NO.: 96F019
SAMPLE ID: CLJ100-CS-080
CONTROL NO.: F019-01 MATRIX: SOIL MOISTURE: 7.6 DILUTION FACTOR: 1

RESULTS **PARAMETERS** (ug/kg) (ug/kg) Aldrin 18.4 ND alpha-BHC beta-BHC ND 10.8 21.6 27.1 18.4 ND delta-BHC ND gamma-BHC (Lindane) ND alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE ND 108 108 ND ND 108 ND 108 4,4'-DDT 108 21.6 ND Dìeldrin ND Endosulfan I Endosulfan II Endosulfan Sulfate ND 18.4 ND 216 ND 21.6 108 Endrin ND Endrin aldehyde ND Heptachlor ND 216 Heptachlor Epoxide ND 541 Methoxychlor ND 1080

ND

% RECOVERY

83

105

2160

QC LIMIT

20-150

20-150

Reporting Limit RL:

SURROGATE PARAMETER

Tetrachloro-m-xylene Decachlorobiphenyl

Toxaphene

LIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-080DP CONTROL NO.: F019-02 MOISTURE: 7.3	DATE EXT DATE ANA MATRIX:	EIVED: 06/06/96 RACTED: 06/06/96
PARAMETERS	RESTANTS (up. 1 RESTANTS (up.	RL (ug/kg)
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 86 104	QC LIMIT 20-150 20-150

JLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-081 CONTROL NO.: F019-03 % MOISTURE: 9.0	DATE EXT DATE ANA MATRIX:	CEIVED: 06/06/96 CRACTED: 06/06/96
PARAMETERS Aldrin alpha-BHC beta-BHC delta-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor Toxaphene	RESULTS (ug) NDD NDD NDD NDD NDD NDD NDD NDD NDD ND	RL (ug/kg)
JURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 86 108	QC LIMIT 20-150 20-150

LIENT: PROJECT: BATCH NO.: DATE COLLECTED: 06/05/96
DATE RECEIVED: 06/06/96
DATE EXTRACTED: 06/06/96
DATE ANALYZED: 06/08/96
MATRIX: SOIL OHM 18319/CAMP LEJEUNE 96F019 CLJ100-CS-082 SAMPLE ID: CLJ100-CONTROL NO.: F019-04 % MOISTURE: 6.8 DILUTION FACTOR: 1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor Toxaphene	888888888888888888888888888888888888888	18.2 10.7 21.5 26.8 18.2 107 107 107 21.5 18.2 21.5 21.5 21.5 10.7 10.7 21.5 21.5 21.5 21.5 21.5
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 86 106	QC LIMIT 20-150 20-150

CONTROL NO.: F019-05 % MOISTURE: 8.0	DATE REC DATE EXT DATE ANY MATRIX:	FRACTED: 06/06/96
PARAMETERS	RESULTS OF THE SUL	RL (ug/kg) 18.5 10.9 21.7 27.2 18.5 109 109 109 109 21,7 18.5 21,7 21.7 21.7 21.7 21.7 21.7
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 86 104	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-084 CONTROL NO.: F019-06	DATE COL DATE REC DATE EXT DATE ANA MATRIX:	EIVED: 06/06/96 RACTED: 06/06/96
% MOISTURE: 8.5	DILUTION	FACTOR: 1
PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
712		
Aldrin alpha-BHC	ND ND	18.6
beta-BHC	ND	21.9
delta-BHC	ND	10.9 21.9 27.3 18.6
gamma-BHC (Lindane) alpha-Chlordane	, ND ND	18.6
gamma-Chlordane	ND	109
4,4'-DDD	ND	109
4,4'-DDE 4,4'-DDT	ND ND	109
Dieldrin	ND	109 21.9 18.6 219
Endosulfan I Endosulfan II	ND ND	18.6
Endosulfan Sulfate	ND	21.9
Endrin	ND	109
Endrin aldehyde Heptachlor	ND ND	10.9 219
Heptachlor Epoxide	ND	546
Methoxychlor	ND	1090
Toxaphène	ND	2190
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	82	20-150
Decachlorobiphenyl	105	20-150

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CLIENT:	OHM	DATE COLLECTED: 06/05	100
DDATECT			
PROJECT:	18319/CAMP LEJEUNE	DATE RECEIVED: 06/06/	106
BATCH NO.:	96F019		
		DATE EXTRACTED: 06/06/	/96
SAMPLE ID:	CLJ100-CS-085		
			/96
CONTROL NO.:	F019-07	MATRIX: SOIL	
% MOISTURE:	1 7 7		
9 MOTSTOKE:	T T - T	DILUTION FACTOR: 1	
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	28888888888888888888888888888888888888	19.1 11.2 22.5 28.1 19.1 112 112 112 112 112 112 112 1
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY  89 105	QC LIMIT  20-150 20-150

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CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-086 CONTROL NO.: F019-08 % MOISTURE: 6.8	DATE REC DATE EXT DATE ANA MATRIX:	LECTED: 06/05/96 EIVED: 06/06/96 RACTED: 06/06/96 LYZED: 06/08/96 SOIL FACTOR: 1
		7.7
PARAMETERS	S S S S S S S S S S S S S S S S S S S	RL (ug/kg)  18.2 10.7 21.5 26.8 18.2 107 107 107 21.5 18.2 21.5 10.7 21.5 10.7 21.5 10.7
*	% RECOVERY	OC LIMIT
SURROGATE PARAMETER	6 KECUVEKI	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	90 110	20-150 20-150

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LIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-087 CONTROL NO.: F019-09 % MOISTURE: 5.2	DATE COLI DATE RECI DATE EXTI DATE ANAI MATRIX: DILUTION	EIVED: 06/06/96 RACTED: 06/06/96 LYZED: 06/08/96 SOIL
PARAMETERS	RESULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO THE SULT NEW TO	RL (ug/kg) 17.9 10.5 21.1 26.4 17.9 105 105 105 21.1 21.1 21.1 10.5 10.5 21.1 21.1 21.1 21.1 21.1 21.1 21.1 21
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY  91 106	QC LIMIT  20-150 20-150

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CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-088 CONTROL NO.: F019-10 % MOISTURE: 6.9	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/06/96 RACTED: 06/06/96 LYZED: 06/08/96 SOIL
PARAMETERS	SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SU SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SU SU SU SU SU SU SU SU SU SU SU SU SU	RL (ug/kg)  18.3 10.7 21.5 26.9 18.3 107 107 107 21.5 18.3 21.5 21.5 10.7 21.5 10.7 21.5
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY  95 108	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-089 CONTROL NO.: F019-11 % MOISTURE: 5.1	DATE RE DATE EX DATE AN MATRIX:	LLECTED: 06/05/96 CEIVED: 06/06/96 TRACTED: 06/06/96 ALYZED: 06/08/96 SOIL N FACTOR: 1
PARAMETERS	RESULTS (U) - 1 NAMENDED DE DE DE DE DE DE DE DE DE DE DE DE	RL (ug/kg)  17.9 10.5 21.3 17.95 1055 1055 1055 10.5 21.15 21.15 10.5 10.5 10.5 21.10 21.0 21.0 21.0 21.0 21.0 21.0 21.

% RECOVERY

91 109

RL: Reporting Limit

SURROGATE PARAMETER

Tetrachloro-m-xylene Decachlorobiphenyl

QC LIMIT

20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-090 CONTROL NO.: F019-12 MOISTURE: 6.6	DATE COLI DATE RECE DATE EXTE DATE ANAI MATRIX: DILUTION	EIVED: 06/06/96 RACTED: 06/06/96 LYZED: 06/08/96 SOIL
PARAMETERS	REGULATION TO SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNTE SUNT	RL (ug/kg)  18.2 10.7 21.4 26.8 18.2 107 107 107 21.4 18.2 21.4 21.4 21.4 535 1070 2140
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY  83 103	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-090DP CONTROL NO.: F019-13 % MOISTURE: 6.9	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/06/96 RACTED: 06/06/96 LYZED: 06/08/96 SOIL
PARAMETERS  Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene	REU SO/k SO/k SO/k SO/k SO/k SO/k SO/k SO/k	RL (ug/kg) 
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY  85 111	QC LIMIT 20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-091 CONTROL NO.: F019-14 MOISTURE: 13.4	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	TEIVED: 06/06/96 TRACTED: 06/06/96
	RESULTS	RL .
PARAMETERS	(ug/kg)	(ug/kg)
Aldrin	ND	19.6
alpha-BHC	ND	11.5
beīa-BHC delta-BHC	ND ND	23.1
gamma-BHC (Lindane)	ND	11.5 23.1 28.9 19.6
alpha-Chlordane	ND ND	115 115
gamma-Chlordane 4,4'-DDD	ND	115
4,4'-DDE 4,4'-DDT	260 160	115 115
Dielarin	180	23.1
Endosulfan I Endosulfan II	ND ND	19.6 231
Endosulfan Sulfate	ND	23.1
Endrin Endrin aldehyde	ND ND	115 11.5
Heptachlor	ND	231
Heptachlor Epoxide Methoxychlor	ND ND	577 1150
Toxaphene	ND	2310
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	87 110	20-150 20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-092 CONTROL NO.: F019-15 % MOISTURE: 12.0	DATE COLI DATE RECE DATE EXTE DATE ANAL MATRIX: DILUTION	IVED: 06/06/96 PACTED: 06/06/96 PYZED: 06/08/96 SOIL
PARAMETERS  Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Heptachlor Toxaphene  SURROGATE PARAMETER  Tetrachloro-m-xylene	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg) 
Decachlorobiphenyl	125	20-150

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-093 CONTROL NO.: F019-16 MOISTURE: 17.7	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/06/96 RACTED: 06/06/96 LYZED: 06/08/96 SOIL
PARAMETERS	RESULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SU SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SULKO SU SULKO SULKO SU SU SU SU SU SU SU SU SU SU SU SU SU	RL (ug/kg)  20.7 12.2 24.3 30.4 20.7 122 122 122 122 24.3 20.7 243 24.3 122 12.2 24.3 24.3 24.3 24.3 24.3 24.3 24.3
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY  81 108	QC LIMIT  20-150 20-150
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CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: CLJ100-CS-094 CONTROL NO.: F019-17 % MOISTURE: 13.5	DATE COI DATE REC DATE EXT DATE ANA MATRIX:	J.FCTED: 06/05/06
PARAMETERS	REUNINGEREN IN TOUR TOUR TOUR TOUR TOUR TOUR TOUR TOUR	RL (ug/kg) 19.7 11.6 23.9 19.16 11.6 11.6 11.6 23.1 23.1 23.1 23.1 23.1 23.1 23.1 23.1
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-vulene		

88

110

20-150 20-150

RL: Reporting Limit

Tetrachloro-m-xylene

Decachlorobiphenyl

LIENT: OHM  PROJECT: 18319/CAMP LEJEUNE  BATCH NO.: 96F019  SAMPLE ID: CLJ100-CS-095  CONTROL NO.: F019-18  MOISTURE: 16.3	DATE REG DATE EX' DATE AN MATRIX:	LLECTED: 06/05/96 CEIVED: 06/06/96 TRACTED: 06/06/96 ALYZED: 06/08/96 SOIL N FACTOR: 1
PARAMETERS	RES/kg) 	RL (ug/kg) 
NURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY  110 .108	QC LIMIT  20-150 20-150

	=========	
CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F019 SAMPLE ID: MBLK1S CONTROL NO.: CPF010SB MOISTURE: NA	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: NA RACTED: 06/06/96 LYZED: 06/07/96
PARAMETERS	SUN PERENEREEREEREEREEREEREEREEREEREEREEREERE	RL (ug/kg) 
GURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene Decachlorobiphenyl	91 103	20-150 20-150

#### CKY QUALITY CONTROL DATA MS/MSD ANALYSIS

OHM

18319/CAMP LEJEUNE

ME. ...: MATRIX: EPA 8080 SOIL

% MOISTURE: 12.2

BATCH NO.: SAMPLE ID: MAFB-1305-SE02

96F019

DATE RECEIVED: NA DATE EXTRACTED: 06/06/96

CONTROL NO.: F013-02

DATE ANALYZED: 06/08/96

ACCESSION:

96F013 96F019

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT	RPD LIMIT %
Aldrin	ND	173.00	170.00	98	173.00	169.00	97	1	20-170	50
alpha-Chlordane	ND	173.00	169.00	97	173.00	165.00	95	2	20-170	50
gamma-Chlordane	ND	173.00	142.00	82	173.00	144.00	83	1	20-170	50
4,41-DDD	ND	345.00	303.00	88	345.00	294.00	85	3	20-170	50
4,4'-DDT	ND	345.00	339.00	· 98	345.00	333.00	96	2	20-170	50
Dieldrin	ND	345.00	290.00	84	345.00	288.00	83	1	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT
Tetrachloro-m-xylene	151.00	123.00	81	151.00	126.00	83	20-150
Decachlorobiphenyl	151.00	149.00	98	151.00	151.00	100	20-150

#### CKY QUALITY CONTROL DATA LCS ANALYSIS

OHM

ECT: ..OD :

18319/CAMP LEJEUNE

MATRIX:

EPA 8080

SOIL

% MOISTURE:

NA

BATCH NO .:

96F019 LCS1S

DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED:

NA

SAMPLE ID: CONTROL NO .:

CPF010SL

06/06/96 06/08/96

ACCESSION:

96F013 96F019

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	LCS RSLT (ug/kg)	LCS % REC	QC LIMIT
Aldrin alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDT Dieldrin	ND ND ND ND ND ND	167.00 167.00 167.00 333.00 333.00 333.00	161.00 157.00 138.00 291.00 322.00 275.00	96 94 83 87 97	47-116 45-119 45-119 48-136 34-143 42-132

SPIKE LCS RESULT QC LIMIT AMOUNT LCS SURROGATE PARAMETER (ug/kg) (ug/kg) Tetrachloro-m-xylene 133.00 133.00 113.00 132.00 20-150 20-150 Decachlorobiphenyl 99

**CALIBRATION** 

### INITIAL CALIBRATION METHOD 8080

Name : CKY Inc
_.strument ID : GC3
GC Column : DB608
Column size ID: 0.32 (mm)

LFID & Datime: PF07-3 06-07-96 13:44:42 PF07-4 0 06-07-96 14:20:21 0 06-07-96 LFID & Datime: PF07-5 06-07-96 14:56:00 PF07-6 15:31:41 LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 16:42:58 0 06-07-96 06-07-96 17:18:36 PF07-10 LFID & Datime: 0 06-07-96 PF07-9 17:54:16

0 06-07-96

19:05:49

LFID & Datime: PF07-11 06-07-96 18:29:56 PF07-12 CONC UNIT: ppb

	CONC   CALIBRATION FACTORS (AREA/UNIT)							
COMPOUND	X	1.0X	2.0X	4.0X	8.0X	16.0X	MEAN	%RSD
alpha-BHC_	5.0	12937	12542	11926	11862	10930	12040	6
gamma-BHC	5.0	11827	11233	10481	10244	9267	10611	9
beta-BHC	5.0	5460	5141	4815	4599	4018	4807	11
Heptachlor	5.0	11231	10380	9353	8818	7705		14
delta-BHC	5.0	10929		10089	10039	9310		6
Aldrin	5.0	11564	10815	10274	9914	9031	10320	9
Heptachlor Epoxide	5.0	10732	9815	9053	8310	7429	9068	14
gamma-Chlordane	5.0	11302	10358	9655	9002	8247	9713	12
Endosulfan I	5.0	10920	10092	9180	8703	7606		14
alpha-Chlordane	5.0	11273	10421	9761	9095	8367	9783	12
Dieldrin	10.0	9615	8922	8148	7792	6834	8262	13
)E	10.0	11053	10465	10138	9805	9036	10100	7
ndrin	10.0	7179	6577	5906	5522	4827	6002	15
Endosulfan II	10.0	8586	7719	7030	6256	5598	7038	17
DDD	10.0	6714	6196	5675	5420	4716	5744	13
Endrin Aldehyde	10.0	6754	6107	5610	4993	4616	5616	15
DDT	10.0	6639	6218	5683	5437	4779	5751	12
Endosulfan Sulfate	10.0	7810	6922	6324	5647	5088	6358	17
Endrin Ketone	10.0	7096	6418	5844	5209	4576	5828	17
Methoxychlor	50.0	2339	2150	1854	1687	1389	1884	20
=======================================	=====	=====	=====	######################################	=====	=====	=====	======
TCX	5.0	14220	13263	12586	11824	10820	12542	10
DCB	10.0	9305	8572	8121	7303	6770	8014	13
						l		

### INITIAL CALIBRATION METHOD 8080

Name : CKY Inc ...strument ID : GC3 GC Columm : DB608 Column size ID: 0.32 (mn)

LFID & Datime: PF07-3 06-07-96 13:44:42 PF07-4 0 Datime: PF07-5 06-07-96 14:56:00 PF07-6 0 LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 0 LFID & Datime: 06-07-96 17:18:36 PF07-10 PF07-9 0 LFID & 06-07-96 18:29:56 PF07-12 0 LFID & Datime: PF07-11

	R	r of s	CANDARI	OS (M.	IN)	MEAN	RT W	INDOW
COMPOUND	1.0X	ł	ŀ	1	16.0X		FROM	TO
	=====	=====	=====	=====	I		=====	=====
alpha-BHC	8.28		8.27					
gamma-BHC	9.75		9.74					1 )
beta-BHC	10.04		10.04		10.05			
Heptachlor					10.96			
delta-BHC					11.44			
Aldrin					12.21		12.16	
Heptachlor Epoxide					14.45			
gamma-Chlordane					15.08			
Endosulfan I	15.80	15.80	15.80	15.80	15.80	15.80	15.70	15.90
alpha-Chlordane	15.71	15.71	15.71	15.71	15.73	15.72	15.62	15.82
Dieldrin	17.02	17.02	17.00	17.02	17.02	17.01	16.91	17.11
DDE	16.80	16.78	16.78	16.80	16.80	16.79	16.69	16.89
rndrin	18.45	18.44	18.44	18.44	18.45	18.44	18.34	18.54
dosulfan II	19.17	19.17	19.17	19.17	19.19	19.17	19.07	19.2
D D	18.99	18.99	18.99	18.99	18.99	18.99	18.89	19.09
Endrin Aldehyde	20.47	20.47	20.47	20.47	20.49	20.48	20.38	20.58
DDT	20.16	20.14	20.14	20.16	20.16	20.15	20.05	20.25
Endosulfan Sulfate	20.96	20.96	20.96	20.96	20.98	20.96	20.86	21.06
Endrin Ketone	23.93	23.93	23.93	23.95	23.95	23.94	23.84	24.04
Methoxychlor	23.60	23.60	23.60	23.60	23.60	23.60	23.50	23.70
	=====	=====	=====	=====	=====		Į.	
TCX	5.86	5.86	5.86	5.86	5.88	5.87	5.77	5.97
DCB	28.32		28.32	28.32			ı	
	l							l

#### CONTINUE CALIBRATION METHOD 8080

Name : CKY Inc

l...crument ID : GC-3 HP-5890

GC Column DB608

Column size ID : 0.32MM X 30M
Mid Con Init LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 0
Mid Con Cont LFID & Datime: PF07-15 06-07-96 20:59:25 PF07-16 0

CONC UNIT ppb

	CONC	AVERAGE	REST	JLT	%D,
COMPOUND	4.0X	CF	AREA	CONC	%PSD
	=====	======	======	=====	=====
alpha-BHC	20.0		0	20.6	
gamma-BHC	20.0			20.4	
beta-BHC	20.0		98175	20.4	
Heptachlor	20.0		0	20.0	0
delta-BHC	20.0		i		1 1
Aldrin	20.0	f .		20.2	1 1
Heptachlor Epoxide	20.0	9068	183715	20.3	1 1 1
gamma-Chlordane	20.0	9713	194123		
Endosulfan I	20.0	9300	0	20.3	1 1
alpha-Chlordane	20.0	9783	196697	20.1	· 1
Dieldrin	40.0	8262	0	40.7	2 0
DDE	40.0	10100	405936	40.2	0
Endrin	40.0	6002	0	39.9	
Endosulfan II	40.0	7038	281293	40.0	
	40.0	5744	0	40.0	0
Larin Aldehyde	40.0	5616	225215	40.1	
DDT	40.0	5751	0	39.7	-1
Endosulfan Sulfate	40.0	6358	252527		
Endrin Ketone	40.0	5828	232977	40.0	
Methoxychlor	200.0	1884	0	200.9	0
				=====	=====
TCX	20.0	12542	252601	20.1	1
DCB	40.0	8014	318506	39.7	-1

Note: Ignored the area

### CONTINUE CALIBRATION METHOD 8080

L Jame : CKY Inc

Instrument ID : GC-3 HP-5890

GC Columm : DB608

Column size ID : 0.32MM X 30M

Mid Con Init LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 0 Mid Con Cont LFID & Datime: PF07-37 06-08-96 10:03:35 PF07-38 0

CONC UNIT : ppb

	CONC	AVERAGE	RESULT		9/00
COMPOUND	4.0X	CF	AREA	CONC	/%B&D
alpha-BHC	20.0	12040	0	22.6	13
gamma-BHC	20.0	l I	Ō	22.2	i .
beta-BHC	20.0	1			
Heptachlor	20.0	1 1		21.2	
delta-BHC	20.0	10158	222879		
Aldrin	20.0	10320	228024	22.1	
Heptachlor Epoxide	20.0	9068	195815	21.6	
gamma-Chlordane	20.0	9713	210189	21.6	
Endosulfan I	20.0	9300	0	22.2	11
alpha-Chlordane	20.0	9783	212389	21.7	
Dieldrin	40.0	8262	0	44.7	12
DDE	40.0	10100	448039	44.4	11
Endrin	40.0	6002	0	43.3	
r 'osulfan II	40.0	7038	305611	43.4	
	40.0	5744	0	44.1	10
Endrin Aldehyde	40.0		243719	43.4	
DDT	40.0	5751	0	42.4	
Endosulfan Sulfate	40.0		271677	42.7	7
Endrin Ketone	40.0		247412	42.4	
Methoxychlor	200.0		0	215.6	8
TCX	20.0	1	253515	20.2	1
DCB	40.0	8014	342318		7
	40.0	0014	J44318	42./	

Note: Ignored the area

### CONTINUE CALIBRATION METHOD 8080

Name : CKY Inc

Instrument ID : GC-3 HP-5890

GC Columm : DB608

Column size ID : 0.32MM X 30M

Mid Con Init LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 0 Mid Con Cont LFID & Datime: PF07-46 06-08-96 15:24:21 PF07-47 0

CONC UNIT : ppb

	CONC	AVERAGE	REST	JLT	%0
COMPOUND	4.0X	CF	AREA	CONC	1885D
alpha-BHC	20.0	1	0	24.4	1
gamma-BHC	20.0	<b>∤</b>		23.9	
beta-BHC	20.0				
Heptachlor	20.0			22.6	
delta-BHC	20.0		-		
Aldrin	20.0				
Heptachlor Epoxide	20.0			i	
gamma-Chlordane	20.0				
Endosulfan I	20.0	9300		23.8	
alpha-Chlordane	20.0	9783	231152		
Dieldrin	40.0	8262	0	48.3	
DDE	40.0	10100	478323		
Endrin	40.0	6002	0	47.4	19
dosulfan II	40.0		332079	47.2	18
	40.0			47.2	18
Ludrin Aldehyde	40.0		264135	47.0	18
DDT	40.0	4 1	0	45.2	13
Endosulfan Sulfate	40.0		294108	46.3	16
Endrin Ketone	40.0		268072	46.0	15
Methoxychlor	200.0		0	231.2	
TCX	20.0		266008	21.2	ł I
DCB	40.0	8014			1 1
	40.0	9014	366656	45.8	14

Note: Ignored the area. This was the last DCC on the sequence, so no corrective of action for %D out of control of +/-15%.

### DDT/Endrin Breakdown

Instrument ID: 石Cサ3

	File:	PF07-L	File: 6 = 07 - 2
	Col:	03608	Col: 031761
		%breakdown	%breakdown
DDT		5	2
Endrin		11	8

		File:	PF07-17	File:	QF07-17
		Col:	DB 608	Col:	DB1761
			%breakdown		%breakdown
	DT		5		2
Er	ndrin		13		10

	File: PF07-39	File: 0 F07-39
	Col: DD608	Col: DB176/
	%breakdown	%breakdown
DDT	5	2
Endrin	14	(0

ANALYSIS SEQUENCE AND EXTRACTION LOG

SEQUENCE FILE: PF07

SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1 PIBLK	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
2 PEM01	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
3 MIXA 16X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
4 MIXB 16X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
5 MIXA 8X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
6 MIXB 8X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
7 HIXA 4X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
8 MIXB 4X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
9 MIXA 2X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
10 MIXB 2X	SW1	PF07-	1.0000	, 1.0000	1.0000	1.0000
11 MIXA 1X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
12 MIXB 1X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
13 AR1660	PCB	PF07-	1.0000	1.0000	1.0000	1.0000
14 PIBLK02	SW1	PF07-	1.0000	1.0000	1.0000	1.000
15 DCCO1 MIXA 4X	SW1	PF07-	1.0000	1.0000	1.0000	1.000
16 DCCO1 MIXB 4X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
17 PEN02	SW1	PF07-	1.0000	1.0000	1.0000	1.000
18 CPF010SB	SW1	PF07-	1.0000	1.0000	1.0000	1.000
19 CPF010SL	SW1	PF07-	1.0000	1.0000	1.0000	1.000
20 96F013-02	SW1	PF07-	1.0000	1.0000	1.0000	1.000
21 96F013-02M	SW1	PF07-	1.0000	1.0000	1.0000	1.000
22 96F013-02S	SW1	PF07-	1.0000	1.0000	1.0000	1.000
23 96F019-01	SW1	PF07-	1.0000	1.0000	1.0000	1.000
24 96F019-02	SW1	PF07-	1.0000	1.0000	1.0000	1.000
25 96F019-03	SW1	PF07-	1.0000	1.0000	1.0000	1.000
26 96F019-04	SW1	PF07-	1.0000	1.0000	1.0000	1.000
27 96F019-05	SW1	PF07-	1.0000	1.0000	1.0000	1.000
28 96F019-06	SW1	PF07-	1.0000	1.0000	1.0000	1.000
<b>29 96F019-07</b>	SW1	PF07-	1.0000	1.0000	1.0000	1.000
30 96F019-08	SW1	PF07-	1.0000	1.0000	1.0000	1.000
31 96F019-09	SW1	PF07-	1.0000	1.0000	1.0000	1.000
32 96F019-10	SW1	PF07-	1.0000	1.0000	1.0000	1.000
33 96F019-11	SW1	PF07-	1.0000	1.0000	1.0000	1.000
34 96F019-12	SW1	PF07-	1.0000	1.0000	1.0000	1.000
35 96F019-13	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
36 PIBLK03	SW1	PF07-	1.0000	1.0000	1.0000	1.000
37 DCCO2 MIXA 4X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
38 DCCO2 HIXB 4X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
39 PEN03	SW1	PF07-	1.0000	1.0000	1.0000	1.000
40 96F019-14	SW1	PF07-	1.0000	1.0000	1.0000	1.000
41 96F019-15	SW1	PF07-	1.0000	1.0000	1.0000	1.000
42 96F019-16	SW1	PF07-	1.0000	1.0000	1.0000	1.000
43 96F019-17	SW1	PF07-	1.0000	1.0000	1.0000	1.000
44 96F019-18	SW1	PF07-	1.0000	1.0000	1.0000	1.000
45 PIBLK04	SW1	PF07-	1.0000	1.0000	1.0000	1.000
46 DCC03 MIXA 4X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
47 DCC03 HIXB 4X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
48 PEM04	SW1	PF07-	1.0000	1.0000	1.0000	1.0000

# CKY Analytical Laboratories Sample Preparation Department EXTRACTION LOG FOR PESTICIDES/PCBs

CKYT-E01-002

		,			CKY	<u>1 - EU1 - UU2</u>			102
CLIENT	CKY/	OHM				METHOD	8080	_ PAGE#	102
MATRIX		SOIL				DATE EXTRACTED	6/06/96	DATE COMPLETE	ED 6/06/96
	LAB	SAMPLE		EXTRACT			CLBAN-UP		CODE
SA	MPLE	AMOUNT	pli	VOLUME	CLBAN-UP	NOTES	GPC		G
CP FOIO	ID	(g/ml)		(ml)	(G/S/A/F)		TBA		S
CFOOG	-SB	~		10.0			ACID		Λ
	SL						FLORISIL		P .
96501	3-02	30.0							
	2M						REAGENT		LOT#
	2-5						Na2SO4	954491	/ 
	03	4			<u> </u>		CH2CL2	34079	
96F019	-01	3.0		}			HEXANE	962303	
	02								
	03		<u> </u>						
	04						STANDARDS	dl di	AMOUNT ADDED (ml)
	05						SPIKE ID	5100-01-0-26-02	0,5
	06						SURROGATE ID	\$100-01-0-35.0	2-0
	07								
	08								
	09						SDG #	EXTRA	ET LOCATION
	10	ı					٠,	GC-R1	~ <i>C</i> 3
	il .	·					COMMENTS:		
	12								
	13								
	14							1	
	10						PREPARED BY:	mus /	ml
	16						STD's ADDED BY:		<u>'</u> [
	Í						CHECKED BY:		
	id	4		$\overline{V}$					
	10			7			Extracts Received B	hu-	



# CKY incorporated Analytical Laboratories

Date: 06-20-1996 CKY Batch No.: 96F022

Attn: Missy Art

OHM

5335 TRIANGLE PARKWAY SUITE 450

NORCROSS GA 30092

Subject:

Laboratory Report
Project: 18319/CAMP LEJEUNE

Enclosed is the Laboratory report for samples received on 06/07/96. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include:

Sample ID	Control No.	Matrix	Analysis
CLJ100-CS-096 CLJ100-CS-097 CLJ100-CS-099 CLJ100-RB-606 CLJ100-FB-606 CLJ100-CS-100 CLJ100-CS-100DP	F022-01 F022-02 F022-04 F022-05 F022-06 F022-07 F022-08	Soil Soil Soil Water Water Soil Soil	EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080 EPA 8080

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D. Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.



### **CHAIN-OF-CUSTODY RECORD**

Form 0019 Field Technical Services Rev. 08/89

765.022

113

166598

											1 (7	0.0	<u> </u>	<u></u>		11				
0	.н. м.	ATERIALS	CORI	P. •		P.C	). BOX 551	• FINDLAY, OH 45839-0551	•	419	-423	-3526								
PROJECT NAME  PROJECT NAME  PROJECT LOCATION  Camp Lejeune, M.C.  PROJECT TELEPHONE NO.  (110) 451-2599  CLIENT'S REPRESENTATIVE  PROJECT MANAGER/SUPERVISOR  VANA MARS/JULY JIM/JULY / Alaw Whitt					NUMBER OF CONTAINERS	(INDI	LYSIS ICATE ARATE TAINE	S DESI	RED	400										
ITEM NO.	S	AMPLE UMBER		TIME	i	GRAB	•	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	ö		()		//		_				MARKS	<u>, , , , , , , , , , , , , , , , , , , </u>
	رواتها	-03-096	14	1937		X	ACC 1-12	tion Scripte from	1-803	X							<u>N</u>	ESA	Level	<u>C</u>
1 1		-65-097	J. !			X	Confirmat ADC 3	5-38 Salasell	1-809	X										
3	UN	5-C5-U98	16/1	1046		X	Confican	TWA Sample from	1-807	X										
4	itiw	-65-099	16/1	051		X	Confirma	To a Sample from	1-807	X										
		-RB-606	' / /			X	ß	WAS TE BLANK	1-12	X								······································		
П		0-FB-606	77		1	X		Flork	1-1L	X									$\bigvee$	
1 1		5-C5-100	II		ŀ	X	Confirm	37-38 Pise	1-807	X										
8,	17 W.	-cs-1202p	14/16	15.29		X	Torn -		1-867	X									$\bigvee$	
9	-																			
10									1					<u> </u>						
1	NUMBER	ITEM NUMBER		f		RANSI	FERS SHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REM	IARKS	iles	5	- 	+	To	CK	/ In	c. Rosulta
	1	1-8		Pioce	ч.	R.	Am	FED-EX 1207377850	6/6/16	700	] 4	13	hour	- .> 11	1A	. 181	<i>ושר!</i> 	ase The 1	Fac X	KUSVIIN
	2			()			,	FED-EX 1207377850	17/11	100 100	1									
	3							(			,				$\gamma l_{i}$	2.5				with you
	4 ~								1	,	SAM	PLEH'S	SIGNATU	/	Ju	504	<u>, f).</u>	11.	dr.m./	



### SAMPLE RECEIPT FORM

CONTROL NO.	96F022	1				DATE	00 07 00	
CLIENT	01+M	-				TIME	06-07-96	
PROJECT	CAMP LE JEUN	đ				] <del></del>	9:30 Am	
Project	Jenny co do "	<u></u>				RECIPIENT	I-PATEL	
SAMPLE TRANSPORT	TATION TO CKY LABO	RATORY:	BY	ON(DATE)	AT(TIME)	FROM(SITE/CO.)	COMMENTS	
PICKED-UP BY CKY								
DELIVERED BY CLIEN								
SHIPPED/AIRBILL NO	FEDER APTN:	1207377850	SECAIRBIL	<u>k</u>				
SAMPLE BATCH PAC	KAGING/SEALING UPO	ON RECEIPT:	INTACT	DAMAGED	SEALED	NOT SEALED	NO CONTAINER	
CONTAINER:	IN	ISIDE TEMPERATURE:	<b>3°</b> c	CUSTODY SEAL		LOCATION	NUMBER	
COOLER	PACKAGING	TYPE	SUFFICIENCY	INTACT	DAMAGED	FRONT CLOSUPE	2_	
BOX	INSULATION:		ou	NAME:	SEE CUL			
OTHER:	ICE/COOLANT:	ROGULAR		DATE:				
	PACKING MATERIAL:	BURBLEPAK	pp.	TIME:				
SAMPLE DOCUMENT	ATION/CHAIN-OF-C	USTODY(COC)	SEALED	ENCLOSED	HANDCARRIED	FAXED	MAILED	
SAMPLE LOG-IN:	· · · · · · · · · · · · · · · · · · ·	CRITERIA		COMMENTS		DISCREPA	VCV	
SAMPLE CUSTODY S	EAL	EVERY SAMPLE	NONE			DISCHEFAI	101	
CONTAINER TYPE/MA	TERIAL	APPROPRIATE	ou					
SAMPLE AMOUNT		ENOUGH						
SAMPLE PRESERVAT	ION/HOLDING TIME	SUFFICIENT						
HEADSPACE/BUBBLE	S	ZERO/NONE	10					
SAMPLE LABEL INFO	RMATION	SUFFICIENT						
CHAIN-OF-CUSTOD	Y INFORMATION	SUFFICIENT	) SEE BELO	7		/		
SAMPLE INFO.:	SAMPLE ID	DATE	TIME -	SIGNATURE	ANALYSES	PRESERVATIVE T	CONTAINER /	
INDIVIDUAL SAMPLE	CONTAINER:	NONE	SEALED PLASTIC	BAG	CAN		BUBBLEPAG	
SAMPLE NUMBER	CLIENT ID		DISCREPANCY			ACTION		
	CLJ100-RB-606	RETO WIS		ON LABEL		ACTION	***************************************	
·	CLJ 100-FB-606			J LABEZ				
• •	1			y same C				
••							/	
_						/		
			1					
		900 / 5 G	/					
CLIENT SERVICES CO	PY RECEIVED BY	Elivia 1	7	DATE		TIME		

# CORRECTIVE ACTION FORM (CKY Sample Receipt Discrepancy)

CENTRAL STANDENTE CHILDREN STANDS OF STANDS

GK,

Client	0HH - Camp 5	Lejeure_	
CKY Batch No.	96F022	0	
Control No.			
Method	8080		
Matrix	onl' + water		
1) Nature of Discrepancy:	;		
Release	2 g coc 1	166598	•
2) Corrective Action:			
3) Result of Corrective A	ction		
- Plse.	analyze all	Quiples	pr 8080, except
96 FO 2			
- TAT:	48 Hzs.		
Approved by: Cect	ia Chair Date:	6/11/R6	
4) Further Corrective Act	tion Taken? Yes	No	Date:
			Date:
Approved by:	Date:		

### LABORATORY REPORT FOR

OHM

18319/CAMP LEJEUNE

EPA 8080 PESTICIDES

SDG#: 96F022

**JUNE 20, 1996** 

#### **CASE NARRATIVE**

CLIENT:

OHM

PROJECT:

18319/CAMP LEJEUNE

SDG:

96F022

#### CHLORINATED PESTICIDES

Six (6) soil and two (2) water samples were received on 06/07/96 to be analyzed for Pesticide analysis in accordance with SW846.

#### I. Holding Time

All samples were extracted and analyzed within the holding time criteria.

#### II. Blank

All method blanks were free of contamination.

#### III. Matrix Spike/Matrix Spike Duplicate

All recoveries and RPDs of soil matrix were within the QC limits except RPD of 4,4-DDD. No corrective action since RPD of 4,4-DDD in LCS/LCSD was within limit. No MS/MSD required for rinsate and field blank samples.

#### IV. Lab Control Sample/Lab Control Duplicate

All results were within the control limits.

#### V. Surrogate Recovery

All surrogate recoveries were within the control limits.

#### VI. Instrument Performance and Calibration

An initial calibration was five-point and all RSDs were within the QC limits in a quantitation column. DB608 was used as the quantitation column. All continue calibrations were checked at 12 hour interval and all recoveries in the quantitation were within the QC limits. All DDT and Endrin breakdown were within QC limits. Only recovery of Heptachlor, DDT, and Methoxychlor in last calibration check for DB608 column in the sequence run were within the QC limits. However, according to the method there was no corrective actions required for recovery out of control in the last calibration check on the sequence run.

### VII. Sample Analysis

All sample analyses met the project specific QC requirements. All results were confirmed by the second column DB1701.

SAMPLE RESULTS

DATE COLLECTED:
DATE RECEIVED:
DATE EXTRACTED:
DATE ANALYZED: LIENT: OHM 06/06/96 PROJECT: 18319/CAMP LEJEUNE
BATCH NO.: 96F022
SAMPLE ID: CLJ100-CS-096
CONTROL NO.: F022-01
% MOISTURE: 11.7 06/07/96 06/09/96 06/10/96 MATRIX: SOIL DILUTION FACTOR: 1 RESULTS **PARAMETERS** (ug/kg) (ug/kg) 19.3 Aldrin ND 11.3 22.7 28.3 19.3 113 alpha-BHC ND beta-BHC ND delta-BHC ND gamma-BHC (Lindane) NDalpha-Chlordane gamma-Chlordane ND ND113 113 113 22.7 19.3 227 22.7 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin ND ND NDND Endosulfan I Endosulfan II Endosulfan Sulfate ND ND ND Endrin 113 ND11.3 Endrin aldehyde Heptachlor ND ND Heptachlor Epoxide 566 ND 1130 2270 Methoxychlor ND Toxaphene ND SURROGATE PARAMETER % RECOVERY QC LIMIT _ _ _ _ _ _ _ -- ----Tetrachloro-m-xylene 86 20-150

98

20-150

RL: Reporting Limit

Decachlorobiphenyl

LIENT: OHM
PROJECT: 18319/CAMP LEJEUNE
BATCH NO.: 96F022
SAMPLE ID: CLJ100-CS-097
CONTROL NO.: F022-02
% MOISTURE: 12.4 DATE COLLECTED: 00
DATE RECEIVED: 00
DATE EXTRACTED: 00
DATE ANALYZED: 00
MATRIX: SO
DILUTION FACTOR: 1 06/06/96 06/07/96 06/09/96 06/10/96 SOIL 

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Dieldrin Endosulfan I. Endosulfan Sulfate Endrin Endrin aldehyde Heptachlor Heptachlor Toxaphene		19.4 11.4 22.8 28.5 19.4 114 114 114 21.8 19.28 19.28 19.28 11.4 229.1 11.4 229.1 12.8 11.4 229.1 120.28
GURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 88 103	QC LIMIT  20-150 20-150
	=======================================	=======================================

CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F022 SAMPLE ID: CLJ100-CS-099 CONTROL NO.: F022-04 % MOISTURE: 12.3	DATE COLL DATE RECE DATE EXTR DATE ANAL MATRIX: DILUTION	IVED: 06/07/96 ACTED: 06/09/96 YZED: 06/10/96 SOIL
PARAMETERS	REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNING I REUNIN	RL (ug/kg)  19.4 11.4 22.8 28.5 19.4 114 114 114 22.8 19.4 22.8 11.4 11.4 22.8 11.4 22.8 11.4 22.8
SURROGATE PARAMETER	% RECOVERY	QC LIMIT

84 107

20-150 20-150

RL: Reporting Limit

Tetrachloro-m-xylene Decachlorobiphenyl

=======================================			=======
LIENT:	OHM	DATE COLLECTED:	06/06/96
PROJECT:	18319/CAMP LEJEUNE	DATE RECEIVED:	06/07/96
BATCH NO.:	96F022	DATE EXTRACTED:	06/09/96
SAMPLE ID:	CLJ100-CS-100	DATE ANALYZED:	06/10/96
CONTROL NO.:	F022-07	MATRIX:	SOIL
% MOISTURE:	14.8	DILUTION FACTOR:	1

PARAMETERS	RESULTS (ug/kg) 311 310 310 310 310 310 310 310 310 310	RL (ug/kg) 
NURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY 94 105	QC LIMIT 20-150 20-150

LIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F022 SAMPLE ID: CLJ100-CS-100DP CONTROL NO.: F022-08 MOISTURE: 14.9	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/07/96 RACTED: 06/09/96 LYZED: 06/10/96 SOIL
PARAMETERS	RESUNATION TO THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF THE SUNATION OF	RL (ug/kg)  20 11.8 23.5 29.4 20 118 118 118 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5
Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY  82 104	QC LIMIT  20-150 20-150

	=======================================	=========
LIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F022 SAMPLE ID: MBLK1S CONTROL NO.: CPF011SB MOISTURE: NA	DATE COLI DATE RECE DATE EXTR DATE ANAL MATRIX: DILUTION	ZIVED: NA PACTED: 06/09/96 PYZED: 06/10/96 SOIL
PARAMETERS	RESULTS (ug/kg) ND ND ND ND ND ND ND ND ND ND ND ND ND	RL (ug/kg) 

#### CKY QUALITY CONTROL DATA MS/MSD ANALYSIS

CI ----T:

18319/CAMP LEJEUNE EPA 8080

J: MATRIX: % MOISTURE:

۲:

SOIL 11.7

BATCH NO.: SAMPLE ID: 96F022

CLJ100-CS-096

DATE RECEIVED: 06/07/96

CONTROL NO.:

F022-01

DATE EXTRACTED: 06/09/96 DATE ANALYZED: 06/10/96

ACCESSION:

96F022

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT	RPD LIMIT
Aldrin	ND	189.00	157.00	83	189.00	189.00	100	18	20-170	50
alpha-Chlordane	ND	189.00	224.00	119	189.00	178.00	94	23	20-170	50
gamma-Chlordane	ND	189.00	225.00	119	189.00	157.00	83	35	20-170	50
4,4'-DDD	DM	377.00	600.00	159	377.00	316.00	84	62*	20-170	50
4,4'-DDT	ND	377.00	448.00	119	377.00	381.00	101	16	20-170	50
Dieldrin	ND	377.00	389.00	103	377.00	327.00	87	18	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT
Tetrachloro-m-xylene	151.00	143.00	95	151.00	128.00	85	<b>20-</b> 150
Decachlorobiphenyl	151.00	153.00	102	151.00	147.00	98	20-150

^{*} Out of QC limit.

#### CKY QUALITY CONTROL DATA LCS/LCD ANALYSIS

18319/CAMP LEJEUNE

**)**:

EPA 8080

MATRIX:

SOIL NA

% MOISTURE:

CONTROL NO.:

BATCH NO.: 96F022
SAMPLE ID: LCS1S/LCS1SD
CONTROL NO.: CPE011SL/C

CPF011SL/C

DATE RECEIVED: NA

DATE EXTRACTED: 06/09/96

DATE ANALYZED: 06/10/96

ACCESSION:

96F022

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD %	QC LIMIT	RPD LIMIT
Aldrin	ND	167.00	155.00	93	167.00	160.00	96	3	47-116	75
alpha-Chlordane	. ND	167.00	150.00	90	167.00	149.00	89	1	45-119	75
gamma-Chlordane	ND	167.00	125.00	<i>7</i> 5	167.00	129.00	77	3	45-119	75
4,41-DDD	ND	333.00	259.00	78	333.00	261.00	78	1	48-136	75
4,41-DDT	ND	333.00	309.00	93	333.00	311.00	93	1	34-143	75
Dieldrin	ND	333.00	262.00	79	333.00	267.00	80	2	42-132	75

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT
Tetrachioro-m-xylene	133.00	111.00	83	133.00	110.00	83	20-150
Decachlorobiphenyl	133.00	133.00	100	133.00	127.00	96	20-150

**************************************		
CLIENT: OHM  ROJECT: 18319/CAMP LEJEUNE  BATCH NO.: 96F022  SAMPLE ID: CLJ100-RB-606  CONTROL NO.: F022-05  MOISTURE: NA	DATE COL DATE REC DATE EXT DATE ANA MATRIX: DILUTION	EIVED: 06/07/96 RACTED: 06/11/96 LYZED: 06/12/96 WATER
PARAMETERS	REUULINGE PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PERENTEN PE	RL (ug/L) .04 .03 .05 .04 .14 .04 .14 .04 .01 .01 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05
TRROGATE PARAMETER _strachloro-m-xylene Decachlorobiphenyl	% RECOVERY 83 106	QC LIMIT 30-150 24-154

==========			
CLIENT: PROJECT: BATCH NO.: SAMPLE ID: CONTROL NO.: MOISTURE:	OHM 18319/CAMP LEJEUNE 96F022 CLJ100-FB-606 F022-06 NA	DATE COLLECTED: DATE RECEIVED: DATE EXTRACTED: DATE ANALYZED: MATRIX: DILUTION FACTOR:	06/06/96 06/07/96 06/11/96 06/12/96 WATER 1
			=======

PARAMETERS	RESULTS (ug/L) NDD NDD NDD NDD NDD NDD NDD NDD NDD ND	RL (ug/L) .03 .05 .05 .04 .14 .04 .14 .04 .04 .05 .05 .05 .05 .05 .05
SURROGATE PARAMETER Tetrachloro-m-xylene Decachlorobiphenyl	% RECOVERY  100 109	QC LIMIT 30-150 24-154

CLIENT: OHM	=======================================	=======================================
CLIENT: OHM PROJECT: 18319/CAMP LEJEUNE BATCH NO.: 96F022 SAMPLE ID: MBLK1W CONTROL NO.: CPF012WB	DATE REC	LLECTED: NA CEIVED: NA FRACTED: 06/11/96 ALYZED: 06/12/96 WATER
% MOISTURE: NA		VALER V FACTOR: 1
PARAMETERS	TS LI BU BU BU BU BU BU BU BU BU BU	RL (ug/L) .04 .03 .05 .05 .04 .14 .14 .04 .12 .14 .04 .01 .03 .05 .05 .05
URROGATE PARAMETER	% RECOVERY	QC LIMIT
l'etrachloro-m-xylene Decachlorobiphenyl	94 116	30-150 24-154

#### CKY QUALITY CONTROL DATA LCS/LCD ANALYSIS

CLITHT:

OHM

T:

18319/CAMP LEJEUNE

MATRIX:

EPA 8080 WATER

% MOISTURE:

BATCH NO.: SAMPLE ID: 96F022

DATE RECEIVED: NA DATE EXTRACTED: 06/11/96

CONTROL NO.:

LCS1W/LCS1WD CPF012WL/C

DATE ANALYZED: 06/12/96

ACCESSION:

96F022

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD %	QC LIMIT	RPD LIMIT
Aldrin	ND	.50	.55	110	.50	.57	114	4	47-116	50
alpha-Chlordane	ND	.50	.564	113	٠ .50	.55	110	3	45-119	50
gamma-Chlordane	ND	.50	.525	105	.50	.50	100	5	45-119	50
4,41-DDD	ND	1.00	1.09	109	1.00	1.03	103	6	48-136	50
4,41-DDT	ND	1.00	1.16	116	1.00	1.09	109	6	34-143	50
Dieldrin	ND	1.00	1.00	100	1.00	.98	98	2	42-132	50

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT
Tetrachloro-m-xylene	.20	.175	88	.20	.189	94	30-150
Decachlorobiphenyl	.20	.219	110	.20	.221	110	24-154

**CALIBRATION** 

Name : CKY Inc., trument ID : GC3
GC Column : DB608

Column size ID: 0.32 (mm)

LFID & Datime: PF07-3 06-07-96 13:44:42 PF07-4 0 06-07-96 14:20:21 LFID & Datime: PF07-5 06-07-96 14:56:00 PF07-6 0 06-07-96 15:31:41 LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 0 06-07-96 16:42:58 LFID & Datime: PF07-9 06-07-96 17:18:36 PF07-10 0 06-07-96 17:54:16 LFID & Datime: PF07-11 06-07-96 18:29:56 PF07-12 0 06-07-96 19:05:49

CONC UNIT: ppb

	CONC	CAI	IBRATIO	ON FACTO	ORS (AI	REA/UNIT	[]	-
COMPOUND	X	1.0X	2.0X	4.0X	8.0X	16.0X	MEAN	%RSD
alpha-BHC	5.0	12937	12542	11926	11862	10930	12040	6
gamma-BHC	5.0	11827	11233	10481	10244	9267	10611	9
beta-BHC	5.0	5460	5141	4815	4599	4018	4807	11
Heptachlor	5.0	11231	10380	9353	8818	7705	9497	14
delta-BHC	5.0	10929	10422	10089	10039	9310	10158	6
Aldrin	5.0	11564	10815	10274	9914	9031	10320	9
Heptachlor Epoxide	5.0	10732	9815	9053	8310	7429	9068	14
gamma-Chlordane	5.0	11302	10358	9655	9002	8247	9713	12
Endosulfan I	5.0	10920	10092	9180	8703	7606	9300	14
alpha-Chlordane	5.0	11273	10421	9761	9095	8367	9783	12
Dieldrin	10.0	9615	8922	8148	7792	6834	8262	13
DE	10.0	11053	10465	10138	9805	9036	10100	7
drin	10.0	7179	6577	5906	5522	4827	6002	15
_ndosulfan II	10.0	8586	7719	7030	6256	5598	7038	17
DDD	10.0	6714	6196	5675	5420	4716	5744	13
Endrin Aldehyde	10.0	6754	6107	5610	4993	4616	5616	15
DDT	10.0	6639	6218	5683	5437	4779	5751	12
Endosulfan Sulfate	10.0	7810	6922	6324	5647	5088	6358	17
Endrin Ketone	10.0	7096	6418	5844	5209	4576	5828	17
Methoxychlor	50.0	2339	2150	1854	1687	1389	1884	20
	=====	=====	=====	=====	=====	======	=====	=====
TCX	5.0	14220	13263	12586	11824	10820	12542	10
DCB	10.0	9305	8572	8121	7303	6770	8014	13
	l			l				

Name : CKY Inc Instrument ID : GC3 GC Columm : DB608

Column size ID: 0.32 (mm)

LFID & Datime: PF07-3 06-07-96 13:44:42 PF07-4 0 LFID & Datime: PF07-5 06-07-96 14:56:00 PF07-6 06-07-96 16:07:20 PF07-7 0 LFID & Datime: PF07-8 LFID & Datime: PF07-9 06-07-96 17:18:36 PF07-10 0 LFID & PF07-11 06-07-96 18:29:56 PF07-12 Datime:

	R7	C OF ST	randari	OS (M	IN)	MEAN	RT W	INDOW
COMPOUND	1.0X	2.0X	1	8.0X	16.0X		FROM	TO
	=====	=====	=====	=====	====	=====	====	=====
alpha-BHC	8.28		8.27			8.28	8.23	
gamma-BHC		9.74		9.74		9.74		
beta-BHC		10.04		10.04				10.09
Heptachlor		10.96		10.96			10.91	
delta-BHC		11.44		11.44				
Aldrin		12.21		12.21				
Heptachlor Epoxide		14.43		14.43				
gamma-Chlordane		15.06		15.08				
Endosulfan I		15.80		15.80				
alpha-Chlordane		15.71		15.71			15.62	1
Dieldrin		17.02		17.02			16.91	
DDE		16.78	l	16.80	l .		l	
'¬ndrin	18.45	18.44		18.44				
dosulfan II		19.17		19.17				
ממעיי		18.99		18.99				
Endrin Aldehyde		20.47		20.47			20.38	
DDT	20.16	20.14		20.16			20.05	20.25
Endosulfan Sulfate		20.96		20.96				21.06
Endrin Ketone	23.93	23.93	23.93	23.95	23.95	23.94	23.84	24.04
Methoxychlor	23.60	23.60	23.60	23.60	23.60	23.60	23.50	23.70
	1	=====	l .	=====	4	l	i	}
TCX	5.86	l i	1	1	5.88	t .	•	1
DCB	28.32	28.32	28.32	28.32	28.34	28.33	28.23	28.43
	l	<u></u>						

Name : CKY Inc
Instrument ID : GC3
GC Column : DB1701
Column size ID: 0.32 (mm)

Datime: QF07-3 06-07-96 LFID & 0 06-07-96 13:44:42 QF07-4 14:20:21 LFID & Datime: QF07-5 06-07-96 14:56:00 QF07-6 0 06-07-96 15:31:41 LFID & Datime: QF07-7 06-07-96 16:07:20 QF07-8 0 06-07-96 16:42:58 0 06-07-96 LFID & Datime: QF07-9 06-07-96 17:18:36 QF07-10 17:54:16 LFID & Datime: QF07-11 06-07-96 18:29:56 QF07-12 0 06-07-96 19:05:49

CONC UNIT: ppb

	CONC	CAI	LIBRATIO	ON FACTO	DRS (AI	REA/UNIT	[]	
COMPOUND	Х	1.0X	2.0X	4.0X	8.0X	16.0X	MEAN	%RSD
			======	=====	25222	=====	======	=====
alpha-BHC	5.0	8766	8869	9008	9576	9298	9103	4
gamma-BHC	5.0	8416	8444	8444	8832	8387	8505	2
beta-BHC	5.0	4290	4133	4014	4056	3622	4023	6
Heptachlor	5.0	7842	7550	7147	7086	6429	7211	7
delta-BHC	5.0	7281	7248	7448		7624	7481	3
Aldrin	5.0	8578	8338	8409	8797	8364	8497	2
Heptachlor Epoxide	5.0	8164	7770	7592	7567	6964	7611	6
gamma-Chlordane	5.0	8521	8105	7975		7480	8021	5
Endosulfan I	5.0	8179	7903	7589	7665	7081	7683	5
alpha-Chlordane	5.0	8449	8050	7939		7496	7972	4
'eldrin	10.0	7719	7654	7500	7598	6928	7480	4
E	10.0	7847	7819	8114	8248	7986	8003	2
Endrin	10.0	5850	5736	5503	5562	5085	5547	5
Endosulfan II	10.0	6618	6291	6090	5822	5348	6034	8
DDD	10.0	5412	5327	5214	5338	4824	5223	4
Endrin Aldehyde	10.0	4476	4585	4864	5054	5011	4798	5
DDT	10.0	4724	4693	4547	4617	4183	4553	5
Endosulfan Sulfate	10.0	6013	5670	5443	5157	4793	5415	9
Endrin Ketone	10.0	5979	5690	5452	5083	4595	5360	10
Methoxychlor	50.0	2100	2004	1833	1741	1533	1842	12
	======		======	======		======	======	~=====
TCX	5.0	9368	9242	9354	9085	8658	9141	3
DCB	10.0	7106	6788	6687	6286	6103	6594	6

Name : CKY Inc

Instrument ID : GC3
GC Columm : DB1701
Column size ID: 0.32 (mm)

QF07-3 LFID & Datime: 06-07-96 13:44:42 QF07-4 QF07-5 QF07-6 0 LFID & Datime: 06-07-96 14:56:00 LFID & Datime: QF07-7 06-07-96 16:07:20 QF07-8 0 06-07-96 17:18:36 QF07-10 0 LFID & Datime: QF07-9 LFID & Datime: QF07-11 06-07-96 18:29:56 QF07-12

	R	r of s	randari		IN)	MEAN	RT W	INDOW
COMPOUND	1.0X		į.	8.0X	1	i .	FROM	i
	=====		1	=====	=====	====	=====	=====
alpha-BHC	4.88	4.88		4.88	4.88	4.87	4.82	
gamma-BHC	5.91	5.90			l .	5.90		
beta-BHC	8.17	8.17			8.17	8.17		
Heptachlor	6.46	6.46			6.46	6.46	6.41	6.51
delta-BHC	8.80	8.80	8.80		8.80	8.80	8.75	8.85
Aldrin	7.20				7.20			7.24
Heptachlor Epoxide	9.35	9.34	9.34	9.35	9.35	9.35	9.30	9.40
gamma-Chlordane	10.39			10.39			10.29	
Endosulfan I	10.15	10.15	10.14	10.15	10.15	10.15	10.05	10.25
alpha-Chlordane	10.65	10.65	10.65	10.65	10.65	10.65	10.55	10.75
Dieldrin	11.37						11.26	
DDE	11.02	11.02	11.02	11.02	11.04	11.03	10.93	11.13
-ndrin	12.02	12.01	12.01	12.01	12.01	12.01	11.91	12.11
dosulfan II	13.68			13.68			13.58	
מסט	13.68			13.66			13.56	
Endrin Aldehyde	15.06	15.06	15.06	15.06	15.06	15.06	14.96	15.16
DDT	14.23						14.13	
Endosulfan Sulfate	16.18	16.18	16.18	16.18	16.20	16.19	16.09	16.29
Endrin Ketone	17.40	17.40	17.40	17.40	17.40	17.40	17.30	17.50
Methoxychlor	16.57	16.55	16.55	16.55	16.55	16.55	16.45	16.65
	=====	1	1			}		1
TCX	3.01	t .	1				l .	1 1
DCB	20.88	20.88	20.88	20.88	20.88	20.88	20.77	20.98
	1	l		l		l		

#### DDT/ENDRIN BREAKDOWN

INSTRUMENT ID:

_GC-3_

	File: PF10-4	File: QF10-4
	Col.: DB608	Col.: DB1701
	% Breakdown	% Breakdown
DDT	5	4
Endrin	12	9

	File: PF12-4	File: QF12-4
	Col.: DB608	Col.: DB1701
	% Breakdown	% Breakdown
DDT	8	2
Endrin	14.9	12

J Name : CKY Inc

: GC-3 HP-5890
GC Columm : DB608/DB1701
Column size ID : 0.32MM X 30M

Mid Con Init LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 0 Mid Con Cont LFID & Datime: PF10-2 06-10-96 12:07:47 PF10-3 0

CONC UNIT : ppb

	CONC	AVERAGE	RESU	JLT	T
COMPOUND	4.0X	CF	AREA	CONC	%D
alpha-BHC	20.0	12040	0	20.0	-0
gamma-BHC_	20.0		o o	19.7	
beta-BHC	20.0		97818		
Heptachlor	20.0		0	20.2	
delta-BHC	20.0	10158	192263		
Aldrin	20.0	10320			
Heptachlor Epoxide	20.0	9068	199140		
gamma-Chlordane	20.0	9713	206513		
Endosulfan I	20.0	9300	0	19.9	-1
alpha-Chlordane	20.0	9783	219508	22.4	12
Dieldrin	40.0	8262	0	39.3	-2
DDE	40.0	10100	451148	44.7	12
Endrin	40.0		0	39.9	-0
Endosulfan II	40.0		291460	41.4	4
מכיז	40.0		0	40.1	0
rin Aldehyde	40.0	5616	226961	40.4	1 -1
νυ f	40.0	5751	0	39.8	-1
Endosulfan Sulfate	40.0		255229	40.1	
Endrin Ketone	40.0		236656	40.6	
Methoxychlor	200.0	1884	0	196.5	-2
TCX	20.0	12542	254147	20.3	1
DCB	40.0	8014	324843	40.5	1
			324043	40.5	1

Note: Ignored the area

FORM VII PC

Name

CONC UNIT : ppb

	CONC	AVERAGE	REST	JLT	1/0
COMPOUND	4.0X	CF	AREA	CONC	%Ř8D
	======	======	======	=====	=====
alpha-BHC	_ 20.0			24.5	
gamma-BHC	20.0			24.2	
beta-BHC	20.0				
Heptachlor	_ 20.0			21.6	
delta-BHC	20.0				
Aldrin	_ 20.0	3			22
Heptachlor Epoxide	_  20.0			23.6	18
gamma-Chlordane	_ 20.0				
Endosulfan I	_ 20.0	9300	0	23.9	20
alpha-Chlordane	_ 20.0	9783	232567	23.8	19
Dieldrin	40.0	8262	0	47.6	19
DDE	40.0	10100	458326	45.4	
Endrin	40.0	6002	0	47.3	18
Endosulfan II	40.0	7038	338534	48.1	20
<b>n</b>	40.0	5744	0	46.5	
rin Aldehyde	40.0	5616	268840	47.9	
$\Gamma$ עט $\Gamma$	40.0	5751	0	42.0	
Endosulfan Sulfate	40.0	6358	293996		
Endrin Ketone	40.0	5828	264837		
Methoxychlor	200.0	1884	0	211.2	6
	= ======	1		=====	=====
TCX	_ 20.0	12542	258226	20.6	3
DCB	40.0	8014	339242	42.3	6
	_				l

Note: Ignored the area. This was the last DCC on the sequence, so no corrective of action for %D out of control of  $\pm/-15$ %.

1 Name

: CKY Inc : GC-3 HP-5890 Instrument ID

: DB608 GC Column

: 0.32MM X 30M Column size ID

Mid Con Init LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 Mid Con Cont LFID & Datime: PF12-2 06-12-96 11:18:00 PF12-3

CONC UNIT : ppb

	CONC	AVERAGE	RESU	JLT	
COMPOUND	4.0X	CF	AREA	CONC	%D
alpha-BHC	20.0	1	0	20.9	4
gamma-BHC	20.0	10611	0	20.4	2
beta-BHC	20.0	4807	100593	20.9	5
Heptachlor	20.0	9497	0	20.3	1
delta-BHC	20.0	10158	209619	20.6	2 5 1 3 7
Aldrin	20.0	10320	221180	21.4	
Heptachlor Epoxide	20.0	9068	187819	20.7	
gamma-Chlordane	20.0	9713	207550	21.4	
Endosulfan I	20.0	9300	0	21.4	
alpha-Chlordane	20.0	9783	210468	21.5	8
Dieldrin	40.0	8262	0	40.7	
DDE	40.0		415962		3
Endrin	40.0		0	39.4	<del>-</del> 2
r dosulfan II	40.0				3
	40.0	5744			
Endrin Aldehyde	40.0	5616	219943		-2
DDT	40.0	5751		36.5	
Endosulfan Sulfate	40.0				
Endrin Ketone	40.0		226470		-3
Methoxychlor	200.0	l .	0	176.2	-12
TCX	20.0	12542	257018	20.5	2
DCB	40.0			39.2	

Note: Ignored the area.

Name : CKY Inc listrument ID : GC3 GC Columm : DB608 Column size ID : 0.32 (MM)

Mid Con Init LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 0 Mid Con Cont LFID & Datime: PF12-20 06-12-96 22:00:05 PF12-21 0

CONC UNIT : ppb

	CONC	AVERAGE	RES	ULT	
COMPOUND	4.0X	CF	AREA	CONC	%RSD
	=====			=====	=====
alpha-BHC	20.0			24.8	24
gamma-BHC	20.0		0	24.3	21
beta-BHC	20.0				
Heptachlor	20.0	9497	0	22.7	
delta-BHC	20.0	10158	245792		
Aldrin	20.0	10320	251921		
Heptachlor Epoxide	20.0	9068	215771		
gamma-Chlordane	20.0	9713			
Endosulfan I	20.0				
alpha-Chlordane					
Dieldrin	40.0	8262	0	48.8	22
DDE	40.0		462042		
Endrin	40.0		0	48.1	
T-dosulfan II	40.0		338498		
	40.0				
Ldrin Aldehyde	40.0				
DDT	40.0			42.7	
Endosulfan Sulfate	40.0		-		
Endrin Ketone	40.0				
Methoxychlor	200.0		203373	211.5	6
#====#################################	======		======	Z11.5	======
TCX	20.0				
DCB	40.0	8014	337843	42.2	
		0014	33,043	42.2	5
	l				

Note: Ignored the area. This was the last DDC on the sequence, so no corrective of action for %D out of control of +/- 15%.

F Name : CKY Inc

i rument ID : GC-3 HP-5890 GC Column : DB608/DB1701 Column size ID : 0.32MM X 30M

Mid Con Init LFID & Datime: QF07-7 06-07-96 16:07:20 QF07-8 0 Mid Con Cont LFID & Datime: QF10-2 06-10-96 12:07:47 QF10-3 0

CONC UNIT : ppb

	CONC	AVERAGE	REST	JLT	T
COMPOUND	4.0X	CF	AREA	CONC	%D
	======	======	======		=====
alpha-BHC	20.0	9103	0	19.4	I
gamma-BHC	20.0	8505		19.3	
beta-BHC	20.0	4023		1	0
Heptachlor	20.0			19.9	1 1
delta-BHC	20.0				
Aldrin	20.0				
Heptachlor Epoxide	20.0			20.1	1
gamma-Chlordane	20.0	8021	160653	20.0	
Endosulfan I	20.0	7683	0	19.3	-3
alpha-Chlordane	20.0	7972	161313	20.2	1
Dieldrin	40.0	7480	0	39.3	-2
DDE	40.0	8003	347092	43.4	1 -2 8 -3 5
Endrin	40.0	5547	0	38.9	-3
Endosulfan II	40.0	6034	254313	42.1	5
- 7	40.0	5223	0	39.8	
rin Aldehyde	40.0	4798	211075	44.0	10
דעם	40.0	4553		39.3	-2
Endosulfan Sulfate	40.0	5415	233557		8
Endrin Ketone	40.0		220515		3
Methoxychlor_	200.0	1842	0	191.3	8 3 -4
	=====	======	======	=====	======
TCX	20.0		187572	20.5	3
DCB	40.0	6594	268601	40.7	2
	l				

Note: Ignored the area.

Name : CKY Inc

Mid Con Init LFID & Datime: QF07-7 06-07-96 16:07:20 QF07-8 0 Mid Con Cont LFID & Datime: QF10-17 06-10-96 21:03:16 QF10-18 0

CONC UNIT : ppb

	CONC	AVERAGE	REST	JLT	%0
COMPOUND	4.0X	CF	AREA	CONC	%BSD
alpha-BHC	20.0		======	=====	=====
	20.0	9103	0	22.5	12
gamma-BHC_	20.0	1		22.8	
beta-BHC	20.0				
Heptachlor	20.0		0	22.5	I I
delta-BHC	20.0				
Aldrin	20.0			,	12
Heptachlor Epoxide	20.0		172426	22.7	13
gamma-Chlordane	20.0		182145	22.7	14
Endosulfan I	20.0	7683	0	22.3	12
alpha-Chlordane	20.0	7972	179119	22.5	12
Dieldrin	40.0	7480	0	45.8	
DDE	40.0	8003	354292	44.3	
Endrin	40.0	5547	0	47.0	
Endosulfan II	40.0	6034	279532		1 - 1
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	40.0	5223	0	47.1	
rin Aldehyde	40.0	4798	230172		1
DUT	40.0			43.3	
Endosulfan Sulfate	40.0		248305		
Endrin Ketone	40.0		248349		
Methoxychlor	200.0	1842	0	221.1	11
		======	======	=====	======
TCX	20.0	9141	190935	20.9	4
DCB	40.0	6594	276158		5

Note: Ignored the area. This was the last DCC on the sequence, so no corrective of action for %D out of control of +/- 15%.

L Name : CKY Inc

Instrument ID : GC-3 HP-5890

GC Column : DB1701

Column size ID : 0.32MM X 30M

Mid Con Init LFID & Datime: QF07-7 06-07-96 16:07:20 QF07-8 0 Mid Con Cont LFID & Datime: QF12-2 06-12-96 11:18:00 QF12-3 0

CONC UNIT : ppb

	CONC	AVERAGE	RESU	JLT	
COMPOUND	4.0X	CF	AREA	CONC	%RSD
	======	======	======	=====	
alpha-BHC	20.0	9103	0	19.5	
gamma-BHC	20.0	8505	0	19.2	
beta-BHC	20.0				
Heptachlor	20.0	7211		19.0	
delta-BHC	20.0	7481			
Aldrin	20.0	8497	179451		
Heptachlor Epoxide	20.0	7611	154514		2
gamma-Chlordane	20.0	8021	169753		6
Endosulfan I	20.0	7683		19.5	-3
alpha-Chlordane	20.0	7972	171165		· ·
Dieldrin	40.0	7480			
DDE	40.0	8003	338375		
Endrin	40.0	5547		36.5	-9
osulfan II	40.0	6034	241464	40.0	
	40.0	5223	0	41.8	
Endrin Aldehyde	40.0	4798	191524		
DDT	40.0	4553		1	
Endosulfan Sulfate	40.0				
Endrin Ketone	40.0	5360	197892		
Methoxychlor	200.0		0	164.1	i
	1	9141	192736	i	i
TCX	20.0	1	Į.	1	
DCB	40.0	6594	261250	39.6	
		I	l		1

^{*} Out of control limit of +/- 15%

Note: Ignored the area.

Name : CKY Inc

Instrument ID : GC3
GC Columm : DB1701
Column size ID : 0.32 (MM)

Mid Con Init LFID & Datime: QF07-7 06-07-96 16:07:20 QF07-8 0 Mid Con Cont LFID & Datime: QF12-20 06-12-96 22:00:05 QF12-21 0

CONC UNIT : ppb

	CONC	AVERAGE	REST	JLT	
COMPOUND	4.0X	CF	AREA	CONC	%D
	=====		======	======	=====
alpha-BHC	20.0		· ·	23.5	17
gaillia Brc	20.0		0	23.6	18
beta-BHC	20.0	4023	93682	23.3	16
Heptachlor	20.0	· 7211	0	23.1	16
delta-BHC	20.0	7481	175689		
Aldrin	20.0	8497	195464		1
Heptachlor Epoxide	20.0	7611	176656		
gamma-Chlordane	20.0	8021			
Endosulian 1	20.0	7683		1	
alpha-Chlordane	20.0	7972	188499		
Dieldrin	40.0	7480	0	48.1	
DDE	40.0	8003	359075		
Endrin	40.0	5547		48.3	
dosulfan II	40.0	6034	290469		
r	40.0	5223	0	50.5	
Ludrin Aldehyde	40.0	4798	231892		
DDT	40.0	4553		43.4	
Endosulfan Sulfate	40.0	5415	250941		
Endrin Ketone	40.0				
Methoxychlor	200.0		0	217.6	
=======================================	1	======	======		======
TCX	20.0	9141	193742	21.2	6
DCB	40.0	6594	277947	42.2	5
	I				

Note: Ignored the area. This was the last DDC on the sequence, so no corrective of action for %D out of control of +/- 15%.

ANALYSIS SEQUENCE AND EXTRACTION LOG

Areas, times, and heights stored in: E:QF10-17.ATB SEQUENCE RECORDED IN F:\PF10.SEQ

SEQUENCE FILE: F:\PF10.SEQ

SAMPLE MANE	HETHOD MANE	DATA FILE	AHOUNT INJECTED	INT.STD.	DILUTION FACTOR	SAMPLE WEIGHT
1 PIBLK01	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
2 BCC01 MIXA 4X	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
3 DECO1 HIXB 4X	SW1	PF10-	1.0000	1.0000	- 1.0000	1.0000
4. PEHO1	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
5 CPF011SB	SU1	PF10-	1.0000	1.0000	1.0000	1.0000
6 CPF011SL	SN1	PF10-	1.0000	1.0000	1.0000	1.0000
7 CPF011SC	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
8 96F022-01	SN1	PF10-	1.0000	1.0000	1.0000	1.0000
9* 96F022- 01N	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
10 96F022-019	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
11 96F022-02	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
12 96F022-03	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
13 96F022-04	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
14 96F022-07	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
15 96F022-08	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
16 PIBLK02	SW1	PF10-	1.0000	1.0000	£.0000	1.0000
17 DCC02 HIXA 4X	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
18 DCCO2 MIXB 4X	SW1	PF10-	1.0000	1.0000	1.0000	1.0000

104

CKY Analyti aboratories
Sample Preparation Department

EXTRACTION LOG FOR PESTICIDES/PCBs

CKYT-E01-002

	OHM			метнор	8000	PAGE #	104
MATRIX	501L		<u>-</u>	DATE EXTRACTED	6/9/96	DATE COMPLETED 6/	9/96
1_AB	SAMPLE	EXTRACT			CLBAN-UP	CODE	
SAMPLE	AMOUNT	PH VOLUMB	CLBAN-UP	NOTES	GPC	' G	
ID	(g/ml)	(mt)	(G/\$/A/F)		TBA	s	
COFOIL SE		D			ACID	A	
<u>'</u> 51					FLORISIL	F	
S							
96FO22.01	3.0				REAGENT	LOT#	
11	1				Na2SO4	954496	
19					CH2CL2	36079	
2					HEXANE	36079 962303	
3							,
4							
7					STANDARDS	ID AMOUN	T ADDED (ml)
8	V	4			SPIKE ID	S10C-01-0-76,2	2.0
				7	SURROGATE ID	SIDC-01-0-35-07 2	2.0
				/ .			
			1				
	·				SDG #	EXTRACT LOCA	TION
			/_			GC-R1-13	
					COMMENTS:		
			···		PREPARED BY:	MW ·	
					STD's ADDED BY:	mp/Tom	
					CHECKED BY:		
ω							
र उ					Extracts Received B	у:	
4				1			7

SEQUENCE RECORDED IN F:\PF12.SEQ

SEQUENCE FILE: F:\PF12.SEQ

		SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD.	DILUTION - FACTOR	SAMPLE WEIGHT
	1	PIBLK01	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
	2	DCC01 NIXA	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
	3	DCC01 NIXB	SW1	PF12-	1.0000	1.0000	1.0000	1_0000
	4	PEM01	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
	5	CPF013S8	SW1	PF12-	1.0000	1.0000	1:0000	1.0000
	6	CPF013SL	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
	7	96F013-02	. SW1	PF12-	1.0000	1.0000	1.0000	1.0000
	- 8	96F013-02H	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
	9	96F013-02S	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
	10	96F013-03	SW1-	PF12-	1.0000	1.0000	1.0000	1.0000
	11	96F013-07	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
	12	96F013-08	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
	13	96F013-09	SW1	PF12-	1.0000	1.0000	1.0000	-1,0000
	14	CPF012WB	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
	15	CPF012HL	SW1	~ PF12−	1.0000	1.0000	1.0000	1.0000
	16	CPF012HC	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
	17	-96F022-05	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
	18	96F022-06	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
	19	PI8LK02	- SW1	PF12-	1.0000	1.0000	1.0000	1.0000
•	20	DCCO2 HIXA	SW1	PF12-	1.0000	1.0000	1_0000	1.0000
	21	DCC02 NIXB	SW1	PF12-	1.0000	1.0000	1.0000	1.0000

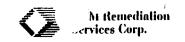
CKY Analytical Laboratories Sample Preparation Department

EXTRACTION LOG FOR PESTICIDES/PCBs

CKYT-E01-002

				<u> </u>	I LUI-UUZ				105
	N/ CAMP LEJE	กกะ			METHOD				
IATRIX	WATER				DATE EXTRACTED	6/1196 11:00	DATE COMPLETED	6/12/96	9:00
LAB	SAMPLE		EXTRACT			CLEAN-UP		ODE	
SAMPLE	AMOUNT	pli		CLBAN-UP	NOTES	GPC		G	
ID .	(g(m1)		(ml)	(G/\$/A/F)		TBA		S	
CPPOR WB	1000		10			ACID		A	
WL						FLORISIL		r	
WC		, '							
PO22 - 05						REAGENT	1	.ot #	
-06	1 4		<u> </u>			Na2SO4	954496		
· · · · · · · · · · · · · · · · · · ·						CH2CL2	36079		
						HEXANE	962303		<u> </u>
			,						
						STANDARDS	ID .	AMOUNT AT	DDRD (m
						SPIKE ID	510C -01-0 -26-02	0.5	
						SURROGATE ID	3100-01-0- 35-02	1.0	
						JOKKOONI BID			
				/		SDG #	EXTRACT	LOCATION	
						0004	6C- R1 - E		l.
						COMMENT	<u> </u>		
						COMMENTS:			
			/						
		-A							
		/-	· ····			The same of the sa	7a ·		
	 					PREPARED BY:			
	/-					STD's ADDED BY:			
						CHECKED BY:	<u> </u>		
** *									
				<u>l</u>		Extracts Received By	y:		

Appendix G Chain-of-Custody



CHAIN-OF-CUSTODY RECORD

Field Technical Services 166505

l		ATERIALS	CORP). •	•	P.C	D. BOX 551		FINDLAY, OH	45839-0551	•	4	19-42	3-352	26										
PROJECT NAME COMP Leieune PROJECT LOCATION COMP Leieune PROJECT TELEPHONE NO. PROJECT TELEPHONE NO. PROJECT TELEPHONE NO. PROJECT TELEPHONE NO. PROJECT MANAGER/SUPERVISOR VANN Marsh burn Tim Dunn / Alan Whitt									NUMBER OF CONTAINERS	100	NALYS IDICATI PARATI DITTAIN	E E	SIRE	0	40	9	900	100 / 00 / 00 / 00 / 00 / 00 / 00 / 00	32-01						
ITEM NO	S	AMPLE UMBER	DATE	TIME	COMP	GRAB		SAMPLE (INCLUDE POINT (DESCRIPTION MATRIX AND DF SAMPLE)		6		(A)			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			tor.		RE	MARKS			
1		×0-WC-001	3/1/1	1435	X		Two	50115	le points		1-)	7	仅	X	X	X	X	X		Ne	2474	leVe	/ <u>``</u> C	r	
2											ļ														
3		:																							·-· ·
4																									
5																									
6																									
7																									
8																									
9																									
10																	-								
	TRANSFER	ITEM NUMBER			RELIN		SHED BY		TRANSFERS ACCEPTED E	3Y 	DATE		REA	ARKS	an	ple	-	5	وس	t to	A.S	.د،			
	1			Do	^Z oh	, 1	R. Sem	FED	-EX#692	1491216	3/46	1701	,	3	D	hУ	•	TA	.7	P	lease	. Fo	(X		
	2			· · · · · · · · · · · · · · · · · · ·	-,1,4,,-									R	e5	J)	13		To	(910)) 451	- 180	,9.		
	3																			<u> </u>		_1	naut	<5	
	4								·				SAMI	PLER'S	SIGN	ATURE	loc	N	1	R. S.	en/	,			

CHAIN-OF-C TODY RECORD

Form 0019 l echnical Services Rev. 08/89

166506

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526 PROJECT NAME PROJECT LOCATION																				
PRO	() DJ. NO. S 3 ENT'S RI	PROJECT	Je Je et conti		Litt	PROJECT	2) & JAC, N.C. TELEPHONE NO.) 457-2599 VISOR Alaw Whitt	NUMBER OF CONTAINERS	I (INF	ALYSI DICATE ARATE ITAINE		IRED								
ITEM NO.	S	AMPLE UMBER		TIME	COMP	1	<u> </u>		SCRIPTION MATRIX AND SAMPLE)	, a				/	//	//			REMARKS	
1	CLII	00-WC-061	3/11/96	1435	X		TWO	Souple Solls	Poil ts	1-1								No	Analy 515	
2																		Reg	Vile (Y	
3																		1 (
4																				
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6								;							1					
7																				
8		į																		
9				•										1						
10															+	+				
	NUMBER	ITEM NUMBER			RELIN	IQUIS	FERS SHED BY		TRANSFERS ACCEPTED BY EX# (1) 2149122(DATE	TIME	REM	Sam	P	e	Sen	ナ	To	Wayne	
	1		 	Clor	لهيع	K	. Scow	PED.	EX# 6/2/49/22	R	1700		Dis	spo)5a	•				
_	2		_						The second secon				•							
	3										· · · <u>- · · · · · · · · · · · · · · · ·</u>	SAMP	LER'S S	IGNAT	URE/					
L	4								······			<u> </u>			from	TON	- 4	P. Ac	in']

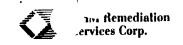


CHAIN-OF-CUSTODY RECORD

Form 0019 Field Technical Services C F 2 O Rev. 08/89

166530

O.H. MATERIALS CO	P.O. BOX 551	• FINDLAY, OH 45839-0551	•	419-4	123-3526									
PROJECT NAME PROJECT CONTACT PROJECT CONTACT PROJECT TELEPHONE NO.														
CLIENT'S REPRESENTATIVE	Marshburn J.m.	VAGERISUPERVISOR DUNI/Alow Whitt	NUMBER		CONTAINERS)									
O SAMPLE	TE TIME ON B	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	Ö	A	REMARKS									
1 CL5100-FS-00 1 4/7	96 1451 X Soil at	6" from 602-601D, 602-601 E	1-4.	2-										
2 CLT100-F5- 002 419	196 1455 X 30 il at	6" from 603-602P, 603-602 &	1-400	X										
3 CLJ100-F5-003 4/1	1458 X 50, 1 at	6" from 604-603D, 604-603E	1-40	2										
4 CLT100-FS-004 4/19	46 1501 X 2011 at	6" from 602-601C, 602-601D	1-462	X										
5 CL5100-PS 005 4/1	96 1505 X Soil at	6" from 603-602C, 603-602 P	1-400	X										
6 CL5700-FS- 00 6 4/1	46 1508 X Soil at	6" from 604-603C, 604-603D	1-400	. X										
7 CL5101-F5-017 4/19	16 1523 X 501 at	6" from 602-601B,	1-4.2	X										
8 CLT100-F5-008 4/18	96 1526 X 501) at	6" from 603-602B,	1-402	X										
9 CL5100-FS-809 4/1	96 1530 Sioin at	6* from 604-603B,	1-402	11 / 1										
10 CL5100-FS -010 4/1		6" from 602-601A,	1-402	X										
TANKSEB NUMBER ITEM	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	EMARKS) (4								
1 1-10	RELINQUISHED BY ACCEPTED BY DATE TIME Somples Analyzed ON-Site													
2		8												
3														
4				SA	MPLER'S SIGNATURE	har	in k	. Acom						



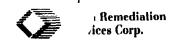
CHAIN-OF-CosTODY RECORD

Figur (echnical Services Rev. 08/89

O.H. MA	TERIALS	CORP.	•		P.O	. BOX !	551	•	FINDLAY, OH	45839-0551	•	419	-423-352	<u> 5</u> 6							
PROJECT NAME COMP Lejeune PROJECT LOCATION Comp Lejeune, N.C. PROJ. NO. 18319 PROJECT CONTACT Alaw Wh. 44 (910) 451-2599 CLIENT'S REPRESENTATIVE PROJECT MANAGER/SUPERVISOR VANA Marshburn Jim Dwn/Alaw Whitt							NUMBER CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)													
<u>o</u>	MPLE IMBER	DATE	TIME	COMP	GRAB				E DESCRIPTION DE MATRIX AND T OF SAMPLE)		ρ		0000		<u>//</u>	<u>//</u>	/ 	<u></u>	REMARK	<u>s</u>	
	-FBF6A	1/3/16	1451		X	501	at 6	03 B	10m 604-6		1-402	M					CICS		20/		
2 CL5100		4/1/16	1459		X	Son		<u> 52 B</u>		\	1-40	X					12	25 - 1 -	002		
3 Cc5700	i	413/90	145		X	s	1 aT	601	В	-601A,	1-400	X					CZ	1- B	003		
4 C15700	F5-004	4/1/46	150		X	2.,	at 1	(" , o 3 (603B,	/-4oe	X		<u> · </u>			C4.	3	004		
5 C15100	F5-005	47/1	1505		X	501		6'' -60'	२८	-602B,	1-40	X					CL	7- 123_	005		
6 CL3700	CLITION FS-006 1/18/96 1508 Soil at 6" from 602-601 E								1-402	X					CI	T - 2	006				
	1500-F5-007 418/41 1523 X Soil at 6" from 60"						from 604 3 D	-603C,	1-400	Δ					CP	200	007				
8 CL5100-	FS-008	4/3/16	152		X	So	il at	ζ") 3 - (from 603 602D	-602C/	1-4,	X					CR	Δ	008		
9 CLTIO	-F3-009	11.63	1530		X	So		6"	from 602 2-601D	-601C,	1-4a	X					C	2112	00 J		
10 (15/00-	FS-010	417/16	15.34		X	So	il at	6"1	FOM 604 04-603 E	-603D,	1-40	X					CK		010		
TRANSFER	ITEM NUMBER		F		IANSF	ERS HED BY	/		TRANSFEF ACCEPTED		DATE 1	TIME	REMARK	(s S	on p	les	A	Naly	yzed	Or	J _
1 1-10 Clour			/	K. Sen Claudine Bigham				4/8/9611	615			Ų	S	te							
2										U			,			- - '	_				
3																1					
4													SAMPLER'	'S SIGNA	TURE	wa	m/1	<u>K.</u>	Ara	<u>~</u>	

CHAIN-OF-C FODY RECORD

	MATERIALS (CORP.	•		P.C	D. BOX 551	•	FIND	LAY, OH	45839-0551	•	4	119-	423-35	26										
PROJECT	Comp	CONTAC	Le)e	30N				P	Lejev	ne, N.C.		1	NDIC		SIRE		7	7	7	///	7		$\overline{/}$		
183			A/~	~	V	Shift	19	(0) 4	151-25	799	K	SI C	EPAR ONT	ATE AINERS)		//	//	//	//	///	//	//			
	REPRESENTATIVE	Mai	rshb	יזטני		PROJECT	AANAĞERISI Verv	A	OR W	4.77	NUMBER								/		/				
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB		SAMPLI (INCLUI POIN	E DESCI DE MAT T OF SA	RIPTION RIX AND MPLE)		ğ		/	3040								REM	IARKS		
	0-FS-011	1/2/46	1537		X	Soil at	- 6"	from	1 603- 5 -602	602 A,	1-40	. 2	X												
2 CUTIO	»·FS-011 DP 4	1741	1537		X	Diplicat	e soil		o~ 60 3-602	3-6024, B	1-4	/\	X												
3 (17/0	v-F5-0124	19/6	1541		X	Soil at	6".	from 604-	604- -603 E	603A,	1-4	-2	X								· · · · · · · ·				
4 CL510	70-FS-013	13/16	1555		X	Soil at	6"	Pron 702	902. 2-701	-701 D,	1-4														
5 (1.7/4)	0-F5-014 4	19/46	1588		X	Soil at	- 6"	A.m. 703	703- 3-7021	702 D, F	1-4	08	X												
6 CLJ70	0 FS - 015 1	119/16	1603		X	Soil at		from 70	4-703		1-4	52	\langle												
7 (1510	10-FS-016 3	19/96	1606		X	Soil a	- 6"	from 702	-701 D		1- 9	07													
8 (12/0	10-F5-017 4	18/96	1609		X	Soil a	t 6"	from 70	3-702		14	ot >													
9 (15)0	1. FS-018	1/19/11	1609		X	· Soil a			04-70		1 - 4	502									-				
10 (25)	0-FS-019	1996	1615		X	Soil a	T 6"	From 702	1 702 2 - 701	2-701 B,	1-4.	r >													
TRANSFER	ITEM NUMBER			ELIN		HED BY		A	TRANSFERS CCEPTED B	BY	DATE			REMARK	S	ſ		1		yzed		0d -	5,7	e	
1	1-10		a	۲۲	2	R. Am	1 Cla	udix	u Bi	how	1/12/96	16 A		7	rang	rice	5	Ho	ia!	yzev	• •	<i>-</i> 1	- 1 '	-	
2									0																
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4													SA	AMPLER'S	SIGNA			رم	~	R.	*	100	سره	_	

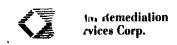


Form 0019 Field Technical Services Rev. 08/89

О.Н. М	IATERIALS	CORP	. •		P.O	. вох	(551	•	FINDLAY	7, OH 45839-0	551	•	419	-423-35	526								
	PROJECT PROJECT PRESENTATIVE VANJ	T CONT	Lej Ala Shb	ر ار	الا الا	hit	HOJECT MA	PROJ PROJ NAGERVSI	UPERVISOR A E DESCRIPT	Jeune, N 11-2599 an whit		NUMBER OF CONTAINERS	(INDI	LYSIS D CATE RATE FAINERS)	//								
TEM NO.	AMPLE UMBER	DATE	TIME	COMP	GRAB		1 4-	(INCLU POIN	DE MATRIX / T OF SAMPL	E)			1	<u> </u>	//			_	/		REI	MARKS	
1 0510	0-FS-011	41/46)532		X	50.			03-60			1-402	X										
2 CUT101	-FS-01 DP	413/1	1537		X		plicate	- 6	1 from 03-60	603-602		1-402	X										
3 CL510	10.FS-01Z	40 /	1 . Y		X	50	il at	6"	from 6 2-601	02-601 P)	1-4 ₀₂	X										
		4/ /	155		X	٥, د	'l at	6" 704	704-5			1-402	X										
5 C15/0	0-FS-014	1/1/96	1550		X	\$	at	<u>''</u> 7	03-70	702 A,		1-40	X										
6 0210	0-F5-015	4/13/91	1603		X	50,	1 at	ζ"	702 702-7	-701A,		1-402	\mathbb{N}/\mathbb{I}										
7 CL510	00-FS-016	1/1/9	1606		X	So.	'l at		04-70			1-40											
	0 -FS-017				X	50,	il at		03-70	-702 B,		1-402	X										
	00-FS-018		168		X	5.	il at		702	-701 B,		1-402	χ						_				
10 CLT/	00-FS-019				X	\$6	il at	6"	704	- 703 C, 03 D		1-402	X										
TRANSFER	ITEM NUMBER			TR	ANSF	ERS HED B	·			NSFERS EPTED BY	1		TIME	REMAR	KS S	Cm	1/0	: 5		Awal,	120		
1	1-10		41	しん	/1	1	-		audix	e Bisha	m/	18/96	1630			1	, 0		٠,_	+ 10 m	20	~	
2										0			, es.			0	<i>γ</i>) .	- S	1	16			
3																	A						
4														SAMPLE	R'S SIGI	IATURE	log	ol/	//	?; A	Elv		

LAB COPY Form 0019
.J Technical Services
Rev. 08/89

1	O.H. MATE	RIALS	COR	Ρ.	•	Р.	O. BOX 551	•	EINDLAY OL	1 45000 055												, <u> </u>	
	OJECT NAME						PROJECT L		FINDLAY, OF	1 45839-0551	•	•	419-42	23-3526 ———									
	10J. NO.	ang	l	Levie	NN .	و		Camp	Lejeun	e NO.			ANALY	SIS DES	IRED		7	77	//	77	//		
	18319		T CONT		law		Whitt	191	16) 451 - 25	599	NUMBER	NERS	INDICAT SEPARAT CONTAIN	E		//		//	//	//			
	VA	له		1ar3	46	u ()	PROJECT M	ANAGER/SI Duni	UPERVISOR		NUMB	A TNO			//	//	//	//	//				
TEM NO.			DATE		COMP	GRAB		SAMPLE (INCLUE POINT	E DESCRIPTION DE MATRIX AND I OF SAMPLE)		7 - 8	5	80	19/		//	//		//				
1	CL5100-F5.	020	414/96	1617		X	Siil a	1-6"	from 70 703-702	3-70ZB,	1-4	62	X	ff	7		\leq	\angle		RE	MARKS	·	
2	C L3740-F5-	21	119/16	1628		X	Soil at	6'		4-703 B.	1-4	- /	7		+	\Box	-+						
3	C63100-F5.	022	1/2/16	1634		X	Soil a	T 6"	Fron 70:	2-7011	1-4				+-								
4	(900F3-	23	18/16	1635		X	Soi'l 97			-70ZA,	1-4	-K	7				\dashv						
5	CL5100-F5-0	2300	118/96	1639		X	Duplicat			3-7024,	1-4	1	7		+	H	+	_					
6	८।जाक-म्ड -।	24	Vis/4L	1640		X	Soil al	- 6"		4-703A,	1-4	- (+								
7	CUTION FS - (25 4	13/16	1642		X	Soil at	6"		-901 - D.	1-4	- K -			+		+			· · · · · · · · · · · · · · · · · · ·			
-	CL510+13-1					X	Soil at	6"		-802 D.	1-4	1 1 1			+		-						
9	CUTION-FS-E	27 4	12/16	444		X	Soil at	61.		-803 D.	1-40	- K					-						
10	C15700-F3-	284	18/96	1648		X	Soil at		from 802	2-801C,	1-4					-	+-						
TRANSCEE		EM ABER		R	TRAI		RS IED BY		TRANSFERS ACCEPTED BY		DATE			ARKS				<u></u>					
	1]-	10		lor	n/	R	. Acon	Cla	redine Be	:ha-	4/19/91	1950	3	ong	les	A	nal	y zed	2	ON -:	site		
	2								(•									Ì
	3												1										
	4		<u> </u>										SAMPL	ER'S SIGN	NATURE		1	a)	R		/_		
																//	100	<u>~~</u>	11.	<u>-0</u>	car		- 1



CHAIN-OF-CLU FODY RECORD

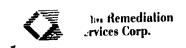
Fietu rechnical Services Rev. 08/89

O.H. MATERIALS C		·	•	419-423-3526
PROJECT NAME PROJECT OF PROJECT O	Lejeune Alon whitt	CT LOCATION CAP Leicuse, NC. PROJECT TELEPHONE NO. (16) 45) - 2599 CT MANAGERISUPERUSOR Alan Witt SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) REMARKS
1 CL5700-F3-020	19616)7 X 50il a	T 6" from 703-702C, 703-702D	1-402	TEMARKS TEMARKS
1 14/	961628 X Soil	702-701 D	1-402	022
3 CL5100-F5-022	8/90/634 X Soil "	1 6" from 704-703 D, 704-703 E	1-402	2 083
4 C15100-F3-023 4	1×90/635 X Soil a	703-702E	1-402	X oad
5 CL5706-F3-02307	8/16/1639 X Duplic	ate soil from 703-702D, 703-702E	1-402	025
6 CL5700 FS-024	8/96 1640 X 50i)	at 6" from 702-701D, 702-701E	1-40e	026
7 CLJ100-FS-025 4	1990/642	904-803B	1-400	027
8 CL5100-FS-026 1/	8/96/644 X Soil a	803-802B	1-402	e X 028
9 CLT100 FS-027 4		802-801B	1-408	029
10 CLT100-F3-028 4	8/91/648 X 50:10	1+ 6" from 804-803 B 804-803C	1-402	1 1 1 1 1 1 1
NOWBER ITEM	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY		TIME S O O O O O O O O O O O O O O O O O O
1 1-10	Coron R. sta	/ Claudine Bigham	X8/96 1	Samples Analysed on-site
2		0		
3				
4				SAMPLER'S SIGNATURE Wan A. Dean

CHAIN-OF-C FODY RECORD

Form 0019 chnical Services Rev. 08/89 F.

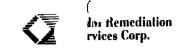
	MATERIALS	CORF	₽.	•	P.C). BOX		•		Y, OH 45839-0	0551	•	41	9-423	-3526										
	PROJECT PROJEC	CT CONT	Leje Alan Nars	-66	ر ال) h !		PRO PRO DVA	DECT TELEPHO 910) 43 SUPERVISOR	51-2590 W Whith	9	NUMBER OF CONTAINERS	(IN	IALYSIS DICATE PARATE NTAINER	es)	RED									
ITEM NO.	SAMPLE NUMBER	DATE	TIME	9 M 00	GRAB				LE DESCRIPT JDE MATRIX / NT OF SAMPL	AND E)				304		//	//	//	//			REM	ARKS		
1 CK5/0	v·F5-0₹9	1/19/16	1705		X	So		_6"	frem 803-8	803-802C	-	1-40								·					
2 05/4	·F5-030	118/91	1708		X	5.,		- 6"		804-803C		1-4.	. X												
3 CLJ/01	o-FS-031	419/46	1711		X	5.i	97	6'		802-301 E	3	1-40	11/												
4 Custon	·F5-032	419/96	1714		X	So.	1 at	<u> </u>	Frem 803-	803-802	B,	1-40	V						_						
5 CT10	n-F5-0320p	4/12/46	1714		X		lical	<u>e</u> 5	803-	802 C	28,	1-4.		1											
6 05/0	0-15-033	4/19/16	1716		X	Sei		6"	Frem . 804-	807-803	B,	1-400	$\langle \chi \rangle$	1											
7 CL510	·B·034	4/18/46	1718		X	Soi	L aT	6"	from 802-8	802-801A		1-40	$\overline{\lambda}$												
8 217/00	-Fs-035	4/18/16	1720		X	Soi	at	6"		803 - 802 A -802 B	1, ,	-40	, X						1						
9 0270	·F5-036	4/19/96	1723		X	Soi	1 at	6"		804-803	A	-402	\rightarrow					7	1						
10 CL5/0	o-FS-037	418/16	1727		X	So	lat			1004-1003 A	4	1-400	70						7						
TRANSFEK NUMBER	ITEM NUMBER		F		NSFI	ERS 1ED BY				NSFERS PTED BY	C	DATE	TIME	REMA		ام	<u></u>	1		0			c 7		
1	1-10		loc	'n/	R	A		110	udine,	Beila	_ 4	18/461	155	2	70~	ple	5	HA	aly	zel	C)~/	5116	•	
2			-							8			<u></u>												
3																		^				,	,		ł
4														SAMPLE	R'S SIG	NATURE	12.	pri	en.	/	R	L			



CHAIN-OF-CUJ FODY RECORD

Form 0019
Fig. . echnical Services
CC51 / Rev. 08/89

O.H. MATERIALS COR	P. • F	P.O. BOX 551	• FINDLAY, OH 45839-0551	•	419-423-3526
	Leveune TACT Alan Marshbu	WhitT PROJECT MANA	TION Lejewe, NC. PROJECT TELEPHONE NO. 910) 451-2599 IGER/SUPERVISOR JAN Alm ULITT	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
SAMPLE NUMBER DATE	TIME ON		SAMPLE DESCRIPTION INCLUDE MATRIX AND POINT OF SAMPLE)	0	4080 REMARKS
1 CL5100-FS-029 4/8/9	161705	\wedge	from 803-802 B, 803-802 C	1-403	0.3/
2 (15100-FS-030 /18/	96/708	Soil at 6	" from 802-801B, 802-801C	1-402	032
3 C0700-FS-031 4/8/	917/1	X Soil at 6	" from 804-803C, 804-803D	1-407	033 O33
4 CL5700-F3-032 4/8/4	16/7/4	Soil at 6	" from 803-802C, 803-802D	1-402	034
5 CLT100-FS-032 DP 18/9	11714	DuplicaTe	803-802 D	1-402	
6 CLSTOD-FS-033 4/8/	11716		6" from 802-801C, 802-801D	1-403	036
7 CLT100-FS-034 4/8/4	61718	Soil at	804-803E	1-403	
8 QII00-F3-035 4/8/	1/20	Soil at	6" from 803-802 D, 803-802 E	1-407	
9 01310-13.036 4/8/	10723		6" from 802-801 D, 802-801 E	1-402	
10 CLT100-FS- 037 4/8/	94727	Soil at	6" from 1004-1003 A, 1004-1003 B	1-400	
TRANSFER MBER MEER MEER		NSFERS NUISHED BY	TRANSFERS ACCEPTED BY		Somples ANGLYZON ON-SILE
1 1-10	aven)	2 Azan	Claudene Bigha-	4/8/96/	(1755)
2			0	-	
3		•			SAMPLER'S SIGNATURE
4					(wlow K. Dean)



 $\begin{array}{c} \text{Form 0019} \\ \text{Fix} \quad \text{echnical Services} \\ 166515 \end{array}$

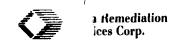
O.H. I	MATERIALS (CORP	•		P.C	D. BOX 551	• FINDL	_AY, OH 45839-055	1 •	41	19-423-3526
	PROJECT	CONT	ejeu A arsh	la	2	Whitt PROJECT M.	PROJECT TELE	151-2599	NUMBER	(IN SEF CO	NALYSIS DESIRED IDICATE PARATE INTAINERS)
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCR (INCLUDE MATE POINT OF SAM	RIX AND	, o		REMARKS
1 015	100-FS-638	Yn Al	0832		X	Soil aT	" from 1	1003-1002 A , 3-1002 B	1-4	\rangle	
	00-F5-039	V. /			X	Soil at	6" from	1002 - 1001 A,	1-4	ĪΝ	
	1	1ん /	0834	r	X	Soil at	6" from	1004-1003B	1-40) 2 X	
		V9/	0839		X	Soil at	6" From	1003-1002 B			
	10-F5-042	1/2/			X	Soil at	6" from	1002 - 1001 B	1-40	z X	
	00-FS-043	Un I	1	'	X	Soil at		1004-1003 C	1-4.	. X	
ГТ	0-F3-044	1/1			X	Soil at	1" from 100	1003-1002 C 3-1002 D	1-4	oz X	
_	00-F3-044DP	7			X	Duplicat		1003-1002C,	1-4.	V 🔨 .	
łl	00-FS-045	1//			X	Soil at	6" from	1002 - 1001 C	1-4	12	
	0-Fs-046	V.47	084	,	X	Soil at		1004-1003	31-4	03	
TRANSFER	ITEM NUMBER					FERS SHED BY	AC	RANSFERS CCEPTED BY	[TIME	Samples Analyzall On-Sito
1	1-10) 4	H.	h/	h	tt	Claud	lène Bighan	14/7/9	130	
2			_					0			
3											
4											SAMPLER'S SIGNATURE



Form 0019
Field Technical Services
Rev. 08/89

166516

419-423-3526 O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 PROJECT NAME PROJECT LOCATION **ANALYSIS DESIRED** Lejeune COMP (INDICATE NUMBER CONTAINERS PROJECT CONTACT SEPARATE PROJ. NO. CONTAINERS) 18319 wh PROJECT MANAGER/SUPERVISOR CLIENT'S REPRESENTATIVE Jim Marshburn SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) COMP SAMPLE NUMBER DATE TIME REMARKS Soil at 6" from 1003-1002 D -408 CIJ100-F5-047 1003-1002 E "L" from 1002-1001 D 2 CLJ100-F3-048 -402 1007-1001 E AT L' From 905-904 A -402 3 KLT100-F5-049 904- 903 A. -40z 4 125106-PS-050 903-902 A, 1-402 5 CLT 100- PS. 051 902-901 A. -402 6 CLT100-F5-052 902-901 B 905 - 904 B 7 CL5/00-PS - 053 905 - 904C 0 2 904- 903 B. -403 8 CL3100-F3 - 054 7 904-903 C 903-902B -40t 9 CUSTON-F5-055 903-902C aT 902 - 901 8, Soil 1-402 10 arios-F3 - 056 902-901 C REMARKS TRANSFERS **TRANSFERS** Samples Analyzed ON-SiTE ITEM ACCEPTED BY DATE RELINQUISHED BY NUMBER X9/46 1300 -10 2 3 SAMPLER'S SIGNATURE



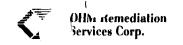
Field Shrices Services 166517 Rev. 08/89

	MATERIALS	CORP	·. •		P.O	. BOX 551		OH 45839-0551	•	41	19-423-3526
PROJECT N PROJ. NO. 1831 CLIENT'S R	PROJEC	E CONT	ejev Hav urshl	V	Jh	PROJECT MAN	PROJECT TELEPHON (910) 451- AGER/SUPERVISOR	IE NO.	NUMBER	(INC SEP COP	NALYSIS DESIRED IDICATE PARATE INTAINERS)
Εl	SAMPLE IUMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCRIPTION INCLUDE MATRIX AND POINT OF SAMPLE		OF		REMARKS
1 CL570	w-F3-057	719/16	0905		X	Soil Suppl	AT 6" from 905-90	• 9 05-904C, 04 D	1-40) }	
2 CLJ10	o-Fs-058	419/16	0910		X	Soil AT	6" from 90 904-903	4- 903 C, D	1-40	. 🛚	
3 CLT100	F5058P	419/96	0915		X	Puplicate	50:1 from 904-90	904-903C,	1-40	, \	
4 C15100	-F5-059	4/9/96	0911		X	Soil AT	6" from 9 903-	03-902C,	1-401	X	
5 CLIT100	-Fs-060	11996	0913		X	Soil AT	6" fra 902-0	02-901C, 201D	1-402	X	
6 CU 100	-B-061	4/9/4	0913		\sum_{i}	Soil At	905 - 9		1-40	Z	
7 95100	-FS -062	1/1/16	0918		X	Soil AT	904-		1-40		
8 (15100	-F3 -063	X9/96	092		X	Soil AT	903-9		1-400	. X	
a ලෝග	o-F3 - 064	1/19/46	0923	1	X	soil AT	902-90		1-400	X	
10 C 45 100	-FS-065	4796	1925		X	Soil AT	6" from 9 905 - 904	05-904 <i>6,</i> F	1-40	Ł X	
TRANSFER	ITEM NUMBER		R	TRA	ANSF QUISI	ERS HED BY	TRANS ACCEP		DATE	TIME	Samples Analyzed on-site
1	1-10		H2	Sh	H		Claudine	Bichan	4/4/96	1300	o samples morely seek on sir-
2			,					8			
3			7								
4											SAMPLER'S SIGNATURE



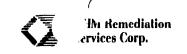
Form 0019 Field Technical Services CC4 O Rev. 08/89

L	MATERIALS	COR	P. •	•	P.C	D. BOX 551	•	FINDLAY, OH 45839-0551	•	419-423	-3526	•						
ON	PROJE	™	MAR TIME	<u>_ h</u>	<u>ih</u>	H PROJECT N	ANAGERYS Dund	JECT TELEPHONE NO. / 10) 451 - 25799 SUPERVISOR	NUMBER OF CONTAINERS	ANALYSI (INDICATE SEPARATE CONTAINE	RS)							
=	VOWIDEN	11/	/ / / /	ŏ	Ō	C 11 AT		·	-	/ 7			_	_		RE	EMARKS	
	0-F5-066				X	Soil AT	91	on 904-903 E, 94-903 F	1-407	\mathbf{M}								
2 05100	o-F5.067	41%	10930	•	X	Soil AT	6" (903-902 E,	1-4.2	X								
1 !	-F3-068	4/2/	7		X	Soil AT	6"	from 902-901E, 102-901F	1-402	X								
4 CLTTON	-Fs-019	419/	1033		X	Soil AT		from 905-904 F, 905-904 B	1-402	X								
5 टारा ००	-F3- 070	4149	93%		X	Soil AT	<u>''</u>	from 904- 903 F, 904-903 G	1-402	X								
	-FS · 071	H / a /	'		X	Soil AT	<u>""</u>	from 903-902 F, 903-902 G	1-402	X								
	-F5 - 072	11.7.7	1		X	Soil AT	- 6"	902-901 G	1-402	X								
	-Fs -073	11/ . /	,		X	Soil AT	6" f	From SOH - 503 A, 504 - 503 B	1-402	X								
9 (137)00	-F5-074	4:44	1403		X	Soil AT	6"	From 503-502 A, 503-502 B	1-402	X								
10 CUN 10	-F3·075	1/1/4	YOU		X	Soil AT	<i>l</i> ⁿ 1	From 502-501 A. 502-501 B	1-42	X								
TRANSFER	ITEM NUMBER		F		ANSF	ERS HED BY		TRANSFERS ACCEPTED BY	DATE 1	ł	ARKS) (1.		_ 0		. ,	
1	1-10)	8,6	W	er.	W. Pa	DOI	audino Sigham	4/9/4/	000	emp le	>3	/7~!	aiy	zed	ON	- 5,7	e
2								0			<i>a</i>							
3											Ste	ubi	ر ر	K	'	2	rail	4
4										SAMP	PLER'S SIGNA	TURE						
	#							#									#	



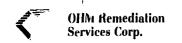
Field Technical Services Rev. 08/89

I	MATERIALS C	ORP. • P.O. B		FINDLAY, OH 45839-0551	1 •	419-4	23-3526					
PROJECT PROJ. NO. 183 CLIENT'S	PROJECT O	Alan Whitt	PROJECT MANAGER	Lejeune, N.C. 9(0) 451-2599 USUPERVISOR	NUMBER	ANALY (INDIGA SEPARA CONTAIL	TE					
0	VANN	Marshburn		/ Alaw whitt	→ ₹8		///	//,	//	////	,	
ITEM NO.	SAMPLE NUMBER D	ATE TIME ON WE WE WE WE WE WE WE WE WE WE WE WE WE	POI	PLE DESCRIPTION LUDE MATRIX AND INT OF SAMPLE)	, p	40		//	//		REMARKS	
1 (457)	00-F5-076 4	/16/9/2 1	5	from 504-503 B, 04-503 C	1-400	X					TIEWATING	
2 CLTH	10-FS-077 47	/96/19/10		from 503-502 B, 503-502 C	1-400	·X						
3 CF210	10-F5-073 V	1961174		from 502-501B, 502-501C	1-400							
4 0510	0-F5-079	181415 X 5.		from 504-503 C, 504-503 D	1-400							
5 CLJ 10	o-F3-080 W	/96/417 X S		from 503-502C, 503-502D	1-402							
6 CT10	0-F3-6800P	901417 X Du	plicate So.	1 from 503-502c, 503-502D	1-400	X						
7 CL310	0-F3-081 4/	196 1419 X 50	oil at 6"	from 502-501C, 502-501D	1-402							
8 61210	1-F5-08Z	/81 1420 X Se	oil at 6",	from 504-503D, 504-503E	1408	X						
9 CT2.101	-FJ -083	96/422 X 50	il at L".	from 503-502D, 503-502E	1-402	X						
10 (2510	-F3-084 W	96 1425 X SI	il at 6" t	FOM 502-501 D, 502-501 E	1-402	X						
TRANSFER	ITEM NUMBER	TRANSFERS RELINQUISHED	ву	TRANSFERS ACCEPTED BY	DATE	TIME	MARKS	l.,	1.	1,20	on-site	
1	1-10	Steven K	200	Paudine Bigham	4/9/11	100	יין	EJ	יאא	rly e co	- N / N	
2				J		100	٠.			-		
3												
4	•					SAM	PLER'S SIGNAT	EVE		K. L) _ A	
								レハテレ	Y .	, , <i>, ,</i> 0		J



 $\begin{array}{c} & \text{Form 0019} \\ \text{Field Technical Services} \\ 166520 & \text{Rev. 08/89} \end{array}$

O.H. N	MATERIALS C	CORP. •	P.O. BOX 551	• FINDLAY, OH 45839-0551	•	419	9-423-3526
PROJECT	NAME	1	PROJECT LOC	ATION		ANI	IALYSIS DESIRED
1	(ang	Leveune		comp Leverne, N.C.		Lavo	DICATE
PROJ. NO.	PROJECT	CONTACT		PROJECT TELEPHONE NO.	NUMBER	SEP	PARATE /////////
1831	19 .	Alan W	hitt	(910) 451 - 2599	E S	CON	NTAINERS)
CLIENT'S F	REPRESENTATIVE			AGER/SUPERVISOR	N N N N N N N N N N N N N N N N N N N	i	
	VANN	MARSHbu	Jim I	DUNN / Alow Whitt	_ ₹8		
ITEM NO.			a m	SAMOI E DESCRIPTION	P		4040
<u> </u>	SAMPLE NUMBER (DATE TIME	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)		1/	407////////
E			L I				REMARKS
سروا ا	4		V soil at 6"	from 405-404 A,], ,		
1-10131	H+43-885 7	797		405-404 B	1-40		Not facel
0.4	4,	19/	V Soil at 6"	<u>from 404-403A,</u>	1		
2 66310	0-F3-086 /	1/96		404-4038	1-4		Not taken
2	Sec -07 14/	19/1/0-20	X Soil at 6"	from 403-402A,	1/4.	ΗV	/
3 (13/6	o-FS-087	17/96/525		403-402 B	1 10	3 \	
4 0-10	14	19/	X Soil at 6"	from 402-401A,	1-40		/
7 52370	10-F3-088 y	19/91/542		402-401 B	1-70	3 4	
5 (17)	4	<i>K</i> -1/1 1	Soil at 6"		1-40	. IV	/
2 623/61	o-FS-089 1/	1961526		405-404 C	1 70	3 1	
6 0.00	0-F3-090 H	19/11/10	X Soil at 6"	Prom 404-403 B,	1-4.	, IY	
0 270	070 7	19/96 1528		404-403C	1-76	• 1	
7 01710	10-FS-091 X	19/01/11/1	X 50:1 9T 6"	from 403 WZ D,	1-40	, IX	
, (4)	110-62-0	791/540		403-402 C	110	8 \\	
A (750)	00-P2-092 4	19/01/10/22	X soil at 6"	from 402=401B,	4-4-	\mathbf{X}	- Not taken
0 423	012 1	796 1532		402-401 C	<u> </u>		T HALSTI
9 (177)	0-FS-093 /	19/96/530	X sail at 6"	from 405-404 C,	1-40	. IY	
 		7 .		402-401 C from 405-404 C, 405-404 D	 ' ' '	` {}	}
10 C1370	10-FS-094 1/	19/01/532	X soil at 6"	\ . way	1-40	> X	
	1 0 11 7	7704-07-	/	404-403 D	1, ,,,	- 1/7	A STANDARD
TRANSFER	ITEM	ĺ	TRANSFERS	TRANSFERS		i	REMARKS
PAC M	NUMBER	RE	LINQUISHED BY	ACCEPTED BY	DATE	TIME	
- <u>-</u> -		1 1 A	- A-1-	111	117	 	I Somples Analyzed on-Site
1	1-10	1 4 1/2	1. N. N.	Manden Sidram	17/9/21	11000	
	1 10	1000		Crace care prices	174	1,40	Somples Analyzed on-site
2		1	-				
 	 				+	 	-
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					+	 	SAMPLER'S SIGNATURE
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L	1			<u></u>			1 (Jav (V)



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Field Technical Services Rev. 08/89

L	MATERIALS		P.O. BOX 551	• FINDLAY, OH 45839-0551	•	419-423-3526
PROJECT PROJ. NO. 183	PROJECT 19 PROJECT 19	Leje Alan MARShb	PROJECT MA	CATION OMP Levieune, N.C. PROJECT TELEPHONE NO. (910) 451-2599 NAGER/SUPERVISOR DUNN / Alan Whitt	NUMBER CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
ITEM NO.	SAMPLE NUMBER	DATE TIME	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	OFO.	REMARKS
1 (25)	100-F5-095	4/9/15/6	Soil at	6" from 403-402C, 403-402D	1-403	
	00-15-096	1/41	Soil at	102-401 D	1-402	1. / - - - - - - - - - -
3 (25)	00-FS-697	19/9/15/0	Soil at	6" from 405-404D	1-403	
	00-F3-098	1/1/1521	Soil at	6" from 404-403 D,	1-402	
5 (1)	1-FS-098DP	1P/41/520	X Duplicate	50:1 from 404-403D, 404-403E	1-400	
6 CIZI	10-FS - 099	19/11/512	Soil at	6" from 403-402 D, 403-402 E	1-402	
2 CW7	00-FS- 100	1/91	X Soil at	6" from 402-401D, 402-401E	1-408	Not holy
8 CL510	0-FS-101	1/9/96/1445	Soil at	6" from 405-404 E, 405-404 F	1-400	
9 (257)	00-FS-10Z	1/9/41/1448	X Soil at	6 from 404-403 E, 404-403 F	1-402	XIIII
10 CLS7	00-FS-103	19/1/502	Soil at	6" from 403-402E, 403-402 F	1-402	
TRANSFER	ITEM NUMBER	R	TRANSFERS ELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE T	Course Aulia V an ala
1	1-10	Xt	in ho	Claudine Li ham	4/1/96/1	ANATY TECK ON-SITE
2						
3						
4						SAMPLEM'S SIGNATURE

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Form 0019
Field Technical Services
Rev. 08/89

О.Н.	MATERIALS	CORF	·. •		P.O	. BOX 551	• FINDLAY, OH	45839-0551	•	419	-423-	3526							
	Camp PROJE	CT CONT	ejev lau shb	W	hiz	PROJECT MANA TIM DUM	PROJECT TELEPHONE NO 9(0) 451-2 IGEN/SUPERVISOR	599	NUMBER OF CONTAINERS	(INDI SEPA CON	CATE TAINERS								
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCRIPTION INCLUDE MATRIX AND POINT OF SAMPLE)		O.		400			//			REM	ARKS	
	100-FS-104	79/16	1515		X	Soil at 6	" from 402- 402-401 F	401 E	1-402	$\perp \chi$									
	00-Fs-105	14/8/	1434		X	Soil at	6" from 405- 405-404G	404 F,	1-40	·χ									
3 C151	00-FS-106	49/1	1437		X	Soil at	6 - From 404 - 404 - 403G	403 F,	1-400	X									
4 CL31	00-F5-107	1/9/4	1432		X	Soil at	6 from 403- 403-402 B	402 F,	1-400	X									
5 (137)	00-F5-108	1/2/	1442	,	X	s.: .+	6" from 402- 402-401G	401 F,	1-400	X									
6 CTZ1	00-FS-109	1/3/	1056		X	Soil aT	6" from 304- 304-303B		1-400	X									
7 (15)	0-FS-110	49/16			X	Soil at	6" from 303- 303-3021	302 A,	1-400	X									
8 CL5	100-FS- 11 1	4/9/	1105		X	Soil at		-301 A,	1-4 02	X									
9 (25)	00-FS-112	19/1	1105		X	Soil at	304-303		1-400	X									
10 CUST	00-F3-113	4/1/9	1108	1 1	X	Soil at	6" from 303- 303-302	- 302 B,	1-402	X									
TRANSFER	ITEM NUMBEI	R	F		ANSF QUIS	ERS HED BY	TRANSFER ACCEPTED	RS BY	DATE	TIME	REMA	ARKS	10.5	A	lua l	vzel	0a .	-site	
1	1-n		2	tv	4	L 20	C/audine &	Bifan	41941	40	V	7	.03	• •	,	/ 0.50	-	•	
2							*	0											
3												54 0 010			····				
4								· · · · · · · · · · · · · · · · · · ·			SAMPL	EN'S SIG	Z A	12		4	£		-



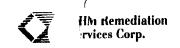
Field Technical Service: 166523

1	MATERIALS C		P.O. BOX 551	• FINDLAY, OH 45839-0551	•	419	9-423-3526
<u>g</u>	NEPRESENTATIVE VANN SAMPLE	CONTACT	FROJECT MAN	PROJECT TELEPHONE NO. PROJECT TELEPHONE NO. (910) 451 -2599 IAGER/SUPERVISOR DUAN / Alaw Wh. 477 SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	(INC SEP CON	NALYSIS DESIRED DICATE PARATE INTAINERS) REMARKS
	00-FS-114 1/	9/961115	Soil AT	302-301 B)	1-4.2	X	newonh3
2 (50	o-FS-115 7	996/110	Soi'l AT	6" from 304-303C, 304-303D	1-40	ZX	
3 (15)0		2/94/109	Soil AT	6" from 303-302C, 303-302D	1-40	• X	
4 CLTIN	o-Fs-116DP 1/	7/109	Duplicate	Soil From 303-302C, 303-302D	1-40	z X	
	0-FS-117 4	1/41/20	X Soil AT	6" from 302-301C, 302-301D	1-401	7	
6 CL310	10-FS-118 4	9/1/114	Soi AT	6" from 304-303 D, 704-303 E	1-40	. X	
7 CL3/6	0-FS-119 4	1/4 1114	Soil AT	6 from 303-302D, 303-302 E	1-4.	. X	
8 CT21	08-F5-120 4	19/1054	X Soi'l AT	6" from 302-301D, 302-301 F	1-40	2 X	
9 (1510	0-F3-121 4/	9/5/1117	X SON'I AT	304-303 F	1-40	2	
10 CLS	0 - FS- 122 4/1		Soil AT	6" from 303-302 E, 303-302 F	1-4.	2	
TRANSFER	ITEM NUMBER		IANSFERS IQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	Samples Analyzed ON-site
1	1-10	ALL	fitt	Claudine Sichan	4/1/96	1300	o samples many ced one and
2				0			
3							
4							SAMPLER'S SIGNATURE



Field Technical Services Rev. 08/89

O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526 PROJECT NAME PROJECT LOCATION Leieune 1P LEJEUNG, NC. ANALYSIS DESIRED INDICATE NUMBER CONTAINERS PROJECT CONTACT PROJ. NO. SEPARATE Alan whitt 18319 (910) 451 - 2599 **CONTAINERS**) CLIENT'S REPRESENTATIVE PROJECT MANAGER/SUPERVISOR Marsh burn Jim DUNN /Alow Whitt VAN COMP SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) SAMPLE NUMBER DATE TIME REMARKS Soil at hi from 302-301 E -403 411058 1 [1]00-FS-123 302-301 F 304-303 F 2 CUTIOD-FS-124 304-303 G from 303-302 F 400 3 CLJ100-F3-125 303-302G 302-301 F ·402 CUST00-FS-126 VF1 302 - 301 G 304 -303 G 5 CLTION-FS.127 /1/GL - 402 Soil at from 303-3026, 402 6 CL5700-FS- 128 303-302 H - 1 ot 302 - 301 G. 7 CUTION-FS-129 /19/91 302-301 H 304 -303 A -402 8 CLT00-FS- 130 303-302 H 9 CUT100-F=-131 1-402 303-302 H 1-402 10 CLTY10-F3-131DP REMARKS **TRANSFERS TRANSFERS** , ITEM 1/9/91 1300 Samples Analyzed ON-Site ACCEPTED BY RELINQUISHED BY NUMBER -10 1 2 3 SAMPLER'S SIGNATURE 4



 $\begin{array}{c} \text{Form 0019} \\ \text{F echnical Services} \\ 166525 \end{array}$

1		ATERIALS	CORI	Ρ, •	•	Р.(O. E	BOX 551	•	FINDL	.AY, OH 4	15839-0551	•	41	9-4	23-352	26										
PRO		Canp	CT CONT	-ejeu Alau Iarsh	bur	wh	7,1	PROJECT LO	PROJ PROJ ANAGER/SI	O 4	PHONE NO. 51 - 25		NUMBER F CONTAINERS	1	IDICA' PARA' INTAII	TE NERS)	//								7		
ITEM NO.	S	AMPLE UMBER	DATE	TIME	COMP	GRAB				E DESCRI DE MATR T OF SAM	IPTION IIX AND IPLE)		Q		4	40/	//	//	/		/			REMARK	:s		
П	C1370	o-F3-13Z	1/9/9	1108		X	E	Soil at	6" fr	0M -		oi H,	1-40)Z X													
2	CUS 10	0457133	1/19/4	1136		X		suil at	6" f		304-30		1-4	1 \													
3	cಚ]o	-FS-134	1/9/9	1/26		X	E	Soil at			303-3 3-302		1-4	5 X													
4	Cr2J0	o-FS-135	7/9/9	1107		X	┸	Soil at				7	1-40	1 1													
5	CL 510	o-F5-136	4196	1130		X		Soil at	6" t	70M 304	704 - 3 1 - 303		1-40) 1													
6	CLSIO	0-F3-137	19/9	6/1/2		X	$oxedsymbol{oxed}$	Soil at			3-302		1-4.	05													
7	C1210	6-F5-138	4/9/9	1112		X	L	Soil at	- 6"	From 302	302-	3015, K	1-40	7													
8																											
9							F																				
10							上				·																
30000	NUMBER	ITEM NUMBER	3		TR RELIN	ANS					RANSFERS CEPTED BY	'	DATE	TIME	RE	Sa	s mol	les		Д.	10	ly zeal	,	ON -	sit	e	
	1	1-7	2	AL	W	L	Z,	7	10/0	<u>rudi</u>	u Bi	hau	14/91	130	þ		Q			, 1,	,	/ 5-0					
	2										0																
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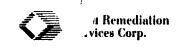
Form 0019
Field Technical Services
Rev. 08/89

166534 O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526 PROJECT LOCATION PROJECT NAME Lejeune ANALYSIS DESIRED Lejeune (INDICATE NUMBER CONTAINERS PROJECT TELEPHONE NO. PROJECT CONTACT PROJ. NO. SEPARATE 1831 (910) 457-2599 CONTAINERS) an CLIENT'S REPRESENTATIVE PROJECT MANAGER/SUPERVISOR VANN Sim Marsh burd SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) COMP GRAB SAMPLE NUMBER DATE TIME REMARKS So. 603-602 E -400 1234/1503 1 CIJI00-FS-139 04-603 A 403 2 CUJIO0-F5-140/23 04-603 AA 704-703A -402 3 CLS700-FS-141 703-70ZA, at 4 CL5100-PS-142 /2 703-702 AA 703-702 A 5011 5 CLJ100-F5-073-15 703-702B 0 CL5100-F5-143 102 804-803 863_802 E 7 CUSTOCUES 144 Same as Somple elsion-19-143 803-802 F 102 / 804-803 A 407 8 CL5100.FS. 145 803-802 A 803-802 AA

				<u> </u>						
10	C15100	rs. 147 4/2	3961526 X	Soil at	6" from 802-80 802-801 AA	1A, /=4	0 Z			
	TRANSFER	ITEM NUMBER	TRANS RELINQUIS	SFERS SHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS	1.1.0	pa-site
	1	1-10	airon R.	Ara	Claudine Big	han 1/2/40	1655	Samples	Mary zeo	UN SIT
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	3									
	4							SAMPLER'S SIGNATURE	(form R.	Sun
L		· · · · · · · · · · · · · · · · · · ·	1			1			U	1

 $\begin{array}{c} \text{Form 0019} \\ \text{echnical Services} \\ 166535 \end{array}$

O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526 PROJECT LOCATION ANALYSIS DESIRED Leieune Lejeune N.C. ianp (INDICATE PROJECT CONTACT NUMBER CONTAINERS PROJECT TELEPHONE NO. PROJ. NO. SEPARATE 18319 CONTAINERS) PROJECT MANAGER/SUPERVISOR CLIENT'S REPRESENTATIVE Marsh burn VANN Jim DUNN. SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) COMP SAMPLE NUMBER DATE TIME REMARKS From 801-800 C, Soil CL5100-FS-148 2796 1524 402 801-800 D 801-800 B 2 CLT100-FS-149 72776/528 709 101-800 C 801-800 A Soil 3 CLT100-B-150 723/46 1532 801-800 B from 805-804 B 4 CL5100-FS-151 123/46/520 402 805-804 C 805-804 A. Soil 5 CL5100-PS-152/2 805-804 B 708 from 804-803 D. 501 408 6 COS100-FS-027-15 12/94 1519 804 - 803 E 905-904 6. 1-402 7 CL5100-F5- 153 /1/96/1240 905-904 H from 104-903 G. Soil 8 CUTIOO-FS- 154 -402 904 · 963 H 903-902 G, Soi 9 CL5100 FS- 155 903-902 H ot Soil from 701-900 D 10 a5100-FS. 15 6 901-900 E REMARKS **TRANSFERS TRANSFERS** ITEM Samples Analyzed on-site NUMBER **RELINQUISHED BY** ACCEPTED BY DATE TIME 1 -10 2 3 SAMPLER'S SIGNATURE 4



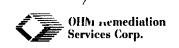
Field Technical Services Rev. 08/89

ı	O.H. MATERIAL	S COR	۶. •	•	P.C). BOX 551	•		OH 45839-0551	•	4	19-	423-35	26								
PR		VE	Alan)		Nh	; ++ (MANAGER	Lejeur OJECT TELEPHONE 910) 451- JOURENVISOR	2599	NUMBER	- 14	NDIC. EPAR		SIREC								
ITEM NO.	SAMPLE NUMBER	1	rshb	1		Jin		LE DESCRIPTION				,	080		//	//						
		DATE	ļ	COMP	GRAB	0.9 1		PLE DESCRIPTION UDE MATRIX AN NT OF SAMPLE)			-	/\\ /	<u> </u>	/_	//	//	_		RE	MARKS		
1	CL5100-F3-15	723/96	1546		X	Soil at	-611	901-900		1 - 4	400											-44
2	LIDIO-F5 158	12/96			X		- 	905-904	5-904A, AA	1-4	02	7				_		Sample because	toin	TNO		ded grils
3	CUTION - FS 159	12/96	1549		X	50,1 g1		904-90	-903 A,	1-4	œ)											
4	CJ160-F5-160	123/96	1551		X	Soil at		703 - 902	3 - 902 A, AA	1-4	02/											
5	CLT100-F5-054-	1/2/96	1547		X^{\dagger}	Soil at	12"	904-90	4-903 B,	1-4	02											
6	CL5100-FS- 161	4/2/91	1615		X	Soil at	6	from 50,505-5041	5-504C,	1-4	07											
7	сьтю «- FS-162	4/23/96	1604		X	Soil at	6"		1-500C,	1-4												
8	CL5100-F5-163	4/2/96	1610		X	Soil at	6"		-500 B,	T	07											
9	CL5700-FS. 164	1/2/4	1614		X	So, 1 aT	6"	From 50	1-500 A,	1 1-11	•7	1										
- 1	CUT100-FS-165	1/2/10			X	Soil at	- 6"		03-50ZA.	1-4	07											
TOANOCEE	ITEM NUMBE				NSFE	ERS HED BY		TRANSF ACCEPTE		DATE	TIME		EMARK		· · · · · · · · · · · · · · · · · · ·			, 0				
	1 1-10)	lo	zon	1/	. Den) (1	audine ,	Bishan	4/2/40	165	5	Sa	npl	es	A	na l	red	02	-51	te	
	2								8													
	3																			,		
	4								:			SA	MPLER'S	SIGNA	TURE	le	201	J.K.	A	em)		

Field Technical Services 166537

JHY.

P.O. BOX 551 419-423-3526 O.H. MATERIALS CORP. FINDLAY, OH 45839-0551 PROJECT LOCATION IOJECT NAME ejeun e ANALYSIS DESIRED (INDICATE NUMBER CONTAINERS SEPARATE 18319 CONTAINERS) IENT'S REPRESENTATIVE Jim Dun SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) GRAB COMP SAMPLE DATE NUMBER TIME REMARKS CUT100-F5-166 18346 1606 503-502 A CUJ100 FS-094-11/2 from 406-405C CLT100-FS-167 12396/1600 REMARKS ITEM TRANSFERS TRANSFERS Samples Analyzed on-site **RELINQUISHED BY ACCEPTED BY** DATE TIME NUMBER 2 3 SAMPLER'S SIGNATURE



Field Technical Services 166538

O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526 PROJECT LOCATION PROJECT NAME Lejeune, N.C. Lejeune **ANALYSIS DESIRED** amp (INDICATE PROJECT CONTACT NUMBER CONTAINERS PROJ. NO. PROJECT TELEPHONE NO. SEPARATE 18319 (910) 451-2599 CONTAINERS) CLIENT'S REPRESENTATIVE VANN Marsh burn Jim DUNN / Alow Whitt GRAB COMP SAMPLE DESCRIPTION SAMPLE NUMBER (INCLUDE MATRIX AND POINT OF SAMPLE) DATE TIME REMARKS 6" from at 406-405 D, 1/2/4/1025 1 CL5700-F5-168 -400 406-405 E 406=405 E. 2 (15700-43-769 788 Soil at 406-405 F. 3 CIJIONFS-170 406-405 G 405-404 G, at 6 24/1029 4 CLT100-FS-171 -862 405-404 H 404-403 G 1-807 5 CLT100-F3-172 196/1032 404- 403 H 6 CLT100-FS-173 1/24/96 16 38 From 403 - 402 G .803 403-402 H Soil at 6" From 402-401 G. 802 7 (15700-13-174 402 - 461 H 401 - 400 F -807 8 CL5700-P3-175 401 - 400 G from 304-303 A. 9 CL5/00-P3-176 304-303 AA 302-301 A, 501 10kLJ100-F5-177 /2496 1102 1-802 302-301 AA REMARKS Somples Analyzed ON-site **TRANSFERS** ITEM **TRANSFERS** NUMBER **RELINQUISHED BY** RCOERTED BY DATE | TIME -10 2 3 SAMPLER'S SIGNATURE



Field Technical Services Rev. 08/89

O.H. M	MATERIALS					. BOX 551	• FINDLAY, OH 45839-055	•	41	9-423	-3526						
PROJECT N PROJ. NO. 1831 CLIENT'S R	Camp PROJE	E	Rjed Mars	110	<u>~</u> _	PROJECT LOCA Whith PROJECT MANA Tim Do	PROJECT TELEPHONE NO. (910) 451-2599 AGER/SUPERVISOR NN/ Ala whitt	NUMBER CONTAINERS	(INI SEF	IALYSIS DICATE PARATE NTAINER	S DESIR	ED					
IEI	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	` ,	SAMPLE DESCRIPTION INCLUDE MATRIX AND POINT OF SAMPLE)	O NO		408				/	_	REMARKS	
1 CL570	o-F5-178	1/2/16	1055		X	Soil at	6" from 301-300 A, 301-300 B	1-8	ra X								
2 (LIK	v-F3-085	4/24/96	1021		X	soil at	6" from 405-404 A, 405-404 B	1-80	P &								
3 CLT10	10-F3-086	1/24/96	1023		X	soil at	6" from 404-403 A, 404-403 B	1-80	2 X								
4 (2510	10-F5-09Z	1/24/91	1026		X	Soil at	6" from 402-401 B, 402-401C	1-80	, \				•				
5 015100	-FS- 096	1/24/96	1028		X	Soil at 6	" from 402-401C, 402-401D	1-80	2								
6 CLT10	xx-F3-100	1/24/96	1034		X	soil at 6	" from 402-401 D, 402-401 E	1-86	,)								
7									1								
8																	
9																	
10																	
TRANSFEK NUMBER	ITEM NUMBER	1	α	RELIN		ERS HED BY	TRANSFERS ACCEPTED BY	DATE	TIME		ARKS	uple	.5	F	1 _N	alyzed on-site	
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4										SAMP	LER'S SIG	NATURE	ar	20	رر	R. Azw	



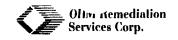
Field Technical Services 166540

L	. MATERIALS	CORF	P. •)	P.C	D. BOX 551	•	FINDLAY, OH 45839-05	51	•	419-	9-423-3526
PROJEC	Camp) CT CONT	Leje	20	e	PROJECT LOC		Lejeune, NO				NALYSIS DESIRED DICATE
18	319	A	Flow		WG	.77	191	0) 451 -2599	9	INERS	1	PARATE INTAINERS)
	S REPRESENTATIV	<u> </u>	Mars	54 L	ייטפ	N JIM	IAGER/SU	PERVISOR	-	OF CONTAINERS		
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB		SAMPLE (INCLUD POINT	DESCRIPTION E MATRIX AND OF SAMPLE)		O.		REMARKS
100	5100 FS-179,	1496	1525		X	Soil at		Crom 806-805		402	M	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2 CL	1100 FS- 180	72/9/	1328		X	Soil at	6"	From 806-805 A 806-805 B	1-	402	∇T	188
3 CC	710-F5-181	1/26/90	1534		X	Soil at	64	From 805-804/ 805-804 AA	11	402	X	189
	(160-FS-182	-4-14		Ь	X	Soil at	6"	from 804-803 A 804-803 BB	1-	402	X	190
5 015	100-Fs-183	12/96	1543		X	soil at	6	from 803-802 A 803-802 BB	A, 1-	407	X	191
6 Cr2	100-FS-184	1/24/96	154		X	Soil at	<i>δ</i> *.	From 802-801A 802-801 BB	A, 1-	402	X	192
7 615	100-FS-185	Y249(1610		X	Soilat	6	from 801-800 A 801-800 AA	<u>- - </u>	402	X	193
8 CIS	100-F3-186	12491	1610		Δ	Soil at	6"	from 800-299 A 800-799 B	, 1-	402	X	194
9 C15	100·F5-027-2	1/2/98	1533		X			FOM 804-803 D	1-	40z	X	195
	100-42-027-28	1/2/4/	1537		X	soil at	3 0 °	from 804-803 D 804-803 E	7	402	X	196
TRANSFER	ITEM NUMBER		R		ANSF QUISI	ERS HED BY		TRANSFERS ACCEPTED BY	DAT		ME	REMARKS
1	1-10)	Cer	200	11	R. Acar	Mad	udine Bilam	1/24	14/	340	Samples analyzed on-site
2								y		7		
3												
4		<u> </u>									S	SAMPLER'S SIGNATURE BOSON R. ASON



Form 0019
Field Technical Services
Rev. 08/89

O.H. N	IATERIALS COI	RP. •	P.O. BOX 551	• FINDLAY, OH 45839-0551	•	419	-423-3526				
PROJECT NO. 183	PROJECT CO	Lejeun Alaw Narshb	Whitt IPROJECT MAN	PROJECT TELEPHONE NO. (910) 451 - 2599 AGER/SUPERVISOR	NUMBER CONTAINERS	(IND SEP/ CON	ALYSIS DESIRE				
ITEM NO	SAMPLE IUMBER DAT	E TIME O	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	, o		000				REMARKS
1 01511	70-1-5-187 423	960845	Soil at	6" From 906-905 G, 906-905 H	1-402	X					197
	o-F5-188 23		Soil at	6" from 905-904 H, 905-904 I	1-40	. X					198
1 1	F5-189 /23	<i>Z</i> i	Soil at	6" from 904-903 H, 904-903 I	1-4 0	IY					199
4 CLT100	-F5-05415/23	460853	Soil at	904-903 c	1-40	Ł					200
5 21376	0-15-0542 423	9,0857	Soil at	24" from 904-903 B 904-903 C	14.7	·X		ì			201
6 CLSTOC	-Fs-074-15 42%	76 0935	X Soil at 1	8º from 503.502/ 503-502 B	1-402	X	·				202
7 ८१३१००	-Fs-074-2 4/23	90937		503-502 B	1-403	ı X					203
8 Cr210	o-Ps-196 423	190923		6" from 503-502 AA, 503-502 BB	1-40	ZX					204
9 cus	o.Fs-191 423	910930	Soil at	6" from 502-501 AA, 502-501 BB	1-40	·X					205
10 CL51	10-F5-19Z 23	940925	Soil at	501-500 AA	1-402	X					206
TRANSFER	ITEM NUMBER	т	RANSFERS NQUISHED BY	TDANGEEDS	DATE	TIME	REMARKS	,	,	, 1	4) .
1	1-10	Com	Richard)	Mandine Bi Jan	4/23/46	1100	Samp	les	ANA	yzed	on-site
2				,							
3									1		
4							SAMPLER'S SIGN	ATURE	low) R.	Dear



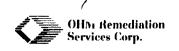
Form 0019
Field Technical Services
Rev. 08/89

	MATERIALS	CORF	٠. •	•	P.C	D. BOX 551	•	FINDLAY, OH	45839-0551	•	41	9-423-3	526						
Q	PROJECT PRESENTATIVE	Me	TIME	by	L	PROJECT LO	PROJE PROJE (911 ANAGER/SU DV NA	PLE'EUWE ECT TELEPHONE NO. D) 45/~ 25 PERVISOR A A W DESCRIPTION OF SAMPLE)		NUMBER OF CONTAINERS	(IN SEI	IALYSIS E DICATE PARATE NTAINERS)						REMARK	V 0
	100-F5-193	1/27/	0931		X	soil at		From 500-	499 A,	1-40								204	
2 C LJ	100F5-194	1/2°/46	1001		X	Soil at	6"		2-301 AA.	1-4.	1							208	/
3 CUT)	00-FS-195	1/27/ 16	1003		X	Soil at	- CN	From 301-	300A,	1-4.								209	
4 CLT	100-F3-196	Ye3/1	1005		X	Soil at	6"	from 300	299 B	1-40	TC.							210	
5 C157	60-F3-197	12/9/	1007		X	Soil at	6"	from 301-301-301-301-301-301-301-301-301-301-	300 B	1-40	, 2							211	
6 C157	00.F3 - 198	1/27/4	1009		X	50:1 97	6"	Fron 301	-300 C	1-4	* >	1						212	
7 CET10	50-FS-199	1/27/91) = bo		X	50:1 a	6"	from 301		1-4	2							2/3)
	00-F3-200	1/2/	१०१२		X	Soil 9	1 6"	From 301-30	-300E	1-4.	- K							2/4	<i></i>
9 CL37	00-FS-201	Jery (1014		X	Soil a	T 6"		1-300 F	1-4	-				11	_		215	
10 CUT	100-FS-202	127	1015		X	50.1	T 6"	from 301		1-4	_							216	
TRANSFER	ITEM NUMBER		F			ERS HED BY		TRANSFERS ACCEPTED B		DATE	TIME	REMAR	KS		1		_ 0		site
1	1-10		lor	كريني	R	. Dan	1/1	audin B.	ich_	4/23/	1100	$\supset \lambda$	anf	es	M	al)	/zex	Ow -	311
2								1	0				•						
3															0			,	
4										,		SAMPLER	's sign	ATURE	ho	res	S.R.	den	1-



Field Technical Services 166544

O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526 PROJECT NAME PROJECT LOCATION Pieune ANALYSIS DESIRED Lejeune, N.C (INDICATE ... PROJ. NO. PROJECT CONTAC SEPARATE CONTAINERS) CLIENT'S REPRESENTATIVE PROJECT MANAGER/SUPERVISOR Jim DUNA Marshburn GRAB SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) COMP SAMPLE NUMBER DATE TIME REMARKS 1 CUTION-FS-203 /23/4/1013 501 from 301-300 H -402 301-300 I from 301-300 I 2 C15100-F5-204 1-402 301-300 Crom 303-302 K 3 CUTION-FS-20 5 -407 303-302 L 4 CLT100-F5-206 25961/027 -402 1-407 5 CLJ100-F5-207/23611030 407-406 D 401-400 (6 CC5100-F5-204 401-400 B 401-400 D 17 CLJ100-F5-2-9 /2396 1034 1-402 401-400 F 401-400 G 8 CM100-ES-210 -468 401-400 H 402-401 H 112-53- SII 196/1038 402-401 I From 403-402 H aT 6 10 CLJ160-FS-212/23/6/1041 REMARKS ITEM **TRANSFERS TRANSFERS** NUMBER **RELINQUISHED BY ACCEPTED BY** DATE TIME 1-10 1 2 3 SAMPLER'S SIGNATURE



Field Technical Services 166545

i	MATERIALS	CORF	·. •	•	P.C	D. BOX 551	•	FINDLAY, OH 45839-0551	. •	4	19-42	3-352	6					
	Camp	CT CONT	ejeji A MARS	اسا		PROJECT MA	NAGER/	Lejeune, NF. DJECT TELEPHONE NO. 9(0) 451-2599 SUPERVISOR Alan Wh. +T	NUMBER OF CONTAINERS	(I) SE	NDICAT PARAT ONTAIN	E IERS)	SIREC	5///				
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB		-	LE DESCRIPTION UDE MATRIX AND NT OF SAMPLE)	OFC		k)	80/		/		//	REMARKS	
1 CL5	100-F5-213	429/96	1517	·	X	50:1 at	6"_	from 403-402 I, 403-402 J	1-409	2							227	
2 CLJ	00-FS-214	4/29/ 196	1519		X	Soil at	6"	from 404-403 H,	1-4.	2							228	
3 CUT	100-FS-215	43996	1045		X	Soil at	6"	From 401-400 E,	1-4 .	_							229	
4 C15	00-F3-216	4/3991	1048		X	Soil at	b" .	from 400-399 D, 400-399 E	1-402	1							230	
5 015	100-FS-217	4/29/16	1535		X	soil at	<u>('</u>	503-502 BB	1-40	z	\langle						831	
6 (15)	00-ks - 518	42y16	1532		X	soil at	6"	from 502-501 BB, 502-501 CC	1-40	<u> </u>							232	
7 نكان ⁷	11-F3 - 219	424/16	1524		X	soil at	6"	From 504-503 A, 564-503 AA	1-4 07	· /							233	
8 0.5	100-F5 · 220	4/29/ 16	1527		X	Soil at	6"	from 504-563 AA, 504-503 BB	1-402	\setminus	7						234	
9 Cري	00-Fs-221	4/30/96	1050		X	Soil at	6"_	From 501-500 AA,	1-402	1							235	
10 CL57	00-FS-Z22	4/30/16	1053		X	Soil at	6"	From 500-419 A, 500-499 AA	1-407								236	
TRANSFER	ITEM NUMBER		F	TR. RELIN	ANSF QUIS	ERS HED BY		TRANSFERS ACCEPTED BY	DATE	TIME		MARKS			1			
1	1+2,5	-8	loco	N	R.	Sen		augrel	4/2/96			Sar	y la	ڊ ڊ	AN	dyz	ed on-site	:
2	3+4,9+						1	(2) Januar	1/2/2	11:	0							
3)		
4									<i>,</i>		SAN	IPLER'S	SIGNA	TURE	Do	ro	R. Acan	



Field Technical Services
Rev. 08/89

											10004	U
	MATERIALS CO	P.O.		• FINDLAY, OH 45839-0551	•	419	-423-3526					
İ	PROJECT CO	-eleure DNTACT Alow Whi! Marshburn	++	PROJECT TELEPHONE NO. 910) 451-2599 GER/SUBERVISOR	NUMBER OF CONTAINERS	(INDIC SEPA CONT	TAINERS)	RED				
TEM NO.	SAMPLE NUMBER DA	COMP COMP	S (I	AMPLE DESCRIPTION NCLUDE MATRIX AND POINT OF SAMPLE)	Ö	/	3080				REMARKS	
1 C1510	N-F5-223 459	410918	Sail at 6'	1 from 901-900 E, 901-900 F	1-4.	·X					237	
	045-224 4/99		Soil at 6	" from 907-806 A. 907-806 B	1-402	X					238	
3 CLTIC	10-FS-225 4/39	460924		" From 801-800 AA, 801-806 BB	1-402	X					239	
4 CUT10	0-F5-226 1/39	46 6935		" from 800-799 A, 800-799 AA	1-400	X					240	
5 CL510	6-FS-227 1/3	460939		" from 799-798 A, 799-798 B	1-402	X					24/	
6 C121	00-FS-228 1/3°		Soil at 6"	800-799 C	1-405	X					21/2	
7 CLSIC	10 FS- Z29 1/39	46 1004	Soil at 6	" from 301-300 AA, 301-300 BB	1-403	X					243.	
	5-F5-230 4/39	46/1004	soil at 6	" from 300-299 A, 300-299 AA	1-402	X					244	
9 Cr210	0-F5-231 1/39	46 1067 X	soil at 6	" from 299-298 A. 299-298 B) - 40e	X					245	
/	o-15-232 4/3%	46/1021 X	soil at 6	" from 300-299 B, 300-299 C	1-402	V					246	
TRANSFER	ITEM NUMBER	TRANSFE RELINQUISH	RS ED BY	TRANSFERS AGGEPTED BY	DATE	TIME	REMARKS	/	11	0	مط	
1	1-10	Cloron R	. Azant	& January C	4/2/91	1/3	_Script	<i>e</i> 5	Analy	?eØ	on-site	
2												
3									-A	·	1	
4	·						SAMPLER'S SIG	GNATURE	low	R.	Acar	



Field Technical Services 166547 Rev. 08/89

i	MATERIALS	CORF	P	•	P.C). BOX 551	• FINDI	LAY, OH 45839-0551	•	419	9-423-	3526						
	PROJE	CT CONT	Leicu Ali Irshle	av	(19 Leje		NUMBER CONTAINERS	(IND SEP/ CON	ALYSIS DICATE ARATE ITAINER	(S)	RED					
TEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCR INCLUDE MATE POINT OF SAM	RIX AND MPLE)	Q.		309	Y		//			REMARKS	
1 051	60-F5-233	4/3·46	1025		X	Soil at 6		300-299 C,	1-402.	X							247	
1 -1	00+5-234				X	Soil at	6" from	300-299 D,	1-402	X							248	
	o-Fs-235			1	X	Soil at	6" from	300-299 E,	1-402	X							249	
	o-Fs-236	<i>57</i> 1			X	Soil at	6" from	300-299 F,	1-402	X							250	
5 CW16	00.Fs-237	4/30/46	1033		X	soil at	6" From	300-2996, 0-299 H	1-408	KX							251	
6 C151	00-45-238	4/30/16	60		X	Soil at	" from	300-299 H,	1-400	X								
7																		
8																		
9																		
10							-		-						_			
TRANSFER	ITEM NUMBER				ANSF	ERS HED BY		RANSFERS CCEPTED BY	DATE T	IME	REMA		····	<u> </u>		1 ,	1	(,
1	1-6	,	No	con	, K	Azar (Dayre	1/2/46/7/	·10	5) <	Da	upla	e 5	A	waly ze	ed ow	-site
3		-			·									÷			,	
4											SAMPL	ER'S SI	GNATUR		ron	/ R.	Sean	

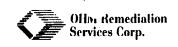


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CHAIN-OF-CUSTODY RECORD

Field Technical Services
Rev. 08/89

166548 O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526 PROJECT NAME PROJECT CONTACT PROJECT LOCATION ANALYSIS DESIRED Lejeune, N.C LOMP INDICATE PROJ. NO. NUMBER CONTAINERS SEPARATE (910) 451-2599 18319 CONTAINERS) CLIENT'S REPRESENTATIVE PROJECT MANAGER/SUPERVISOR Jim VANN Marshburn DUNN / Alaw Whitt SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) COMP SAMPLE NUMBER TIME DATE REMARKS from 505-504 A 30:1 110d 1-407 CESION-F5-239 505-504 AA 505-504 AA 1-40+ 11103 2 CL5100-FS-240 505-504 BB From 504-503 BB 1-402 3 CLJ100-F5-241 504-503 CC 503-502CC CLJ700-FS-242 - 402 503-502 DD 502-501 CC. 1-404 5 CLT100-FS-243/ 502-501 DD Soi I From 501-500 BB 6 CLJ100-FS-244 1-402 501-500 CC from 500.499AA Soi. CLT100-F5-245 1- 40E 500-499 BB from 505-504AA -40Z 8 CLT100-F3-21010 505-504 BB Duplicate Soil from 500-499AA 402 9 CLT/00.FS-245DP 500-499 BB from 801-800BB 10 C25100-F5-246 1-402 301-800 CC REMARKS ITEM **TRANSFERS TRANSFERS** RELINQUISHED BY NUMBER ACCEPTED BY DATE TIME -10 1 2 3 SAMPLER'S SIGNATURE



Field Technical Services 166549

O.H. N	MATERIALS	CORF	·. •)	P.C	D. BOX 551	•	FINDLAY, OF	1 45839-0551	•	419	-423-3	526						
	PROJE	CT CONT.	esne Ala 1arsh	<u>.</u>		hitt PROJECT MA	PROJI 11	ECT TELEPHONE NO 0) 451~25 DPERYISOR	599	NUMBER CONTAINERS	(IND	ALYSIS I ICATE ARATE TAINERS							
ITEM NO.	SAMPLE NUMBER	DATE		COMP	GRAB		SAMPLE (INCLUE POINT	DESCRIPTION DE MATRIX AND OF SAMPLE)		P					//			REMARKS	
1 CETIO	v-Fs-2460p	5/1/20	0936		X	Duplicate	. So	111 from 1 801-8	801-800 BB,	1-40	2 X							253	
2 C1210	o-FS-247	5/1/96	0940		X	50.1 07	<u>6"</u>	900-70	U-799AA,	1-40	·X							254	
3 CUJ10	10.F5-248	3/1/96	0946		X	So.1 97	6"	799-	19-798A, 798 AA	1-40								255	
4 CL510	20-FS-249	4/90	0959		X	50.11 a	r 6"	from 79 798-	18-797A, 797 B	1-40								256	
5 CL510	b-Fs-250	5/1/90	/0 ₀ 2		X	Soil a	6"	from 7 799-	99-798B,	1-40	12 /							257	
6 Ci516	w-Fs-251	5/1/96	1008		X	50:1 at	6''	800-79	00-799C,	1-4.	2 X							258	····
7 C45/0	x-F5-251D	5/1/96	1008		X	Duplice:	e s	800-7		1-40	, ₂							259	
8 CL510	10-F5-252	5/496	DZO		X	Soil at	6''	803-80		1-40	: X							260	
9 CE510	0-F5-257	5/1/96	1023		X	Soil a	6"	from 80 802-8	2-8018B,	1-40	e X							261	
10																		265	Þ
TRANSFER NUMBER	ITEM NUMBER		FI A		ANSF QUIS	ERS HED BY		TRANSFEF ACCEPTED	RS BY	DATE	TIME	REMAR		1		Λ	, ,		1,
1	1-9		arco	n/	R	. Azan		XXI	uppe	5/1/96	13:4	5	anf	rles	/	4~10	lyzed	0N-S	rite
2									U										
3																			
4												SAMPLE	R'S SIG	NATURE	loc	01-	<u>, R.</u>	Dean	



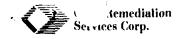
Field Technical Services 166550

O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526 PROJECT NAME PROJECT LOCATION Lejeune Lejeune, N.C. ANALYSIS DESIRED PROJECT CONTACT Alow whity (INDICATE PROJ. NO. PROJECT TELEPHONE NO. 18319 SEPARATE 910) 451-2599 CONTAINERS) CLIENT'S REPRESENTATIVE Marsh burn ITEM NO. SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) GRAB SAMPLE NUMBER S S S DATE TIME. REMARKS 1 CLJ100 - FE 259 51/46 1609 From 301-300BB at 301-300 CC 300-299AA, αŤ 2 CL5100-FS-245 1-402 300-299 BB 50.1 aT - Y 07 from 299-298A 1411620 -403 5 CLS/00-F5-2019 50.1 aT 299-298 6 from 299-298C Soil at 9T Soil from 299-298 D 7 CLT100-F5-25 -402 OT From 8 / JOW-F5- Z 1-408 9 CLJ100-15-30 1-402 10 CUT/00-F5-25-5 50:1 aT -402 ITEM **TRANSFERS** TRANSFERS NUMBER RELINQUISHED BY Samples analyzed BN-site ACCEPTED BY TIME DATE 1-10 1 2 3 SAMPLER'S SIGNATURE



Form 0019 Field Technical Services Rev. 08/89 166552

l	MATERIALS	CORP	·. •		Р.(D. BOX 551	• FINDL	AY, OH 45839-0551	•	41	9-423	3-3526	6			·····					
PROJ. NO. PROJECT CONTACT 18319 CLIENT'S REPRESENTATIVE VANN Marsh burn The project contact and the project contact and the project contact and the project contact and the project and t							PROJECT LOCATION COMP Lejeune NC. Whitt (910) 451-2599 PROJECT MANAGER/SUPERVISOR Jim Dunn/ Alaw whitt				NALYSIS DESIRED NDICATE PARATE DINTAINERS)								·		
[E]	SAMPLE NUMBER	DATE		COMP	GRAB		SAMPLE DESCRI (INCLUDE MATR POINT OF SAM	IPTION IX AND IPLE)	NUMBER OF CONTAINERS		15	1	/	//					REMARK	S	
1 CLTI	0c-F5-754	7/4b	1609		X	Suilat	6" from	301-300 BB,	1-4	o ₹ \											
1	xo-1 ² 5-255	5/ /	1614		X	Soil at	6" from		1-40	, \											
3 CLT10	o-F5-256	5/1/96	1620		X	Soil at	bil fro	~ 299-298 A , 299-298 A A	1-40												
4 CLTIV	10-1F5-256DP	5/16	1620		X	1 291,6 4 29°	Te Soil 1-298 A	From 299-298AA	1-4	, , X											
5 (2)0	10-F5-257	5/1/96	1625		X	Soil at		~ 299-298 B,	1-4												
6 (17/0	0-F5-258	5/1/96	1630		X	Soil AT		1-298 P	1-4.				7								
7 CLJA	w-F5-254	5/1/91	1634		X	Sail at			1.4	- 1/											
1 (0-F5-260	5/1/96	1642		χ	Soil at	6" Free	199-298 F	(-4												
9 C LJ)	00-5-261	5/1/91	1646		X	Sui at	- 6° fro	<u>~ 299-298 F</u> , 19-298 G	1-4	- 11											
10 CLJ1	w.Fs-262	5/1/96	1656		X	Soil at	6' fru		1-40	z X											
TRANSFER	ITEM NUMBER		F		ANSF QUIS	ERS HED BY	TF AC	RANSFERS CEPTED BY	DATE	TIME	1	ARKS			1		ly zed)		- 'l	
1	1-10		Chr	cor	- /	K. Acor			\$1/96			Sa	mple	35	A	NG	y tex		2 - ۱۵	ite	
2										<u></u>											
3)			/		
4											SAMP	LER'S S	SIGNAT	URE/	/ k	Con	, R.	H	ton	/	-



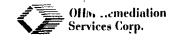
Field Technical Services 166553

O.H.	MATERIALS			•		D. BOX 551	• FINDLAY, O	H 45839-0551	•	4	19-423	3-352	6	·····			
CLIENT'S	NAME Cam PROJE 319 REPRESENTATIV	F//C	Leja M 147)	1 b.	'h!	PROJECT MAN	PROJECT TELEPHONE P (910) 451-	ne N.C. 2599 WhitT	NUMBER CONTAINERS	(IN	NALYS IDICATE PARATE INTAINE	: : :AS)	//				
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)		Q P		A)	9 9	//	//	//		REMARKS
1 00	00-FS-263	5/1/40	165 Z		X	50 1 gT	6" from 299 299-299	1-298 H,	1-40	2	1				T		
	100-55-264	57.1	1705		X	Soil at		-299 I.	1-8		7			+	1		
	x-F5-2U1D0	77	1705	1	X	Duplica	te soil fro	m	1-8		$\langle - \rangle$		+	+	+	 	
4		7.70		-		50	J-2791 , :	500-299J	, ,	7	+-		\dashv	+	╁	\vdash	
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5				-									_	-			
6																	
7		1															
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9									····		4_			\perp			
10																	
TRANSFER	ITEM NUMBER		F		ANSF QUIS	ERS HED BY	TRANSFE ACCEPTE		DATE	TIME	REM	ARKS			1	·	1 1 0
1	1-3		List	200	~ K	How			5/1/90			-	So	nf	ole.	ς	Analyzed Ow-site
2														Ť			ow-site
3															^		,
4											SAMP	LER'S S	SIGNAT	URE	Ter	20	v R. Azon



Field Technical Services 166551

C).H. MATERIALS	CORP	·. •		P.C		• FINDLAY,		•	419	-423-3	3526			_ , , *	** <u>**********</u>		
PROJECT NAME Comp Lejeure Comp Lejeure PROJECT LOCATION Comp Lejeure											ALYSIS ICATE ARATE TAINERS	DESIRE						
	VANN	Ma	rsh!	<u> </u>	W	Jim I)JAH / Alaw	Whit	NUMBER OF CONTAINERS		/	10 /		//	//			
ITEM NO.	SAMPLE NUMBER	•	TIME	COMP	GRAB		SAMPLE DESCRIPTION (INCLUDE MATRIX AN POINT OF SAMPLE)		90		49			/	//		REMARKS	
1	C17/00-1-2-5-5	5/1/96	1652		X	Soil at	299-	99-298 H, 298 I	1-40	7 X						28	2	
2	(46264)	5/1/16	1705		X	Soil at	6" from 300-	0.299 I , 299 J	1-80	2					_	25	73	
i 1	192(40P	SIAL	1705	1	X	Soil at	h" Long 20	00-299 I,	1-8	, ₂ X						2	84	
4		i																
5														-	-			
6																		
7															-			
8																		
9															-			
10				-														
	NUMBER NUMBER		f		ANSI	FERS HED BY	TRANS ACCEPT	ED BY	DATE	TIME	REMA		ll	.ll.	l_	, 1		c tu
	1 1-3		lev	tov	R	Hoar	Claudine	Bishan	5/1/96	1730		San	ples	1	f Nal	lyzed	04-)(IC
	2							0										
	3																	
	4										SAMPL	ER'S SIGN	IATURE	Do	tol	- R.	Acu	4 _



Form 0019 Field Technical Services 166554

•		ATERIALS	CORF	P. •	•	P.C). BOX 551		NDLAY, OH	45839-0551	•	4 1	9-4	23-35	26				
PRO	DJ. NO.	C'UM p	CT CONT.	Leje low arsh	し	Jhi	PROJECT MAI	PROJECT (916)	TELEPHONE NO. 951 - 25	99	NUMBER	1///	DICA PARA	TE	SIRED				
ITEM NO.		MPLE IMBER	DATE	TIME	COMP			SAMPLE DE (INCLUDE N POINT OF	ESCRIPTION MATRIX AND F SAMPLE)				4			//	//	//	REMARKS
1	CLJ100	F5-265	73/9b	1100		X	Soil at	6" 1	506-505	65 AA,	1-8	Q2)							285
2	CLTICE F	=s -Z66	5/2/16	1104		X	So,') 91	6" (505-504 505-504		1-8	62 X							286
1 1		B-267	5/2/96	1106		X	Soil at	61 (504-503		1-8.	77 X							887
4	CLTION-	છે.કુ	5/2/46	1110		X	Soil at		from 503-5		1-80	7 X							288
5	CL5700-	FS-268DP	1/2/91	110		X	Duplicate		From 507-		1-80	,,							289
6	CES low-	15-269	\$2/96	1114		X	suil at		501-50 501-500	DD '	1-8	67 X							298
7	C45/w.	f5-270	72/9b	1119		X_{l}	Scil at	6" Fr.	500-499 C	CC	1-80	n X							29 1
8	CL5100-1	F5-271	1/3/96	1(23		X	50:1 AT	4	49 - 499		1-80	, z							292
9	CL3700-/	5-272	5/2/96	1147		X	soil ar		70m 804-9 804-903	CL '	1-80	2							293
10	CLSTOOF	5-273	5/2/9b	1150		X	Soil at	<i>b</i> ″ €	70M 803- 803-802		1-80	2							194
	NUMBER	ITEM NUMBER				ANSF QUISI	ERS HED BY		TRANSFERS ACCEPTED BY		DATE	TIME		MARK		alec		2 . 16	lyzed on-site
	1	1-10		Coc	on	1 /	l. Aan	/ lau	dine Bio	ham	\$/2/g6	1230	,		Sou	دحام	ι	<i>,</i> ,,,,,,	7 700 02 3110
	2				-				3										
	3													·			<u>a</u> _		
	4												SAI	MPLER'S	SIGNATI	JRE /	loz	w	R. Aca



Field Technical Services Rev. 08/89

О.Н.	MATERIALS	CORP	·. •		P.C	D. BOX 551	• FINDLAY, O	H 45839-0551	•	419	-423	-3526			· · ·			
PROJECT	NAME	1.				PROJECT LOCA	TION ,	.1.	Γ	Τ		0.050	IDEC.	$\overline{}$	7	7	//////	
	Camp		eune	2		Can	np Lejeune	N.C.	[RLYS! ICATE	S DES	IKEU	//	//			
PROJ. NO		CT CONT			A .	1 '44	PROJECT TELEPHONE N		NUMBER CONTAINERS	SEP	ARATE			//	//	/ /		
183			flow		\mathcal{W}	hitt	(910) 451-2	> 44	E S	CON	TAINE	RS)	//	//		/	////	
CLIENT'S	REPRESENTATIV			11	_		AGER/SUPERVISOR	whitt	M. F					//	//			
	VANN	_ <i></i>	1ar5	4 D	7	N Jim	DUNA / Alaw	Whill	₹8			99/	//	//	//	//		
일	SAMPLE			₫.	ΑB		SAMPLE DESCRIPTION		8		1	"	//		//	/ /	//	
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	(SAMPLE DESCRIPTION INCLUDE MATRIX AND POINT OF SAMPLE)				/%	//	/	//			REMARKS	
		5/2/			7	Soil at	6" From 802	2-901 CC	 	(7	1	-	-	$\neg \neg$	\leftarrow (-	00-	
1 63	100-FS-274	1496	1153		X	28(1 91	302-901		1-800	ŀΧ						H	295	
	<u> </u>	5/1				Duplic ate.		802-801 CC.	10	1	1		\neg			\neg	10.	
2 45	00 FS-2740P	1396	11153		ΙX		802-9	ol DP	1-80	z X	1					r	216	
	سر:	5/./	1		∇	Soil at	6" from 801		1.0	10						7	000	
3 (CL)	00-13-275	7499	11156		\triangle		801-8	oo DD	1-80	<u>اح </u> \							277	
1	1	5/2/	-a		V	Soil at	(" from 80	0-799 BB,	1-8.	$\exists \forall$							had	
4 (45)	00-F5-276	798	1159		\triangle			9 CC '	1-06	. 3 ()						_	018	
5 75	00-F5 277	5/2/2	ري دنا		\mathbb{V}	Soil at	6" from 7"	18-797 B,	1-80	$\exists X$			ļ	1	. 1		799	
1 500,	W F3 2.74	740	1200	†	$\langle \Delta \rangle$	<i>c</i> ', <i>t</i>		197 C	100	₹()	-		_				#11	
6/5	700+5-278	Y2/400	1204		X	Soil at	799 - 298	19.7986,	1-80	٦IX			1			F	300	
		/ 18	1237	-	\leftarrow		<u> </u>	<u> </u>	1/ - 00	*/ `	1	┝╾┼		+		\dashv	000	
7							····		1							-		
							·	·					\neg			7		
8]									
9			<u></u>													\dashv		
10				1	·													
		<u> </u>	<u> </u>	L	<u> </u>					<u> </u>	-		l_	l		L		
TRANSFER	ITEM	- }		TR	ANSF	ERS	TRANSFI	ERS			1	MARKS						
Z Z Z	NUMBER	١	F			HED BY	ACCEPTE	D BY	DATE	TIME							. 1	
- <u>-</u> -	 		A			- <u> </u>	1/	1 0	527		1	Ca	أم	pc	0	lasc	NUZZ AN-Sit	P,
1	11-6	Claudine &	echo-	143/91	1230		JU	~ Y	じフ		,,,,,,	alyzed on-sit	_					
	+ ' '	Cracing P	8	1	- -	1		-										
2								_										
	1										1							
3								···			<u>_</u>				<u> </u>			
											SAM	PLER'S	SIGNAT	URE	/ [Δ.	PH	f
											1				ZO-	CO	1 K. Acan	



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10	H MATERIALO	0000	5.5.5								1.00	000
L	H. MATERIALS	CORP. •	P.O. BOX 551		AY, OH 45839-055	1 •	4	19-423-3526				
PRO.	CORP J. NO. PROJECT 8319 NT'S REPRESENTATIVE	Marshb	White PROJECT M. Jih	PROJECT TELEP (9(0) 4 ANAGER/SUPERVISOR DW-1/Alan	51-2599 , White	NUMBER	Co	NALYSIS DESIRED NDICATE EPARATE ONTAINERS)				
ITEM NO.	SAMPLE NUMBER	DATE TIME	GRAB	SAMPLE DESCRIE (INCLUDE MATRIX POINT OF SAME	'TION (AND 'LE)	b		2030		//		
1	15m-13-279	796 1007	Soil 9		505 CC	1-8	ر د			1	REMARK	(S
2 0	1500 FS-280	796 1010	X 50, 1 9T		<u>505-504CL,</u> 05-504 DD	1-8		*		_	200	
3 C	15100-FS-281 5	13/91/1013	X 50, 1 a7	- 6" from	504-503DD.	1-8		} 			302	,
	J100+3-282 5	3/16/1016	Sp. 1 a	6" from	04-505 EE n 503-502 EE 3.502 FE	1-8		} 		+	303	
1	57	3/16/1018	Soil at	r 6' from	502-501 DD , 2-501 EE	18.	- K-	+++			304	
6 C	CT/10-F5-284 3	3/26/021	Scil at	6" From	501 - 500 DD ,	1-8		*+++			305	
7 C	LTIW-F3-285	3/16/024	X Soil at	6" fram	500-499 CC,	1-8		/ 	++-	+	306	
8 C	15100-FS-286 5	3/16/1036	Suil at	b' from	499-498 BB, 9-498 CC	1-8		*			304	
1	17/00-FS-287 5	3/6/032	Scil at	6" from	498-497AA,	1-80		} 	++	+-	308	
10 CL	170-F5-288 5	3/16/040	Soil at	6" From	499-498 A	1-802			+		309	
TRANSFER	ITEM NUMBER	TR. RELIN	ANSFERS QUISHED BY	TRA	NSFERS PTED BY	DATE	TIME	REMARKS		_11	310	
1	1-10	arm	Rida	Cloudine	Richan	5/3/1	רסגו/	Sample	5 A.	valy	zed 0~-51	te
2				- Indicate	, and the same	7.39	100	'		,		
3												
4	,							SAMPLER'S SIGNATU	, ,	-	0 1	
				<u> </u>		i_		l	1 100	الهادج	K. Acus	1



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O.H. M	ATERIALS	CORP	·. •	•	P.C	D. BOX 551	•	FINDLAY, OH 45839-0551	•	419	9-423	-3526		· • <u>.</u>						
PROJECT N PROJ. NO. 1931 CLIENT'S RE	PROJE	T CONT	Lej Alarsh	w		Whitt PROJECT MAN	PROJ PROJ AGER/SI	10) 451 -2599	NUMBER OF CONTAINERS	(IND	ICATE ARATE ITAINE	RS)	RED							
TEM NO.	AMPLE UMBER	DATE	TIME	COMP	GRAB 2		SAMPL	E DESCRIPTION DE MATRIX AND T OF SAMPLE)	ა გ		As As			//				REN	IARKS	
1 CLTION	F5-289	5/3/41	1310		X	Soil at	6"	From 300-299 BB, 300-299 CC	1-8	7 X								32	1	311
	75-290	5% /	1316	l	X	Soil at	6 [;]	From 299-298 A4, 299-298 BB	1-90	<u>, X</u>								B.	12	3/2
3 CLTION	6291	5/3/96	1318		X	Soil aT	6"	Fram 298-297A, 298-297 AA	180	X								3	23	3/3
4 CL5160	»F5-29Z	5/3/96	1312	_	X	Soil at	6"	From 298-297 B,	1-8	7 X								30	74	B3314
5 CLJW	FS-293	5/2/11	1322		X	Soil at	ė <u>"</u>	from 298-297C, 298-297 D	1-80	z X								300	15	315
6 C 15100	F3-294	5/4/96	1325		X	Se, at	6"	From 298-297D, 298-297E	1-8	.2								37	6	316
7 CLT/0	o. F5 2 95	1/96	1324		X	Soil at	6"	from 298-297 F, 298-297 G	1-80	7								3	17	317
	-F5-296	1/1/16	1330		X	Soil at	6"	from 298-2976,	1-8	of X								3	8	3/8
	-F5-297	5/3/46	1337	4	X	Soil at	6'	from 298-297 H,	1-8	, X								33	9	319
10 CLY/V	vF3-298	5/3/96	1342		X	Sail at	6"	From 299-298I, 299-298 J	1-8	72 X								3	30	320
TRANSFER	ITEM NUMBER		1			FERS SHED BY		TRANSFERS ACCEPTED BY	DATE	TIME		MARKS		,		1	, 1	1		¥
1	1-10)	Da	દ્યુપ	1	l. Azn		audine Bihan	5/3/16	1445	} '	Sa	ام	es	H	W4	ly zed	0.~	1-51	le
2	ı							0												
3	i																			
4	1							1	1		SAM	PLER'S S	IGNATI	JĀĒ	W	حرر	our R.	Az	اسان	(



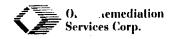
Form 0019 Field Technical Services Rev. 08/89

166560 O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526 PROJECT NAME PROJECT LOCATION ANALYSIS DESIRED amp Leierne (INDICATE " NUMBER CONTAINERS PROJECT CONTACT PROJ. NO. SEPARATE CLIENT'S REPRESENTATIVE CONTAINERS) Jim Dund Marshburg COMP SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) GRAB SAMPLE NUMBER DATE TIME REMARKS From 803-80Z DD (1510-FS-299 -800 From 802-801DD -802 2 KUTION-F5-300 802-801 KE From 801-800 DD -80z 3 K15700-FS-301 801-800 EE From 800-799 CC (45/00-F5-302) 50B -5 CLJ100-73-303) 6 CL3700-FS-304 /3/16/1422 -803 REMARKS TRANSFERS ITEM **TRANSFERS** NUMBER **RELINQUISHED BY** ACCEPTED BY DATE | TIME Samples Analyzed on-site 1 2 3 SAMPLER'S SIGNATURE



Field Technical Services 166561

l	MATERIALS	CORP). •)	P.C	D. BC	OX 551	•	FINDLA	Y, OH 45	839-0551	•	41	9-42	3-352	3									
PROJ. NO. 1831 CLIENT'S R	orp L		irshl			h.	14	PR	OJECT TELEPH 910) 45 SUPERVISOR		1 1	NUMBER CONTAINERS	1 ///	DICATE PARATI NTAINI	E ERS)	SIRED								-	,
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB				PLE DESCRIP LUDE MATRIX INT OF SAMP			å		4	30	//			//			REMARK	s		
1 C451	on 75-305	5/4/96	1147		X		il at		299	-49-29: -298 C		1-4	7								3	26	3:	27	7
2 CLTICO	FS-30512p	5/4/6	1147		X	D	uplica		oil from	1 219 -2 19-218	298 BB,	1 4	_ N						-		13	28		32	8
3 CL7 (X	0-FS-306	5/4/41	1153		X	S	o:1 a7	- 6"		98-29	7 AA , BB	1-40	. \									328		3	29
4 CL510	o-F5-307	5/4/46	1207		X	S	e. / 17	6 "		297-296 17-296		1-40	3 X							-	3	329		3	30
5 CL370	ofs.308	5/4/46	1217		X	5	e, 1 g	6"		298-29	7A,	1-40									3	330		5	3/
6 CL5K	W-F5-309	5/4/46	1215		X	3	o, la	t 6°	frun	297-2	96 13,	1-4	, X								3	331	<u>. </u>	3	3 2
7 C15/0	:0·F5-310	54/96	جردا		X	5	So,'/ a	T 6°		297-70	96C, D	1-40	, X								4	332			33
8 (15/0	0.75-311	The 1	1210		X	3	50:1 a	t 6°		297-29 7-296		1-4.							7		V.	33	3	-3.	34
9 CIII	00-F5-31Z	5/4/46	1205	-	X		50;1 q	T 6"		298-29 18-29	97 E ,	1-40	, X						-			33		33	35
10 (2510	o-FS-313	5/4/96	1202		X		5s./ a	T 6'		<u> 297-2</u> 7-296		1-40	, χ									33	36		
TRANSFER	ITEM NUMBER		F		ANSF QUIS	FERS SHED	ву			ANSFERS EPTED BY		DATE	TIME		MARKS				,	Λ		1			
1	1-10		An	EL.	/	R.	Am	C	laudi	u Be	Le	5/4/96	12:50	·	So	mple	25	A	aly	zed	0	- sit	E		
2)														
3																		.							
4														SAM	PLER'S	SIGNATL	JAE /	her	ك	R. 5	Lan			1	



 $\begin{array}{c} & \text{Form 0019} \\ \text{Field Technical Services} \\ 166562 & \text{Rev. 08/89} \end{array}$

	D.H. MATERIALS	CORF	P. •	•	P.C	D. BOX 551		INDLAY, OH 4	5839-0551	•	419	19-423-3526
PRO	DJECT NAME DJ. NO. PROJE 1 8 3 1 9 ENT'S REPRESENTATIV V.4.	ET CONT		lan	,	PROJECT LOC Whitt PROJECT MAI	PROJEC 9/0	Lejeyae TELEPHONE NO. DY51-25 ERVISOR Alaw Wh.	19	NUMBER CONTAINERS	SEP.	NALYSIS DESIRED NDICATE EPARATE DONTAINERS)
ITEM NO.	SAMPLE NUMBER	DATE		COMP	GRAB			DESCRIPTION MATRIX AND DF SAMPLE)		OF O		REMARKS
	CUTO-FS-314	54/91	1158		X	Suil at	6" fr	297-29 297-296		1-4	e X	() 331
2	CU760-F5-315	74/9l	1154		X	Soil at	p. Eu	<u> 298-29</u> フ 48-29 テ		1-4	0 F	338
3	CLJ100-F5-316	5/4/46	0145		X	Svil aT		om 504-503 504-503 FF		1-40	, a	339
4	LING FS-316DP	14/46	7945		X	Duplicate	. Soil	504-503 F		1-4		340
5	CU3700-F5-717	5/4/96	0947		X	SuilaT ('s' Fr	503-507 503-502		1-46	2	(
6	[LJ1010-F5-318	5/4/96	0950		X	soil at		502-501 F	F '	1-40	e X	342
7	CLT100 FS-319	5/4/46	છોદ્રપ		X	Sovil at		500-499 500-499	EE'	1	. X	343
8	CL5700-F5-320	5/4/96	1001		X	Sul at		0m 499-499 499-498		1-4.	J 7	344
9	CUT100-F5-3Z1	F 446	1010		X	Suil at	6" fr	498-49 498-497	CC '	1-4.	, X	345
10	CLT100-FS-372	1/4/16	1019		X	Soil aT	6" F1	507-506		1-40	X	346
	ITEM NUMBER		F A		ANSF QUIS	ERS HED BY		TRANSFERS ACCEPTED BY		DATE		· • • • • • • • • • • • • • • • • • • •
	1 1-10)	lara	الدة	K	. Acal	Clay	edin Bid	ham	7446	1250	Samples Analyzed on-site
	2		·					0				
ļ	3							78.				
	4											SAMPLER'S SIGNATURE



Field Technical Services Rev. 08/89

O.H. N	IATERIALS	CORF	·. •	1	P.C	D. BOX 551	• FINDLAY, O	OH 45839-0551	•	419	19-423-3526
	Can	CT CONT	leje Alar rshb	v//	<i>พ</i> ง	FROJECT MAN Jim D	PROJECT TELEPHONE (910) 451- AGEN/SUPERVISOR UNJ/AIO	2599 vhitt	NUMBER OF CONTAINERS	(IND	NALYSIS DESIRED NDICATE PARATE ONTAINERS)
ITEM NO.	SAMPLE IUMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCRIPTION (INCLUDE MATRIX ANI POINT OF SAMPLE)	, , , , , , , , , , , , , , , , , , ,	°		REMARKS
	- F5-323	5/4/16	1018		X	Soil at		6-505CL,	1-400	, X	347
2 CL510	0-F5-324	5/4/16	1007		Z	Soil aT	505-	5-504 DD, TOY EE	1-400	X	348
[]	753Z	5/4/96	1015		X	Soil a		97-496 AA, -496 BB	1-402	X	349
4 (45/00	,-Fs-326	84/46	1113		X	Soil at		03-802 EE, -802 FF	1-407	<u>د</u>	350
5 CU516	•fs-327	5/4/1	1116		X	Suil at		02-801 EE, 2-801 FF	1-402	1 1/	351
6 015/0	o-F5-328	5/4/96	11/8		X	soil at		700-799 DD, -749 EE	1-402	X	352
7 CUT	· F3-729	5/4/16	1121		X	Soil at		799-799CC, -798 DD	1-400		35-3
8 (1700)	-F5-243-2	7/96	1224		X	Soil at	2' from 29 298-29		1-400	·X	354
9				Ĺ							
10											
TRANSFER	ITEM NUMBER				IANSI	ERS SHED BY	TRANSI	ED BY		TIME	Sules apply and SITE
1	1-8	-	Care	er	//	l. Dra	Claudene	Sighar	5446	1140	
2	:							0	-		
3						 					SAMPLER'S SIGNATURE /1 / /
4					·				1		lanen K. Scan



Field Technical Services Rev. 08/89

0.Н. М	ATERIALS	CORP	·. •	,	P.C	D. BOX 551	•	FINDLAY, OH	45839-0551	•	419	-423-3	526						
	JAMP IPROJE	CT CONT		an			PRO C	JECT TELEPHONE NO. 10 451-25 SUPERVISOR	e NC. 199 Whitt	NUMBER CONTAINERS	(INDI SEPA CON	CATE RATE TAINERS)	//,						,•
ITEM NO.	AMPLE UMBER	DATE	TIME	COMP	GRAB		SAMPI (INCLL POIN	LE DESCRIPTION JDE MATRIX AND VT OF SAMPLE)		OF		1090			<u> </u>		F	REMARKS	
	0 f3- 33 0	5/5/16	1119		X		at 6	297-29		1-4	7 X						3	<u>55 </u>	
2 CL\$100	-FS-331	15/16	1135		X	Se.'I	T 6	296-2	-295A 95AA	1-4.	X							356	
3 CW16	o-F5-332	5/3/16	1132		X	Sc. 1	7 6	297-2	296 B	1-4.	2 X							357	
4 C1510	b-F3-333	5/5/96	1129		X	V	T 67	296-2 296-2	-215B, 95c	1-4	07 X							358	
5 (2) 10	o-F5-334	5/5/6	IHS		X	Soila	T 6"	from 296- 296-2	295°C,	1-4.	žΧ							36° 3	59
6 (15/0	o-F5-335	5/5/16	แลว		X	_	T 6"	From 297-2	296 E , 96 F	1-40	-N Z							360	
7 CUSIO	-F5-336	5/5/46	1019		X	Suil ai	- 6"	fram 507- 507-50		1-4.	zΧ						3	(0 /	
8 CL510	»F5-337	45/16	1047		X	Soil a	<u> 6"</u>	From 508-50	507 BB,	1-40	a X						- 3	02	
9 CLJIO	r5-338	5/9/46	1043		X	Suil	t 6"	From 507-5	ob DD	1-4.	۸,						36	3	
10 C LTIO	oF5-339	5/5 kg	103,		X	Soil a	T 6"	from 502- 502-50		1-4.	ŧ X						36	4	
TRANSFER	ITEM NUMBER	3				FERS SHED BY		TRANSFERS ACCEPTED B	S BY	DATE	TIME	REMAR	nks	ac	1	1.12		2-6.tp	_
1	1-10		ave	r~/	1/6	Acar	C	audine B	cham	7596	1200)	2	ompri	5.7	/12	Jain Ec	α σ		
2									S 										
3									······································										
4												SAMPLE	R'S SIGNATU	JHE	hir	m/1	l de	ia_	

CHAIN-OF-C. /ODY RECORD

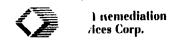
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Fi chnical Services
REV. 08/89

O.H. N	MATERIALS	CORP	·. •		P.O). BOX 551	•	FINDLAY, OH 45	839-0551	•	419	9-423-352	:6					
PROJECT N PROJ. NO. 183 CLIENT'S F	PROJEC	CT CONT		lai	>	PROJECT LO	PRO (JECT TELEPHONE NO.	1	NUMBER	SEP	ALYSIS DE	SIRED					
ITEM NO.	SAMPLE NUMBER		TIME		GRAB			E DESCRIPTION DE MATRIX AND IT OF SAMPLE)		OF C		200		//			REMAR	ks
1 CLSI	10F3-34D	\$15/96	७७३९		X	Soil at	<u>β"</u>	from 501-500 501-500 F	F	1-400	X						34	5
1			1021		X	Soil at	6"	419-498 E	۲ ′	1-402	X						30	66
3 (1)	»:F5-342	5/5/9L	√ 02(X	Soil at	_6"_	from 498-49 498-4971	DD ′	1-401	. X							36.7
4 CW	00-F5-343	5/5/hb	1035		X	So: 41		From 497-4 497-496 C	<u>.c /</u>	1-409	X							368
5 CISI	00-F5-344	5/5/46	<i>093</i> 3	1	X	<u>ل</u> ي اُ.دِي	6"	from 799-79 799-798		1-407	ŗX						36	9
6 CUTI	∞-Fs-345	75/26	0937		X	Soil at	6 '	798-797		1-40	<u> </u>						3	70
7 CLTIC	0-F5-346	5/5/91	6940		X	Suil of	<u> [[] </u>	from 799-799-799		1-40	·X						31	7/
	10.FS-347	311			X	5:1 a	6"	301-800 1 ELOW 801-80	odee, ff	1-40	·Χ						3	12
9 CLTIC	06-F5-348	5/5/91	0948		X	آيو ا`،ن≅ ک	- 6"	802-801		1-40	Į.						3	73
10 CUTIC	10-FS-349	5/5/L	6943		X	S _i : l a	r 6'	" from 803-8 803-802	302 FF / GG	1-40	2						3	74
TRANSFER	ITEM NUMBER			TRA	ANSF	ERS HED BY		TRANSFERS ACCEPTED BY		DATE		REMARK		1	_	/ /.	0	w-site
1	1-10)	lo	کمر	/	R. Am		audine Lie	hoer	5/5/96	(0)] {)an	pla	5	ANG ly ?	ed o	w. site
2						- J		0										
3															^		_ 1	
4												SAMPLER'S	SIGNAT		wes	vR.	Dan	



Field (echnical Services 166567 Rev. 08/89

О.Н.	MATERIALS CO	ORP. •	P.O.	. BOX 551	•	FINDLAY, OH 45839-	-0551	٠	41	119-423-3526
PROJECT	PROJECT CO	Alau	W	LITT PROJECT MAN	PROJE			NUMBER	715.17	ANALYSIS DESIRED INDICATE EPARATE CONTAINERS)
TEM NO	SAMPLE NUMBER DA	Marsh b	GRAB COMP	Jim I		A low white DESCRIPTION E MATRIX AND OF SAMPLE)		N. OF CO		DO PEMARKS
1 (15)	00-F5-350 5/b/	46 0939	X	Soil at	6",	from 508-507 A 508-507 BB	<i>A</i> ,	1-4	62 X	375
2 CLT1	2 F5-351 5/4	1944	X	So, I AT	6" -	509-508 B		1-4		376
3 (15)	20-FS-351Dp 5/4	96 0944		Duplicate	<u> </u>	509-508 CC	8 BB	1-40		377
4 CW	w.+5-352 76	46 9950	X	Suil at		TOM 508-507 C 508-507 DD		1-4	2	310
5 :15)	00-F5-353 56	901010	X	So.'l at 1	b" fr	on 497-496 C 497-496 DD	۲,	1-40	z X	379
	00-F5-354 56	91 1020	X	Soil at	6 ^h fir	496-4951 496-495 CC		1-40	2 X	380
7 CLT	00-FS-755 5/4	91 1115	X	Suil at	6"	From 800-799 E	E	1-40	$\overline{\lambda}$	381
8 CLJ	100-FS-356 74	96 1123	X	Soil at	6" 6	801-800 GG	F,	1-40		382
9 CLT	00-F5-356PA76	96 1123	X	Duplicate		801-800 6G	FF,	1-40	- 12 /	383
10 CLT	co +5-357 5/6/	96 1128	X	50,11 at	6" F	803-805 HH	6,	1-4.	t X	384
TRANSFER NUMBER	ITEM NUMBER		TRANSFE INQUISH			TRANSFERS ACCEPTED BY		DATE	TIME	Λ
1	1-10	bree	~ K	· Ann	Cla	udene Si han	n	764b	1200	Samples Analyzed on-site
2						-0			1 - 1	
3										
4										SAMPLER'S SIGNATURE



CHAIN-OF-CU- (ODY RECORD

 $\begin{array}{c} \text{Form 0645} \\ \text{Field rechnical Services} \\ 166541 \end{array}$

7	D.H. M	ATERIALS	CORP	·. •	,	P.C). BOX	551	•	FINDL	-AY, OH 458	39-0551	•	419	9-423	-3526	3							
PAC	OJECT NA OJ. NO. 1831 ENT'S RE	PROJE	CT CONT	Lese Ala Yurg	W / /		Whi	DJECT LOC THE DJECT MAR	PROJ PROJ JAGERVSI	O SUPERVISOR	Lejeun PHONE NO. 151-25 1/2 Wh	99	NUMBER OF CONTAINERS	(IND SEP/	ALYSIS ICATE ARATE ITAINEI	,	A	66						
ITEM NO.		AMPLE JMBER		TIME	COMP	GRAB			SAMPLI (INCLUI POIN	E DESCR DE MATR T OF SAM	APLE)		P		(y)	Y <u>Z</u>	_	/					REMARKS	
1	CLJIO	o-F5-027	41346	1634		X	201	lat	6"	402-	702-70 701 B	1 1/	1-402	X										
		-F5-023	11/ 1			X	S.	at	ζ"	from 70	703-7 3-702 [3	1-40	2 X										
3	CL5/00	-F\$-033	419/16	1716		X	Soi	1 at	6"	from	804-8 4-803C	03B,	1-4.2	-X										
4													_											
5																								
6											•													
7																								
8																			1		7			
9																								~~~~~~
10																					-			
	TRANSFER	ITEM NUMBER		_	RELIN		HED BY			AC	RANSFERS CCEPTED BY			TIME	REM	ARKS	50	ካዋ	les	5		Sent	To	Lour T.A.T. 910)451-
	1	1-3	1	Loca	N	K	Ac	·	FED)-EX	6921491	264	724/96	700				(γ_k	(Y	, . -	INC.	24	hour T.A.T.
	2		_								- · · · · · · · · · · · · · · · · · · ·				7	le a	se.		fa	X	ſ	esults	To [(910)451-
	3													A. 1	SAMP	LER'S	18	O ATURE	门	7)		howks.	-/	
	4																			16	20	<u>/ K.,</u>	Jean	/



TRANSFER 2

Form 0019 Field Technical Services

Rev. 06/89

166541

960042 LI 419-423-3526 FINDLAY, OH 45839-05\$1 O.H. MATERIALS CORP. P.O. BOX 551 PROJECT LOCATION PROJECT HAME Lejeune. ANALYSIS DESIRED Lejeune, 1 UNDICATE PROJECT CONTACT / CW PROJ. NO SEPARATE (96) 451-2599 18319 CONTAINERS CLIENT'S HEPHESENTATIVE PROJECT MANAGER/SUPERVISOR, Jim DINA/ Man whit? VANN MURCLIBUIN SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) SAMPLE T=3 CY REMARKS DATE TIME from 702-7011 Suil 1-402 1665100-55-027 702-701 B 703-702 1 407 2815102-FS-023 703. 702 B 804-80313. Suil at 3t15100-F3-0331/1996/1716 REMARKS Samples Seat To

CKY INC. 24 hour T.A.T.

Please fax results To [1910] 4511809] Thouks. TRANSFERS TRANSFERS ITEM RELINQUISHED BY ACCEPTED BY DATE TIME NUMBER ED-EX 6921491264 1/21/2 10:00 2 3



Form 0019 Field Technical Services 166568 Rev. 08/89

O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526 PROJECT NAME PROJECT LOCATION Lejeune, N.C. Lejeune ANALYSIS DESIRED Comp (INDICATE NUMBER CONTAINERS PROJECT CONTACT SEPARATE (910) 451-2599 CONTAINERS) Marshburn VANN SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) SAMPLE DATE TIME REMARKS Continuation smale from 1/2/46/1440 1-402 1 | 12500-13-001 1-12 Base ContineTion 2 KISIUD-C5-002 -407 Base Confirmation Sample from 3 CUTIOO-CS-003 Sample from Confirmation 4 CUTIOD-CS - OC 4 -407 Abc 1-12 Base Confirmation Samole tron 5 CUTION-CS-005 -4 ca AUL 1-17 Base Confirmation Sample From 6 CLT100-C5-006 -402 1-17 Base Confirmation Sample from 7 CLTIVE-CS 2007 -40z Base Contermation 1-4 oz 8 KUSIOU-C3-008 ADL 1-12 Smole Costraction tron 1-402 9 (15100-05-009 Buse AOC 1-12 from Centifrantion 10 CUSI00-CS-010 1/2946 1545 1-407 AUC 1-R Base **TRANSFERS TRANSFERS** ITEM Simples Analyzed on-site NUMBER **RELINQUISHED BY** ACCEPTED BY DATE | TIME 1-10 3 SAMPLER'S SIGNATURE



Form 0019 Field Technical Services CCE70 Rev. 08/89

	MATERIALS			•		D. BOX 551	•)H 45839-0551		41	9-423	-3526								
	Camp	E	lejev Marsi			I DDO JECT M	PRO. PANAGER/S	SUPBRVISOR	νε, Ν.C. 599 νη.Τ	NUMBER OF CONTAINERS	(INI SEP	DICATE PARATE NTAINE	AS)	ED /						7	
E	SAMPLE NUMBER		TIME	0	GRAB			LE DESCRIPTION IDE MATRIX AND IT OF SAMPLE)	1	P		40		//					REMARI	ks.	
1 CUSTON	CS-OIDDP	5/2/9	6 1545		X		<u> Aon</u>	ADC 1-12	s'mple Bask	1-40	₂ X										
2 CL510	0-25-011	5/29/9	1 1534	1	X	Confir	nation ADC		Silevall	1-40	_E X										
3 C12)0	v-is-012	KL /	1557		X	CONFIR	Aoc	<u> </u>	from Sidewall	1-400								,			
4 (15)	00-45-013	5/2/10	,1559		X		rnati Ao	C 1-12	5 idewall	1-40	2 X									-	
5 CL510	· C5-014	5/z/	1600		X	CONC	rmati.	2 5mple	side wall	1-4.	•										-
6																					
7																					
8																					
9																				i	
10																	-				
TRANSFER 1 NUMBER	NUMBER	_	Avco	RELIN		HED BY	é	TRANSFE	D BY		TIME		S _a ,	ا ور	les		A,	mly zek] 0~	-sire	
3													EDIO OLO		. 1						
4										İ		SAMP	ER'S SIGN	NATURE	luc	92	/	R. St	in	/	



Field Technical Services Rev. 08/89

О.Н.	MATERIALS	CORF	٠. •	•	P.(D. BOX 551	•	FINDLAY, OH	45839-0551	•	4	119-4	23-352	26								
PROJ. NO.	T NAME CUMP D. PROJE B19 I REPRESENTATIV VANA	CT CONT		lan		PROJECT LOC W4, H PROJECT MAN Jim D	PRO.	JECT TELEPHONE NO. (0) 451-25 UPERVISOR		NUMBER OF CONTAINERS	10	NDICA EPARA ONTAI	TE TE	SIRED			7///					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB		SAMPL (INCLU POIN	E DESCRIPTION DE MATRIX AND T OF SAMPLE)		, a					//		//			REMARKS	,	
1 1	00-65-015	5/3/16	1328		X	Confirma ADO	لده .+ 33	Sample F -38 Base	rom	1-4	2	X										
2 CLJ	100-C3-016	5/30/A6	1333		X	Confirme Al	tb~		from 2	1-4.	-	X										
3 CW	100-cs-617	5/24/66	1335		X		DC 3	Sample 3-38 Bis	from L	1-4	. 7	X										
4 CLJ.	100-C5-018	5/30/16	1341		X	Confirme A	Tibro 3	3-38 Side	rom vull	1-4	5.7	X										
5 CIT	100-63-019	5/30/AL	1346		X	Confirma		33-39 5.le	from unll	1-4	6 2	X										
6 C15/	00-cs-020	5/3/h	1353		X	Confirme A		Sample 33-38 5.de	from wall	1-4	0 2											
7 C151	100 -CS -02 a pp	5/2/46	1353		X	Conf. rn. AOC 33-3			from plicate	1-4	ه ځ											
8 CLS1	08.021	5/30/16	1358		X	Confirm AOL 3	atio 33-38	N Simple	from	1-4												
9 C L. J	106-C5-022	5/30/16	1463		X	Confirm ADC	33-3	u Simple	from	1-4.	2											
10 CLJ	100-25-023	5/31/16	1408		X	Costi-ma AOC		Smple.	from	1-4.	.1	1										
TRANSFER	ITEM NUMBER		- A	TR. RELIN	ANSF QUIS	ERS HED BY		TRANSFERS ACCEPTED B	Y	DATE	TIM	E RE	MARK:	S	ola C		Δ	valy Ze	J.	2- ده	ite	
1	1-10)	(lo	Cor	1 1	. Scon (X2 Tany	pel	5/30/16	5	ig .	_		رعام	,	111		•			
2								·														
3								····								- ^ -						
4	<u> </u>							***************************************				SAI	MPLER'S	SIGNAT	URE	104	gs/	R.	Scan	_/		



Form 0019 Field Technical Services 166576

O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526 PROJECT NAME **ANALYSIS DESIRED** Camp Lejeune, N.C. PROJECT CONTACT A. INDICATE **SEPARATE** 18319 CONTAINERS) CLIENT'S REPRESENTATIVE Marshburn VANN SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) COMP SAMPLE NUMBER DATE TIME REMARKS -407 Costirnation Sample from 1 C15/00-CS-024 756/1412 from -407 2 LUT100-US-UZ5 1 -40z Sample 3 (1500-05-026) from 1-402 4 KISIUD -65-027 5ide wall from -402 5 CO100 CS-028 -407 from 6 CUT100-65-029 Sidenall fro~ 7 LUTAD - CS-030 Br. 50 from -402 8 KLISKO CS 030DD REMARKS Samples Analyzed on-site **TRANSFERS** ITEM TRANSFERS **RELINQUISHED BY** ACCEPTED BY DATE TIME NUMBER 2 3 SAMPLER'S SIGNATURE



Field Technical Services Rev. 08/89

О.Н.	MATERIALS	CORP). (•	P.C	D. BC	OX 551	•	FIND	LAY, OH	45839-0551	•	41	9-423-	3526										
	PROJE	E CONT	A	Han	N			Car PA MANAGER	OJECT TEL 10) 4 /SUPERVIS	EPHONE NO. 151-18 0 ^R /	2, N.C. 109	NUMBER CONTAINERS	(INI SEF	ALYSIS DICATE PARATE NTAINER	•	RED									
ITEM NO.	SAMPLE NUMBER	DATE	TIME	awoo	GRAB 2				PLE DESCI UDE MAT INT OF SA		<i>M</i> ,7 <i>V</i>	OF CO		49			/	/	/	<u>//</u>		REN	1ARKS		
11	8-45-031	5/3/9	1047		X			OC. 2	5-28	Side		1-4	υ ξ												
2 CLS)	20-63-032	346	1051		X		confirmos		5mpl 19-32	6 (0	m wull	1-40	z X	1											
3 (5)	00-65-033	5/hl	1054		X		de affilie	40C 2	500p	Siden	un ull	11.11) ? X												
4 (45	avis-034	5/31/91	1057		X			10¢ 3	29.32	Siden	ron	1-4,	, č X												
5 (15)	۵25-035	73,91	1104		X		17) 11.0<		5001 29-32	ple f Siden	70.m wll	1-40	, e X									4127		-	
6 CW1	00-cs-036	5/31/96	1108		X		Confita		San 29-32		fran ewall	1-40	. X												
7 Ccs	100.65-037	37/96	1113		X		را به د م	nation Aq	29-32	ple Side	from wall	1-42	- 1 V												
8 C 15	100-65-038	1/16	1117		X		Confi	ADL.	29-32	سمام	from	1-4	, e X	1											
9 CLJ	ja:cs-039	3/16	1122		X		المجادون		29-33		fran se	1-4	~X												
	00.05.040	7/ /	1125	1	X		Co.sfir	matio AOL	29-32 29-32	mple 2 Bus	from	1-4	77 X												
TRANSFER	ITEM NUMBER					FERS SHED	ву			TRANSFERS		DATE	TIME	REMA	ARKS	nolo	, ,	/_	1.10	1,70		Or	~ - S	ite	
1	1-10	ク	Clor	bon-	1 /		Azan			Zia	urel	5/31/7b	1300	ے ا	<i>)</i> (0		/	VT	γα	יין די					
2							7				V														
3																									
4														SAMPL	ER'S S	GNATU	RE /	Log	· de	/ {	· ×	de	m	/	



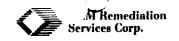
Form 0019 Field Technical Services Rev. 08/89

O.H. N	MATERIALS	CORF) .	•	P.C	D. BOX 551	•	FINDLAY, OH 45839-0	551	•	41	9-423-3526
CLIENT'S	Camp	CT CONT	2)eU	A	lan	PROJECT	Con PRO	DEJEUNE, N DIECT TELEPHONE NO. 10) 451-2599 SUPERVISOR 1/ Alaw Whitt		NUMBER CONTAINERS	(INI SEP COI	NALYSIS DESIRED DICATE PARATE INTAINERS)
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB		SAMP (INCLU POIN	LE DESCRIPTION JDE MATRIX AND NT OF SAMPLE)		, P		REMARKS
1 CLS10	קסטים יבי ט	931/9	1125		X	Duplieu From	4	C 29-32 Sing (bise 1	-40	4	
2 4510	× · 4 · 041	13/46	1236		X	Contina	or 1	3-16 Base from	$\dashv I$	-40	₹ X	
3 CLTIO	c. C5-642	7/2/	1239		X	Contir		Somple from		-4.	1	
4 C-5k	0-6-643	5/3/16	1242		X	Contit			- 1	-40	X	
5 (55/01	o.cs.044	93/41	1245		X	Cation	200 1:	Simple From	n /	-4.		
6 CLTA	or Us-045	5%. /	1-110	T	X		matio Aou 1	& Scupple From	1	-40	ΙV	
7 CLTIU	o -cis -046	5/3/9b	1250		X	Confir		u Sumple from	, ,	-400	V	
8 CISTO	v-Cs-217	5/3/2	1253		X	Conti	moti		n (-4 _{0e}		
9											1	
10												
TRANSFER	ITEM NUMBER				ANSF	ERS HED BY		TRANSFERS ACCEPTED BY	D	ATE	TIME	Samples Analyzed on-site
1	1-8		Con	or.	//	2. An		and 2 January	J 5/	3/91	300	
2												
3												
4												SAMPLER'S SIGNATURE ROOM R. Scan



Field Technical Services Rev. 08/89

OH MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 48839-0551 419-423-3528 **ROLLED MATERIALS CORP.** **PROJECT CORPLET LOGICITY **PROJECT CORPLET																	
CLIND'S REPRESENTATIVE								r, OH 45839-0551	•	419	9-423-3526						
CLSTON-CS-048	PROJ. NO. 1831 CLIENT'S F	EPRESENTATIVE		1	<u> </u>	White	PROJECT TELEPHO (9/0) 45 NAGER/SUPERVISOR	1-2599	NUMBER CONTAINERS	(IND	ICATE ARATE ITAINERS)	ED					
CLStop-CS-048	ITEM NO	SAMPLE NUMBER DA	TE TIME	COMP	GRAB		SAMPLE DESCRIPT (INCLUDE MATRIX A POINT OF SAMPL	ION AND E)	8		1000	//	//	//		REMARKS	
2 LISTOP-CS-049 9/9 6335 Continential Scriple from 3 CLITICO-CS-0500 9/9 0839 Continential Scriple from 4 CLISTOP-CS-0500 9/9 0839 Continential Scriple from 4 CLISTOP-CS-0500 9/9 0839 Deplicate Continential Scriple From ADC 17-20 Sidewall 1-408 5 CLISTOP-CS-051 9/9 0843 Continential Scriple from 4 CLISTOP-CS-051 9/9 0843 Continential Scriple from 4 CLISTOP-CS-052 9/9 0845 Continential Scriple from 4 CLISTOP-CS-053 9/9 0850 Continential Scriple from 4 CLISTOP-CS-053 9/9 0850 Continential Scriple from 4 CLISTOP-CS-053 9/9 0856 Continential Scriple from 4 CLISTOP-CS-055 9/9 0856 CONTINENTIAL SCRIPLE from 4 CLISTOP-CS-055 9/9 0856 CONTINENTIAL SCRIPLE from 4 CLISTOP-CS-055 9/9 0856 CONTINENTIAL SCRIPLE from 4 CLISTOP-CS-055 9/9 0856 CONTINENTIAL SCRIPLE from 4 CLISTOP-CS-055 9/9 0856 CONTINE		0-05-048	16 083	2	X		17-20 5		1-4	2							
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Form 0019 Field Technical Services 166582

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Form 0019
Field Technical Services
Rev. 08/89

166585

419-423-3526 O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 PROJECT LOCATION PROJECT NAME? عهو١٨٥ ANALYSIS DESIRED Lejeune, N.C. iano (INDICATE PROJECT TELEPHONE NO. NUMBER CONTAINERS PROLIECT CONTACT PROJ. NO. SEPARATE 18319 (916) 451-2599 CONTAINERS CLIENT'S REPRESENTATIVE VANN Marshburn GRAB SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) COMP SAMPLE NUMBER DATE TIME REMARKS Samole form -407 1 Kitho 45-064/ 10C 1-12 boot Irmation Sample from -402 2 (LISIGO US-065 Sample from puticmation 3 LISION CS.066 707 5 Lowall -404 Confirmation 4 Casia is -067 Base Confirmation Sample 1-4cz 5 CLJ100-CS-068 9 Somple from 1-402 6 KLT/Wis -069 / Simple from 400 CLT100-CS-070 -402 910651 8 CL5700-CS-070DD from 33-38 5.4 uffirmation Sample from 9 CIJ700. LS-071 ot Sidewall 1-402 10 CLT/60-CS-072 1/ 33-38 S. Lewell REMARKS Sumples Analyzed on -site **TRANSFERS TRANSFERS** ITEM ACCEPTED BY TIME NUMBER **RELINQUISHED BY** DATE -10 2 3 SAMPLER'S SIGNATURE 4

Form 0019
Field Technical Services

Rev. 08/89

166586

O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526 PROJECT LOCATION PROJECT NAME Leieune **ANALYSIS DESIRED** Camp UNDICATE TPROJECT CONTACT PROJ. NO. SEPARATE 18319 CONTAINERS) CLIENT'S REPRESENTATIVE WANN Marsh burn Jim Durd/Alow Whith SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) SAMPLE NUMBER TIME DATE REMARKS 4/16/0707 -402 LI5/00-65-073 sidowall confirmation Sample from -402 2 CISION LS-074 194/96 Base |3 KLI100-CS-075 |74/96|0733 Simple from 402 4 615/00-65-076 Sample from 5 (15/00 CS-077 102 Buse Somple from 6 C15100. C5-C78 1-402 Sample from 7 Kanor-cs-079174 AOC 1-12 10 REMARKS Samples Analyzed on-site **TRANSFERS TRANSFERS** ITEM ACCEPTED BY TIME NUMBER RELINQUISHED BY DATE 1 2 3 SAMPLER'S SIGNATURE LOCOW K. B 4



Field Technical Services Rev. 08/89

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3											BALLS	LER'S SIG	NATIO	<u>. /</u>	1			1		
4				_							SAMP	S SIG	INA I UH		ton	21	<u>(. x</u>	ten		



Form 0019 Field Technical Services Rev. 08/89

(D.H. M	ATERIALS	CORF	·. •)	P.C	D. BOX 551	• FINDLAY, OH 45839-0551	•	41	19-423-3526
PR		Lang	CT CONT		lan		PROJECT LOC. Con Nh, ++ PROJECT MAN		NUMBER	(IN SEI CO	NALYSIS DESIRED NDICATE PARATE ONTAINERS)
ITEM NO.	S	AMPLE UMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	O.		OU REMARKS
		o-cs ·084	15/10	1634		X	Confirmation 1	tian Somple From -IZ Sidewall	1-4	, F	
┢	1	~25~290	11/1	1639		X	Costions Acc 1	Tim Sample from	1-4	,,	
		-CS-c90Df	6/5/91	1639		X	Duplicati From	ADC 1-12 Sidenal	1-4.	7	
4	CC5100	-cs-041	1/5/9	1316		X	Confirma Aoc	1-12 Buse	1-40	,z)	
5	CETIVE	٠- ١٥- ١٩	6/5/91	1319		X	Confirmati Aoc	Trium Somple From 1-12 Ruse	1-4	7	
6	CLIM	0-05-093	4/5/9	1323		X	Confirma Acc	tion Sample from 1-12 Base	1-4	1	
7	CLITIC	x-cs-094	45/96	1326		X	CONFIRMONT	1-12 Base	1-4	1.	
8	CESIO	o-c's-095	45/16	1330	•	X	Confirm AOC	ation Sample from 1-12 Base	1-4	se X	
9									1-4	85	
10									1-40	r X	
	TRANSFER	ITEM NUMBER	3	ı		IANSI	ERS HED BY	TRANSFERS ACCEPTED BY	DATE	TIME	$1 \sim 1.5$ $1 \sim 1.5$ $1 \sim 1.5$
	1	34-88	46	ao	w	1	Azar	Dauga	6/5/96	14.	2
	2	1-3	3	live	U	L	. Den	Col Vousal	1/96	/>	2
	3										
	4										SAMPLER'S SIGNATURE LOCOU R. Acan



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1	D.H. MATERIAL	S CORF	· •	,	P.C). BOX 551	• FINDLAY, OF	H 45839-0551	•	419	-423-3	526							
PRO CLI	DJECT NAME DJ. NO. PROJ 8319 ENT'S REPRESENTATION	VE		1/0	W	Whitt	MO LEJEUM PROJECT TELEPHONE NO (9/0) 451-3 AGER/SUPERVISOR	C, NC. 2599 L.+r	NUMBER CONTAINERS	(IND	ALYSIS I ICATE ARATE ITAINERS								
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	•	SAMPLE DESCRIPTION INCLUDE MATRIX AND POINT OF SAMPLE)		o n		709						REMARK	s	
1	CLJWO-CS-096	1/6/40	0837		X	Cestirmat ADC 1-		fron	1-40	7						1		!	
П	CLJ140-ES-097	111	1043		X	Confirma		From	1-40										
3	'15140.CS 2098	1/6/40	1046		X	Confirma AOC 5		from	1-40	ŧΧ									
4	CUT100-CS-099	1/6/96	105		X		nation Sample 3.38 Sidewell	from	1-40	z X		•							
5	IJKO-65-100	6/6/96	1529		X	Cation	nas Somple 33-38 Buse	from	1-402	- X									
6	CLT100-CS-1000y	111	1		X	Confic	nation Sample 33-38 Base	from	1-40										
7																			
8																			
9																			
10												- 							
	ITEM NUMBER	R	Om		ANSF IQUIS	ERS HED BY	TRANSFER	ВУ		TIME	REMAF	anp	les	A	1~4	lyzed	٠ - ١٠	site.	
	2 5+6		Oro	~ ~	K	Hen.		upel	9/6/96 6/6/95	153									
-	4										SAMPLE	R'S SIGN	ATURE	<i>()</i> ₁	~.	- R	din		
											<u> </u>	.		7-0	<u>''</u>	× 11 × 1	J 500 V		



Field Technical Services
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	MATERIALS	COR	P. •	•	P.C	D. BOX 551		FINDLAY,	OH 45839-0551	•	4	119-423-3526
PROJECT	CCMP PROJE PREPRESENTATIV	CT CON	Alan	N		IL ITT	PROJE GIU ANAGER/SU) 451-2	e, NC. 549	NUMBER	[///	NALYSIS DESIRED NDICATE EPARATE ONTAINERS)
ITEM NO.	SAMPLE NUMBER		TIME	COMP	GRAB 2	Jim		DESCRIPTION DE MATRIX AN OF SAMPLE)	whitt No	J N	5	ONTAINERS) REMARKS
1 11510	1-05-001	3/24/9	11440		X	Confirmat	ک سن. Auc		From Buse	1-8	٠,)	NEESA Level C
2 CL110	10-C5-60Z.	5/27/q	6 1445		X	Contitua	+.b~ Aoc		From Base	1-8	1	
3 (15/4	1-45-003	5/27/4	1451		X	Confirme	Aoc	c 1-12	Fron Base	1-8.	e X	
4 C45/0	10 -Cz - 004	5/21/4 l	1503		X	Confirmat	Ao	C 1-12	From Buse	1.8	02	
5 curn	n-Cs-005	5/23/4	1507		X	Cosfirm	AC	SC. 11-12	From Buse	1-8	01	
6 CLIN	v-C5-006	5/2/1	1512		X	Centions		06 1-12	from Base	1-8	6 8	
7 (2510	00-CS-007	5/29/9	1531		X		A	Sample 100 1:12	from Base	1-8	, X	
8 045/6	v_C5-008	5/2/4	1536		X	Confira	A A	Sample Oc 1-12	From Base	1-8	cz X	
9 Cisu	L-Cs -609	5/2/2	1538		X		A	Sample loc 1-12	From Base	1-8	٨,	
10 C W 14	-CS 010	5/2/q	1545		X	Confirma	tibre	Sample loc 1-12	from Basa	1-80		
TRANSFER	ITEM NUMBER			RELING		HED BY		TRANSF ACCEPTE	D BY		TIME	Janpies sevi 10 CNI INC.
1	1-10	,	loc	ow	K.	Acon	FEL)-EX 6"	721491286	5/24/6	1700	48 hour T.A.T. Please Fox
2								·				Results To (910) 451.1869. Thunks
3												Hold Somples untill Confirmed with US.
4												SAMPLER'S SIGNATURE WONK. Scom



С	.H. MATER	IALS	CORP	·. •	•	P.C). B	OX 551	•	FINDLAY, O)H 45839-0551	•	41	9-42	3-352	26									
	J NO TI	MOJEC	Le	Jevn4	e .			PROJECT LOC	or p	Le ev	ve, NC.	v		IALYS DICATE	E	SIRE) (4)	040)			$\overline{/}$	//		,	
	8319				AL	لبه		Whitt		9/0) 451-2 SUPERVISOR	2599	E S	CO	PARATI NTAINI		/		"/	/	//	//	//	1		
	NT'S REPRESEN	TATIVE V/V	Ma	rshb			·····	JIM D	NAGER/	Alan W	ルルナ	NUMBER CONTAINERS			/8	11.10	//	//			//		•		
ITEM NO	SAMPLE NUMBER		DATE	TIME	COMP	GRAB			SAMP (INCLI POII	LE DESCRIPTION JDE MATRIX AND NT OF SAMPLE)		0.0			39"			//	//	//			REMARI	ΚŞ	
ľ	(15th: CS-0/	DP)	5/24/b	1545	·	X		1	<u> </u>	outifmetim s Auc 1-12	Buse	1.80	. X	1								VEE.	SA L	ere/ (**************************************
2	LTice es e	11	2496	1549		X		Confirmat	رماء	Somple +	sidenall	1-80	έX												
3 (LJIOS CS.	712	796	1552		X		Confirmo		Aby 1-12	from 2 Siderull	1-80	2	1											
-	lsp.·cs-		-110	 		X		Confirma		Aoc 1-1	From Sidewall	1-80	, X												
5	-65100 CS-	0,45	1/2.1/16	1600		X		Confirm	Tiel	Sample 1 Aoc 1-12 Black	Sixewall	1-80	7		ļ										
6 (Lisius. RB	521	12/16	1613		X						1-1L													
7 (151W-FB	5z9 5	2/416	1607		X		Fiel	d	Blank		1-11	<u>. X</u>												
8	····																								
9																									
10	····																								
ANSFER		EM JBER		F		ANSF				TRANSFE ACCEPTE	ERS D BY	DATE	TIME	REN	AARK!	s nol	0.5	Son	it	T.	C	KY	Ϊ́	JC.	
g	2	7	_	1,		, 0) –	1- 1	re		1491286	5/21/			48	he	ייי	TJ	4.T.	F	109	se.	Fig	(
	, / -	7	\dashv	Loc	ov.	<u> </u>	•	XITAN	Pt	D-EX 6721	1471286	Al			Re	إدى	Ts	7	0	(91	0) 4	51-18	309.	ic. K Musik	<u>.</u> 5
	3									, 11,31,				/	40/3	l	Sa	mple	es	U~	H/	Co	nfilm	eil wi	th US
	4															SIGN		1			7 4	/			
									<u> </u>			Ll		1				M	402	<u>~ ^</u>	· X	em	-	1 —	

Field Technical Services
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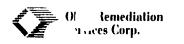
O.H. MATERIALS CO	ORP. •	P.O. BOX 551	• FINDLAY, OH 45839-0551	•	41	9-423-3526
/83/9	Lejeu Alan Mars	Whitt PROJECT MAN	ATION APPLEYENE, NC. PROJECT TELEPHONE NO. (9/0) 451-2599 HAGER/SUPERVISOR VAN/ Alaw Whitt	NUMBER CONTAINERS	(INI SEF	NALYSIS DESIRED DICATE PARATE NTAINERS)
SAMPLE NUMBER DA	TIME O	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	o n		REMARKS
1 645/00-65-015	96 1328	X Confirm	nation simple from	1-80) e	Neesa Level C
2 LIJIVU-CS-016 5/3	46 1333	X Confirm	nutiles Surple from OC. 33-38 Base	1-80	<u> </u>	
3 CUSICU- CS-017 5/3	996 335	$A \cup A$	matibu Surple from	1-80	2	
4 4 4 100-65 018 5/3	946 1341	Constit	nation Sample from OC. 33 37 Sidewall	1-80	7	
5 CLTIOL-CS-019 5/3	1346	IV \	AOC 33-38 Side Wall	1-80		
6 CL5100-CS-020 5/3	11 1353		ation sample from 40C 33-38 Sidewyll	1-80	2	
7 CUSIUU-CS-020pp 5/3	1353	Duplicat Surple	Prom AUC 33-38 silent	1-80	X	
B CUTION . C5-621 5/	1 358	\triangle Ao	nation Simple from C 33-38 Side wall	1-80	ZX	
9 15100 - 65 022 3/3		Confle 40	mation Souple from C 33-38 Sidewall	1-80.	, X	
10/25/00-CS-823 55	96 1408	Conti	AOC 33-38 Sidewall	1-802		
NUMBER NUMBER		RANSFERS NQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	Sumples Sent To CKY INC
1 1-10	Coron	R. Hear	FED-EX 6921491290	5/30/96	700	48 hour TAIT Please Fux Results To (910) 451-1809. Thuk S.
2		:				
3						Hold Samples untill we contact you.
4						SAMPLER'S SIGNATURE DOCON R. Scan

Field Technical Services
C E 7 A Rev 08 89

O.H. MATERIALS CORP. • P.O. BOX 551	• FINDLAY, OH 45839-0551	•	419-42	423-3526
PROJ NO. PROJECT CONTACT 18319 Alaw White PROJECT CONTACT PROJECT	IDAN Alan Whitt SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYS (INDICAT SEPARAT CONTAIN	ATE (1) STATE (1
1 CLS100 - CS-024 5/30/16/412 Co.st.1	AOC 39-42 Buse	1-80;	X	NEESA Level C
2 LLT100-C5-025 5/36/16/14/4 X Costica	Flow Sarle From ADC 39-42 sidewall	1-807	X	
100 43.026 796 1917 AOC	estion Smple from 25-28 Buse	1-800	X	
4 CL363-L3-627 / 1946 1760 AOC	mation Simple from 25-28 Sidewall	1-808	X	
AOC	inneticu Somple from 27-32 Sidewall	1-802	X	
10 C 27 KO C 3 TOC 1 / 1971 19 26 1	29-32 Side wall	1-808	X_{\perp}	
1/(60) $1/(1)$	L 29-32 Base	1.8 0.		
8 CLING CS-030 DP \$ 50/11 1430 Duplicate	Confirmation Simple an AOC 27-32 Birse	1-802	X,	
9 (15100-43-530 730/41 1437	RINSOTE Blank	1-11	X	DO NOT RUN!
10 CUTION RB 530 5/3/11 1441	Kinshire Diank	1-14	\mathbb{X}	DO NOT RUN!
TRANSFERS NUMBER RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE T	IME 2	Sumples Sent To CKY INC.
1 1-10 avon R. Aza	FED.EX 6921491290	5/30/117	00 4	48 hour T.A.T. Please Fux results To (910) 451-1809. Thats.
2				(910) 951-1809. Thats.
3				Hold Samples untill we contact you.
4			SAM	LAPLER'S SIGNATURE LOYER R. Aray

 $\begin{array}{c} \begin{array}{c} \text{Form 0019} \\ \text{Fic.} \end{array} \begin{array}{c} \text{Fechnical Services} \\ 166577 \end{array}$

O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526 PROJECT LOCATION PROJECT NAME mp Lejeval PROJECT TELEPHONE NO. **ANALYSIS DESIRED** (INDICATE PROJ. NO. NUMBER OF CONTAINERS Alaw Whitt SEPARATE 18319 A10) 451 - 2579 CONTAINERS) CLIENT'S REPRESENTATIVE, Jim DUNN / Alaw Whitt Marshburd GRAB SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) COMP SAMPLE DATE TIME REMARKS CLS100-CS. 031 3/3/96/1047 NEESA Level C -802 25-28 Sidewill 2 CL5100 is-032 13/96/1051 Costirnation Simple from -80t 3 (CISIO CS-033 /1/91/054 Confirmation Sample from LL510. 45-034 /31/4 1057 Sidowell Continuation Simple from 5 CUSION US-035 /31/4/1104 AOC 29.32 Confirmation Souple from 6 CLTICL CS 036 /31/961108 Costinuition 7 CLTIOU-LS 037 / 71/41/11/3 ACC 29.32 Surgle from 8 CLS100 US 038 /3/96 1117 1-802 15/00 LS 037 /3/9/11/22 800 Buse Simple 10 C-5100-05-040 73/96 1125 1-80 E REMARKS ITEM **TRANSFERS** TRANSFERS Sonples Sout To CKY INC. 48 hour T.A.T. Please Fax Results To (910) 451-1809. Thouks NUMBER RELINQUISHED BY **ACCEPTED BY** DATE TIME 1 2 Hold Samples untill we contact you! 3 4



CHAIN-OF-(TODY RECORD

Form 0019 echnical Services 7 O Rev 08/89

O.H. MATERIALS CORP. • P.O. BOX	551 • FINDLAY, OH 45839-0551	•	419-423-3526
PROJ. NO. PROJECT CONTACT 8319	in Dun Alan Whitt	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) REMARKS
NUMBER DATE TIME 8 8	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)		REMARKS
1 C 1/10 . C 2 . C + C D L \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	cote Confirmation Souple	J-807	NEESA Level C
- Carry C3-C41 31/76 Z36	Acc 13-16 Ruse	1-807	X
3 1316 35-042 3/96 1634	ACC 13-16 sidewall	1-800	X
+ 100300 C3-045 1 1/1/6 124 2	Add 13-16 Sidewall	1-803	X
0 (13/00-03-144 / 1/96 12-15)	ADC 13-16 Signal	1-805	
° (CD16C- CS-045 / 7/96 1/248)	ADC 13-16 sidewall	1-80E	X
1 (23/00-13-096) 791/250	ACC 17-20 Bise	1-802	X
1 CT 1/00. CZ - 04 + 798 1272	AOC 17-20 Base From	1-802	X
9 CLI 100 PB-53) 5/31/96 1301	Riwsote Black	1-16	
10CLJION FB 531 5/31/91306	Field Black	1-1L	
TRANSFERS NUMBER RELINQUISHED BY	TRANSFERS ACCEPTED BY	CATE TII	Jumples 10 Ch 1 Exc.
1 1-10 Chron K. Am	J FED EXG421491301	13/16	48 har T.A.T. Hease Fax Rusults
2			To (910) 451-1809. Thouks
3 ,			Hold Samples wit. Il we contact you.
4			SAMPLER'S SIGNATURE (GROW R. Arm)

CHAIN-OF-CL CODY RECO

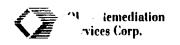
Field rechnical Services 166583

										419)-42	55	26			•						
PROJECT CONTACT 18319 ALCU Whitt CLIENT'S REPRESENTATIVE VANA Marshburn Jim 1								PROJECT TELEP (7/0) \$5	7-2599	NUMBER	ANA	ALY ICA ARA ITAI	DESIRED (10)									
ITEM NO	SA NL	MPLE IMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCRII INCLUDE MATRI POINT OF SAMI	A.O.	10	ý		REMARKS									
1 (LTIU	cs-048	6/1/7	60832		X	Contirma AOC	17-20 51	dewill	1-802	<u> </u>								VEESA	Le	vel (
	_	ر2-049	6/ /	0835		X	AOC	17-20 5	idewall	1-808	X							.1 1.2				
3 2	Who	LS 050	6/1/90	60839		X	Contir.	17-20 510	lewell	1-800	X		***								· · ·	
1 Ĉ	LSICO	עשינה בא	6/1/90	60831		X	Duplicate from		20 Sidewill	1-805	X											
5	15/co	25-051	4/9	60843		X	AUC		dewall	1-802	X	2										
6	.J/W	J-CS-052	4/96	0845	<u> </u>	X	CONGIA	17-20	sidewall	1-802	X											
7 (بر الد	3-63-653	V-/90	,08 50		X	Confir AOC	17-20	Sidewall	1-802	X											
8	,5100	o ℃ 5 1 054	6/1/46	0853		X	Confirm Auc	utibn Sa 17-20	nple from sidenull	1-802	X											
9 (45100	کر کرہ- کی۔	4/9	0856		X	Confic	17-20	sidenall	1-802	X									. \		
10 () L 5/0c	cs.056	41/90	7 Ca 1()					ingle from	1-800	X		4							1	/-	
TRANSFER	TRANSFERS NUMBER RELINQUISHED BY				ACC	ANSFERS CEPTED BY		ME	R	A C	mole	25	Se	wt	To	CI	ŚΥ	Inc	·.			
1 1-10 av		WEON R. Am FEDEX 692149131Z				6/3/96	16 B hour TAT. Please fax result								T5							
:	2									į,			The state of the s	٨						_		
	3									ģ	ŝ					1ple	25	until	1 we	Co	stact	yoυ.
	4									+		SA	A'	SIGNA	TURE	Veo	n	R.	Sa	2h /		

Field Technical Services

CCFOA Rev 08:89

O.H. N	MATERIALS CO	RP. • P.	O. BOX 551	• FINDLAY, OH 45839-0551	419- 3526								
<u></u>	CONP LO	ejeune Marshburn Marshburn	PROJECT MAN	ATION AP Lejeune, N.C. PROJECT TELEPHONE NO. (9/0) 451-2599 AGER/SUPERVISOR AND /Alaw Whitt	NUMBER CONTAINERS	ANAL (INDIC SEPAR CONTA	ica de la companya de						
TEM NO	SAMPLE NUMBER DAT	LE LIWE OF RES		SAMPLE DESCRIPTION INCLUDE MATRIX AND POINT OF SAMPLE)	OF	/3	REMARKS						
1 CLSA	ocs 057 6/1	460910 X	Contirma	-12 Sidewall	1-80	X	NessA Level C						
2 CLTK	0 45-058 6/1	160913 X	Confirm AOC 1-	ation Semple from	1-8c	X							
3 (15/10	0-65-059	960117 X	Contim AOC 1	-12 sidewall	1-8c	X							
} 	20 00 00 b/1/	 	AOC I	nation Symple from	1-8	X							
 	1-15 NOUP //	/ 	Frein AOC		1-8c	A							
 	0-65-061 1/		Contin		1-8	X.							
1	100 CS -012 1	 	AOC .		1-80	X							
	v -65-063 1/	7	AUC I	-12 Base	1-80	X							
1-1	x-FB-601 %		y.	sate Blank	1-14	X	Do NOT ANalyze						
-	x0-FB-6016/1	460937	\	sare Blank	1-14	X_{\parallel}	DO NOT ANALYZE						
TRANSFER	ITEM NUMBER	TRANS RELINQUIS		TRANSFERS ACCEPTED BY		ME	Samples Sout to CKY INC.						
1	1-10	aven R.	Acar	FED EX 6921491312	1/3/96		18 hour TA.T. Please Fax results						
2					9		6 (910) 451-1809, Thanks						
3					\$ 2		Danot run until we contact you.						
4							Sers SIGNATURE CON L Acan						



Form 0019 F chnical Services CCLUフ Rev. 08/89

166587

O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526 PROJECT NAME PROJECT LOCATION IMP Lejeune Comp Lever NC. **ANALYSIS DESIRED** (INDICATE PROJ. NO. PROJECT MANAGER/SUPERVISOR SEPARATE 18319 CONTAINERS CLIENT'S REPRESENTATIVE VANN Marshburn Jim DWN /Alaw Whitt SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) SAMPLE NUMBER DATE | TIME REMARKS Continuation Sample from 1-800 NEESA 1 CLTO-15 064 /4/10729 Level AOC 1-12 Base CONCITMENTION 12 KLITIGO 65-065 1949615624 802 4000 3 1215100 CS -066 184/9610 628 -80z Sample tran 4 CL5100 US-067 14/7/16 633 1-802 Smole fro.m 15 CLTAR-CS-068 1/4/91/0637 - Boz Sample 6 CLTICO CS-067 1749610643 1-802 Simple from 7 CL5/Wis-070 /496 0651 1-802 uplicate Confirmation Small 8 CLT/UN US-OPER 4/9/ 0651 1-802 Sample. 9 CL5100-63-071 /4/6/10655 1-802 Contirmation Sample from 10 CLJ14 -CS-012 /4/6/0 70 1-802 TRANSFER NUMBER **TRANSFERS** ITEM **TRANSFERS** Samples Sent To CKY INC. 48 hour T.A.T. Please Fax results NUMBER **RELINQUISHED BY ACCEPTED BY** DATE | TIME Loron R. Acon FED-EX 6921491334 /496 1700 To (910) 451-1809. Thurks 2 Hold Simples untill we contact you. 3 4

Form 0019 chnical Services Rev. 08/89

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166588

O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526 PROJECT LOCATION PROJECT NAME Comp Leverne, N.C. ANALYSIS DESIRED Camp Lejeure (INDICATE Alaw Whitt PROJECT TELEPHONE NO.

Alaw Whitt PROJECT MANAGER/SUPERVISOR SEPARATE 18314 CLIENT'S REPRESENTATIVE NUMBER CONTAINERS) Jim Durw/Alan whitt Marshburn VANN SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) SAMPLE DATE TIME REMARKS NEESA Level "C." Confirmation Smyle ACC 33-385, devall from 1 (15100-15-073 /4/10707 1-807 Confirmation Sample ACC 29-32 Base from 2 CLT160-CS-U74 64 61071Z 1-807 Confirmation Sample AOC 1-12 Base Fram 3 CiT160-US-075 4/96 0733 -802 Confirmation Simple ADC 1-12 Base from 4 CUSINO-US-076 194/160738 1-807 Costirnation Sample
AOC 1-12 Base From 5 CIJIQ-CS-077 184/96 16742 1-807 CONFIRMATION Sample from AOC 1-12 Buse 6 CLT100-CS-078 84/96 0746 1-802 Confirmation Simple from AOC 1-12 Base 7 (15100-CS-079 1/96 0749 - 802 8 CLS100-FB-604 5/4/96 0754 RINSATE Blank 9 CLINO-RB-604/84/91/0759 1-802 REMARKS TRANSFERS
ACCEPTED BY

DATE TIME Samples Sent To CKY INC.

Aron R. Aron FED-EX 6921491334 94/8, 1700 48 hour. TAT. Please Fax results
To (910) 451-1809. Thunks

Hold Samples untill we contact you. **TRANSFERS** TRANSFERS ITEM NUMBER 1 2 3 4

CHAIN-OF-C! UDY RECORD

Form 0019 hnical Services Rev. 08/89 166591

O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526 PROJECT NAME PROJECT LOCATION Com Lejeure Comp Lejeune, NC. **ANALYSIS DESIRED** (INDICATE SEPARATE (910) 451-2599 18319 CONTAINERS) CLIENT'S REPRESENTATIVE VANW Marshburn Jim Dund / Alow Whitt ITEM NO. SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) COMP SAMPLE NUMBER DATE TIME REMARKS From NEESA Level -807 1 CLSW0-15-080 195/9/10913 Duplicate Continution Sample 2 CLITOCICS -0804 /5/91 D813 - 802 Buse Somple from 3 CLITAD-US-081 1/5/9/10817 -802 from 4 KLJKG-LS-UBZ 175/4/10820 -802 Sanole from 15/9/0826 5 US100-CS-083 7 -803 Sidewall from Contirnation -808 6 CUTION US-084 9 Confirmation from 7 (15700-15-085 /5/010840 1-802 From 18 CLJ/W CS-086 / 5/110843 1-802 from 1-802 9 au 100-cs - 087 / 5/10855 Confirmation from Somple 1-802 10 CLISINO-CS-088 5/910858 AOC 1-12 Samples Sent To CKY INC.
48 hour T.AT. Please Fax Results
To (910) 451-1809.
Hold Samples until we contact you.

JAMPLER'S SIGNATURE CONTACT YOU. TRANSFERS TRANSFERS ITEM RELINQUISHED BY ACCEPTED BY DATE TIME NUMBER FED. EX 69 21491323 45/91/1700 1 2 3 4

CHAIN-OF-C CODY RECORD

Form 0019
Fix chnical Services
Rev. 08/85

O.H. N	MATERIALS CO	RP.	,	P.O. I	BOX 551	• FIN	NDLAY, OH 45839-0551	•	419	9-423-35	26							
PROJECT NAME COMP Lejeuse PROJECT CONTACT PROJECT TELEPHONE NO. 18319 CLIENT'S REPRESENTATIVE PROJECT MANAGERS SUPERVISOR VAND MATS HOWN TIM DUNN Alaw Whitt								NUMBER	(IND	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)								
ITEM NO	SAMPLE IUMBER DA	TE TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)		o.	/	REMARKS									
1 C15100	-LS-089 1/3	96 1634		$X \vdash$	Confirma AOC 1-1	Z Sid	Sample From	1-807	X						N	ees	Levé	"3"
2 C15/20	is-090 95	96 1637		X	Confirma AOC 1	-12 5:0	Sample from levall	1-802	X									
3 C15/00	-cs-0700p \$ 5	1639		X	Puplicat From	· AOL		7-802	X									
4 CLSICE	CS-091 15/	941316		$X \vdash$	Costifnat AOC	1-12 B	imple from	1-803	X					-				
5 CL310	5 CLJIW. CS-092 6/5/96/319 Contirmation Sample from					1-802	X					-						
6 (25,10	1-65-093 45	911323		$X \vdash$	Confirmation ADCI	ליטת ל	Sample from	1-807	X					-				
7 CLJ/64	c-cs-094 6/5	11326		$X \vdash$	Continuat AOC 1	- lua	Simple from	1-802	X									
8 (15,14	0-CS-095 45	161336		$X \vdash$	Confirme AOC1	-12 Ba	Simple from se	1-800	X					-			,	
9 CLJA	5-FB-6 1/5/	760904		$X \vdash$		ield	Blank	1-14	X					-	Do	207	Ru	√
10 CLT) a	-RB-6 6/5/	16 0909		$X \vdash$	Riw	sate I	31a~K	1-12	X					-	$\overline{\mathcal{D}}_{c}$	No.	OT 1	2021
TRANSFER NUMBER	ITEM NUMBER	F		ANSFER: QUISHE			TRANSFERS ACCEPTED BY	DATE 1	ГІМЕ	REMARK Sam	ples	5	art	- 1	o C	KY	I~c	
1	1-10	as	or	12.	Szon	FED E	X 6921491323	15/96/	700	48	ho	υ <u>ς</u>	T.A.	Τ,	Please	. Fay	x Res	ults
2						***				70		-	5118					
3													es	tnu	ill we	Con	tact	you.
4										SAMPLER'S	SIGN	TURE	Ro	con) R.	Ac	ar	