SOIL VAPOR EXTRACTION SYSTEM

FINAL CLOSURE REPORT

5800 CHRISTIE AVENUE Emeryville, California

August 29, 1992

Submitted To:

MR. BRIAN OLIVA ALAMEDA COUNTY HEALTH CARE SERVICES

HAZARDOUS MATERIALS DIVISION

80 SWAN WAY, ROOM 200 OAKLAND, CALIFORNIA 94621

Prepared For:

MR. DICK HERRING

CROLEY & HERRING INVESTMENT COMPANY

448 THARP DRIVE

MORAGA, CALIFORNIA 94556

Prepared By:

Environment & Technology Services

2081 15TH STREET, SAN FRANCISCO, CA 94114

Telephone: 415-861-0810 Facimile: 415-861-3269

ETS ENVIRONMENT & TECHNOLOGY SERVICES

2081 15TH STREET, SAN FRANCISCO, CA 94114 PHONE 415-861-0810 FAX 415-861-3269

August 29, 1992

Mr. Dick Herring President Croley & Herring Investment Company 448 Tharp Avenue, Moraga, California 94556

Subject:

SOIL VAPOR EXTRACTION SYSTEM FINAL CLOSURE REPORT

5800 Christie Street, Emeryville, California

Dear Mr. Herring:

Enclosed please find a copy of the subject report for your review and comment.

Please contact me if you have any question about this report.

Sincerely,

Walter W. Loo, President

CERTIFIED ENGINEERING GEOLOGIST NO. 1207

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1.0 Introduction

The site is a 0.82 acre property located on the southeast corner of Christie Avenue and Shellmound Street in Emeryville, California (Figure 1). The site is currently leased to The Good Guys Store from Croley and Herring Investment Company, who is the property owner.

Prior to The Good Guys Store occupancy, soil contamination was detected in several soil borings located in the narrow alley way on the east side of the property adjacent to the F.P. Lathrop Company property. The area of concern is about four (4) feet wide and eighty (80) feet long. The containmated soil was excavated to a depth of about 5 feet (groundwater table) and treated on site by a combination of ex-situ bioremediation and soil vapor extraction. A total of about 1600 cubic feet of soil was treated and disposed to the West Contra Costa Landfill. A soil and remediation and closure report was prepared on July 21, 1989 and accepted by the Alameda County Health Care Services on July 28, 1989 (see Appendix A).

A soil vapor extraction system (VES) was proposed to remediate residual volatile organic chemicals in soil along the eastern property boundary.

There is a groundwater monitoring program in effect with a quarterly groundwater report requirement since 1989.

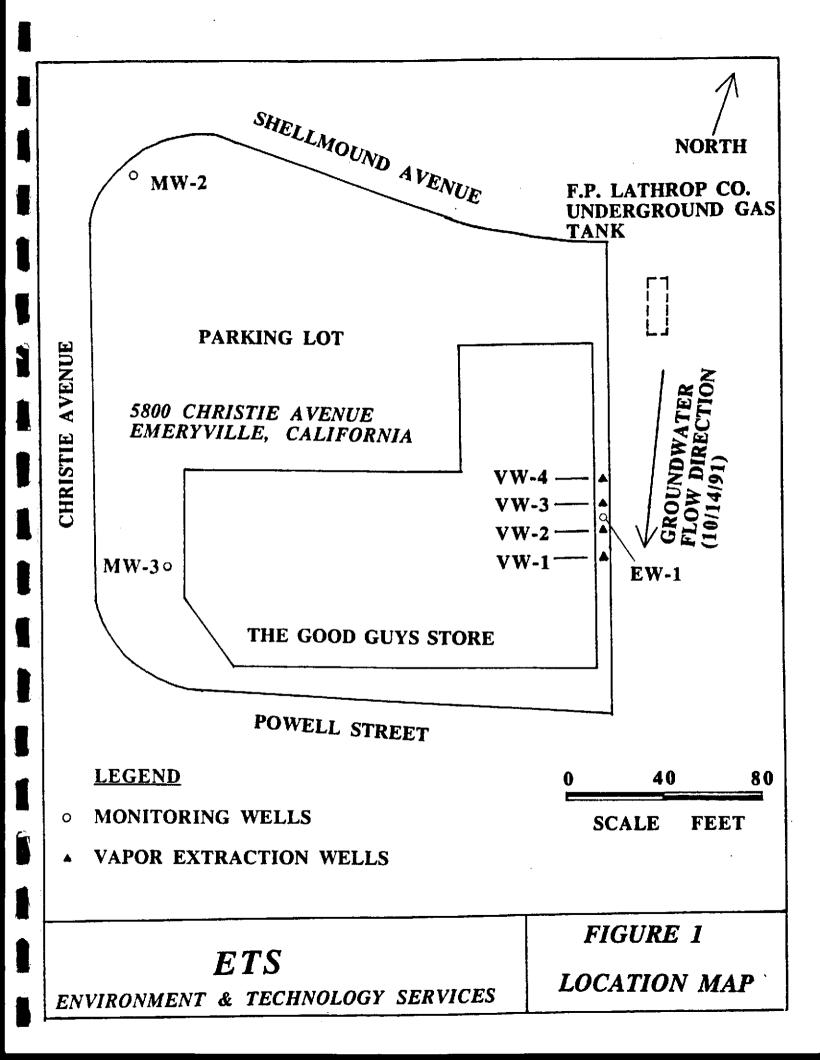


TABLE 1
SUMMARY OF EXCAVATION PIT WALL SOIL SAMPLE ANALYSIS

Sample Number	Sample <u>Depth</u>	Volatile Organic Compounds (VOC's) Detected	Concentration (PPM)	Total VOC's (PPM)
A-1	5'	Methylene Chloride Freon 113 TCE	0.18 0.011 0.019	0.21
A-2	5'	1,2 DCE TCE Toluene	0.12 0.1 0.11	0.33
В .	5'	TCA TCE Toluene Ethyl Benzene Xylenes	130 150 180 3.8 28	491.8
С	5'	TCA TCE Toluene Ethyl Benzene Xylenes	23 42 320 9.3 48	442.3
D	5'	TCA TCE Toluene	1.0 18 1.8	20.8
E-1	5'.	TCA TCE Benzene Toluene Ethyl Benzene Xylenes	0.5 0.8 0.7 0.7 0.6 1.1	4.4
E-2	5'	ND	-	ND
F	5 '	TCA TCE Toluene Chlorobenzene Ethyl Benzene Xylenes	280 1300 18 14 35	4347

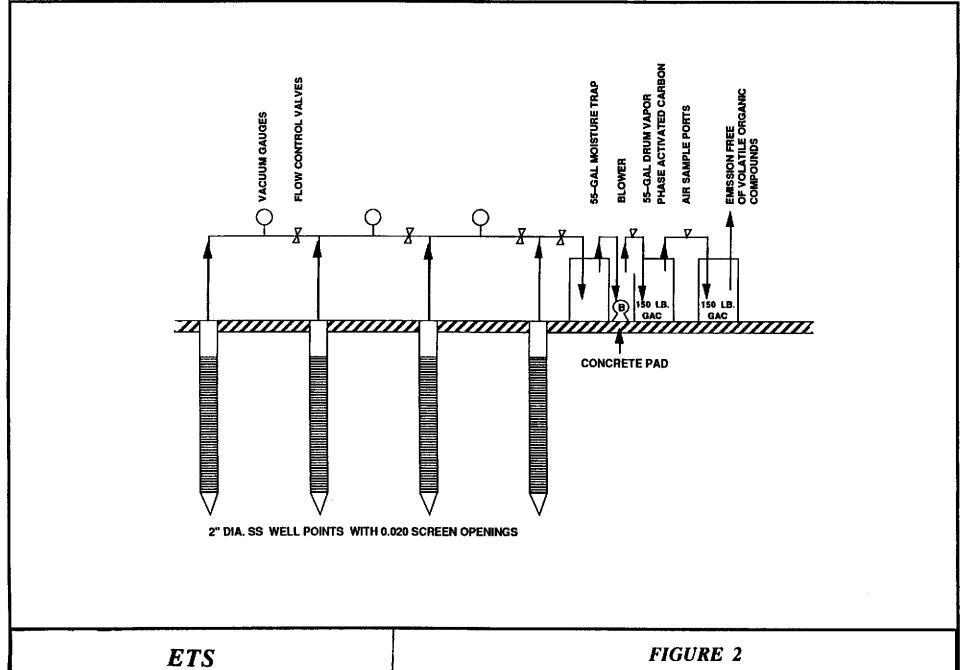
2.0 Soil Vapor Extraction System Operation

An application of the soil vapor extraction system was filed with the Bay Area Air Quality Management District (BAAQMD) on August 2, 1989. The application was accepted and approved on September 22, 1989 by BAAQMD. (Appendix B)

Figure 2 is a schematic diagram of the VES which consists of four (4) vapor extraction wells to a depth of five (5) feet. The VES was constructed in late 1989 and has been in operation since. BAAQMD representative, Mr. Alex Saschin inspected the system on April 26, 1991. The BAAQMD permit to operate was granted on May 7, 1991. Subsequently, a reduction in monitoring frequency was granted by BAAQMD on September 17, 1991. After the approval of the VES closure work plan by ACHCS(11/27/92) and the VES decommission letter to ACHCS(12/11/92), a letter of notification of the VES decommission was addressed to BAAQMD on December 16, 1991. Appendix A includes ACHCS correspondences. Appendix B includes BAAQMD correspondences.

The initial organic vapor concentration was in hundreds of parts per million, and decreased to less than 10 parts per million. Appendix C is the VES monitoring record. The VES system was operating between 60 to 100 cubic feet per minute (CFM) throughout the period with the exception of testing and maintenance down time.

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ENVIRONMENT & TECHNOLOGY SERVICES

FIGURE 2
SOIL VAPOR EXTRACTION SYSTEM

3.0 System Closure Approach

Figure 3 depicts the steps of VES closure.

A VES closure plan was prepared and approved by ACHCS. Confirmatory soil sample and analysis was collected. If the total VOC in soil is less than five (5) ppm, the VES will be shut down and begin decommissioning procedure. The decommissioning items will include all of the following:

- * Surface piping, valve, gauges
- Ves well abandonment
- Spent granular activated carbon disposal

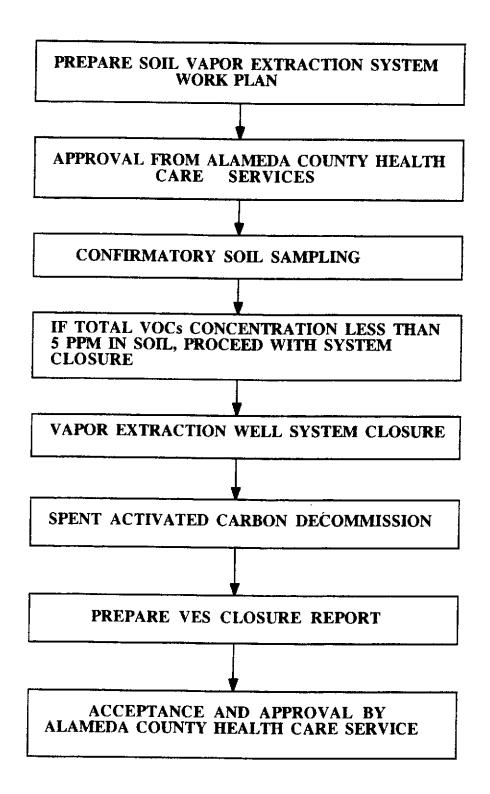


FIGURE 3 SOIL VAPOR EXTACTION SYSTEM CLOSURE METHOD OF APPROACH

4.0 Confirmatory Soil Sampling and Analysis

Figure 4 depicts the proposed soil sampling locations along the eastern boundary of the site. The soil samples were taken between three (3) to five (5) feet depth. A tube sampler was used to obtain the side wall soil samples. A total of three (3) soil samples were collected. The soil sample were analysed for EPA 8240(or EPA 8010 and 8020) volatile organic chemcials.

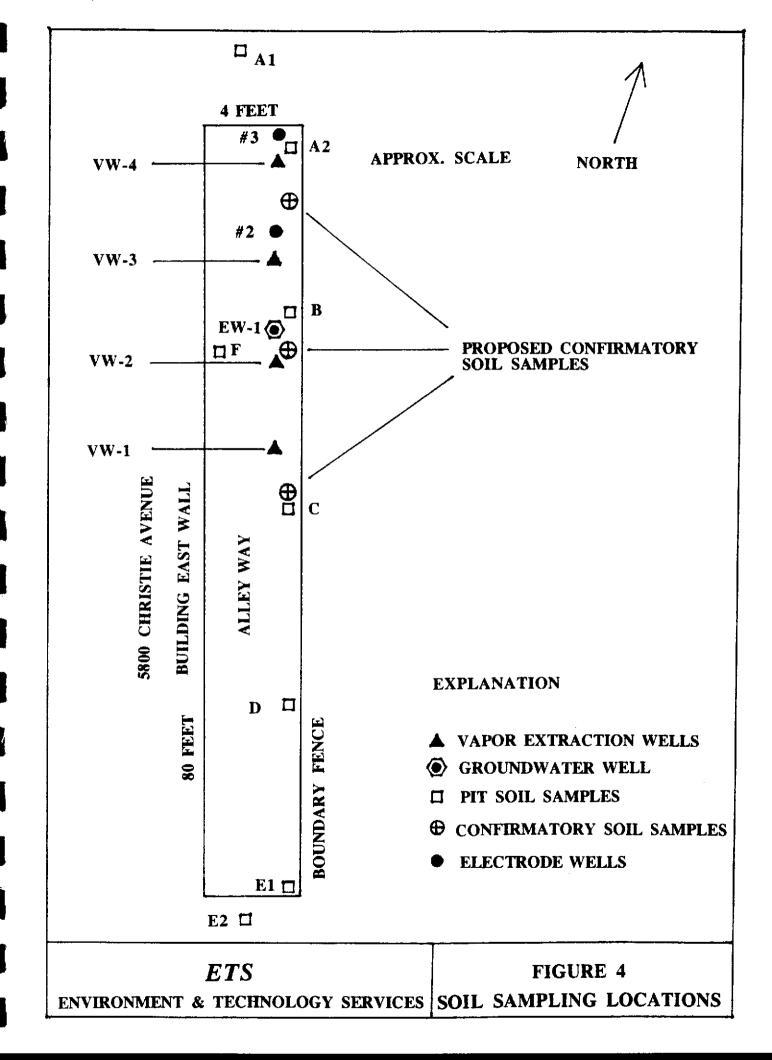
The soil analysis results are summarized below:

	SOIL SAMPLE LOCATIONS			AVERAGE
	G	H	I	CONCENTRATION
8010 COMPOUNDS(TOX) GASOLINE(TPH)	ND ND	0.073 1.500	1.017 ND	0.363 0.500
TOTAL VOCs	ND	1.573	1.017	0.863

Concentrations expressed in mg/kg(parts per million)

The total VOCs concentrations on all soil samples were below 5 ppm and the average concentration of total VOCs is below 1 ppm.

Appendix D include the soil confirmation analysis results.



5.0 Vapor Extraction Well System Decommission

The four (4) VES wells were pulled and backfilled. The surface piping, valve and gauges were scrapped. The moisture condensation drum was disposed with the packing material to the West ContraCosta Sanitary Landfill.

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6.0 Spent Activated Carbon Drum Decommission

There are a total of ten (10) drums of spent activated carbon ready for decommission. These spent activated carbon were detoxified by

Eight(8) of the GAC drum are loaded with VOCs in excess of 50,000 ppm.

A composite sample of the activated carbon was analysed for EPA 8240 volatile organic chemicals after the electrolysis treatment and prior to the enhanced cometabolic biotreatment. It contained TPH(gasoline) of 1.3 ppm and total halocarbons(TOX) of 174.75 ppm. After the enhanced cometabolic biotreatment, the TPH(gasoline) and BTEX compounds were ND(below detection limits) and the TOX concentration was results of this analysis is included in Appendix E.

For the proper disposal of the GAC drums, a LC50 Bio-Assay test was also conducted for the acceptance by the West Contra Costa Sanitary Landfill. The results of the LC50 test was also included in Appendix E.

The application of the disposal of the GAC and the final acceptance documentation by the West Contra Costa Sanitary Landfill is included in Appendix F.

APPENDIX A ALAMEDA COUNTY HEALTH CARE SERVICES CORRESPONDENCES

AGENCY

DAVID J. KEARS, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH Hazardous Materials Program 80 Swan Way, Rm. 200 Oakland, CA 94621

2 1984

Aire

(415) 271-4320

28 July 1989

S.G. Crowley and R.D. Herring Crowley and Herring Investment Company 1311 63rd Street Emeryville, CA 94608

Subject: Proposed Remedial Project at 5800 Christie Avenue,

Emeryville.

Dear Sirs:

This office has received and reviewed a soil remediation proposal and closure report prepared by Walter Loo of AWD Technologies, in regards to the address listed above. This proposal is acceptable to the Alameda County Department of Environmental Health, Hazardous Materials Division, and approval is granted for it's implementation upon the acquisition of the pertinent discharge permit from the East Bay Municipal Utility District.

If you have any questions concerning this matter, please contact, Dennis Byrne, Hazardous Materials Specialist, at (415) 271-4320.

Sincerely,

Rafat A. Shahid, Chief,

Hazardous Materials Division

Pfc A. Shell

RAS: DB

cc: Scott Huegenberger, SFBRWQCB Walter Loo, AWD Technologies, Inc. 10 West Orange Ave. South San Francisco, CA 94080

ENVIRONMENT & TECHNOLOGY SERVICES

638 BLAIR AVENUE, PIEDMONT, CA. 94611 USA PHONE: 1-510-601-1263 FAX: 1-510-601-1793

December 11, 1991

Mr. Dennis Byrne Senior Hazardous Materials Specialist Alameda County Health Care Services 80 Swan Way, Room 200 Oakland, CA 94621

Subject:

Decommissioning of Vapor Extraction System

5800 Christie Avenue, Emeryville, California

Dear Mr. Byrne:

As per your approval letter dated November 27, 1991 on the work plan of the closure of the subject system, we have collected the verification soil samples(3) on November 27, 1991 as outlined in the closure work plan prepared by Environment & Technology Services(ETS). The attached figure depicts the sample locations. The soil samples were collected at a depth of about five(5) feet below grade. The ground water table in the area is at about six(6) feet below grade. These soil samples were analysed by a certified laboratory for EPA 8010 and 8020 compounds and total petroleum hydrocarbons as gasoline. The analysis results are attached and summarized below:

	SOIL SAMPLE LOCATIONS			AVERAGE	
	G	H	I	CONCENTRATION	
8010 COMPOUNDS(TOX) GASOLINE(TPH)	ND ND	0.073 1.500	1.017 ND	0.363 0.500	
TOTAL VOCs	ND	1.573	1.017	0.863	

Concentrations expressed in mg/kg(parts per million)

The total VOCs concentrations on all soil samples were below average concentration of total VOCs is below 1 ppm. We hereby, seek your approval to proceed on the decommissioning of the vapor extraction system as specified in the November 15, 1991 closure work plan. Upon your approval, we will notify the Bay Area Air Quality Management District(BAAQMD) on the discontinuation of the vapor extraction system. We sincerely appreciate your co-operations and prompt responsiveness on this matter. Thanks!

Sincerely,

Walter W. Loo R.G. C.E.G.

cc: Mr. Dick Herring, Croley and Herring Investment Company ATTACHMENTS

AGENCY DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, Assistant Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH 80 Swan Way, Rm. 210 Oakland, CA 94621 (415) 271-4300

21 January 1992

Richard Herring Crowley and Herring Investment Company 448 Tharp Drive Moraga, CA 94556

Subject: Termination of the Vapor Extraction System at 5800 Christie Avenue, Emeryville.

Dear Mr. Herring:

This agency concurs with the recommendation of Walter Loo, of Environment & Technology Services, that the vapor extraction system at the above referenced site should be terminated. Please be aware that the need for ground water monitoring continues.

If you have any questions concerning this matter, please feel free to contact me at (510) 271-4320.

Sincerely,

Dennis J. Byrne

Senior Hazardous Materials Specialist

cc: Rich Hyatt, SFBRWQCB

Walter Loo, Environment & Technology Services

APPENDIX B

Bay Area Air Quality Management Board Permits and Correspondence



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

ALAMEDA COUNTY Edward R. Campbell Shirley J. Campbell (Vice-Chairperson) Chuck Corica Frank H. Ogawa

CONTRA COSTA COUNTY
Paul L. Cooper
Sunne Wright McPeak

MARIN COUNTY Al Aramburu

NAPA COUNTY Bob White

SAN FRANCISCO COUNTY Harry G. Britt Jim Gonzalez

SAN MATEO COUNTY
Que J. Nicolopulos
Anna Eshoo

SANTA CLARA COUNTY Martha Clevenger Rod Diridon Roberta H. Hughan Susanne Wilson (Chairperson)

> SOLANO COUNTY Osby Davis (Secretary)

SONOMA COUNTY

Jim Harberson

September 22, 1989

Walter Loo Croley and Herring Investment Company 1311 63rd Street Emeryville, CA 94608

Application Number:3548
Equipment Location:
5800 Christie Avenue
Emeryville, CA

Gentlemen:

This is your Authority to Construct the following:

S-1 Soil venting system Rotron EG&G 112 CFM blower; abated by A-1 and A-2 Activated Carbon, "Contamination Control" 150 lbs. granular activated carbon per vessel (minimum of two vessels arranged in series), carbon recharged by Cameron Yakima.

Operation of this equipment will be subject to the following specific conditions:

- This source shall be vented at all times to both A-1, Activated carbon vessel abstement, 150 lb of carbon and A-2, Activated carbon vessel abstement 150 lb of carbon. The carbon vessels shall be operated in series.
- The last carbon vessel in series (A-2) shall be kept at a non-detectable reading of organics as measured with an FID-OVA monitor.
- 3. The primary carbon vessel A-1 (first in series) shall be changed out with unspent carbon upon the detection of 10 ppmv organics as measured with an FID-OVA. The monitoring of the primary carbon vessel exhaust shall be taken at the midpoint between the connection of the two carbon vessels (A-1 AND A-2 placed in series).
- 4. The operator of this source shall monitor with a FID-OVA at at the following locations:
 - 1. At the exhaust of S-1; the inlet to carbon bed, A-1
 - 2. At the midpoint between the connection of the two carbon vessels A-1 and A-2 (connected in series); at the inlet to carbon vessel A-2.
 - 3. At the outlet of carbon vessel A-2; the carbon vessel that is second in series prior to venting to the atmosphere.

Application # 3548 September 22, 1989 Page 2

These monitor readings shall be recorded in a monitoring log at the time they are taken. The monitoring results shall be used to:

- a. Calculate the time of predicted breakthrough of organics as carbon on a dry basis after carbon adeorption to maintain compliance with condition number 3.
- b. Determine the frequency of carbon change out necessary to maintain compliance with condition number 2.
- c. To maintain compliance with conditions number 2 and 3 the monitoring shall be conducted on a daily basis. The operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on a decline in organic emissions and for the demonstrated breakthrough rates of the carbon vessels. Written approval by the District must be received by the applicant prior to a change to the monitoring schedule.
- 5. The operator of this source shall maintain the following information in a District approved log for each month of operation of the source.
 - a. The hours and time of operation.
 - b. Each monitor reading or analysis result logged in for the day of operation they are taken.
 - c. The calculation of organic breakthrough from the carbon beds.
- 6. The log shall be submitted to the District Permit Services Division on a monthly basis. Any violation of condition numbers 2 and/or 3 shall be reported under separate cover letter with the logs as well as the corrective action taken. In addition, any violation of condition number 2 and /or 3 shall be submitted to the District Enforcement Section at the time it occurs. This submittal shall detail corrective action taken and shall include the data showing the violation as well as the time of occurrence.
- 7. The operator shall maintain a file containing all measurements, records and other data that are required to be collected pursuant to the various provisions of this conditional Authority to Construct/Permit to Operate. All measurements, records and data required to be maintained by the applicant shall be retained for at least two years following the date the data is recorded.

Application # 3546 September 22, 1989 Page 3

Notification

Please notify the District by letter at least three days before the initial operation of the equipment is to take place so that we may observe the equipment in operation and verify conformance with the Authority to Construct. Operation includes any start-up of the source for testing or other purposes. Operation of equipment without prior written notification to the District or beyond the start-up period without a Permit to Operate may result in enforcement action.

Start-Up Period

After receipt of the start-up letter required above, this Authority to Construct authorizes operation during the start-up period from the date of initial operation noted in your start-up letter until the Permit to Operate is issued, up to a maximum of 60 days. All conditions (specific or implied) of the Authority to Construct are in effect during the start-up period.

Fees

District Regulation 3 requires a fee for each new Permit to Operate. You will be invoiced upon receipt of your start-up letter. No permits will be issued until all outstanding fees are paid.

Implied Conditions

In the absence of specific permit conditions to the contrary, the throughputs, fuel and material consumptions, capacities, and hours of operation described in your permit application will be considered maximum allowable limits. A new permit will be required before any increase in these parameters, or change in raw material handled, may be made.

Expiration

In accordance with Regulation 2-1-407, this Authority to Construct expires two years from the date of issuance unless substantial use of the authority has begun.

Application # 3546 September 22, 1989 Page 4

Correspondence

Please Include your application number with any correspondence with the District regarding this matter. If you have any questions on this matter, please call Alexander V. Saschin - Air Quality Engineer II at (415) 771-6000, extension 190.

Very truly yours,

Milton Feldstein Air Pollution Control Officer

Permit Services Division

JAS:AVS:sw



A Subsidiary of The Dow Chemical Company

April 3, 1991 2010-003

Mr. Alexander V. Saschin Bay Area Air Quality Management District 939 Ellis Street San Francisco, CA 94109

Subject:

Start-Up of the Soil Venting System at

Croley and Herring Investment Company Facility

5800 Christie Avenue Emeryville, California APPLICATION NO. 3546

Dear Mr. Saschin:

A soil venting system has been constructed at the above-referenced site. The system was constructed in accordance with the specification (Item S-1) provided in Authority to Construct issued by the District. The system is tested and ready to operate upon your approval. This letter is to notify the District that the start-up of the venting system will commence on April 12, 1991.

If you have any questions or need any further information regarding the subject matter, please contact me or Mr. I-Sen Wang.

Sincerely,

Walter For sw for Director of Remediation

WL:hlw

Mr. Steve Croley - CHIC cc:

Mr. Dick Herring - CHIC



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

May 7, 1991

ALAMEDA COUNT Edward R. Campba Shirley J. Campba Loni Hancock Frank H. Ogawa

CONTRA COSTA COLORIO Paul L. Cooper (Vice Chairperson Sunne Wright McPa Tom Powers

MARIN COUNT

NAPA COUNTY Bob White

BAN FRANCISCO COLVETT Harry G. Britt Jim Gonzalez

SAN MATEO COUNTY Gus J. Nicolopules Anna Eshoo (Secretary)

SANTA CLARA COL NEW Martha Clevenger Rod Diridon Roberta H. Hughan Susanne Wilson

SOLANO COUNTY Osby Davis (Chairperson)

SONOMA COUNTY Jim Harberson Patricia Hilligoss Croley and Herring Investment Company

1311-63rd Street Emeryville, CA 94608

Attention: Walter Loo

Application Number: 3546 Equipment Location: 5800 Christie Avenue Emeryville, CA 94608

Gentlemen:

Attached is your Permit to Operate the following:

S-1 Soil venting system Rotron EG&G 112 CFM blower; abated by A-1 and A-2 Activated Carbon, "Contamination Control", 150 lbs. granular activated carbon per vessel (minimum of two vessels arranged in series), carbon recharged by Cameron Yakima.

All Permits should be posted in a clearly visible and accessible place on or near the equipment to be operated, or kept available for inspection at any time.

Operation of this equipment in violation of District Regulations or any permit conditions is subject to penalty action.

In the absence of specific permit conditions to the contrary, the throughputs, fuel and material consumptions, capacities and hours of operation described in your permit application will be considered maximum allowable limits. A new permit will be required before any increase in these parameters, or change in raw material handled may be made.

Please include your permit number with any correspondence with the District. If you have any questions on this matter, please call **Alex Saschin**, **Air Quality Engineer II at** (415) 771-6000, extension 190.

Very truly yours,

Milton Feldstein Air Pollution Control Officer

Permit Services Division

JAS:AVS:me Attachments Croley and Herring Investment Company 5800 Christie Avenue Emeryville, CA 94608 Application #3546 May 7, 1991

Conditions:

- 1. This source shall be vented at all times to both A-1, Activated carbon vessel abatement, 150 lb of carbon and A-2, Activated carbon vessel abatement 150 lb of carbon. The carbon vessels shall be operated in series.
- The last carbon vessel in series (A-2) shall be kept at a non-detectable reading of organics as measured with an FID-OVA monitor. 2.
- The primary carbon vessel A-1 (first in series) shall be changed out with unspent carbon upon the detection of 10 ppmv organics as measured with an FID-OVA. The monitoring of the primary carbon vessel exhaust shall be taken at the midpoint project. 3. 1 and A-2 placed in series).
- 4. The operator of this source shall monitor with a FID-OVA at the following locations:
 - 1. At the exhaust of S-1; the inlet to carbon
 - At the midpoint between the connection of the two carbon vessels A-1 and A-2 (connected in series); at the inlet to carbon vessel A-2. At the outlet of carbon vessel A-2; the carbon vessel that is second 2.
 - 3. in series prior to venting to the atmosphere.

These monitor readings shall be recorded in a monitoring log at the time thy are taken. The monitoring results shall be used to:

- Calculate the time of predicted breakthrough of organics as carbon on a dry basis after carbon adsorption to maintain compliance with condition number 3.
- Determine the frequency of carbon change out necessary to maintain compliance with condition number 2. b.
- To maintain compliance with conditions number 2 and 3 the monitoring shall be conducted on a daily basis. The operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on a decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District must be received by the applicant prior to a change to the monitoring schedule. C.

The operator of this source shall maintain the following information in a District approved log for each month of operation of the source:

- The hours and time of operation.
- Each monitor reading or analysis result logged in for the day or b. operation they are taken.
- The calculation of organic breakthrough from the carbon beds.
- The number of carbon beds removed from service.
- The log shall be submitted to the District Permit Services Division on a monthly basis. Any exceedance of condition numbers 2 and /or 3 shall be reported under separate cover letter with the log as well as the corrective action taken. In addition, an exceedance of condition number 2 and/or 3 shall be submitted to be determined by the logical course. This experimental about the logical course, and shall include the data 5. This submittal shall detail corrective action taken and shall include the data showing the exceedance as well as the time of occurrence.
- The operator shall maintain a file containing all measurements, records and 6. other data that are required to be collected pursuant to the various provisions of this conditional Authority to Construct/Permit to Operate. All measurements, records and data required to be maintained by the applicant shall be retained for at least two years following the date the data is recorded.



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

1	PERMIT TO OPERA	TE NO. <u>3546</u>
		PLANT NO. 4805
Cro	ley and Herring	Investment Company
IS HEREBY GRANTED A F	PERMIT TO OPERATE	THE FOLLOWING EQUIPMENT: SOURCE NO. 1
ontamination Control".	150 lbs. granular a	; abated by A-1 and A-2 Activated Carbon, activated carbon per vessel (minimum of two on recharged by Cameron Yakima.
LOCATED AT:	5800 Chris	stie Avenue
LOCATED AT.	Emeryville,	CA 94608
May 7,	1991	MILTON FELDSTEIN AIR POLLUTION CONTROL OFFICER BY A Swanson PERMIT SERVICES DIVISION
EXPIRATION DATE:	May 7, 1992	

THIS PERMIT DOES NOT AUTHORIZE ANY VIOLATION OF THE RULES AND REGULATIONS OF

THE BAAQMD OR THE HEALTH & SAFETY CODE OF THE STATE OF CALIFORNIA.

PERMIT SERVICES DIVISION TO THE PROPERTY BAY AREA MR QUALITY MANAGEMENT DISTRICT

939 ELLIS STREET SAN FRANCISCO, CA 94109 [415] 771-6000

REFUND REQUEST FORM

YOU ARE POSSIBLY ENTITLED TO A REFUND FOR PERMIT FEES YOU RECENTLY PAID. IF YOU BELIEVE YOU ARE ENTITLED TO A REFUND, THIS COMPLETED FORM WILL BE CONSIDERED A REQUEST FOR A REFUND WHEN YOU SIGN AND RETURN IT.

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1-800 -792-0836

Croley and Herring Investment Company

September 14,1991 Mr. Alex Saschin Air Quality Engineer II Bay Area Air Quality Management District 939 Ellis Street, San Francisco, CA 94109

Subject:

Application Number 3546 5800 Christie Avenue Emeryville, CA 94608

Dear Mr. Saschin,

As per your site inspection on April 26, 1991, we have been operating and monitoring daily the vapor extraction system located at the subject property. Table 1 present the monitoring records to date. As you can see, we have not seen any significant changes in the daily readings for this period of time. We, hereby, request for a reduction of monitoring frequency from daily to biweekly. We will contact you for your verbal approval if you have no objection.

Thank you for your co-operation on this matter.

Sincerely, /

Dick Herring President



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

ALAMEDA COUNTY Edward R Campbell Loni Hancock Greg Harper Frank H Ogawa

CONTRA COSTA COUNTY
Paul L. Cooper
(Chairperson)
Sunne Wright McPeak
Tom Powers

MARIN COUNTY Al Aramburu

NAPA COUNTY Paul Battisti

SAN FRANCISCO COUNTY Roberta Achtenberg Harry G. Britt

SAN MATEO COUNTY
Gus J. Nicolopulos
Anna Eshoo
(Vice Chairperson)

SANTA CLARA COUNTY Martha Clevenger Rod Diridon Roberta H. Hughan Dianne McKenna

> SOLANO COUNTY Osby Davis

SONOMA COUNTY Jim Harberson Patricia Hilligoss (Secretary) September 17, 1991

Dick Herring
Croley and Herring Investment Co.
448 Tharp Dr.
Moraga, CA 94556

Dear Mr. Herring:

The District has reviewed and granted your request, dated September 14, 1991, to change the monitoring frequency from daily to biweekly.

Please keep a copy of this letter as verification that a biweekly monitoring schedule has been approved for the 5800 Christie Ave, Emeryville, CA site by the District.

If you have any questions regarding this matter, please call me at (415) 749-4713.

Very truly yours,

alex V Saschir

Alex V. Saschin Air Quality Engineer II Permit Services Division

AVS:all



Croley and Herring Investment Company

December 16,1991

Mr. Alex Saschin Air Quality Engineer II Bay Area Air Quality Management District 939 Ellis Street, San Francisco, CA 94109

Subject:

Application Number 3546 5800 Christie Avenue Emeryville, CA 94608

Dear Mr. Saschin,

Attached please find the following documents relating to the subject vapor extraction system:

* Vapor Extraction System Closure Work Plan(11/15/91)

Work Plan Approval Letter from Alameda County Health Care Services(11/27/91)

* Vapor Extraction System Decommissioning Letter to ACHCS(12/11/91)

We have received approval from ACHCS to proceed with the vapor extraction system decommissioning. We hereby, notify you that the vapor extraction system has been shut down and is being decommissioned.

We appreciate your support and assistance throughout the permitting and monitoring of the vapor extraction system. Thank you for your co-operation on this matter.

Sincerely,

R. D. Herring President

cc: Mr. Dennis Byrne, Alameda County Health Care Services, without attachments ATTACHMENTS(3)

APPENDIX C System Monitoring Record

VAPOR EXTRACTION SYSTEM MONITORING RECORD ORGANIC VAPOR CONCENTRATION IN PPMV

DATE	GAC INFLUENT	GAC EFFLUENT	COMMENTS
4/2/90	300	120	
4/3/90	240	100	
4/4/90	160	20	
4/5/90	160	20	
4/6/90	160	20	
4/9/90	150	10	
4/10/90	180	80	
4/11/90	140	60	
4/12/90	180	60	
4/13/90	180	20	
4/16/90	160	20	
4/17/90 4/17/90	150	10	
4/18/90	110	10	
4/19/90 4/19/90	90	10	
	80	10	END OF TESTS. GAC
4/20/90	80	10	CHANGED 4 TIMES
SYSTEM DOV	VN FOR ADJUSTMENT IN DESIG	N AND MAINTENANCE	
2/5/91	13	15	SUSPECTED METHANE
2/8/91	13	15	BREAK THROUGH
2/12/91	9	10	
2/15/91	8.6	8	
2/21/91	6.6	6.6	
3/4/91	3.2	4.5	
	7.6	6.4	
3/6/91		6.0	
4/22/91	5.6	5.6	
4/23/91	6.9	6.6	
4/24/91	8.5	23	
4/25/91	22	16	BAAQMD INSPECTION
4/26/91	28	5.6	5/6/01/201201101
4/29/91	4.4	5.0	
4/30/91	14	8	
5/1/91	12	10	
5/2/91	11		
5/3/91	10	9	
5/6/91	2.5	3	
5/7/91	1.2	2	
5/8/91	4.3	6.2	
5/9/91	7.4	7.8	
5/10/91	5.2	6	
5/13/91	9.6	9.7	
5/14/91	12	11	
5/15/91	10	10	
5/17/91	10	8	
5/20/91	11	12	
5/21/91	5	8	
5/22/91	7	12	
5/23/91	3.6	5	

VAPOR EXTRACTION SYSTEM MONITORING RECORD ORGANIC VAPOR CONCENTRATION IN PPMV

DATE	GAC INFLUENT	GAC EFFLUENT	COMMENTS
5/24/91	5.8	9.6	
5/28/91	4.8	6.1	
5/29/91	6.4	8.2	
5/30/91	5.4	6.0	
5/31/91	8.9	7	
6/3/91	10	10	
6/4/91	6.2	7	
6/5/91	12	12	
6/6/91	4	4.6	
6/7/91	11	19	
6/10/91	8	8	
6/11/91	6	6	
6/12/91	4	5.5	
6/13/91	0.3	2	CONFIRM PRESENCE OF METHANE. READINGS REDUCED BY ACTIVATED CARBON FILTER TUBE
6/14/91	2.1	3.6	
6/17/91	0.9	3.8	AMBIENT AIR READINGS
6/18/91	1	2	4
6/20/91	0	0	
6/21/91	2	2	
6/24/91	2	3	3
6/25/91	2	2	3
6/26/91	4	3	3
7/4/91	2	2	2 TO 5
7/5/91	1	1	4
7/8/91	2	2	3
7/9/91	3	3	3
7/10/91	3	2	3
7/11/91	1	0	3
7/12/91	1	1	3
7/15/91	0	2	3
7/16/91	2	2	3
7/17/91	$\overline{2}$	1	4
7/18/91	0	1	4
7/19/91	1	2	4
7/22/91	î	5	3
7/23/91	Ō	2	3
7/24/91	1	3	3
7/25/91	Ō	2	4
7/26/91	2	2	2
7/29/91	1	Ō	2
7/30/91	Ô	Ŏ	4
7/31/91	Ö	1	2
8/1/91	1	2	3
8/2/91	1	0	2

VAPOR EXTRACTION SYSTEM MONITORING RECORD ORGANIC VAPOR CONCENTRATION IN PPMV

DATE	GAC INFLUENT	GAC EFFLUENT	COMMENTS AMBIENT AIR READINGS
8/5/91	0	0	3
8/6/91	1	0	1
8/7/91	1	1	3
8/8/91	1	1	2
8/9/91	1	0	3
8/12/91	1	1	2
8/13/91	1	1	2
8/14/91	1	1	2
8/15/91	1	0	3
8/16/91	1	2	3
8/1 9/ 91	1	0	3
8/20/91	0.6	0.8	5
8/21/91	1.1	1.1	1.5
8/22/91	1.2	1	3.8
8/23/91	0.8	0.8	4
8/26/91	1	0.9	3.8
8/27/91	0.5	0.8	3.8
8/28/91	0.6	0.6	3.8
8/29/91	0.7	1.3	3.5
8/30/91	0.3	0.7	4
9/2/91	1.6	1	4.4
9/3/91	0.7	0.9	3.5
9/4/91	0.8	0.6	3.7
9/5/91	0.5	0.5	3.6
9/6/91	0	0.7	3.9
9/9 /91	0.6	0.5	3.6
9/10/91	0.9	0.5	3.8
9/11/91	0.6	1	3.7
9/12/91	0.6	0.8	3.6
9/13/91	0.6	0.8	3.3
9/16/91	0.6	0.7	3.8
9/18/91	3.1	2.2	3.7
9/19/91	2	1	3.3
9/20/91	0.7	0.7	1.7
9/23/91	0.3	0.3	3.6
9/25/91	0.9	1.2	3.7
10/1/91	0.4	0.3	3.1
10/10/91	0.6	0.6	3.9
10/17/91	1.1	1.1	3.4
10/22/91	1.3	0.9	3.3
10/28/91	3	2	4
11/11/91	0	3	3.3

ALL READINGS TAKEN BY OWNERS OF PROPERTY USING A FOXBORO OVA MODEL 128.

APPENDIX D Confirmation Soil Analysis Report



C K Y incorporated Analytical Laboratories

Date: 12/11/91 911207

CHIC 449 Tharp Drive Moraga CA 94556

Attn: Mr. Walter Loo

Subject: Laboratory Report

Project: N/A

Enclosed is the laboratory report for samples received on 12/03/91. The samples were received in coolers with ice and intact; The chain-of-custody forms were properly filled out. The data reported includes:

Method

No. of Analysis

EPA 5030/M8015 EPA 8010/8020 3 Soils 3 Soils

The results are summarized on six pages.

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

Sincerely,

Dr. Kam Pang Laboratory Director

EPA METHOD 5030/Mod. 8015 PROCARBONS BY PURGE & TRAP

CLIENT: CHIC DATE REC'D: 12/03/91
PROJECT: N/A DATE ANALYZED: 12/09/91

CONTROL NO: 911207 MATRIX:

SAMPLE ID:	CONTROL NO:	RESULTS (mq/kq)	DETECTION LIMIT (mg/kg)	Surrogate Rec. (%)
G H I Method Blank	911207-1 911207-2 911207-3 911207	ND 1.5 ND ND	1.0 1.0 1.0	91 119 100 106

CLIENT: CHIC DATE REC'D: 12/03/91

PROJECT: N/A DATE ANALYZED: 12/09/91
SAMPLE ID: G MATRIX TYPE: Soil

SAMPLE ID: G MATRIX TYPE: Soil CONTROL NO: 911207-1

PARAMETERS (8010)	RESULTS (ug/kg)	DETECTION LIMIT (ug/kg)
Dichlorodifluoromethane	ND	20
Chloromethane	ND	20
Vinyl Chloride	ND	20
Bromomethane	ND	20
Chloroethane	ND	20
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	5
Trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5
2-Chloroethylvinylether	ND	5
Trans-1,3-Dichloropropene	ND	5
Cis-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Dibromochloromethane	ND	5
Ethylene Dibromide	ND	5 5
Chlorobenzene	ND	5
Bromoform	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Chlorotoluene	ND	. 5
M-Dichlorobenzene	ND	5
P-Dichlorobenzene	ND	5 5
Benzylchloride	ND	5
O-Dichlorobenzene	ND	J
<pre>% Surrogate Recovery</pre>	25	
PARAMETERS (8020)		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Xylenes	ND	5
<pre>% Surrogate Recovery</pre>	91	

CLIENT: CHIC DATE REC'D: 12/03/91
PROJECT: N/A DATE ANALYZED: 12/09/91
SAMPLE ID: H MATRIX TYPE: Soil

CONTROL NO: 911207-2

	RESULTS	DETECTION LIMIT
PARAMETERS (8010)	(ug/kg)	(ug/kg)
Dichlorodifluoromethane	ND	20
Chloromethane	ND	20
Vinyl Chloride	ND	20
Bromomethane	ND	20
Chloroethane	ND	20
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	33	5
Trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Chloroform	40	5 5 5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5 5
Bromodichloromethane	ND	5
2-Chloroethylvinylether	ИД	5 5 5
Trans-1,3-Dichloropropene	ND	5
Cis-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5 5
Tetrachloroethene	ND	5
1,1,1,2-Tetrachloroethane	ND	5 5 5
Dibromochloromethane	ND	5
Ethylene Dibromide	ND	5
Chlorobenzene	ND	5
Bromoform	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Chlorotoluene	ND	, 5
M-Dichlorobenzene	ND	5
P-Dichlorobenzene	ND	5
Benzylchloride	ND	5
O-Dichlorobenzene	ND	5
o brontoroboneono		
§ Surrogate Recovery	125	
PARAMETERS (8020)		
Benzene	ND	5
Toluene	76	5 5 5
Ethylbenzene	6.2	5
Xylenes	100	5
% Surrogate Recovery	86	

DATE REC'D: CLIENT: CHIC 12/03/91 DATE ANALYZED: 12/09/91 PROJECT: N/A Soil MATRIX TYPE:

SAMPLE ID: I

CONTROL NO: 911207-3 _______

PARAMETERS (8010)	RESULTS (ug/kg)	DETECTION LIMIT (ug/kg)
Dichlorodifluoromethane	ND	20
Chloromethane	ND	20
Vinyl Chloride	ND	20
Bromomethane	ND	20
Chloroethane	ND	20
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	17	5
Trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	420	5
Carbon Tetrachloride	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	580	5
1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5
2-Chloroethylvinylether	ND	5
Trans-1,3-Dichloropropene	ND	5
Cis-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Dibromochloromethane	ND	5
Ethylene Dibromide	ND	5
Chlorobenzene	ND	5
Bromoform	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Chlorotoluene	ND	. 5
M-Dichlorobenzene	ND	5
P-Dichlorobenzene	ND	5
Benzylchloride	ND	5
O-Dichlorobenzene	ND	5
% Surrogate Recovery	70	
PARAMETERS (8020)		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Xylenes	ND	. 5
% Surrogate Recovery	94	

DATE REC'D: 12/03/91 CLIENT: CHIC PROJECT: N/A DATE ANALYZED: 12/09/91

SAMPLE ID: Method Blank MATRIX TYPE:

CONTROL NO: 911207

PARAMETERS (8010)	RESULTS (ug/kg)	DETECTION LIMIT (ug/kg)
Dichlorodifluoromethane	ND	20
Chloromethane	ND	20
Vinyl Chloride	ND	20
Bromomethane	ND	20
Chloroethane	ND	20
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	5
Trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5
2-Chloroethylvinylether	ND	5
Trans-1,3-Dichloropropene	ND	5
Cis-1,3-Dichloropropene	ИD	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Dibromochloromethane	ND	5
Ethylene Dibromide	ND	5
Chlorobenzene	ND	5
Bromoform	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Chlorotoluene	ND	. 5
M-Dichlorobenzene	ND	5
P-Dichlorobenzene	ND	5
Benzylchloride	ND	5
O-Dichlorobenzene	ND	5
§ Surrogate Recovery	55	
PARAMETERS (8020)		
Benzene	ND	5 #
Toluene	ND	5
Ethylbenzene	ND	5
Xylenes	ND	5
<pre>% Surrogate Recovery</pre>	98	

QUALITY CONTROL DATA

CLIENT:

CHIC

PROJECT:

N/A

CONTROL NO:

911207

METHOD

EPA 8010/8020

MATRIX:

Soil

SAMPLE ID:

911207-1

COMPOUND	SAMPLE <u>RESULTS</u> (ug/kg)	AMOUNT <u>SPIKED</u> (ug/kg)	<u> የEC.</u>	DUP. % REC.	RPD
Benzene	ND	20	100	109	9
Toluene	ND	20	97	104	7
1,1 DCE	ND	20	75	68	10
TCE	ND	20	83	98	16

METHOD

EPA 5030/M8015

MATRIX:

Soil

SAMPLE ID: 911207-1

COMPOUND	SAMPLE <u>RESULTS</u> (mg/kg)	AMOUNT <u>SPIKED</u> (mg/kg)	% REC.	DUP. % REC.	<u>RPD</u>
Gasoline	ND	2	75	75	О

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APPENDIX E Granular Activated Carbon Analysis Reports



C K Y incorporated Analytical Laboratories

Date: 01/21/92

920149

CHIC

449 Tharp Drive Moraga CA 94556

Attn: Mr. Walter Loo

Subject: Laboratory Report

Enclosed is the laboratory report for samples received on 01/16/92. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported includes:

<u>Method</u>	No. of Analysis
EPA 8010/8020	1 Soil
EPA 5030/M8015	1 Soil
LC 50 Bioassay	1 Soil

The results are summarized on seven pages.

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

Sincerely,

Dr. Kam Pang

Laboratory Director

CLIENT: CHIC DATE REC'D: 01/15/92
PROJECT: N/A DATE ANALYZED: 01/17/92
SAMPLE ID: GAL MATRIX TYPE: Soil

CONTROL NO: 920149-1

	RESULTS	DETECTION LIMIT
PARAMETERS (8010)	(ug/kg)	<u>(ug/kg)</u>
Dichlorodifluoromethane	ND	20
Chloromethane	ND	20
Vinyl Chloride	ND	20
Bromomethane	ND	20
Chloroethane	ND	20
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	670*	5
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	14000*	5 5 5 5 5 5 5 5 5
Trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	3800*	5
Chloroform	1200*	5
1,1,1-Trichloroethane	89000**	5
Carbon Tetrachloride	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	64000**	5
1,2-Dichloropropane	ND	5
Bromodichloromethane	1800*	5
2-Chloroethylvinylether	ND	5
Trans-1,3-Dichloropropene	ND	5
Cis-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	280*	
1,1,1,2-Tetrachloroethane	ND	5 5
Dibromochloromethane	ND	5
Ethylene Dibromide	ND	5
Chlorobenzene	ND	5
Bromoform	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Chlorotoluene	ND	
M-Dichlorobenzene	ND	5 5
P-Dichlorobenzene	ND	5
Benzylchloride	ND	5
O-Dichlorobenzene	ND	5
% Surrogate Recovery	93	
PARAMETERS (8020)		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Xylenes	ND	5
% Surrogate Recovery	66	

DATE REC'D: 01/15/92

CLIENT: CHIC
PROJECT: N/A
SAMPLE ID: Method Blank DATE RECUD: 01/17/92
DATE ANALYZED: 01/17/92
MATRIX TYPE: Soil

CONTROL NO: 920149

PARAMETERS (8010)	RESULTS (ug/kg)	DETECTION LIMIT (ug/kg)
Dichlorodifluoromethane	ND	20
Chloromethane	ND	20
Vinyl Chloride	ND	20
Bromomethane	ND	20
Chloroethane	ND	20
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	5
Trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Bromodichloromethane	ND	5
2-Chloroethylvinylether	ND	5
Trans-1,3-Dichloropropene	ND	5
Cis-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Dibromochloromethane	ND	5
Ethylene Dibromide	ND	5
Chlorobenzene	ND	5
Bromoform	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Chlorotoluene	ND	5
M-Dichlorobenzene	ND	5
P-Dichlorobenzene	ND	5
Benzylchloride	ND	5
O-Dichlorobenzene	ND	5
<pre>% Surrogate Recovery PARAMETERS (8020)</pre>	108	
Benzene	ND	5
Toluene	ND	· 5
Ethylbenzene	ND	5
Xylenes	ND	5
% Surrogate Recovery	96	

EPA METHOD 5030/Mod. 8015 TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

DATE REC'D: 01/15/92 CLIENT: CHIC PROJECT: DATE ANALYZED: 01/18/92 N/A CONTROL NO: 920149 MATRIX: Soil RESULTS DET. LIMIT Surr. % SAMPLE ID: CONTROL NO: (mq/kq)(mq/kq)<u>Rec.</u> Method Blank 93 920149 ND 1.0 920149-1 1.3 1.0



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

January 28, 1992

Ms. Edelyn Brennan CKY, Inc. 3551 Voyager St., Ste. 102 Torrance, CA 90503

Dear Ms. Brennen:

In accordance with Chain of Custody dated January 16, 1992, we are pleased to present the enclosed bioassay, report, Lab No. CKY0120.121 for the sample labeled 9204-49-2 and received in this laboratory on January 17, 1992, at 1300. The test was conducted in freshwater, utilizing fathead minnows (Pimephales promelas). Results were as follows:

Sample I.D. Date Received 96 hr LC50 = 95% Conf. Int. =

9204+49-2 January 17, 1992 >750 mg/LN/A

Respectfully submitted,

Thomas (Tim) Mikel

Laboratory Director

ABC Laboratories 29 North Olive Street Ventura, Ca. 93001 (805) 648-2735

CLIENT NAME:CKY

DATE: 01/17/92

1300

SAMPLE ID: 9201-49-2

LAB.NO: CKY0120.121

EST TYPE: Screening

FLOW: Static

TANK VOLUME: 10 Liters

DILUTION WATER: Reconstituted Fresh

HARDNESS: 52 mg/l

ALKALINITY: 38

END: 58

END: 36

Single bubble aeration in all tanks

ACCL.TEMP:

20.0 deg.C

RGANISM: Fathead Minnow

SPECIES: Pimephales promelas

SOURCE: Thomas Fish Co.

ARRIER: Greyhound Bus Co.

DATE REC'D: 01/07/92

AVG.LNGTH: 39 mm AVG.WT.: .7 g

NUMBER ORGANISMS PER TANK:

	Initial	24 Hour	48 Hour	72 Hour	96 Hour
Date:	01/21/92	01/22/92	01/23/92	01/24/92	01/25/92
Time:	1300	1030	1045	0900	1000

Tot. onc. DO Dg.C pH #M DO Dg.C pH #M DO Dg.C pH #M DO Dg.C pH #M #M DO Dg.C pH mg/l

(Con.)	7.6	20.4	7.3	8.2	20.0	7.4	0	8.2	20.2	7.5	0	8.2	18.7	7.6	0	8.1	18.6	7.6	0)

750(A)	8.2	21.2	7.5	8.6	20.0	7.6	0	8.6	19.7	7.6	0	8.6	18.7	7.6	0	8.0	18.8	7.6	0	0
750(B)	8.2	21.0	7.5	8.4	19.9	7.6	0	8.6	19.7	7.6	0	8.6	18.6	7.5	٥	8.2	18.7	7.6	0	0
400(A)	8.3	21.0	7.5	8.2	19.8	7.5	0	8.0	19.8	7.5	0	8.4	18.7	7.5	0	8.3	18.7	7.5	0	0
400(B)	8.2	21.0	7.5	8.2	20.0	7.4	0	8.0	20.0	7.4	0	8.4	18.7	7.5	0	8.2	18.8	7.5	0	o
																	_			

6 HOUR LC50 = >750 mg/L

95% CONFIDENCE INTERVAL = N/A

CALCULATION METHOD: Binomial Test

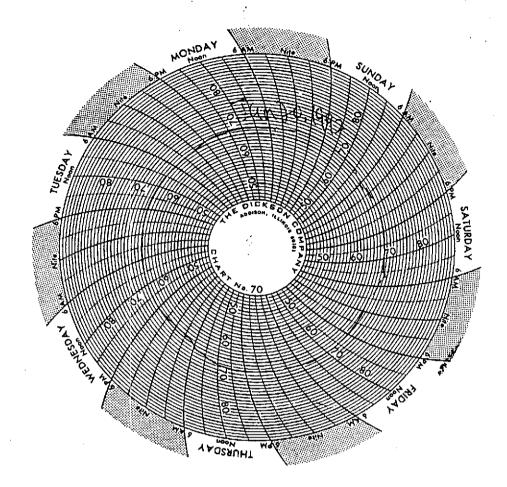
Martha Meyer, Chief Biologist

Beginning Sample Hardness: Ending Sample Hardness:

45 mg/L (CACO3) Alkalinity: 45 mg/L (CACO3) Alkalinity:

35 mg/L35 mg/L

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



CLIENT NAME: ADDRESS: PHONE NO.			CHAIN	OF CU	JSTOD	Y REC	OI	RD					 .		·						
ADDRESS: 4-4-1	1414 11 11	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	REQU	JEST F MATE: <u>//</u>	OR AI	NALYS	IS								Envi	ronm	orpor ental	Senu	ices		
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PPO JECT NAME.			-				,						I		Tel: Fax:	415-8 415-8	346-31 146-31	88 88			i
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SAMPLER NAME/SIGNATU	5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	FAX: 510	- 601-197	TURN A	ROUND TI	ME	Т					WALY	SES	REC		<u> </u>					
, ,	/ /			NORM	AL رځ	3		M8015 (5A.)	/ <u>=</u>	<u> </u>			CAM Metais		<u> </u>						
SAMPLE	SAMPLING	PRESER-	CONTAINER	SAMPLE	DESCRI		18.1	015	960	8020/602		8270/625	Ž		9						
NUMBER	DATE/TIME	VATIVE	SIZE/TYPE	WATER		OTHER	₹	_\$	8	8 8	§ §	827	₹		2						
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Company:	Time:	Company:	Tin	ne: ,	Company	<i>r</i> :			Tim	9 :	C	ompa	ıny:				+	Time	D :		



C K Y incorporated Environmental Services

Date:

05/14/92

N9205-03

CHIC

448 Tharp Drive Moraga, CA 94556

Attn:

Mr. Walter Loo

Subject:

Laboratory Report

Project:

Enclosed is the laboratory report for samples received on 05/01/92. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported includes:

Method	No. of Analysis
M8015/Gas	1 Solid
EPA 8010	1 Solid
EPA 8020	1 Solid
Fish Bio Assay	1 Solid

The results are summarized on eight pages.

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

Sincerely,

Danny Moang

-- Laboratory Director

EPA METHOD 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: Chic
PROJECT: DATE REC'D: 05/01/92
SAMPLE ID: GAC
CONTROL NO: N9205-03-1

CLIENT: TYPE: Solid

PARAMETERS (8010)	RESULTS (ug/kg)	DETECTION LIMIT
	7-37-441	(ug/kg)
Dichlorodifluoromethane Chloromethane	ND	20
Vinyl Chloride	ND	20
Bromomethane	ND	20
Chloroethane	ND	20
Trichless 47	ND	20
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5 5
Methylene Chloride	ND	5
cis-1,2-Dichloroethene	ND	5 5
Trans-1,2-Dichloroethene	ND	5 5
1,1-Dichloroethane Chloroform	160	5 5
1 1 1-mm/2-23	ND	5 5
1,1,1-Trichloroethane	ND	5 5
Carbon Tetrachloride	ND	5
1,2-Dichloroethane	ND	5 5
Trichloroethene	630	
1,2-Dichloropropans	ND	5
Bromodichloromethane	ND	5
2-Chloroethylvinylether	סא	5
** G119** . 1 = [] Ch Ovon	ND	5
~+=-+,J~D1CNIOYANA~~	ND	5
-/+/4TITICDIOPOSTNASA	ND	5
Tetrachioroethene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
DIDIOMOCDIOPOMATHUMA	ND	5
Ethylene Dibromide	ND	5
Chiorobenzene	ND	5
Bromoform	אם מא	5 5
1,1,2,2-Tetrachloroethane		5
~111010f0lf6b6	ND	5
M-Dichlorobenzene	ND	5
P-Dichlorobenzene	ND ND	5
Benzylchloride		5
0-Dichlorobenzene	ND ND	5
무슨는 물 중요리를 무료 과 환경은 그 본 장원교육 목욕으로 중 중요는 # 독 등 등		5

NA

1.0

EPA METHOD 5030/Mod. 8015 TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

CLIENT: Chic DATE REC'D: 05/01/92 PROJECT: DATE ANALYZED: 05/01/92 CONTROL NO: N9205-03 MATRIX: Solid

Results DET. LIMIT & SURRO SAMPLE ID: CONTROL NO: $(m\alpha/k\alpha)$ RECOVERY (ma/ka) GAC N9205-03-1 ND

EPA METHOD - 2020 BTEX

CLIENT:

Chic

DATE REC'D: 05/01/92

PROJECT:

CONTROL NO: N9205-03

DATE ANALYZED: 05/01/92

MATRIX TYPE: Solid

RESULTS (ug/kg) * SURRO SAMPLE ID: CONTROL NO: Benz Tol Et Benz Xvls RECOVERY GAC N9205-03-1 ND ND ND ND NA DETECTION LIMIT 5 5 5 5



TOXICITY TESTING . OCEANOGRAPHIC RESEARCH

May 11, 1992

Dr. K. Pang CKY, Inc. 630 Maple Avenue Torrance, CA 90503-5001

Dear Dr. Pang:

In accordance with Chain of Custody dated May 04, 1992, we are pleased to present the enclosed bicassay report, Lab No. CKY0521.023 for the sample labeled N9205-03 and received in this laboratory on May 05, 1992, at 1830. The test was conducted in freshwater, utilizing fathead minnows (Pimephales promelas). Results were as follows:

Sample I.D. N9205-03
Date Received May 05, 1992
96 hr LC50 = >750 mg/L
95% Conf. Int. = N/A

Respectfully submitted,

Thomas (Tim) Mikel Laboratory Director

ABC Laboratories 29 North Olive Street Ventura, Ca. 93001 (805) 643-5621

CLIENT NAME: CKY, INC.

DATE: 05/05/92

1530

SAMPLE ID: N9205 - 03

LAB.NO: CKY0521.023

TEST TYPE: Screening FLOW: Static

TANK VOLUME: 10 Liters

DILUTION WATER: Reconstituted Fresh

HARDNESS: 50 mg/1 ALKALINITY: 25 mg/1

DD: 48

END:

AERATION: Single bubble aeration in all tanks

20.0 deg.C ACCL.TEMP:

Fathead Minnow CRGANISM:

SPECIES: Pimephales promelas

SOURCE: Thomas Fish Co.

CARRIER: Greyhound Bus Co.

DATE REC'D: 04/28/91

AVG. LNOTH: 35 mm AVG.WT.: .49g

NUMBER ORGANISMS PER TANK: 10

	Initial	24 Hour	48 Hour	72 Hour	96 Hour
Date:	05/06/92	05/07/92	05/08/92	05/09/92	05/10/92
Time:	0930	0945	1015	1330	1000
Conc.					أكالت بمريوس بالمراوي والمراوي

	DO Dy.C																	#M	
0 (Con.)	7.5 20.2	7.6	7.5	20.2	7.6	٥	7.6	20.3	7.5	0	6.4	20.3	7.4	0	7.6	20.2	7.3	0	0

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400 (B	3) 8	.7	20.	3	7.5	7	.8	20.3	7	.6	0	7	.3	20	.5	7.	6	0	-	. 2	20.	7	.9	0	7	. 8	20.	2	8.0	0	
400 (A	1) 8	.6	20.	2	7.8	7	.9	20.2	7	.6	0	7	.5	20	.3	7.	6	0	8	, 2	20.	3 7	. 6	0	7	.4	20.	2	7,9	0	
750 (E	3) 8	.6	20.	2	7.8	1	1.0	20.2	7	7.7	0	7	.6	20	.3	7.	7	0	7	.9	20.	2 7	.9	0	7	. 6	19.	9	7.9	0	
750 (7	4) 6	1.5	20.	2	7.	9 7	7.9	20.2	2 7	7.7	0	7	.5	20	.3	7.	7	0	6	. 3	20.	1	7.8	0	7	. 9	20.	0	7.9	0	

96 HOUR LC50 = >750 mg/l

95% CONFIDENCE INTERVAL - N/A

CALCULATION METHOD: Binomial Test

from cerus DATE: 05/11/91 ANALYST

FOR Martha Meyer, Chief Biologist

REMARKS: Beginning Sample Hardness: Ending Sample Hardness:

62 mg/L (CACC3) Alkalinity: 38 mg/L 50 mg/L (CACO3) Alkalinity: 35 mg/L

CLIENT NAME: ADDRESS: MOR PHONE NO. PROJECT NAME: SENO REPORT TO: W	CHIC RAGA CA FAX NO. ALTER	P DRIVE 1. 94536 LOO T	CHAI REO		OR AN 5/// 0f	Jalys 92 —	OR	Mane THIE			(Y	<i>Et</i> 39 Plo Te	tviron 42 Vai easanti I: 415	icorpo menta ley Ave on, CA i-846-3 i-846-3	l Service mue, Suite 94566 188	ra e F	
SAMPLER NAME/SIGNATUR	AE		1		IT DAUGH	_		· ·			Al	VALYS	SES A	RECUI	REQ				
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SAMPLE NUMBER	SAMPLING DATE/TIME	PRESE! VATIVE	GONTAINE SIZE TYPE		SOIL	OTHER	418.1	M8015	8010/601	809/0808	8240/624	8270/625	CAM Metals	9	1/3	5			
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APPENDIX FGranular Activated Carbon Decommission Record

WEST CONTRA COSTA SANITARY LANDFILL

WASTE DISPOSAL REQUEST/INFORMATION FORM

_	GENERATING FACILITY NAME/ADDRESS: CROTEY AND HERRING INV. CE
1 1.	The Claratic Transmiller CA: 94 608
	CONTACT PERSON OR CONSULTANT (if any) R. D. HERRING PARTNER (510)376.3473
2.	CONTACT PERSON OR CONSULTANT (if any) No District Contact Person OR CONSULTANT (if any)
	Name: Telephone: WATER Los CONSULTANT (Sic) 601.1263
3.	WASTENAME: GRANULAR ACTIVATED CARBON
4.	ANTICIPATED VOLUME: 10-5591 DELIVERY PERIOD: ONE TIME ONLY [Per day, week, one-time only]
5.	TRANSPORTATION FIRM: Yet to be determined
	TYPE OF TRANSPORT TRUCK: 10 CY Semi-end Double bottoms
6.	Single bottom Drop box Individual Containers
7.	METHOD OF PAYMENT: Check Cash Charge Purchase Order (Charge & PO must have prior WCCSL Accounting Department approval) Charge Account Name Purchase Order No
8.	Description of Process and Circumstances Producing Waste:
,	Cleaning Volatiles from Contaminated Scilby PASSING them
	through Activated CARbon. CARbon has since been purged And Remediated
For W	CCSI Use Only
FORM	ACCEPT: REJECT: Notification: 6 39 9 3
Partie	Complete Authorized By: Wiring Burner Expiration: 9 29 9
	Appointment:
	patible ATES AND FEES:
	ially Incompatible III INCEL AND NOT isposal Rate:
<u>ND</u> : '	No No Cont 55 gal county/State Free: \$2.55/ton
Revie Date:	wed by: B. Dvorsing accept ainers the Retor/Fees: 6-10-912 drum containers

	. 1	sterials and chemicals used in the production process: Activated CARbon has been defeated
9.	List all ma	alenais and chemicals oscolition process liquid Sentilizer 27.0.4
10. US	N AN Describe	elected Einstic Process over A five month period the process by which the waste is collected:
(A)	VAPO VAPO Waste Ch	Extraction using head on Exacuated Soil and Exhaust blowin. R Extraction on Underzopound Soil and water using Exhaust blowin maracteristics: ACM Sour Wells in target AREA. All vagors wire passed rough the Activated Carbon to collect toxic Material. cal Description: Solid Sludge Powder (Describe) Color: GRANDIAR - Black
Ì	Odor:	
	B. Free L	iquids: Yes No No MAy be RESIDUAL WATER IN DUTTEN et drims
		nt: 95Solids 5 Water 6 Oil
1		NA How Measured:
1	E. Flash	Point N/A F (Closed Cup Test)
12.,	Waste C	omposition:
, .	Á1	s this waste produced in the manufacture of pesticide or herbicide products, or does it
	(contain pesticide or hérbicide compounds? Yes No IF YES, ATTACH CERTIFIED ANALYTICAL RESULTS.
		X 15 VCC ATTACH CERTIFIED
, , , , , , , , , , , , , , , , , , ,	B !	Does this waste contain Toxic Metals? Yes No No IF YES, ATTACH CERTIFIED ANALYTICAL RESULTS.
ŀ		
1	C.	Reactive Constituents: Does this waste contain Cyanide, Sulfide? Yes No 15 IF YES, ATTACH CERTIFIED ANALYTICAL RESULTS.
•		Does this waste contain halogenated organic compounds (such as PCB's, '
		Trichloroethylene, Chlorobenzene, etc.)? Yes No IF YES, ATTACH CERTIFIED ANALYTICAL RESULTS. All kalogenated organic Compounds have been levels. Reduced to below State and federal telegands levels.
	Ε.	Does the process generating this waste use halogeriated organic to the process generating this waste use halogeriated organic to the process generating this waste use halogeriated organic to the process generating this waste use halogeriated organic to the process generating this waste use halogeriated organic to the process generating this waste use halogeriated organic to the process generating this waste use halogeriated organic to the process generating this waste use halogeriated organic to the process generating this waste use halogeriated organic to the process generating this waste use halogeriated organic to the process generating generating generating generating generating generating generating generating generating generating generating
ì		of the process? Yes No IF YES, ATTACH CERTIFIED ANALYTICAL RESULTS.
	. F.	Does this waste contain non-halogenated organic solvents (such as toluene, hexane,
		acetone) or similar such compounds (such as petroleum naphtha, gasoline)? Yes No. No. No. No. No. No. No. No. No. No.
,	•	

G. Does	the process generating	this waste use no	n-halogenated	Lorganic solve	nts or similar	
comp ANAL	ounds in any part of th YTICAL RESULTS.	ie process? Kes 🗠	<u>∞</u> 1.40 (T a ≊zen 1.	- 165, ATTAC	, Cerrinico	
Hazardous Ch	aracteristics:					
Reactive	Yes	NoX		·		
lonitable	Yes	No_X				
Corrosive	Yes	No_X	,	·		•
Radioactive	Yes	NoX				,
Etiological	Yes	No_X				
List-all knówr	or suspected hazards	not otherwise discl	osed in this d	ocument:		
Non	<i>Ι</i> ε				-	•
Is the informa	us Waste? Yes Nation provided based up ACH CERTIFIED ANALY	non laboratory anal	ysis of the wa	este? Yes X	No	
		[2002]		•		
Is the waste	stream homogeneous?	Yes 🔊 No		<u>.</u>		1
Explain basis	of answer: <u>All</u>	ton drums	ARE SAI REMEDIA	ME MATE, tid) UN;	term ly de	MAUS. Logifie Ace Eptas
To generator: last year:	$egin{aligned} egin{aligned} egi$	lly completed Waste	· • Information (ronn on this we	33(C <u>141(1))</u>	•
	nificant changes occur			100000004 1000230	24	•
since the mo describe: Ci present in th	ist recent Waste Inform hanges would also inc e waste.	mation Form was published contamination	orepared? Yes	s No No No No No No No No No No No No No	If yes, fully not normally	
				-		

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19. GENERATOR'S CERTIFICATION: I hereby declare that all information submitted in this and all attached documents is true, complete and accurate, and that the contents of this consignment are fully and accurately described above, and the contents of the consignment meet neither the U.S. Environmental Protection Agency Resource Conservation and Recovery Act criteria for a hazardous waste as specified in 40 CFR, Part 261, nor the California Department of Health Services criteria for a hazardous waste or extremely hazardous waste as specified in Title 22, California Administrative Code, Chapter 30.

Print Name: R. D. HERRING Title: WARTNER

Signature: JUNE 4, 1992

ONE COPY OF THIS FORM, ADDITIONAL SHEETS CONTAINING SUPPLEMENTAL INFORMATION AND WASTE REVIEW FEE (\$200.00) SHOULD BE RETURNED TO:

P. O. Box 4100
Richmond, CA 94804-0100

CONDITIONS FOR ACCEPTANCE

- Completed and approved Waste Disposal Request Form.
- Approved waste is accepted Monday through Friday between the hours of 8:00 AM and 2:00 PM ONLY.
- 3. An appointment for disposal must be made at least 24 hours in advance. Loads arriving without prior approval or appointment will be rejected.
- A. Approval for disposal is valid for a period of 120 days. After that time it will be necessary to reapply for acceptance.
- 5. These conditions are subject to change without notice.

CROLEY AND HERRING INVESTMENT COMPANY

13|1 - 63RD SIREET

EMERYVILLE, CA 94008

\$200.00

DOLLAF

THE BANK OF CALIFORNIA Oakland Office Franklin at 20th St. Oakland, California 94612

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