OHM Remediation Services Corp.
A Member of The IT Group

March 4, 1999

Ms. Bozier H. Demaree, Code 02R.BD
Contracting Officer
Naval Facilities Engineering Command
Southwest Division
1220 Pacific Highway
San Diego, CA 92132-5187

Attention: Ms. Lynn Hornecker, 5BME.LMH

Subject: Spent Activated Carbon Disposal Details
Contract N68711-93-D-1459, Delivery Order 065,
Removal and Remedial Actions at IRP Sites, MCAS El Toro, California

Dear Ms. Hornecker:

In response to your question on March 3, 1999, I have attached a copy of the waste manifests and data from the disposal of the spent activated carbon from the Site 24 SVE systems. These documents cover the carbon that was disposed in January and recently in March 1999.

This data is also provided to the Station for their records. I had been under the impression that this was provided to you by the Station, so I was not forwarding it directly. In the future I will have a copy sent to you.

If you have any questions or need additional copies, please let me know.

Sincerely,

William Sedlak
Sr. Project Manager

cc: Lucreatria Holloway, SWDIV, COTR (1C/1E)
OHM PMO File (1C/1E)
Project File, Correspondence B.01

3347 Michelson Drive, Suite 200 ● Irvine, California 92612-1692 ● 949.261.6441 ● Fax: 949.474.8309

OHM Remediation Services Corp.

PMO LETTER OF TRANSMITTAL

To: Teresa Estudillo
San Diego PMO Office

Date: 3/4/99

Submitted by: Bill sedlak Phone/Extension Number _____

Office Location: ☐ Irvine ☐ San Diego ☐ Pleasanton ☐ Other _____

REGARDING DO No. 65 Project No. 918708 CERCLA: Yes ☒ No ☐

WBS Code for distribution 99005101 ADMIN RECORD COPIES: Yes ☐ No ☒

Document Control No. sw6456 ELECTRONIC COPIES: Yes ☐ No ☒

Revision 0 NO. OF DISKS: _____

DOCUMENT DESCRIPTION: Spent Activated Carbon Disposal

☐ Preliminary Draft ☐ Draft ☐ Final ☒ Other _____ DELIVERY DATE 3/5/99

SOW DATE na (or N/A)

Must be completed

Please make sure to include all agencies that will be receiving a copy of document.

DOCUMENT DISTRIBUTION (LIST ALL PARTIES INCLUDING INTERNAL)

NAME	AGENCY OR COMPANY	NO. OF COPIES		FORMAT	ADDITIONAL INSTRUCTIONS
		Hard Copy	*CD*	B = Bound U = Unbound	
PMO File Copy	OHM, SD	1C/1E	1	U	Binder covers and spines not needed
Lucreatria Holloway, COTR, LH57CS.3	SWDIV	1C/1E	1	U	Binder covers and spines not needed
~~Document Produc~~tion Department	OHM, Irv	1C/1E	1	B	
~~Nars Ancog, QAO, 5722~~NA	SWDIV	1C/1E	1	B	For SAPs/QAPPs only
Lynn Hornecker	swdiv	1c/1e			

Place * next to name and code indicating copies that were sent direct)

REMARKS: _____

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

OHM TRANSMITTAL/DELIVERABLE RECEIPT

CONTRACT N68711-93-D-1459 **DOCUMENT CONTROL NO: SW6456**

TO: Contracting Officer
Naval Facilities Engineering Command
Southwest Division
Bozier H. Demaree, Code 02R.BD
Building 131
1220 Pacific Highway
San Diego, California 92132-5101

Date: 08-Mar-99

D.O.: 65

Location: MCAS EL TORO

FROM: Stewart Bornhoft, Program Manager

Edwin G. Bond, Contracts Manager

DESCRIPTION OF ENCLOSURE: ***Spent Activated Carbon Disposal Details, Removal and Remedial Actions at IRP Sites, dated March 4, 1999***

TYPE: Contract Deliverable ( ) ($) D. O. Deliverable (X) (Tech) Request for Change ( ) Other ( )

VERSION: N/A **REVISION:** 0

ADMIN RECORD: Yes ( ) No (X) Category ( ) Confidential ( )

SCHEDULED DELIVERY DATE: 08-Mar-99 **ACTUAL DELIVERY DATE:** 08-Mar-99

NUMBER OF COPIES SUBMITTED TO THE NAVY: 1/O, 3/C, 2/E
[AS REQUIRED/DIRECTED BY THE (SOW)]

COPIES TO:

SWDIV	OHM	OTHER
Name, Code	Name, Location	Name, Company, Location
L. Holloway, 4EN.LLH (1C/1E)	File (1C/1E)	
L. Hornecker, 5BME.LH (1C/1E)	Chron (1C)	
G. Steinway, 5B02.GS (1C)	W. Sedlak, Irv (1C/1E)	

Date/Time Received: _____ / _____

Doc Class: D-03

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Land Recycling and Waste Management
P.O. Box 8550
Harrisburg, PA 17105-8550
OFFICIAL PENNSYLVANIA MANIFEST FORM

EP-LRWM51 REV. 3/97

Form approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA617002328 — Manifest Document No. 50080

2. Page 1 of 1

Information within the blue border is not required by Federal law but may be required by State law.

Generator's Name and Mailing Address
COMMANDING GENERAL (1AU)
MCAS - EL TORO P.O. BOX 95001
SANTA ANA CA 92709-5001

4. Generator's Phone (714) 776-2772

A. State Manifest Document Number: PA[redacted]X 9250080

B. State Gen. ID

5. Transporter 1 Company Name: GULF COAST TRANSPORT

6. US EPA ID Number: TX0000181073

C. State Trans. ID: PA-AH 82046

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone (800) 320-9635

E. State Trans. ID: PA-AH

9. Designated Facility Name and Site Address
ENVIROTROL Inc.
118 Park Road
Darlington PA 16115

10. US EPA ID Number: PAD987270725

F. Transporter's Phone ( )

G. State Facility's ID

H. Facility's Phone (724) 827-8181

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. ~~HAZARDOUS WASTE SOLID, n.o.s., 9, NA3077, PG III~~ (Spent carbon with Trichloroethylene) ERG# 171		BA	0	P	D040
b. HAZARDOUS WASTE SOLID, Non RCRA (Spent carbon with solvent waste contamination) State Regulated Waste ONLY.	4	BA	3000 EST	P	351
c.					
d.					

Additional Descriptions for Materials Listed Above

	Lab Pack	Physical State		Lab Pack	Physical State
a.		S	c.		
b.			d.		

K. Handling Codes for Wastes Listed Above
a. S01, T18 Activated Carbon for Reactivation/Recycling for
b. Beneficial Reuse. Exempt as Resource
c.
d. Recovery.

15. Special Handling Instructions and Additional Information
Wear protective clothing, gloves, goggles, and respirator when handling.
EI# PEI-MCAS-AF

Emergency Phone# (XXX) XXX-XXXX (800) 255-3924 CHEMTEL

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 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.

Printed/Typed Name: LETA SUAREZ — Signature: Leta Suarez — MONTH 01 DAY 27 YEAR 99

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jay Jewell — Signature: Jay Jewell — MONTH 01 DAY 27 YEAR 99

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — MONTH DAY YEAR

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name — Signature — MONTH DAY YEAR

GENERATOR — TRANSPORTER — FACILITY

In case of an emergency or spill immediately call the National Response Center (800) 424-8802 and the PADEP (717) 787-7020

PA[redacted]X 9250080

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete

1

NOTICE FROM GENERATOR TO TREATMENT FACILITY THAT WASTES DO NOT MEET LAND PROHIBITION TREATMENT STANDARDS

The wastes identified on manifest number PAX 9250080 and bearing the EPA Hazardous Waste Number(s) ~~D040~~ are subject to the land disposal restrictions of 40 CFR Part 268. The waste do not meet the treatment standards specified in Part 268 Subpart D or do not meet the prohibitions specified in 268.32 or RCRA section 3004(d). The treatment standards or prohibition levels applicable to each waste are identified below:

SECTION 1:

EPA Hazardous Waste No.[1]	Subcategory[2]	Treatment Treatability Group[3]	Treatment Standard/Prohibition or Treatment Method
~~D040~~	Trichloroethene	NWW	268.40

SECTION 2:

Underlying Hazardous Constituents (268.48)	Universal Treatment Standards (UTS)
Tr9chloroethene	6.0 mg/kg

[1]Hazardous waste numbers can be determined from 40 CFR 261.
[2]Subcategory (if any), e.g., low-mercury subcategory.
[3]Treatability group is either "wastewater" (WW) or "nonwastewater" (NWW).

A waste analysis for these wastes is attached, where available.

SIGNED: [signature] COMPANY NAME: MCAS-El Toro

TITLE: ENV PROT SPEC SITE NAME:

DATE: 1/27/99

ANNUAL SPENT CARBON MANAGEMENT CERTIFICATION

I, EDISON CARDENAS (please print or type name of authorized agent), being duly informed and knowledgeable, do hereby certify for and on behalf of MCAS EL TORO (please print or type customer name) ("Customer"), that the following information, as set forth in this "Annual Spent Carbon Management Certification," is true, correct and complete to the best of my knowledge, information and belief:

1. Envirotrol, Incorporated ("EI") has previously reactivated, for Customer, carbon material onto which various chemical constituents have been adsorbed ("Spent Carbon").

2. The Customer has either:

   (i) tendered Spent Carbon to EI for the purpose interalia of obtaining waste characterization testing from which the attached analytical report and Spent Carbon Identification sheet ("Report") was generated, which is incorporated by reference as if set forth in its entirety; or

   (ii) tendered an analytical report and Spent Carbon Identification Sheet ("Report") derived pursuant to all applicable Federal, Pennsylvania and local laws, rules and regulations, setting forth the physical and chemical characteristics of the Customer's Spent Carbon which is attached hereto and incorporated by reference as if set forth in its entirety.

3. The physical and chemical characteristics set forth in the Report accurately reflect the physical and chemical characteristics of Customer's Spent Carbon.

4. Customer is not aware of any analysis, data or other information which would indicate that the physical and chemical characteristics or Customer's Spent Carbon is not substantially identical to the physical and chemical characteristics set forth in the Report.

5. The process or operation by which Customer's Spent Carbon is generated is substantially identical to the process or operation by which the Spent Carbon to which the Report refers was generated.

6. Customer is presently aware of no set of circumstances which would cause the information set forth in the foregoing Paragraphs 1 through 5, inclusive, to be or become inaccurate, untrue, incorrect or incomplete within one calendar year of the date hereof, and Customer will, upon becoming aware of any such set of circumstances, immediately advise EI thereof in writing.

ENVIROTROL ID NO: PEI-MCAS-AF
SITE NAME: Commanding General
EPA ID NO: CA6170023208
COMPANY NAME: Commanding General
ADDRESS: MCAS EL TORO
SANTA ANA, CA
CONTACT:

(SIGNATURE) Edison Cardenas
(PLEASE TYPE OR PRINT) EDISON CARDENAS D.
TITLE: EPS
(PLEASE TYPE OR PRINT)
DATE: 01-25-99
ANALYSIS DATE:
SCIDS DATE:

OHM Remediation Services Corp.
Subsidiary of OHM Corporation
U.S. Route 224 East • Findlay, Ohio 45840 • (419) 423-3526

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY
219924
FORM 0019 REV 2-97

OHM's LAB COORDINATOR: Tinzar Tintut-Williams	LAB COORDINATOR'S PHONE: (949) 263.1146	LAB COORDINATOR'S FAX: (949) 475 5433	LABORATORY SERVICE ID: Q 135402	LABORATORY CONTACT: Keith Pilkerson	MAIL REPORT (COMPANY NAME): OHM Remediation
PROJECT NAME: CARBON DISPOSAL	PROJECT LOCATION: MCAS EL TORO	PROJECT NUMBER: 18708	LABORATORY PHONE: (714)	LABORATORY FAX:	RECIPIENT NAME: Dwayne Ishida
PROJECT CONTACT: Tinzar Tintut-Williams	PROJECT PHONE NUMBER: (949) 263.1146	PROJECT FAX: (949) 263.1147	LABORATORY ADDRESS: Quinterra		ADDRESS: 2031 Main Street
PROJECT ADDRESS: MCAS EL TORO	CITY, STATE AND ZIPCODE: Santa Ana, CA	CLIENT: Lyon Homestead SW Div	CITY, STATE AND ZIPCODE: Santa Ana, CA		CITY, STATE, AND ZIPCODE: Irvine, CA
PROJECT MANAGER: BILL SEDLAK	PROJECT MANAGER'S PHONE: (949) 263.1146	PROJECT MANAGER'S FAX: (949) 263.1147			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: P-60 + NTRS	Composite	TCLP/8260						Comments
1	18708.316	carbon	11/20/98	1010	Ambient	01	III	5-DAY									
2	18708.317	carbon	11/20/98	1012	Ambient	01	III	5-DAY									
3	18708.318	carbon	11/20/98	1015	Ambient	01	III	5-DAY									
4	18708.319	carbon	11/20/98	1020	Ambient	01	III	5-DAY									
5	18708.320	carbon	11/20/98	1030	Ambient	01	III	5-DAY	X								~~Composite items~~
6	18708.321	carbon	11/20/98	1035	Ambient	01	III	5-DAY	X								
7	18708.322	carbon	11/20/98	1010	Ambient	—	III	5-DAY	X		X						Composite items 1, 2 and 3
8	18708.323	carbon	11/20/98	1020	Ambient	—	III	5-DAY	X		X						Composite items 4, 5 and 6
9																	
10																	

SAMPLES COLLECTED BY: [illegible]
COURIER AND AIR BILL NUMBER:
COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[illegible]	[illegible]	[illegible]	[illegible]	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Project Information Section For Project Personnel Only Do Not Submit to Laboratory

Sample Point Location	Sample Type: G	C	F	QC
1. 65.01 Top	X		X	
2. 65.01 Mid	X		X	
3. 65.01 Bottom	X		X	
4. 65.02 Top	X		X	
5. 65.02 Mid	X		X	
6. 65.02 bottom	X		X	
7. 65.01		X		
8. 65.02		X		

Comments
7. Composites of 1 2 3
8. Composites of 4 5 6

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

State Plate

Volatile Organic Compounds
Medium Level
Method SW8260B

Client Name: OHM Remediation Services
Client ID: 18708-322
LAB ID: 135402-0007-SA
Matrix: SOLID — Sampled: 30 NOV 98 — Received: 30 NOV 98
Authorized: 30 NOV 98 — Prepared: 01 DEC 98 — Analyzed: 01 DEC 98
Instrument: GC/MS-MG — Dilution: 200

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		50000	ug/kg
Chloromethane	ND		50000	ug/kg
Vinyl chloride	ND		50000	ug/kg
Bromomethane	ND		50000	ug/kg
Chloroethane	ND		50000	ug/kg
Trichlorofluoromethane	ND		50000	ug/kg
Acetone	ND		100000	ug/kg
1,1-Dichloroethene	140000		50000	ug/kg
Methylene chloride	ND		50000	ug/kg
trans-1,2-Dichloroethene	ND		50000	ug/kg
1,1-Dichloroethane	ND		50000	ug/kg
cis-1,2-Dichloroethene	ND		50000	ug/kg
Chloroform	ND		50000	ug/kg
1,1,1-Trichloroethane	ND		50000	ug/kg
2-Butanone (MEK)	ND		50000	ug/kg
2-Hexanone	ND		50000	ug/kg
rbon tetrachloride	ND		50000	ug/kg
nyl acetate	ND		50000	ug/kg
1,2-Dichloroethane	170000		50000	ug/kg
Benzene	ND		50000	ug/kg
Trichloroethene	3300000		50000	ug/kg
1,2-Dichloropropane	ND		50000	ug/kg
Bromodichloromethane	ND		50000	ug/kg
cis-1,3-Dichloropropene	ND		50000	ug/kg
Toluene	ND		50000	ug/kg
trans-1,3-Dichloropropene	ND		50000	ug/kg
1,1,2-Trichloroethane	75000		50000	ug/kg
1,2-Dibromoethane (EDB)	ND		50000	ug/kg
4-Methyl-2-pentanone (MIBK)	ND		50000	ug/kg
MTBE	ND		100000	ug/kg
Tetrachloroethene	ND		50000	ug/kg
Dibromochloromethane	ND		50000	ug/kg
Chlorobenzene	ND		50000	ug/kg
Ethylbenzene	ND		50000	ug/kg
Xylenes (total)	ND		50000	ug/kg
Styrene	ND		50000	ug/kg
Bromoform	ND		50000	ug/kg
1,1,2,2-Tetrachloroethane	ND		50000	ug/kg
1,3-Dichlorobenzene	ND		50000	ug/kg
1,4-Dichlorobenzene	ND		50000	ug/kg
1,2-Dichlorobenzene	ND		50000	ug/kg
1,2,4-Trichlorobenzene	ND		50000	ug/kg
Hexachlorobutadiene	ND		50000	ug/kg
Carbon disulfide	ND		50000	ug/kg

ND = Not Detected

(cont.)

Volatile Organic Compounds
Medium Level
Method SW8260B

Client Name: OHM Remediation Services
Client ID: 18708-322
LAB ID: 135402-0007-SA
Matrix: SOLID — Sampled: 30 NOV 98 — Received: 30 NOV 98
Authorized: 30 NOV 98 — Prepared: 01 DEC 98 — Analyzed: 01 DEC 98
Instrument: GC/MS-MG — Dilution: 200

Parameter	Result	Qualifier	RL	Units
1,1,2-Trichloro-1,2,2-trifluoroethane	150000		50000	ug/kg
1,3,5-Trimethylbenzene	ND		50000	ug/kg
1,2,4-Trimethylbenzene	ND		50000	ug/kg

Surrogate	Recovery		Acceptable Range	
1,2-Dichloroethane-d4	108	%	60 - 130	
Bromofluorobenzene	103	%	60 - 130	
Toluene-d8	18	%	60 - 130	I

I = Surrogate recovery outside of limits due to sample matrix interference.
ND = Not Detected

Volatile Organics - Toxicity Characteristic List
TCLP Leachate
Method 8260B

Client Name: OHM Remediation Services
Client ID: 18708-322
LAB ID: 135402-0007-SA
Matrix: SOLID — Sampled: 30 NOV 98 — Received: 30 NOV 98
Authorized: 30 NOV 98 — Prepared: 10 DEC 98 — Analyzed: 10 DEC 98
Instrument: GC/MS-MH — Dilution: 1.0

Parameter	Result	Qualifier	RL	MDL	Units
Vinyl chloride	ND		0.020	0.20	mg/L
1,1-Dichloroethene	ND		0.070	0.70	mg/L
Chloroform	ND		0.60	6.0	mg/L
1,2-Dichloroethane	0.086		0.050	0.50	mg/L
2-Butanone	ND		20	200	mg/L
Carbon tetrachloride	ND		0.050	0.50	mg/L
Trichloroethene	0.15		0.050	0.50	mg/L
Benzene	ND		0.050	0.50	mg/L
Tetrachloroethene	ND		0.070	0.70	mg/L
Chlorobenzene	ND		10	100	mg/L
1,4-Dichlorobenzene	ND		0.75	7.5	mg/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	104	%	50 - 150
Toluene-d8	112	%	50 - 150
omofluorobenzene	107	%	50 - 150

ND = Not Detected

State Haz

Volatile Organic Compounds
Medium Level
Method SW8260B

Client Name: OHM Remediation Services
Client ID: 18708-323
LAB ID: 135402-0008-SA
Matrix: SOLID — Sampled: 30 NOV 98 — Received: 30 NOV 98
Authorized: 30 NOV 98 — Prepared: 01 DEC 98 — Analyzed: 01 DEC 98
Instrument: GC/MS-MG — Dilution: 200

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		50000	ug/kg
Chloromethane	ND		50000	ug/kg
Vinyl chloride	ND		50000	ug/kg
Bromomethane	ND		50000	ug/kg
Chloroethane	ND		50000	ug/kg
Trichlorofluoromethane	ND		50000	ug/kg
Acetone	ND		100000	ug/kg
1,1-Dichloroethene	160000		50000	ug/kg
Methylene chloride	ND		50000	ug/kg
trans-1,2-Dichloroethene	ND		50000	ug/kg
1,1-Dichloroethane	ND		50000	ug/kg
cis-1,2-Dichloroethene	ND		50000	ug/kg
Chloroform	ND		50000	ug/kg
1,1,1-Trichloroethane	ND		50000	ug/kg
2-Butanone (MEK)	ND		50000	ug/kg
2-Hexanone	ND		50000	ug/kg
Carbon tetrachloride	ND		50000	ug/kg
Vinyl acetate	ND		50000	ug/kg
1,2-Dichloroethane	83000		50000	ug/kg
Benzene	ND		50000	ug/kg
Trichloroethene	2200000		50000	ug/kg
1,2-Dichloropropane	ND		50000	ug/kg
Bromodichloromethane	ND		50000	ug/kg
cis-1,3-Dichloropropene	ND		50000	ug/kg
Toluene	ND		50000	ug/kg
trans-1,3-Dichloropropene	ND		50000	ug/kg
1,1,2-Trichloroethane	ND		50000	ug/kg
1,2-Dibromoethane (EDB)	ND		50000	ug/kg
4-Methyl-2-pentanone (MIBK)	ND		50000	ug/kg
MTBE	ND		100000	ug/kg
Tetrachloroethene	ND		50000	ug/kg
Dibromochloromethane	ND		50000	ug/kg
Chlorobenzene	ND		50000	ug/kg
Ethylbenzene	ND		50000	ug/kg
Xylenes (total)	ND		50000	ug/kg
Styrene	ND		50000	ug/kg
Bromoform	ND		50000	ug/kg
1,1,2,2-Tetrachloroethane	ND		50000	ug/kg
1,3-Dichlorobenzene	ND		50000	ug/kg
1,4-Dichlorobenzene	ND		50000	ug/kg
1,2-Dichlorobenzene	ND		50000	ug/kg
1,2,4-Trichlorobenzene	ND		50000	ug/kg
Hexachlorobutadiene	ND		50000	ug/kg
Carbon disulfide	ND		50000	ug/kg

D = Not Detected

Volatile Organic Compounds (cont.)
Medium Level
Method SW8260B

Client Name:	OHM Remediation Services		
Client ID:	18708-323		
LAB ID:	135402-0008-SA		
Matrix:	SOLID	Sampled: 30 NOV 98	Received: 30 NOV 98
Authorized:	30 NOV 98	Prepared: 01 DEC 98	Analyzed: 01 DEC 98
Instrument:	GC/MS-MG	Dilution: 200	

Parameter	Result	Qualifier	RL	Units
1,1,2-Trichloro-1,2,2-trifluoroethane	180000		50000	ug/kg
1,3,5-Trimethylbenzene	ND		50000	ug/kg
1,2,4-Trimethylbenzene	ND		50000	ug/kg

Surrogate	Recovery		Acceptable Range	
1,2-Dichloroethane-d4	46	%	60 - 130	I
Bromofluorobenzene	33	%	60 - 130	I
Toluene-d8	3.6	%	60 - 130	I

I = Surrogate recovery outside of limits due to sample matrix interference.
ND = Not Detected

Volatile Organics - Toxicity Characteristic List
TCLP Leachate
Method 8260B

Client Name: OHM Remediation Services
Client ID: 18708-323
LAB ID: 135402-0008-SA
Matrix: SOLID
Authorized: 30 NOV 98
Instrument: GC/MS-MH

Sampled: 30 NOV 98
Prepared: 10 DEC 98
Dilution: 1.0

Received: 30 NOV 98
Analyzed: 10 DEC 98

Parameter	Result	Qualifier	RL	MDL	Units
Vinyl chloride	ND		0.020	0.20	mg/L
1,1-Dichloroethene	ND		0.070	0.70	mg/L
Chloroform	ND		0.60	6.0	mg/L
1,2-Dichloroethane	ND		0.050	0.50	mg/L
2-Butanone	ND		20	200	mg/L
Carbon tetrachloride	ND		0.050	0.50	mg/L
Trichloroethene	0.096		0.050	0.50	mg/L
Benzene	ND		0.050	0.50	mg/L
Tetrachloroethene	ND		0.070	0.70	mg/L
Chlorobenzene	ND		10	100	mg/L
1,4-Dichlorobenzene	ND		0.75	7.5	mg/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	108	%	50 - 150
Toluene-d8	110	%	50 - 150
Bromofluorobenzene	110	%	50 - 150

D = Not Detected

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Land Recycling and Waste Management
P.O. Box 8550
Harrisburg, PA 17105-8550
OFFICIAL PENNSYLVANIA MANIFEST FORM

EP-LRWM51 REV. 3/97

Form approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. C A 6 1 7 0 0 2 3 2 0 8 | Manifest Document No. 4 9 9 9 5

2. Page 1 of 1

Information within the blue border is not required by Federal law but may be required by State law.

Generator's Name and Mailing Address
COMMANDING GENERAL (IAU)
MCAS - EL TORO P.O. BOX 95001
SANTA ANA CA 92709-5001

4. Generator's Phone (714) 776-2772

A. State Manifest Document Number PA[redacted]X 9249995

B. State Gen. ID

5. Transporter 1 Company Name: GULF COAST VACUUM TRANSPORT

6. US EPA ID Number: T X 0 0 0 0 1 8 1 0 7 3

C. State Trans. ID: PA-AH 82046

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone (800) 370-9635

E. State Trans. ID: PA-AH

9. Designated Facility Name and Site Address
ENVIROTROL Inc.
118 Park Road
Darlington PA 16115

10. US EPA ID Number: P A D 9 8 7 2 7 0 7 2 5

F. Transporter's Phone ( )

G. State Facility's ID

H. Facility's Phone (724) 827-8181

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. ~~HAZARDOUS WASTE SOLID, NON RCRA (Spent carbon with solvent waste contamination) STATE REGULATED WASTE ONLY~~	~~4~~	~~B A~~	~~3000~~ LBS	~~P~~	~~3 5 1~~
b. NON-RCRA Hazardous Waste, Solid (Spent carbon) (CA Regulated ONLY) - (Not DOT Regulated)	4	BA	3000	P	351
c.					
d.					

GENERATOR

Additional Descriptions for Materials Listed Above

	Lab Pack	Physical State		Lab Pack	Physical State
a.		S	c.		
b.			d.		

K. Handling Codes for Wastes Listed Above
a. S01,T18 Activated Carbon for Reactivation/Recycling
b. for beneficial reuse. EXEMPT as Resource Recover
c.
d.

15. Special Handling Instructions and Additional Information
Wear protective clothing, gloves, goggles, and respirator when handling.
EI# PEI-MCAS-AF

Emergency Phone Number (800) 255-3924 CHEMTEL

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 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.

Printed/Typed Name: EDISON CARDENAS | Signature: Edison Cardenas | MONTH 03 DAY 03 YEAR 99

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Shawn BERNEY | Signature: Shawn Berney | MONTH 03 DAY 03 YEAR 99

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | MONTH DAY YEAR

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | MONTH DAY YEAR

In case of an emergency or spill immediately call the National Response Center (800) 424-8802 and the PA DEP (717) 787-4343

PA[redacted]X 374555

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete

Copy 1 - TSD Facility, Mail to Destination State

1

ANNUAL SPENT CARBON MANAGEMENT CERTIFICATION

I, EDISON CARDENAS (please print or type name of authorized agent), being duly informed and knowledgeable, do hereby certify for and on behalf of MCAS EL TORO (please print or type customer name) ("Customer"), that the following information, as set forth in this "Annual Spent Carbon Management Certification," is true, correct and complete to the best of my knowledge, information and belief:

1. Envirotrol, Incorporated ("EI") has previously reactivated, for Customer, carbon material onto which various chemical constituents have been adsorbed ("Spent Carbon").

2. The Customer has either:

   (i) tendered Spent Carbon to EI for the purpose inter alia of obtaining waste characterization testing from which the attached analytical report and Spent Carbon Identification sheet ("Report") was generated, which is incorporated by reference as if set forth in its entirety; or

   (ii) tendered an analytical report and Spent Carbon Identification Sheet ("Report") derived pursuant to all applicable Federal, Pennsylvania and local laws, rules and regulations, setting forth the physical and chemical characteristics of the Customer's Spent Carbon which is attached hereto and incorporated by reference as if set forth in its entirety.

3. The physical and chemical characteristics set forth in the Report accurately reflect the physical and chemical characteristics of Customer's Spent Carbon.

4. Customer is not aware of any analysis, data or other information which would indicate that the physical and chemical characteristics or Customer's Spent Carbon is not substantially identical to the physical and chemical characteristics set forth in the Report.

5. The process or operation by which Customer's Spent Carbon is generated is substantially identical to the process or operation by which the Spent Carbon to which the Report refers was generated.

6. Customer is presently aware of no set of circumstances which would cause the information set forth in the foregoing Paragraphs 1 through 5, inclusive, to be or become inaccurate, untrue, incorrect or incomplete within one calendar year of the date hereof, and Customer will, upon becoming aware of any such set of circumstances, immediately advise EI thereof in writing.

ENVIROTROL ID NO: PE1-MCAS-AF

SITE NAME: Commanding General

EPA ID NO: CA6170023208

COMPANY NAME: Commanding General

ADDRESS: MCAS EL TORO
SANTA ANA, CA

CONTACT:

(SIGNATURE) Edison Cardenas

EDISON CARDENAS D.
(PLEASE TYPE OR PRINT)

TITLE: EPS
(PLEASE TYPE OR PRINT)

DATE: 01-25-99

ANALYSIS DATE:

SCIDS DATE:

<NOTICE>

NOTICE FROM GENERATOR TO TREATMENT FACILITY THAT WASTES DO NOT MEET LAND PROHIBITION TREATMENT STANDARDS

The wastes identified on manifest number PAX 9249995 and bearing the EPA Hazardous Waste Number(s) 351 are subject to the land disposal restrictions of 40 CFR Part 268. The waste do not meet the treatment standards specified in Part 268 Subpart D or do not meet the prohibitions specified in 268.32 or RCRA section 3004(d). The treatment standards or prohibition levels applicable to each waste are identified below:

SECTION 1:

EPA Hazardous Waste No.[1]	Subcategory[2]	Treatment Treatability Group[3]	Treatment Standard/Prohibition or Treatment Method
NR ~~351*~~	CA Regulated waste *(Organic solids with halogens)	NWW	66268.40

SECTION 2:

Underlying Hazardous Constituents (268.48)	Universal Treatment Standards (UTS)
Trichloroethene	6.0 mg/kg[5]

[1]Hazardous waste numbers can be determined from 40 CFR 261.
[2]Subcategory (if any), e.g., low-mercury subcategory
[3]Treatability group is either "wastewater" (WW) or "nonwastewater" (NWW)

A waste analysis for these wastes is attached, where available.

SIGNED: Edison Cardenas

COMPANY NAME: COMMANDING GENERAL (IAU
MCAS-El Toro
Santa Ana CA 92709-5001

TITLE:

SITE NAME:

DATE:

TOTAL P.03

[redacted]

OHM Remediation Services Corp.
Subsidiary of OHM Corporation
U.S. Route 224 East • Findlay, Ohio 45840 • (419) 423-3526

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY
219527
FORM 0019 REV. 2-97

991273

LAB COORDINATOR: [illegible]	LAB COORDINATOR'S PHONE: [illegible]	LAB COORDINATOR'S FAX: [illegible] 425-5433	LABORATORY SERVICE ID: 98 [illegible]	LABORATORY CONTACT:	MAIL REPORT (COMPANY NAME): OHM [illegible]
NAME: [illegible]	PROJECT LOCATION: [illegible]	PROJECT NUMBER: [illegible]	LABORATORY PHONE: [illegible]	LABORATORY FAX:	RECIPIENT NAME: [illegible]
CONTACT: [illegible]	PROJECT PHONE NUMBER: [illegible]	PROJECT FAX: [illegible]	LABORATORY ADDRESS: ~~[illegible]~~ AFCL		ADDRESS: 2031 Main Street
ADDRESS: [illegible]	CITY, STATE AND ZIPCODE: Santa Ana, CA	CLIENT: [illegible]	CITY, STATE AND ZIPCODE: ~~Santa Ana, CA~~ City of Industry, CA		CITY, STATE, AND ZIPCODE: Irvine, CA
MANAGER: [illegible]	PROJECT MANAGER'S PHONE: [illegible]	PROJECT MANAGER'S FAX: [illegible]			

Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8260 & MTBE composite								Comments
18704-655	Carbon	1/18/99	1055	Ambient	1	III	5 day									
18708-656	Carbon	1/18/99	1125	Ambient	1	III	5 day									
18708-657	Carbon	1/18/99	1150	Ambient	1	III	5 day									
18704-658	Carbon	1/18/99	1155	Ambient	1	III	5 day									
[illegible]	Carbon	1/18/99	1220	Ambient	1	III	5 day									
[illegible]	Carbon	1/18/99	1225	Ambient	1	II	5 day									
[illegible]	Carbon	1/18/99	1055	Ambient	—	III	5 day	X								Composite items 1, 2, and 3
[illegible]	Carbon	1/18/99	1220	Ambient	—	III	5 day	X								Composite items 4, 5, and 6

[illegible] 1/18/99

[illegible] COLLECTED BY: [illegible]	COURIER AND AIR BILL NUMBER:			COOLER TEMPERATURE UPON RECEIPT:
RELINQUISHED BY: [illegible]	RECEIVED BY: [illegible]	DATE: 1-18-99	TIME: 3:15 pm	SAMPLE'S CONDITION UPON RECEIPT:

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Project Information Section For Project Personnel Only Do Not Submit to Laboratory

Sample Point Location	Sample Type: G	C	F	QC
① 65-04 Top	X		X	
② 65-04 Mid	X		X	
③ 65-04 Bottom	X		X	
④ 65-03 Top	X		X	
⑤ 65-03 Mid	X		X	
⑥ 65-03 Bottom	X		X	
⑦ 65-04		X		
⑧ 65-03		X		

TCLP — State Haz

Comments
7. Composites of ① ②, + ③
8. Composites of ④ ⑤ + ⑥

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
OHM Remediation Services (Irvine)
Attention: Dwayne Ishida
2031 Main St.
Irvine CA 92714
Tel: (714)263-1146 Fax: (714)263-1147

Service ID #: 801-991273
Collected by: Linda Juley
Collected on: 01/18-19/08/

Received: 01/18/99
Extracted: 01/28-29/99
Tested: 01/19-31/99
Reported: 02/02/99

Sample Description: Carbon from MCAS El Toro
Project Description: 18708 Carbon Disposal

Analysis of Carbon Samples [d]

Component Analyzed	Method	Unit	PQL	Analysis Result 18708-661 99-01273-7	18708-662 99-01273-8
TCLP-THE: VOC, 8260 [a]					
Dilution Factor				1	1
BENZENE	8260	µg/L	5	< 5	< 5
2-BUTANONE (MEK)	8260	µg/L	100	< 100	< 100
CARBON TETRACHLORIDE	8260	µg/L	5	< 5	< 5
CHLOROBENZENE	8260	µg/L	5	< 5	< 5
CHLOROFORM	8260	µg/L	5	2J	5J
1,4-DICHLOROBENZENE	8260	µg/L	5	< 5	< 5
1,2-DICHLOROETHANE	8260	µg/L	5	< 5	5J
1,1-DICHLOROETHENE	8260	µg/L	5	28	16
TETRACHLOROETHENE	8260	µg/L	5	< 5	< 5
TRICHLOROETHENE	8260	µg/L	5	35	341 [b]
VINYL CHLORIDE	8260	µg/L	10	< 10	< 10
VOLATILE ORGANICS					
Dilution Factor				100	100
ACETONE	8260	µg/kg	100	< 10000	< 10000
BENZENE	8260	µg/kg	5	< 500	< 500
BROMOBENZENE	8260	µg/kg	5	< 500	< 500
BROMOCHLOROMETHANE	8260	µg/kg	5	< 500	< 500
BROMODICHLOROMETHANE	8260	µg/kg	5	< 500	< 500
BROMOFORM	8260	µg/kg	5	< 500	< 500
BROMOMETHANE	8260	µg/kg	5	< 500	< 500
2-BUTANONE (MEK)	8260	µg/kg	100	< 10000	< 10000
N-BUTYLBENZENE	8260	µg/kg	5	< 500	< 500
SEC-BUTYLBENZENE	8260	µg/kg	5	< 500	< 500
TERT-BUTYLBENZENE	8260	µg/kg	5	< 500	< 500
CARBON DISULFIDE	8260	µg/kg	5	< 500	< 500
CARBON TETRACHLORIDE	8260	µg/kg	5	1,300	3,400
CHLOROBENZENE	8260	µg/kg	5	< 500	< 500
DIBROMOCHLOROMETHANE	8260	µg/kg	5	< 500	< 500
CHLOROETHANE	8260	µg/kg	5	< 500	< 500
CHLOROFORM	8260	µg/kg	5	1,200	3,200
CHLOROMETHANE	8260	µg/kg	5	< 500	< 500
2-CHLOROTOLUENE	8260	µg/kg	5	< 500	< 500
4-CHLOROTOLUENE	8260	µg/kg	5	< 500	< 500
1,2-DIBROMO-3-CHLOROPROPANE (DB	8260	µg/kg	5	< 500	< 500
1,2-DIBROMOETHANE (EDB)	8260	µg/kg	5	< 500	< 500
DIBROMOMETHANE	8260	µg/kg	5	< 500	< 500
1,2-DICHLOROBENZENE	8260	µg/kg	5	< 500	< 500
1,3-DICHLOROBENZENE	8260	µg/kg	5	< 500	< 500
1,4-DICHLOROBENZENE	8260	µg/kg	5	< 500	< 500
DICHLORODIFLUOROMETHANE	8260	µg/kg	5	< 500	< 500

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

LIMIT

Component Analyzed	Method	Unit	PQL	Analysis Result 18708-661 99-01273-7	18708-662 99-01273-8
1,1-DICHLOROETHANE	8260	µg/kg	5	900	700
1,2-DICHLOROETHANE	8260	µg/kg	5	390J	4,400
1,1-DICHLOROETHENE	8260	µg/kg	5	30,500 (c)	52,200 (c)
CIS-1,2-DICHLOROETHENE	8260	µg/kg	5	< 500	700
TRANS-1,2-DICHLOROETHENE	8260	µg/kg	5	< 500	< 500
1,2-DICHLOROPROPANE	8260	µg/kg	5	< 500	< 500
1,3-DICHLOROPROPANE	8260	µg/kg	5	< 500	< 500
2,2-DICHLOROPROPANE	8260	µg/kg	5	< 500	< 500
1,1-DICHLOROPROPENE	8260	µg/kg	5	< 500	< 500
CIS-1,3-DICHLOROPROPENE	8260	µg/kg	5	< 500	< 500
TRANS-1,3-DICHLOROPROPENE	8260	µg/kg	5	< 500	< 500
ETHYLBENZENE	8260	µg/kg	5	< 500	< 500
HEXACHLOROBUTADIENE	8260	µg/kg	5	< 500	< 500
ISOPROPYLBENZENE (CUMENE)	8260	µg/kg	5	< 500	< 500
P-ISOPROPYLTOLUENE	8260	µg/kg	5	< 500	< 500
METHYLENE CHLORIDE	8260	µg/kg	5	< 500	< 500
4-METHYL-2-PENTANONE (MIBK)	8260	µg/kg	50	< 5000	< 5000
METHYL TERT-BUTYL ETHER	8260	µg/kg	10	< 1000	< 1000
NAPHTHALENE	8260	µg/kg	5	< 500	< 500
N-PROPYLBENZENE	8260	µg/kg	5	< 500	< 500
STYRENE	8260	µg/kg	5	< 500	< 500
1,1,1,2-TETRACHLOROETHANE	8260	µg/kg	5	< 500	< 500
1,1,2,2-TETRACHLOROETHANE	8260	µg/kg	5	< 500	< 500
TETRACHLOROETHENE	8260	µg/kg	5	< 500	700
TOLUENE	8260	µg/kg	5	< 500	< 500
1,2,3-TRICHLOROBENZENE	8260	µg/kg	5	< 500	< 500
1,2,4-TRICHLOROBENZENE	8260	µg/kg	5	< 500	< 500
1,1,1-TRICHLOROETHANE	8260	µg/kg	5	< 500	< 500
1,1,2-TRICHLOROETHANE	8260	µg/kg	5	< 500	< 500
TRICHLOROETHENE	8260	µg/kg	5	7,700 (c)	340,000 (c)
TRICHLOROFLUOROMETHANE	8260	µg/kg	5	< 500	< 500
1,2,3-TRICHLOROPROPANE	8260	µg/kg	5	< 500	< 500
1,2,4-TRIMETHYLBENZENE	8260	µg/kg	5	< 500	< 500
1,3,5-TRIMETHYLBENZENE	8260	µg/kg	5	< 500	< 500
VINYL CHLORIDE	8260	µg/kg	5	< 500	< 500
XYLENES (TOTAL)	8260	µg/kg	15	< 1500	< 1500
F-113	8260	µg/kg	5	182 000 (c)	138,000 (c)

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required
J: Reported between PQL and MDL.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0
(a) Additional analysis requested on 01/27/99.
(b) Analyzed with a dilution factor of 10
(c) Analyzed with a dilution factor of 5000.
(d) Sample were composited prior to analyses.

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

[redacted]

OHM Remediation Services Corp.
Subsidiary of OHM Corporation
U.S. Route 224 East • Findlay, Ohio 45840 • (419) 423-3526

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY
219527
FORM 0019 REV. 2/97

991273

LAB COORDINATOR: [illegible]	LAB COORDINATOR'S PHONE: [illegible]	LAB COORDINATOR'S FAX: [illegible]	LABORATORY SERVICE ID: 98 [illegible]	LABORATORY CONTACT:	MAIL REPORT (COMPANY NAME): OHM Remediation
NAME: [illegible]	PROJECT LOCATION: [illegible]	PROJECT NUMBER: [illegible]	LABORATORY PHONE: [illegible]	LABORATORY FAX:	RECIPIENT NAME: Dwayne [illegible]
CONTACT: [illegible]	PROJECT PHONE NUMBER: [illegible]	PROJECT FAX: [illegible]	LABORATORY ADDRESS: ~~[illegible]~~ AFCL		ADDRESS: 2031 Main Street
ADDRESS: [illegible]	CITY, STATE AND ZIPCODE: [illegible]	CLIENT: [illegible]	CITY, STATE AND ZIPCODE: ~~[illegible]~~ City of Industry, CA		CITY, STATE AND ZIPCODE: Irvine, CA
MANAGER: [illegible]	PROJECT MANAGER'S PHONE: [illegible]	PROJECT MANAGER'S FAX: [illegible]			

Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8260 & MTBE Composite								Comments
18706-655	[illegible]	[illegible]	[illegible]	Ambient	1	III	5 day									
18706-656	[illegible]	[illegible]	1125	Ambient	1	III	5 day									
18706-657	[illegible]	[illegible]	1150	Ambient	1	III	5 day									
18706-658	[illegible]	[illegible]	1125	Ambient	1	III	5 day									
[illegible]	[illegible]	[illegible]	1220	Ambient	1	III	5 day									
[illegible]	[illegible]	[illegible]	1225	Ambient	1	III	5 day									
[illegible]	[illegible]	[illegible]	[illegible]	Ambient	—	III	5 day	X								Composite items 1, 2, and 3
[illegible]	[illegible]	[illegible]	[illegible]	Ambient	—	III	5 day	X								Composite items 4, 5, and 6

[illegible] 1/18/97

[illegible] COLLECTED BY: [illegible]	COURIER AND AIR BILL NUMBER:			COOLER TEMPERATURE UPON RECEIPT:
RELINQUISHED BY: [illegible]	RECEIVED BY: [illegible]	DATE: 1-18-97	TIME: 3:15 pm	SAMPLE'S CONDITION UPON RECEIPT:

Distribution: White - Laboratory (To be returned with Analytical Report), Goldenrod - Project File; Yellow - Project Data Manager

Project Information Section
For Project Personnel Only
Do Not Submit to Laboratory

State Haz Feb 3
results
TCLP

Sample Point Location	Sample Type: G	C	F	QC
① 65-04 Top	X		X	
② 65-04 Mid	X		X	
③ 65-04 Bottom	X		X	
④ 65-03 Top	X		X	
⑤ 65-03 Mid	X		X	
⑥ 65-03 Bottom	X		X	
⑦ 65-04		X		
⑧ 65-03		X		

Comments
7. Composites of ① ②, & ③
8. Composites of ④ ⑤ & ⑥

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
OHM Remediation Services (Irvine)
Attention: Dwayne Ishida
2031 Main St.
Irvine CA 92714
Tel: (714)263-1146 Fax: (714)263-1147

Service ID #: 801-991273
Collected by: Linda Juley
Collected on: 01/18-19/08/

Received: 01/18/99
Extracted: N/A
Tested: 01/19-20/99
Reported: 01/22/99

Sample Description: Carbon from MCAS El Toro
Project Description: 18708 Carbon Disposal

Analysis of Carbon Samples [b]

Component Analyzed	Method	Unit	PQL	Analysis Result 18708-661 99-01273-7	18708-662 99-01273-8
VOLATILE ORGANICS					
Dilution Factor				100	100
ACETONE	8260	µg/kg	100	< 10000	< 10000
BENZENE	8260	µg/kg	5	< 500	< 500
BROMOBENZENE	8260	µg/kg	5	< 500	< 500
BROMOCHLOROMETHANE	8260	µg/kg	5	< 500	< 500
BROMODICHLOROMETHANE	8260	µg/kg	5	< 500	< 500
BROMOFORM	8260	µg/kg	5	< 500	< 500
BROMOMETHANE	8260	µg/kg	5	< 500	< 500
2-BUTANONE (MEK)	8260	µg/kg	100	< 10000	< 10000
N-BUTYLBENZENE	8260	µg/kg	5	< 500	< 500
SEC-BUTYLBENZENE	8260	µg/kg	5	< 500	< 500
TERT-BUTYLBENZENE	8260	µg/kg	5	< 500	< 500
CARBON DISULFIDE	8260	µg/kg	5	< 500	< 500
CARBON TETRACHLORIDE	8260	µg/kg	5	1,300	3,400
CHLOROBENZENE	8260	µg/kg	5	< 500	< 500
DIBROMOCHLOROMETHANE	8260	µg/kg	5	< 500	< 500
CHLOROETHANE	8260	µg/kg	5	< 500	< 500
CHLOROFORM	8260	µg/kg	5	1,200	3,200
CHLOROMETHANE	8260	µg/kg	5	< 500	< 500
2-CHLOROTOLUENE	8260	µg/kg	5	< 500	< 500
4-CHLOROTOLUENE	8260	µg/kg	5	< 500	< 500
1,2-DIBROMO-3-CHLOROPROPANE (DB	8260	µg/kg	5	< 500	< 500
1,2-DIBROMOETHANE (EDB)	8260	µg/kg	5	< 500	< 500
DIBROMOMETHANE	8260	µg/kg	5	< 500	< 500
1,2-DICHLOROBENZENE	8260	µg/kg	5	< 500	< 500
1,3-DICHLOROBENZENE	8260	µg/kg	5	< 500	< 500
1,4-DICHLOROBENZENE	8260	µg/kg	5	< 500	< 500
DICHLORODIFLUOROMETHANE	8260	µg/kg	5	< 500	< 500
1,1-DICHLOROETHANE	8260	µg/kg	5	900	700
1,2 DICHLOROETHANE	8260	µg/kg	5	390J	4,400
1,1-DICHLOROETHENE	8260	µg/kg	5	30,500 [a]	52,200 [a]
CIS-1,2-DICHLOROETHENE	8260	µg/kg	5	< 500	700

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result 18708-661 99-01273-7	18708-662 99-01273-8
TRANS-1,2-DICHLOROETHENE	8260	µg/kg	5	< 500	< 500
1,2-DICHLOROPROPANE	8260	µg/kg	5	< 500	< 500
1,3-DICHLOROPROPANE	8260	µg/kg	5	< 500	< 500
2,2-DICHLOROPROPANE	8260	µg/kg	5	< 500	< 500
1,1-DICHLOROPROPENE	8260	µg/kg	5	< 500	< 500
CIS-1,3-DICHLOROPROPENE	8260	µg/kg	5	< 500	< 500
TRANS-1,3-DICHLOROPROPENE	8260	µg/kg	5	< 500	< 500
ETHYLBENZENE	8260	µg/kg	5	< 500	< 500
HEXACHLOROBUTADIENE	8260	µg/kg	5	< 500	< 500
ISOPROPYLBENZENE (CUMENE)	8260	µg/kg	5	< 500	< 500
P-ISOPROPYLTOLUENE	8260	µg/kg	5	< 500	< 500
METHYLENE CHLORIDE	8260	µg/kg	5	< 500	< 500
4-METHYL-2-PENTANONE (MIBK)	8260	µg/kg	50	< 5000	< 5000
METHYL TERT-BUTYL ETHER	8260	µg/kg	10	< 1000	< 1000
NAPHTHALENE	8260	µg/kg	5	< 500	< 500
N-PROPYLBENZENE	8260	µg/kg	5	< 500	< 500
STYRENE	8260	µg/kg	5	< 500	< 500
1,1,1,2-TETRACHLOROETHANE	8260	µg/kg	5	< 500	< 500
1,1,2,2-TETRACHLOROETHANE	8260	µg/kg	5	< 500	< 500
TETRACHLOROETHENE	8260	µg/kg	5	< 500	700
TOLUENE	8260	µg/kg	5	< 500	< 500
1,2,3-TRICHLOROBENZENE	8260	µg/kg	5	< 500	< 500
1,2,4-TRICHLOROBENZENE	8260	µg/kg	5	< 500	< 500
1,1,1-TRICHLOROETHANE	8260	µg/kg	5	< 500	< 500
1,1,2-TRICHLOROETHANE	8260	µg/kg	5	< 500	< 500
TRICHLOROETHENE	8260	µg/kg	5	7,700 [a]	340,000 [a]
TRICHLOROFLUOROMETHANE	8260	µg/kg	5	< 500	< 500
1,2,3-TRICHLOROPROPANE	8260	µg/kg	5	< 500	< 500
1,2,4-TRIMETHYLBENZENE	8260	µg/kg	5	< 500	< 500
1,3,5-TRIMETHYLBENZENE	8260	µg/kg	5	< 500	< 500
VINYL CHLORIDE	8260	µg/kg	5	< 500	< 500
XYLENES (TOTAL)	8260	µg/kg	15	< 1500	< 1500
F-113	8260	µg/kg	5	182,000 [a]	138,000 [a]

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit.
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0
[a] Analyzed with a dilution factor of 5000.
[b] Sample were composited prior to analyses

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory