ALAMEDA COUNTY **HEALTH CARE SERVICES**





DAVID J. KEARS, Agency Director

July 13, 2004

2855 Mandela Property, LLC Ms. Fave Beverett 4225 Glen Ave., #200 Oakland, CA 94611

ENVIRONMENTAL PROTECTION

ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Dear Ms. Beverett:

Subject: Fuel Leak Case RO0000378, 2855 Mandela Parkway, Oakland, CA 94607

This letter responds to your July 2, 2004 request for clarification of the County's involvement with the oversight of the referenced fuel leak site. Such information is requested for the SWRCB Cleanup Fund for their reimbursement decisions. You further commented that there appeared to be a lack of correspondence prior to my oversight. The following is a brief history of actions and correspondences from our office.

- 7/9/92- Notice of Responsibility letter sent to Wareham Property Development.
- 9/1/98- Phase II investigation report from Ceres Associates submitted, free product reported in
- 11/28/98- The 11/23/98 Workplan Addendum from Ceres Associates approved by Larry Seto of our office.
- 1/11/99- Meeting with Mr. Larry Seto, Ms. Faye Beverett and consultants from Ceres Associates and Soma Corp. representing former property owner.
- 4/19/99- Approval letter for Treadwell & Rollo 4/14/99 Work Plan for Source Investigation from Mr. Larry Seto.
- 7/15/99- Approval letter for the 6 /15/99 Treadwell & Rollo Work Plan for Phase I Remediation and Additional Subsurface Investigation from Mr. Larry Seto.
- 11/12/99- Approval letter for Treadwell & Rollo 11/10/99 Work Plan for Floating Product Plume Delineation from Mr. Larry Seto.
- 2000- Several correspondences regarding the naming of International Truck (formerly International Harvester) as a RP from you, our office and International Truck.
- 6/14/02- Approval letter for the installation of passive product skimmer in TR-4 through TR-6 by the undersigned.
- 2/10/04- Approval letter for draft Interim Corrective Action Plan by the undersigned.

There appears to have been continual correspondence and oversight by our office. Please be informed that your new caseworker from our office is Mr. Don Hwang, 510-567-6746.

You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan

Hazardous Materials Specialist

Banez U Cla

C: B. Chan, D. Drogos, D. Hwang

7_13_04 2855MandelaPkwy



State Water Resources Control Board

Division of Financial Assistance

1001 I Street • Sacramento, California 95814
P.O. Box 944212 • Sacramento, California • 94244-2120
(916) 341-5714 • FAX (916) 341-5806 • www.jourch.ca.gov/cwphome/ustcf



Terry Tamminen
Secretary for
Environmental
Protection

MAY 2 6 2004

2855 Mandela Property LLC Faye Beverett 4225 Glen Ave Oakland, CA 94611-4349



UNDERGROUND STORAGE TANK CLEANUP FUND (FUND), CLAIM NO. 017160, FOR SITE ADDRESS: 2855 MANDELA PKWY, OAKLAND

The State Water Resources Control Board (State Board) is able to issue, pursuant to applicable regulations, the enclosed Letter of Commitment (LOC) in an amount not to exceed \$70,000. This LOC is based upon our review of the corrective action costs you reported to have incurred to date. The LOC may be modified by the State Board.

It is very important that you read the terms and conditions listed in the enclosed LOC. Claims filed with the Underground Storage Tank Cleanup Fund far exceed the funding available and it is very important that you make use of the funding that has been committed to your cleanup in a timely manner.

You are reminded that you must comply with all regulatory agency time schedules and requirements and you must obtain three bids for any required corrective action. Only corrective action costs required by the regulatory agency to protect human health, safety and the environment can be claimed for reimbursement. You are encouraged to obtain preapproval of costs for all future corrective action work (form enclosed). If you have any questions on obtaining preapproval of your costs or the three bid requirement, please call Sunil Ramdass, our Technical Reviewer assigned to claims in your Region, at (916) 341-5757. Failure to obtain preapproval of your future costs may result in the costs not being reimbursed.

The following documents needed to submit your reimbursement request are enclosed:

Reimbursement Request Instructions and Information packages. Retain these packages for future reimbursement requests. These instructions must be followed when seeking reimbursement for corrective action costs incurred after January 1, 1988.

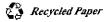
"Reimbursement Request" forms which you must use to request reimbursement of costs incurred.

"Spreadsheet" forms which you must use in conjunction with your reimbursement request.

THIS IS IMPORTANT TO YOU, PLEASE NOTE:

Signature(s) on the application will be the signature(s) required for all future Fund documents.

California Environmental Protection Agency



You have 90 calendar days from the date of this letter to submit your first reimbursement request for incurred corrective action costs. **NO EXTENSIONS CAN BE GRANTED**. If you fail to do so, your LOC funds will automatically be reduced to zero (deobligated). Once this occurs, any future funds for this site are subject to availability when you submit your first reimbursement request. We continuously review the status of all active claims. You must continue to remain in compliance and submit a reimbursement request every 6 months. Failure to do so will result in the Fund taking steps to withdraw your LOC.

If you have any questions regarding the enclosed documents, please contact Toru Okamoto at (916) 341-5649.

Sincerely,

Allan V. Patton, Manager

Underground Storage Tank Cleanup Fund

Enclosures

cc: Ms. Donna Drogos

Alameda County EHD

1131 Harbor Bay Pkway, 2nd Fl.

Alameda, CA 94502-6577

212104



State Water Resources Control Board

Division of Financial Assistance

1001 I Street - Sacramento, California 95814
P.O. Box 944212 - Sacramento, California - 94244-2120
(916) - FAX (916) 341-5806 - www.awreb.ca.gov/cwphome/ustcf



PO 378

FAX TRANSMITTAL

DATE:	314141
TO:	Barney Chan
CLAIM NO.	17140 (2855 Mandula Pankway, Oakland)
FAX NUMB	ER (510) 337-9335
FROM:	UST CLEANUP FUND FAX #: (916) 341-5806 PHONE #: (916) 341-5714
NUMBER O	F PAGES (including this page):
For you	ur information
Per you	ar request
For you	ir review and comment
Other	
Hi	Barney,
PL But P.S.	last righ compliance form to be page. The to me. I'm only sending one page. Then the Original signature tome. Thanks, Shari Kniesiem Asain

CLAIM NO : 17140 CHIMANT NAME: 2855 Mandel Property LLC
SITE ADDRESS: 2855 Mandula Park way, Oakland
COMPENNE LIGHT WATER
3/7/01- Indoor Ambient Air Sampling, Treadwell and Rollo
3/29/01- Remedial Investigation Work Plan, Treadwell and Rollo
4/4/01- Work plan approval letter for 3/29/01 Remedial Investigation
10/23/01- Additional Remedial Investigation, Treadwell and Rollo
11/28/01- Notice of Responsibility to Faye Beverett, Page Street Properties LLC and Robert Boardman, International Truck
12/7/01- Notice of Responsibility, Leighton Taylor and Linda Taylor Revocable Trust and Page Street Properties, c/o Faye Beverett, and Robert Boardman, International Truck
6/3/02- Free Phase Product Monitoring Plan, Treadwell and Rollo
6/10/02- Addendum to the 1999 Remedial Investigation Report
6/14/02- Approval letter from Alameda County for Interim Remediation
1/22/04- Draft Interim Corrective Action Plan, Treadwell and Rollo
2/10/04 Approval letter from Alameda County for Draft Interim Corrective Action Plan, Treadwell and Rollo
. ₹** •
GONGRMATION OF CORRECTIVE ACTION COMPLIANCE CONTRACTOR COMPLIANCE
Claimant in corrective action compliance
Claimant not in corrective action compliance (90 day letter required)
Slaimant not in corrective action compliance - rejection recommended
Barney Clan LEADAGENCY SIGNATURE DATE
Barney Chan LEADINGENCY SIGNATURE Shari Kriusiem 3/2/04 BIZ/04
CLAIMS REVIEWER SIGNATURE DATE

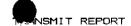
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CLAIM NO.: 17	1140 CLARMANT NAME: 2855 Mandela Property LLC 1855 Mandela Park way oakland
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3/29/01 - Remedia	l Investigation Work Plan, Treadwell and Rollo
4/4/01 - Work plan	n approval letter for 3/29/01 Remedial Investigation
10/23/01- Additio	mal Remedial Investigation, Treadwell and Rollo
11/28/01- Natice	of Responsibility to Faye Beverett, Page Street Properties LLC and Robert Boardman, International Truck
12/7/01 - Notice of Beverett, and Rob	f Responsibility, Leighton Taylor and Linda Taylor Revocable Trust and Page Street Properties, c/o Faye ert Boardman, International Truck
6/3/02- Free Phes	e Product Monitoring Plan, Treadwell and Rollo
6/10/02- Addendu	un to the 1999 Remedial Investigation Report
6/14/02- Approva	letter from Alameda County for Interim Remediation
1/22/04- Draft Int	erim Corrective Action Plan, Treadwell and Rollo
2/10/04 Approve	l letter from Alameda County for Draft Interim Corrective Action Plan, Treadwell and Rollo
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Treadwell&Rollo

Environmental and Geotechnical Consultants

501 14th Street, 3rd Floor Oakland, California 94612 Phone: (510) 874-4500

Fax: (510) 874-4507

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FAX TRANSMITTAL

Date: 23 Feb 2004	Send to fax # 510 - 337 - 9335
To: Barney Chan	
From: David Klees=Hel	At Ext: 541
Project name: 2855 Mandela Pkwy	Project number:
Number of pages, including this cover:	· .
Notes: Barney - I got your	Phone message.
Faye Beverett's current ma	
1999 Harrison	Street Suite 1750
Oakland CA	•
Phone: 5	10 - 433 - 5देडा
fax: 5	10 - 986- 6779
	et @ colliers parrish, com
This document will also be mailed to yo	ou:

Should you encounter any difficulties with this fax, please call 510/874-4500

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ALAMEDA COUNTY HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

February 10, 2004

Page Street Properties c/o Ms. Faye Beverett 155 Filbert St., #250 Oakland CA 94607 ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Dear Ms. Beverett:

Subject: Fuel Leak Case No. RO0000378, 2855 Mandela Parkway, Oakland CA 94607

Alameda County Environmental Health, Local Oversight Program (LOP), has reviewed the case file for the subject site including the following Treadwell and Rollo reports and information: Draft Interim Corrective Action Plan, January 22, 2004, Xitech Product Pumps Specifications, January 30, 2004 and Free Product Recovery Pilot Test Memorandum, February 6, 2004. These reports and product specification sheets support the proposal to install an interim product removal system at this site. It will consist of both existing and two additional recovery wells and an extraction trench for free product collection and removal. The proposed remediation system is approved with the technical comments, which follow.

TECHNICAL COMMENTS

- 1. A minimum of one additional monitoring well should be installed to define the down-gradient extent of the petroleum plume. Please submit a site figure indicating its location and its proposed construction diagram.
- 2. The new well and the existing wells not used in the free product remediation system should be monitored on a quarterly basis. The quarterly reports should also summarize the total amount of free product removed and an estimate of the area of influence of the extraction wells and trench. The fourth monitoring report shall provide a summary of the prior year's results and present modifications to monitoring protocol and the remediation system, as necessary.
- 3. Verification sampling of soil and groundwater will be done after the completion of the interim remediation to verify its effectiveness. A final Corrective Action Plan (CAP) will then be recommended.

Please notify our office prior to initiating this work. You may contact me at (510) 567-6765 if you have any questions.

Sizzerely.

Barney M. Chan

Hazardous Materials Specialist

rnes M Cha

C: B. Chan, D. Drogos

Mr. D. Kleesattel, Treadwell and Rollo, Inc., 501 14th St., Third Floor, Oakland, CA 94612 intCAP2855Mandelaz 10 04

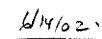
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Treadwell&Rollo

Environmental and Geotechnical Consultants

501 14th Street, 3rd Floor Oakland, California 94612

Phone: (510) 874-4500 Fax: (510) 874-4507



FAX TRANSMITTAL

Date: 6 February 2004	Send to fax # (510) 337-9335			
Го: Barney Chan - Alameda County Health S	Services Agency			
From: Eric Deratzian	At Ext: 545			
Project name: 2855 Mandela Parkway	Project number: 2543.01			
Number of pages, including this cover: 3				
Notes:				
Barney,				
Attached is a memorandum describing the res	sults of our free product recovery pilot			
study. Please call with any questions.				
Thanks,				
•				
Thanks,	to you: 🗌 Yes 🔀 No			

P.2

MEMORANDUM

TO: Barney Chan - Alameda County Health Services Agency

<facsimile 510-337-9335>

FROM: Eric Deratzian

DATE: 6 February 2004

PROJECT: Mandela Parkway – 2855 Mandela Parkway

SUBJECT: Free Product Recovery Pilot Test

One behalf of David Kleesattel, this memorandum has been prepared to present the results of our free product recovery pilot test at the subject property.

The existing building on the property is a 143,000 square foot, single-story industrial structure. The building is currently occupied by a number of commercial tenants, mainly for warehousing and storage operations. The building was originally constructed in 1941 and operated until approximately 1983 by International Harvester as a truck service and sales facility. A 350-gallon underground gasoline storage tank was removed from the property in 1991 by a previous owner, Cypress Property.

Environmental investigations have confirmed the presence of free-phase product (gasoline) within the Bay Mud as well as significant concentrations of benzene, toluene, ethylbenzene, and total xylenes (BTEX) in groundwater beneath a portion of the property, including under the existing building. The free product recovery pilot study included the use of a Xitech ADJ 1000 Smart Skimmer (pump) attached to the 2500ES Electronic Timer to remove free-phase product from two on-site wells.

Treadwell & Rollo performed the pilot study in two on-site wells (TR-4 and TR-6). The wells were chosen because they were known to contain large quantities of free-phase product.

The following steps were taken during the pilot test:

- Using an oil/water interface probe, the depth to free-phase product and depth to water was measured to find how much free product was in the well.
- Based upon free product thickness, the pump depth was selected within the optimum recovery zone.
- After the system hoses were connected, the 2500BS Electronic Timer was switched to continuous cycle to calculate the time it takes to purge the well of free-phase product. A well was considered purged once gaps of air appeared in the product recovery line.



Barney Chan 06 February 2004 Page 2

- The calculated purge time was then used to set the duration of the pumping cycles. After the
 duration time was set, the number of cycles was based the time required for free product to
 recover in the well.
- In this study, it took approximately 10 minutes to produce approximately three gallons of free-phase product, which purged the well. Therefore, the timer was set at one cycle (once per 24 hours) for a 10 minute duration.

Pilot Test Results

The first well, TR-4, yielded approximately 7.5 gallons of product over a five day period. The second well, TR-6, yielded approximately 14.5 gallons of product over a three day period. A total of 22 gallons of free-phase product was removed from the wells over an eight day period. Based upon the results of the pilot test, it appears the use of the Xitech ADI 1000 Smart Skimmer/2500ES Electronic Timer System were effective in removing free-phase product from the on-site wells.



State Water Resources Control Board

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For a list of simple ways you can reduce demand and cut your energy costs, see our website at www.swrcb.ca.gov.



Gray Davis

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tal

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption.

2855 Mandela Property LLC Faye Beverett 1999 Harrison St Oakland, CA 94612

November 4, 2003

UNDERGROUND STORAGE TANK CLEANUP FUND (FUND), NOTICE OF PERMIT WAIVER AND ELIGIBILITY DETERMINATION: CLAIM NUMBER 017160; FOR SITE 2855 MANDELA PKWY, OAKLAND

Your claim has been accepted for placement on the Priority List in Priority Class "B".

We have completed our initial review. The next step in the claim review process is to conduct a compliance review.

Permit Waiver: Under the amended provisions of Section 25299.57 of the Health and Safety Code (H&SC), the State Board has granted your request for a waiver for the permit requirement as a condition for eligibility to the Fund. It is important to note that when a claimant failed to apply for or obtain the permits required pursuant to Chapter 6.7, Division 20, of the H&SC, by January 1, 1990, and the State Board grants a waiver pursuant to Section 2811(a)(2)(B) of the Underground Storage Tank Cleanup Fund Regulations, the claimant's level of financial responsibility (deductible) is twice the amount otherwise required. In this case, you will be responsible for the first \$10,000 of eligible corrective action costs before the Fund coverage begins.

Compliance Review: Staff reviews, verifies, and processes claims based on the priority and rank within a priority class. After the Board adopts the Priority List, your claim will remain on the Priority List until your Priority Class and rank are reached. At that time, staff will conduct an extensive Compliance Review at the local regulatory agency or Regional Water Quality Control Board. During this Compliance Review, staff may request additional information needed to verify eligibility. Once the Compliance Review is completed, staff will determine if the claim is valid or must be rejected. If the claim is valid, a Letter of Commitment will be issued obligating funds toward the cleanup. If staff determine that you have not complied with regulations governing site cleanup, you have not supplied necessary information or documentation, or your claim application contains a material error, the claim will be rejected. In such event, you will be issued a Notice of Intended Removal from the Priority List, informed of the basis for the proposed removal of your claim, and provided an opportunity to correct the condition that is the basis for the proposed removal. Your claim will be barred from further participation in the Fund, if the claim application contains a material error resulting from firaud or intentional or negligent misrepresentation.

Record keeping: During your cleanup project you should keep complete and well organized records of all corrective action activity and payment transactions. If you are eventually issued a Letter of Commitment, you will be required to submit: (1) copies of detailed invoices for all corrective action activity performed (including subcontractor invoices), (2) copies of canceled checks used to pay for work shown on the invoices, (3) copies of technical documents (bids, narrative work description, reports), and (4) evidence that the claimant paid for the work performed (not paid by another party). These documents are necessary for reimbursement and failure to submit them could impact the amount of reimbursement made by the Fund. It is not necessary to submit these documents at this time; however, they will definitely be required prior to reimbursement.

<u>Compliance with Corrective Action Requirements:</u> In order to be reimbursed for your eligible costs of cleanup incurred after December 2, 1991, you must have complied with corrective action requirements of Article 11,

California Environmental Protection Agency



Chapter 16, Division 3, Title 23, California Code of Regulations. Article 11 categorized the corrective action process into *phases*. In addition, Article 11 requires the responsible party to submit an *investigative* workplan/Corrective Action Plan (CAP) before performing any work. This phasing process and the workplan/CAP requirements were intended to:

- 1. help the responsible party undertake the necessary corrective action in a cost-effective, efficient and timely manner;
- 2. enable the regulatory agency to review and approve the proposed cost-effective corrective action alternative before any corrective action work was performed; and
- 3. ensure the Fund will only reimburse the most cost-effective corrective action alternative required by the regulatory agency to achieve the minimum cleanup necessary to protect human health, safety and the environment.

In some limited situations interim cleanup will be necessary to mitigate a demonstrated immediate hazard to public health, or the environment. Program regulations allow the responsible party to undertake interim remedial action after: (1) notifying the regulatory agency of the proposed action, and; (2) complying with any requirements that the regulatory agency may set. Interim remedial action should only be proposed when necessary to mitigate an immediate demonstrated hazard. Implementing interim remedial action does not eliminate the requirement for a CAP and an evaluation of the most cost-effective corrective action alternative.

Three bids and Cost Preapproval: Only corrective action costs required by the regulatory agency to protect human health, safety and the environment can be claimed for reimbursement. You must comply with all regulatory agency time schedules and requirements and you must obtain three bids for any required corrective action. Unless waived in writing, you are required to obtain preapproval of costs for all future corrective action work. If you do not obtain three bids or a waiver of the three bid requirement, reimbursement is not assured and costs may be rejected as ineligible.

If you have any questions, please contact me at (916) 341-5714.

Sincerely,

Shari Knieriem

Shari Knieriem Claims Review Unit Underground Storage Tank Cleanup Fund

cc: Ms. Donna Drogos Alameda County EHD 1131 Harbor Bay Pkway, 2nd Fl. Alameda, CA 94502-6577



Environmental

Protection



Division of Clean Water Programs

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Page Sp-V, LL Faye Beverett 155 Filbert St #250 Oakland, CA 94607

UNDERGROUND STORAGE TANK CLEANUP FUND (FUND), REQUEST FOR FURTHER DOCUMENTATION DURING INITIAL REVIEW: CLAIM NUMBER 017160; FOR SITE ADDRESS: 2855 MANDELA PKWY, OAKLAND

On August 7, 2002, the Fund's Settlement Review Unit, reviewed the Agreement and viewed that the assignment to be acceptable as long as the previous UST owner/operator is determined to be eligible. Therefore, the following documents are needed to determine the eligibility of the previous UST owner/operator.

- 1) The previous UST owner/operator must demonstrate that a permit to own or operate the subject UST was obtained between January 1, 1984 thru January 1, 1990. According to the Site History, the subject UST was removed in 1991. Therefore, the previous owner would have obtained a permit to own or operate and a removal permit to remove the subject USTs. Please provide copies of the above mentioned permits. If a copy of the permit to own or operated cannot be located, the previous UST owner may request a Permit Waiver. (See enclosed).
- 2) Clarify these two entities: Cypress Property and Wareham Property Group.
- 3) Please provide the Federal Tax Returns from the previous USTs owner/operator for the last three years and be sure that the enclosed Addendum is completed by the previous UST owner/operator.
- 4) The subject USTs were removed in 1991, please provide a copy of the first directive that the previous USTs owner/operator received by the local regulator, naming them a responsible party and directing cleanup of the subject site.
- 5) Please correct page 5 of the claim application.

NOTE: Failure to respond to this request within thirty (30) calendar days from the date of this letter may result in an ineligibility determination of your claim.

If you have any questions, please contact me at (916) 341-5714.

Sincerely,

Shari Knieriem Claims Review Unit

Underground Storage Tank Cleanup Fund

California Environmental Protection Agency



AUG 1 - 5 2002

cc: Mr. Steve Morse RWQCB, Region 2 1515 Clay Street, Ste. 1400 Oakland, CA 94612 Ms. Donna Drogos Alameda County EHD 1131 Harbor Bay Pkway, 2nd Fl. Alameda, CA 94502-6577

2855 Mandela Parkway, LLC

4225 Glen Avenue, #200 Oakland, CA 94611 510-853-1711 fax: 510-658-4620 fbeverett@pagestreet.com

AAL 6 8 2000

Eropen .

July 2, 2002

Mr. Barney Chan Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, #250 Alameda, CA 94502

RE: 2855 Mandela Parkway, Oakland

Request for Letter to State UST Fund

Change of Owner Address

Dear Barney:

Thank you for your efforts thus far on our behalf regarding 2855 Mandela Parkway. I would like to request your assistance again to write a letter explaining the County's involvement to date.

I am pleased to say we have been accepted into the State's UST Cleanup Fund. We are in the process of preparing our initial reimbursement request. During Larry Seto's term, there appears to be a lack of correspondence from Alameda County specifically directing the remedial investigation immediately after the discovery of the free-phase product. Such correspondence is beneficial to the Tank Fund staff when reviewing the reimbursement request.

Would you please issue a letter addressed to me at the above address stating that the Alameda County Environmental Health Care Services Agency has been involved with this project since inception, has been kept informed of the progress of the remedial investigation and planning efforts, and has reviewed and approved the interim steps taken to date?

Also, please update my address and phone number in your files to those listed above.

Thank you.

Sincerely,

Faye Beverett

Faye Burnet

Owner

ALAMEDA COUNTY HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

June 14, 2002

Page Street Properties c/o Ms. Faye Beverett 155 Filbert St., #250 Oakland CA 94607

Dear Ms. Beverett:

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700

FAX (510) 337-9335

Subject: Fuel Leak Case No. RO0000378, 2855 Mandela Parkway, Oakland CA 94607

Alameda County Environmental Health, Local Oversight Program (LOP), has received and reviewed the following Treadwell and Rollo reports; June 3, 2002 Free-Phase Product Monitoring Plan and June 10, 2002 Addendum to the 1999 Remedial Investigation Report. We also have considered the items discussed during our June 13, 2002 meeting at the County offices. Our office has the technical comments, which follow.

- In the reports and in our meeting, your consultant has explained why the conventional approaches
 of soil vapor extraction and groundwater extraction would not be effective at the site. Our office
 concurs with this decision.
- Our office approves, as interim remediation, the installation of passive product skimming devices within the three wells, TR-4 through TR-6. You may start this immediately. Because of the relative small volume of these wells, they should be emptied frequently until the amount of free product entering the well decreases significantly from the original amount.
- The three perimeter wells, TR-7 through TR-9, should be monitored immediately and quarterly thereafter to verify plume stability.
- It was acknowledged that given the amount of estimated free product and its subsurface location, additional areas of removal should be considered. During our meeting, Treadwell and Rollo proposed to add extraction trenches within the accessible parking lot within the free product plume. Our office agrees with this approach and requests that a work plan be provided with the details of the proposed remediation. Please also include a summary of the alternate remediation approaches considered, ie feasibility study.

You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan

Hazardous Materials Specialist

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C: B. Chan, files

Mr. D. Kleesattel, Treadwell and Rollo, Inc., 501 14th St., Third Floor, Oakland, CA 94612

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State Water Resources Control Board

Division of Clean Water Programs

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Governor

Environmental Protection

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website at www.swrcb.ca.gov.

APR 2 2002

Page Sp-V, LLC Fave Beverett 155 Filbert St #250 Oakland, CA 94607

UNDERGROUND STORAGE TANK CLEANUP FUND (FUND), REQUEST FOR FURTHER DOCUMENTATION DURING INITIAL REVIEW: CLAIM NUMBER 017160; FOR SITE ADDRESS: 2855 MANDELA PKWY, OAKLAND

After reviewing your claim application to the Cleanup Fund, we find that the following additional information is needed to determine your eligibility for placement on the Priority List:

Claimants who acquire sites after January 1, 1990, must complete the enclosed Claimant Certification of Compliance with Fund Regulations Section 2811(a)(1)-(2) and 2810.1(c) form.

- A copy of the permit to own or operate the UST from the local implementing agency dated between January 1, 1984 and January 1, 1990 (pursuant to Chapter 6.7 of the Health and Safety Code).
- Claimant is requesting priority class "B" and must complete the enclosed Priority Class B Addendum.

AND

Claimant must provide employee verification (i.e., Department of Employment Development (DE6) for the last four quarters or a declaration letter signed by an officer of the company).

Provide a copy of the first directive that was issued to claimant by the local regulator. Claimant did provide the Notice of Responsibility; however, the directive will establish what corrective action is requested by the local regulator.

Please provide the purchase documents for the subject site. This includes the following: Escrow Instructions, Appraisal Report, Purchase officer, and Final Purchase Agreement.

In order for the Fund to evaluate whether claimant qualifies for Priority Class B, claimant must provide all applicable tax documents. Claimant must provide three years of taxes at the time of application submittal. Claimant has only provided two years. Please submit the tax documents for the year 2002. Along with the submittal of those tax documents, claimant must provide taxes of their partnerships. In this case, the joint claimants must provide all of their partnership tax documents for the last three years at the time of application submittal. The Priority Addendum should incorporate the total gross receipts of claimant and joint claimant.

NOTE: Failure to respond to this request within thirty (30) calendar days from the date of this letter may result in an ineligibility determination of your claim.

If you have any questions, please contact me at (916) 341-5714.

California Environmental Protection Agency



Sincerely,

ORIGINAL SIGNED BY

Shari Knieriem Claims Review Unit Underground Storage Tank Cleanup Fund

cc: Mr. Steve Morse RWQCB, Region 2 1515 Clay Street, Ste. 1400 Oakland, CA 94612 Ms. Donna Drogos Alameda County EHD 1131 Harbor Bay Pkway, 2nd Fl. Alameda, CA 94502-6577



INTERNATIONAL TRUCK AND ENGINE CORPORATION

4201 WINFIELD ROAD, P.O. BOX 1488, WARRENVILLE, IL 60555

T 630 753 5000

LAW OFFICES

David A. Piech Senior Counsel 630 753 3039

Ariu Levi Contract Project Director Environmental Health Services Environmental Protection 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

December 18, 2001

Re: Nareham Property Development 2855 Mandela Pky, Oakland,

File No. WH199100506 / ltr2.cyprus.wpd

Dear Mr. Levi:

Please update your address and contact information for International Truck as noted below:

David A. Piech Senior Counsel International Truck and Engine Corporation 4201 Winfield Road Warrenville, Illinois 60555 630-753-3039 630-753-2261fax

If you have any questions, please call me at the number above.

Sincerely

David A. Piech

CC:

Ms. Faye Beverett Page Street Properties 155 Filbert Street, #250 Oakland, CA 94607



Environmental and

Geotechnical Consultants

501 14th Street, 3rd Floor Oakland, California 94612 Phone: (510) 874-4500

Fax: (510) 874-4507

437亿

FAX TRANSMITTAL

Date:	Send to fax # 5/0-317-7135
To: Mr. Barney Chan	
From: David Kleesettel	At Ext: 541
Project name: 2855 Mandele Parkway Outhand	Project number:
Number of pages including cover:	
Notes: Barry - I left you a voicemail re	
we had initially thought that an Order	from the County would be
the best procedure to apply to the US	T Fund on behalf of the
on property owner, Faye Bennett. Because	se of some assuer related to
transferring etigobility, we want to ex	place the option of having
a "Notice of Responsibility" issued by the	County. Attached is a copy
of the NOR issued to the previous owner.	
Issued to Fage Beverett will expedite appl	ication to the UST Fund. I
have also attached a copy of the corres	ut property ownership description.
Please review this information and	call me to discuss.
Thank you, Dow Flace	
This document will also be mailed to you	Yes No
Should you encounter any difficulties with this fa	x, please call (510) 874-4500

ALAMEDA COUNTY HEALTH CARE SERVICES



DAVID J. KEARS, Agency Director



Certified Mail # 03/06/2000

Notice of Responsibility

ENVIRONMENTAL HEALTH SERVICES

1131 Harbot Bay Porkway, Spite 250 Alameda, CA 94508-6577 (510) 597-9760 (510) 227-9325 (FAX)

StID#: 3712 WareHam Property Development 2855 Mandela Pkwy Oakland , CA 94607

SITE

Date First Reported 09/03/1991 Substance: Gasoline Funding (Federal or State): F Multiple RPs7: Y

Mr. Robert Boardman Internation Truck 455 N. City Front Plaza D Chicago, Il 60611

Responsible Party (RP) Property Owner

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(les) shown above, or on the attached list, has (bave) been identified as the party(les) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Farty to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure latter. For purposes of implementing section 25297.15, this agency has identified Taken to trace the primary or active Responsible Party to submit a letter to this agency within 20 calendar days of receipt of this notice which identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 227-4349 or telephone (916) 227-4408.

Pursuant to section 25299.37(c)(7) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact Larry Seto, Senior Hazardous Materials Specialis at this office at (510) 567-6700 for further information about the site designation process.

Ariu Levi, Chief

Contract Project Director

Please Circle One add

Reason:

Some property owner

cc: Lori Casias, SWRCB

Larry Seto, Senior Hazardous Materials Specialist

Date: 34-00

Report: Reimb97 5/88

NO. 286

age Escrow No. 9810485 -KIO

EXHIBIT GRANTEE

LEIGHTON R. TAYLOR, JR. AND LINDA P. TAYLOR, AS TRUSTEES OF THE RESTATEMENT OF DECLARATION OF TRUST LEIGHTON R. TAYLOR, JR. AND LINDA P. TAYLOR REVOCABLE TRUST CREATED UDT DATED FEBRUARY 11, 1981, AS TO AN UNDIVIDED 93.4 % INTEREST AND PAGE SP-V, LLC, A CALIFORNIA LIMITED LIABILITY COMPANY AS TO AN UNDIVIDED 6.60 % INTEREST, AS TENANTS IN COMMON

Treadwell&Rollo

Geotechnical Consultants

501 14th Street, 3rd Floor Oakland, California 94612

Phone: (510) 874-4500 Fax: (510) 874-4507

FAX TRANSMITTAL

Date: Send to fax # Send to fax #
To: Mr. Barney Chan
From: David Kleesathel At Ext: 541
Project name: 2855 Mandela Pkwy, Oakland Project number:
Number of pages including cover:
Notes: Barney - The notice of Responsibility" (NOR) should be
Addressed to "Page Street Properties, LEC" % Mr. Fage Bewrett.
The "Grantere" information provided to you can be affected
to the NOR as an exhibit to define the ownership
of the property. There are 3 principals who own the
property: Leighton Taylor, Linda Taylor, and Fage Beverett
as Page Street Properties. Page Street Proporties also
manages the property (as well as being port owner).
If you have any questions, please call.
-Thank you.
Dankloots
This document will also be mailed to you: Yes No
Should you encounter any difficulties with this fax, please call (510) 874-4500

ALAMEDA COUNTY HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Alameda, CA 94502-657 (510) 567-6700 FAX (510) 337-9335

April 4, 2001 StID # 3712

Ms. Faye Beverett Page Street Properties, LLC 155 Filbert St., Suite 250 Oakland, CA 94607

Re: Remedial Investigation Work Plan, 2855 Mandela Parkway Property, Oakland CA 94607

Dear Ms. Beverett:

Our office has received and reviewed the March 29, 2001 Remedial Investigation Work Plan as prepared by Treadwell & Rollo, your consultant. As you will recall, this work plan is the result of our March 15, 2001 meeting at the County offices and its contents were previously discussed in the meeting. I have spoke with Mr. McGuire and Mr. Kleesattel of Treadwell & Rollo to get further clarification of the proposed work.

The work plan is approved with the following comments:

- Ten soil vapor sampling locations are proposed to evaluate the potential of vapor migration into the enclosed building. Shallow soil vapor samples will be collected from a depth of approximately 2-3' bgs (below ground surface). If possible, you should collect an additional sample at a depth of 5-6' bgs from these borings. If saturated soils are encountered, no samples need be collected. The vapor samples should be analyzed for BTEX and TPH as gasoline. Please include boring logs for these sampling locations.
- Two soil borings will be advanced to approximately 20' bgs within the free-product impacted area. These borings will be continuously logged to determine what the vertical distribution of free product within the affected area might be. Should there be an indication of free product existing in the shallow porous soils, a perched well will be installed to remove the free product. If free product is encountered in either of these borings, the boring should not be advanced to the proposed 20' depth for fear of providing a preferential pathway for vertical migration. In the absence of chemical analysis, the field screening measurements using a PID or UV instrument should be used to identify the presence of free product.
- Three wells, TR-7, TR-8 and TR-9 will be installed at the boundaries of the free product plume. They will be used to verify the limits of the plume, show groundwater concentration stability and verify the groundwater gradient.

As mentioned in our meeting, any proposal to eliminate or reduce the amount of free product removal at the site must have the approval of the Water Board.

Ms. Faye Beverett 2855 Mandela Parkway, Oakland 94607 StID # 3712 April 4, 2001 Page 2

You may contact me at (510) 567-6765 if you have any questions or upon scheduling this work.

Sincerely,

Barney M. Chan

Hazardous Materials Specialist

C: B. Chan, files

Mr. M. McGuire, Treadwell & Rollo, 501 14th St., Third Floor, Oakland, CA 94612

Mr. G. Leong, Soma Corporation, 1412 62nd St., Emeryville, CA 94608

Mr. R. Jacobs, Esq., Howard, Rice, Nemerovski, Falk & Rabkin, Three Embarcadero Center, Seventh Floor, San Francisco, CA 94111-4065

Ms. S. Holland, International Truck and Engine Corp., 455 North Cityfront Plaza Drive, Chicago, IL 60611

Wpap2855Mandela



INTERNATIONAL TRUCK AND ENGINE CORPORATION

455 NORTH CITYFRONT PLAZA DRIVE, CHICAGO, IL 60611

T 312 836 2000

F 312 836 3982

TECTION 99 PM 2: 41

LAW OFFICES

D 312 836 3415

September 25, 2000

Larry Seto Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA, 94502-6577

Dear Mr. Seto,

I am writing in response to your letter dated August 29, 2000 (see attached). International should not be considered a responsible party for clean up at the 2855 Cypress Street property (the site) for the following reasons:

- 1) International sold the site to Cypress General Partnership (CGP) in 1982, and, since that time nearly 20 years ago, has had no knowledge about how the property and the site's underground storage tanks (USTs) were used. International knows that CGP removed the USTs sometime in 1991. Any contamination found on the site is more likely to have originated from activities that occurred after International no longer owned the property. Contamination due to leaking USTs or supply lines, the UST removal operations, or other property uses between 1982 and the present cannot fairly be attributed to International.
- 2) International has a full indemnity and defense agreement with CGP for any claims arising out of the existence of the USTs, including any remediation. It would be more expedient for Alameda County to contact CGP directly regarding this matter, since International will tender all remediation claims to CGP.

If you have any questions, please contact me at 312-836-3415.

Sincerely yours,

William Clune

Enclosure

cc: Jeffrey Allen, w/ enclosure

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

SEP 1 9 2000

LAW OFFICES

DAVID J. KEARS, Agency Director

August 29, 2000

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway. Suite 250
Alameda. CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Ms. Sherry Holland Senior Counsel International Truck and Engine Corporation 455 North Cityfront Plaza Drive Chicago, IL 60611 STID 3712

RE: 2855 Mandela Parkway, Oakland, CA 94607

Dear Ms. Holland:

A letter dated July 6, 2000 from this office was sent to you informing you that our records indicates that International Harvester was the only user of the underground storage tanks removed from the site in 1991. I also indicated in the letter that International Harvester would be viewed as a responsible party for site clean up unless new information is provided to this office. As of this date, I have not received a response to my letter. Please inform this office within ten (10) days of the receipt of this letter whether you agree the information in the site file for the above address is correct.

If you have any questions, please contact me at (510) 567-6774.

Sincerely,

Larry Seto

Sr. Hazardous Materials Specialist

Cc: Richard Jacobs, Howard Rice, Nemerovski, Falk & Rabkin, Three Embarcadero Center, 7th Floor, San Francisco, CA 94111

Mike O'Connor, Esq. Alameda County District Attorney's Office, Consumer and Environmental Protection, 7677 Oakport, Suite 400, Oakland, CA 94612

Faye Beverett, Page Street Properties, LLC 155 Filbert Street #250, Oakland, CA 94607

Leroy Griffin, City of Oakland Fire Services, 1605 Martin Luther King, Oakland, CA 94612

Files

ALAMEDA COUNTY HEALTH CARE SERVICES

AGENCY





ENVIRONMENTAL HEALTH SERVICES

ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

July 6, 2000

Ms. Sherry Holland Senior Counsel International Truck and Engine Corporation 455 North Cityfront Plaza Drive Chicago, IL 60611 STID 3712

RE: 2855 Mandela Parkway, Oakland, CA 94607

Dear Ms. Holland:

I have received a copy of your May 9, 2000 letter to Richard Jacobs regarding the subject property. In that letter you stated that International is unwilling to participate in further remediation at the site.

In your letter dated May 9, 2000 you stated International Harvester, a predecessor to International Truck and Engine Corporation, owned the property from 1975 to 1982. In fact, the chain of title indicates International Harvester Company purchased the property in 1939. The building plans, done for International Harvester are dated 1941.

This Agency is charged with identifying Responsible Parties and remediating subsurface contamination. The available information indicates that International Harvester was the only user of the tanks removed from the site in 1991. Therefore, this Agency and the State of California will look to International Harvester as a Responsible Party, unless International Harvester can provide new information. The fact that you may have a private agreement with Cypress Properties does not alter or lessen your responsibility as a Responsible Party as defined in the Underground Storage Tank (UST) regulations of the State of California.

I have consulted with Mike O'Connor, Deputy District Attorney in the Consumer and Environmental Protection Division of the Alameda County District Attorney's Office regarding this matter. Mr. O'Connor agrees that the current facts indicate that International Harvester is a responsible party and any private agreement it has does not affect its obligation to this Agency or the State of California. In addition, he concurs with this office that the volume of free product is significant and warrants immediate attention.

Ms. Sherry L. Holland International Truck and Engine Corporation 455 North Cityfront Plaza Drive Chicago, IL 60611 July 6, 2000 Page 2 of 3

Please be advised that the State of California has a Petroleum Underground Storage Tank Cleanup Fund (the "Fund). The Fund covers reimbursement claims for corrective action cost paid or incurred for cleanup work, including preliminary site assessment, soil and water investigation, corrective action implementation and verification monitoring after cleanup is completed. The maximum reimbursement per occurrence ranges from \$500,000 to \$1 million, depending upon the site usage, and the deductible ranges from \$0 to \$10,000 depending upon financial need.

In order to seek reimbursement from the Fund, the claimant must be or have been the owner or operator of the UST, which is subject to the claim, and must have been in compliance with applicable permit requirements to own or operate an UST. Since the UST was removed from the site in 1991, the current property owner, 2855 Mandela Property who purchased the site in 1998, does not qualify as a claimant since it neither owned nor operated the UST. However, International Harvester may qualify for reimbursement from the Fund for its expenses of cleanup.

For your information, I have enclosed a manual regarding the Fund.

Please contact me at your earliest convenience to discuss your anticipated role in the investigation and remediation of the site.

If you have any questions, please contact me at (510) 567-6774.

Sincere

Karry Seto

Sr. Hazardous Materials Specialist

Ms. Sherry L. Holland International Truck and Engine Corporation 455 North Cityfront Plaza Drive Chicageo, IL 60611 July 6, 2000 Page 3 of 3

Enclosure(s) (1) A Guide to California's Petroleum Underground Storage Tank Cleanup Fund

Cc: Richard Jacobs, Howard Rice, Nemerovski, Falk & Rabkin, Three Embarcadero Center, 7th Floor, San Francisco, CA 94111

Mike O'Connor, Esq. Alameda County District Attorney's Office, Consumer and Environmental Protection, 7677 Oakport, Suite 400, Oakland, CA 94612

Faye Beverett, Page Street Properties, LLC 155 Filbert Street #250, Oakland, CA 94607

Leroy Griffin, City of Oakland Fire Services, 1605 Martin Luther King, Oakland, CA 94612

Files

PROTECTION

2855 Mandela Property

June 19, 2000

OU JUN 2 | PM 3: 2 155 Filbert Street, #250 Oakland, CA 94607 Ph: (510) 302-0130 FAX: (510) 302-0135 fbeverett@pagestreet.com

Mr. Larry Seto
Environmental Health Services
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite #250
Alameda, CA 94502

RE: Probable Tank Usage at 2855 Mandela Parkway

Dear Larry:

This letter documents our discussion regarding the probable user of the tanks that were removed from Mandela Parkway in 1991.

The current owner of 2855 Mandela Parkway, 2855 Mandela Property, believes that International Harvester was most likely the only user of the tanks that were removed in 1991 due to the information in two Harding Lawson reports. This information appears to indicate that the owner after International Harvester, Cypress Property, had no tenants who used the tanks and had no records regarding the tank.

From the September 25, 1990 Harding Lawson Phase I Preliminary Hazardous Materials Site Assessment:

• Page 7: "Space 9, approximately 9,200 square feet, is vacant. An underground storage tank (UST) was observed inside near the entrance. Ms. Makaruk [an employee of Wareham Property Group, a property management company owned by Rich Robbins who is a part owner of Cypress Property] believed the tank contained gasoline. She stated that the tank had not been used since Wareham purchased the property in 1983."

From the August 13, 1991 Harding Lawson Underground Storage Tank Removal Report:

• Page 1 "During the course of the [Preliminary Hazardous Material Site Assessment "PSA"] investigation, a vent line was observed indicating that a UST may be present at the site. No records regarding the history, age and integrity testing of the UST are currently available."

Attached please find copies of the above cited pages.

The above information was confirmed to me verbally by Rich Robbins and Dan Norse of Cypress Property during the due diligence phase of 2855 Mandela Property's acquisition of the site in 1998.

Please contact me if you need more information.

Thank you.

Faye Beverett

Owner

cc: Richard Jacobs

Have Burnet

Page Street Properties, LLC

00 Jun 13 Mills 0.6 155 Filbert Street, #250 Oakland, CA 94607 Ph: (510) 302-0130 FAX: (510) 302-0135

6.12.00

Faye Beverett, Principal e-mail: fbeverett@pagestreet.com

harry attached are

- i) copy of Plan for 2855 mandela done for 1H dated 4-17-41
- 2) Guide to California's UST Champ fund Ital OCT 1997 repunted 8/98. Then may be a more recent version.

Faye

Harding Lawson Associates

1/25/90 Plase I

oil per month to operate machinery. A supplier picks up empty cylinders and drums and recycles them. The three cylinders of liquified petroleum were stored properly and there was no evidence of leakage. A 50-gallon drum of motor oil was lying on its side atop two unstable wooden pallets and was leaking onto the floor (Photo 1). The drum is stored in violation of fire marshall codes. There was no evidence of the heavy staining which was observed in the 1989 aerial photograph.

Space 9, approximately 9,200 square feet, is vacant. An underground storage tank (UST) was observed inside near the entrance. Ms. Makaruk believed the tank contained gasoline. She stated that the tank had not been used since Wareham purchased the property in 1983. The tank is not registered and has not been inspected by any local regulatory agency or fire department. Building records did not reveal any information about the underground tank.

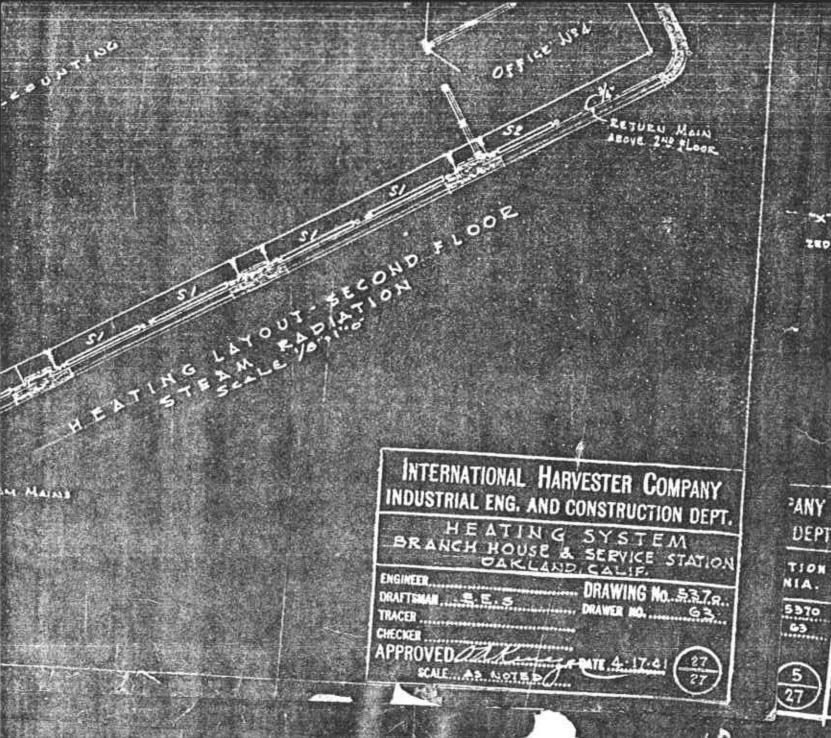
Joinery Structures, a woodworking company, currently occupies Space 10, approximately 5,400 square feet. Several household- and industrial-type paints, thinners, oils, and wood stains were observed on a shelf in the rear of the shop. The containers were in poor condition and the materials have been allowed to leak and contact other containers. Some of the containers were not labeled or could not be identified (Photograph 2).

In addition to the suspected asbestos-containing material in Space 1, there are several cast iron fire doors in the building which may also contain asbestos in the cores of the doors. No other hazardous materials or wastes were observed in vacant Spaces 1A, 2, 3, 6, 7, 11, and 12.

PAGE STREET PROPERTIES, LLC
155 Filbert Street, #250
Oakland, CA 94607
phone: (510) 302-0130
fax: (510) 302-0135
fbeverett@pagestreet.com

FAX TRANSMISSION

DATE: TO:	6/19/00 TIME: 4:35 pm Larry Seto \$10.6337.9335					
	Rich Jacobs	415.	217·5°	710	-	
FROM:	D OF BACES INCLIMING CO	OVER: 4	2			
ORIGIN MESSA	ALS WILL FOLLOW: No	YesK_ Fe	ed. Exp.	to (am	- H	
	1H litter					



PANY DEPT. TION NIA. 5370 63



INTERNATIONAL TRUCK AND ENGINE CORPORATION

455 NORTH CITYFRONT PLAZA DRIVE, CHICAGO, IL 60611

T 312 836 2000

F 312 836 3982

LAW OFFICES

Sherry L. Holland 312 836-3182 Sherry.Holland@Navistar.com

May 10, 2000

Mr. Jeffrey Allen, Esquire Graves, Allen, Cornelius and Celestre 2101 Webster Street - Suite 1600 Oakland, California 94612

Re: Your client Richard Robbins a/k/a Cypress General Partnership

2855 Cypress Street, Oakland California Cleanup

Dear Mr. Allen:

In 1992, you corresponded with Navistar International Transportation Corporation (formerly International Harvester, "IH"), now known as International Truck and Engine Corporation ("International"), on behalf of your client, Mr. Richard Robbins. The corpus of the correspondence was the abovementioned piece of property at Cypress Street which International Harvester sold to Cypress General Partnership in 1982. At the time in 1992, your client was embarking on a tank removal and cleanup of the soils in the area of the UST's.

In 1992, your client made a demand of Navistar to pay for the cleanup. Navistar contributed to the cleanup without admitting liability for the issue. In return, your client gave Navistar a complete release and indemnity against future issues arising out of or pertaining to the UST removal and subsequent cleanup.

The Alameda County Health Service and the current owner of the property, Wareham Properties, have made a demand on International to participate in another cleanup pertaining to the same UST's and the same remedial issues which were the subject of the release and indemnity of your client to International in 1992.

International hereby tenders the demand for contribution to remedial actions resulting from contamination to media from the UST leakage on 2855 Cypress Street, renamed 2855 Mandela Parkway, to your client, Richard Robbins, dba Cypress General Partnership, and exerts its right for indemnity under the same document. I attach the subject release and indemnity for your information.

Sincerely,

Sherry L. Holland Senior Counsel

cc: D. Piech

Mr. Richard Jacobs, Esq.

Howard, Rice, Nemerovski, Falk & Rabkin

3 Embarcadero Center, 7th Floor San Francisco, CA 94111-4065 INTERNATIONAL TRUCK AND ENGINE CORPORATION

455 NORTH CITYFRONT PLAZA DRIVE, CHICAGO, IL 60611

312 836 2000

F 312 836 3982

LAW OFFICES

Sherry L. Holland 312 836-3182 Sherry.Holland@Navistar.com

May 9, 2000

Richard C. Jacobs, Esq. Howard, Rice, Nemerovski, Falk & Rabkin Three Embarcadero Center Seventh Floor San Francisco, CA 94111-4065

Re: 2855 Mandela Parkway (f/k/a Cypress Street)

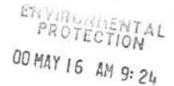
Oakland, CA 94607

Dear Mr. Jacobs:

I am writing to you in response to my letter to you of April 19, 2000. I indicated in that letter that I would research the archives which International Truck and Engine Corporation, "International", formerly known as International Harvester, "IH", has on the sale of the property which is in question here, formerly known as 2855 Cypress Street.

My research has brought to light the fact that International Harvester owned the property from 1975 to 1982, at which time it was a branch of the company until it was sold in 1982 to Cypress Property, a Limited Partnership, whose General Partner was Richard K. Robbins. IH leased back about 10,000 square feet of warehouse space to store parts until 1987. During that time, some of the property was subleased by IH to Edgewater International Trucking. Similarly, Cypress had multiple industrial tenants in the building after 1982.

In 1991, nine years after IH sold the property to Cypress Properties, which changed its name to Wareham Properties, Wareham sought to refinance the property. They had a Preliminary Site Investigation done by Harding Lawson Associates that showed the presence of two UST's. Wareham sought out IH and demanded payment in full of the charges which they incurred in the removal of the tanks, soil removal and investigation costs. IH, although disagreeing that they retained ownership of the UST's after nine years and a sale document in which



Cypress took the property "as is," participated in the removal by paying one half of the costs.

In return for IH's monetary participation in the removal costs, Cypress executed a release on behalf of IH which releases and discharges IH from any liability regarding anything pertaining to the UST's. I enclose that release for your reference.

In addition, HLA's Preliminary Site Investigation shows TPH and GOC contamination from other surrounding industrial sites up gradient to the Cypress Street property. Other tenants of that property were in the businesses which used petroleum products. It is unclear from the period of 1982 until 1991 when a site investigation was mandated by Cypress's lenders, just what kind of use or management Cypress made of the tanks. In 1985 and 1986, federal and state environmental regulations called for the removal of all UST's not in compliance with the new regulations. Cypress made no attempt to manage those UST's under the law.

In view of the release given to International by Cypress Properties, International is unwilling to participate in further remediation at the Cypress Street site which has known multiple industrial tenants and owners for over eighteen years since IH sold the property.

Sincerely,

Sherry L. Holland Senior Counsel

Skerry I. Holland_

cc: David Piech

Larry Seto and Ariu Levi Alameda County Health Care Services Environmental Health Services 1131 Harbor Bay Parkway - Suite 250 Alameda, CA 94502-6577



INTERNATIONAL TRUCK AND ENGINE CORPORATION

455 NORTH CITYFRONT PLAZA DRIVE, CHICAGO, IL 60611

312 838 2000

F 312 836 3982

LAW OFFICES

Sherry L. Holland 312 836-3182 Sherry.Holland@Navistar.com

May 9, 2000

Richard C. Jacobs, Esq.
Howard, Rice, Nemerovski,
Falk & Rabkin
Three Embarcadero Center
Seventh Floor
San Francisco, CA 94111-4065

Re: 2855 Mandela Parkway (f/k/a Cypress Street)

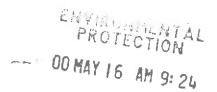
Oakland, CA 94607

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I am writing to you in response to my letter to you of April 19, 2000. I indicated in that letter that I would research the archives which International Truck and Engine Corporation, "International", formerly known as International Harvester, "IH", has on the sale of the property which is in question here, formerly known as 2855 Cypress Street.

My research has brought to light the fact that International Harvester owned the property from 1975 to 1982, at which time it was a branch of the company until it was sold in 1982 to Cypress Property, a Limited Partnership, whose General Partner was Richard K. Robbins. IH leased back about 10,000 square feet of warehouse space to store parts until 1987. During that time, some of the property was subleased by IH to Edgewater International Trucking. Similarly, Cypress had multiple industrial tenants in the building after 1982.

In 1991, nine years after IH sold the property to Cypress Properties, which changed its name to Wareham Properties, Wareham sought to refinance the property. They had a Preliminary Site Investigation done by Harding Lawson Associates that showed the presence of two UST's. Wareham sought out IH and demanded payment in full of the charges which they incurred in the removal of the tanks, soil removal and investigation costs. IH, although disagreeing that they retained ownership of the UST's after nine years and a sale document in which



Cypress took the property "as is," participated in the removal by paying one half of the costs.

In return for IH's monetary participation in the removal costs, Cypress executed a release on behalf of IH which releases and discharges IH from any liability regarding anything pertaining to the UST's. I enclose that release for your reference.

In addition, HLA's Preliminary Site Investigation shows TPH and GOC contamination from other surrounding industrial sites up gradient to the Cypress Street property. Other tenants of that property were in the businesses which used petroleum products. It is unclear from the period of 1982 until 1991 when a site investigation was mandated by Cypress's lenders, just what kind of use or management Cypress made of the tanks. In 1985 and 1986, federal and state environmental regulations called for the removal of all UST's not in compliance with the new regulations. Cypress made no attempt to manage those UST's under the law.

In view of the release given to International by Cypress Properties, International is unwilling to participate in further remediation at the Cypress Street site which has known multiple industrial tenants and owners for over eighteen years since IH sold the property.

Sincerely,

Sherry L. Holland Senior Counsel

Skerry I. Holland_

cc: David Piech
Larry Seto and Ariu Levi
Alameda County Health Care Services
Environmental Health Services
1131 Harbor Bay Parkway - Suite 250
Alameda, CA 94502-6577



ASS NORTH CITYFRONT PLAZA DRIVE, CHICAGO, IL 80611

00 MAY - 1 PM 4: 44

T 312 836 2000

F 312 836 3982

LAW OFFICES

Sherry L. Holland (312) 836-3182 Sherry.Holland@Navistar.com

April 20, 2000

Ariu Levi, Chief Contract Project Director Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Re: 2855 Cypress St., Oakland, CA 94607 Notice of Responsibility

Dear Mr. Ariu:

International Truck and Engine Corporation (formerly Navistar International Transportation Corporation and International Harvester), "International", is in receipt this date of your letter dated March 8, 2000. In that letter you have notified International that your agency has identified International as a responsible Party at the site referred to as 2855 Cypress Street Oakland, CA.

Per another letter dated March 7, 2000 received this date by International from Larry Seto, Sr. Hazardous Materials Specialist of your office, alleged gasoline contamination is reported to be found on the site. This contamination is alleged to be attributed to International's purported ownership of the property some time between 1941 and 1991.

Some confusion is generated by Mr. Seto's letter in that he refers to the site as 2855 Mandela Parkway. International has never owned any property at such a location. However, International did own property at 2855 Cypress Street, Oakland, CA at one time.

Please be advised that International is researching the facts concerning the site and will be providing a more formal response to the notifications by your office when all the facts have been gathered. I called Mr. Seto on April 6, but got a voice mail recording that he will be out until April 11. The forwarding number which he gives in his message was no longer in service. I will be contacting Mr. Seto upon his return on April 11th to ascertain what records, if any that he might share with International concerning the site.

By indicating receipt of the notice of responsibility, International does not admit nor deny any of the contained allegations and reserves any and all defenses available to International upon full investigation of the facts at issue.

Sincerely,

Sherry L. Holland Senior Counsel

SLH/dah

cc: David Piech

ALAMEDA COUNTY HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

March 23, 2000

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Ms. Faye Beverett 155 Filbert Street Suite 250 Oakland, CA 94607 STID 3712

RE: 2855 Mandela Parkway, Oakland, CA 94607

Dear Ms. Beverett:

As you requested, enclosed is a copy of the certified letter that was sent to International Truck last week. The previous letter was not mailed certified. At this time, this office has not received the signed receipt.

If you have any questions, please contact me at (510) 567-6774.

302-0130

Sincerely

St. Hazardow

Sr. Hazardous Materials Specialist

Cc: Files

ALAMEDA COUNTY

HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

March 7, 2000

ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 (510) 337-9335 (FAX)

International Truck (formerly International Harvester)
Mr. Robert Boardman
Senior VP & General Counsel
455 N. City Front Plaza Drive
Chicago, IL 60611
STID 3712

RE: 2855 Mandela Parkway, Oakland, CA 94607

Dear Mr. (Alido:) 2

Subsurface investigations conducted at the above site by the current property owner have detected a substantial subsurface release of gasoline, resulting in the presence of free product under the site and associated concentrations in soil and groundwater.

The only conclusively identified potential source are underground storage tanks (USTs) that were removed from the site in 1991 by a former property owner. At the time of their removal, they were reported to still contain product and to be severely deteriorated with numerous holes.

Research of the site ownership history identified International Harvester Company (IH) as the property owner from approximately 1941 to 1982. Records indicate that IH operated the property as a truck repair and sales facility until at least 1970 (the last date of Sanborn Map coverage for the property) and possibly as late as 1983. An IH building design drawing identifies a pump and pump island, an indication that one or more underground storage tanks were in the ground during the time IH occupied the site. Information by subsequent property owners indicates that no other operations at the site used underground tanks.

To summarize the investigation, two USTs a waste oil tank and a 350-gallon gasoline tank were discovered and removed in 1991. The UST excavations were backfilled. In 1998, a Phase II subsurface investigation was the first to include groundwater grab samples, and the first to encounter free product. Subsequent investigations concluded the free product occupies approximately 15,000 square feet extending under the building and adjacent outdoor areas as far as about the middle of Willow Street. The free product is gasoline containing organic lead without MTBE. The abandoned gasoline UST located across Willow Street does not appear to be the source of the on-site free product.

International Truck
Mr. Robert Boardman
455 N. City Front Plaza Drive
Chicago, IL 60611
March 2, 2000
Page 2 of 3

State Water Resources Control Board, California Environmental Protection Agency regulations define "Responsible Party" for purpose of underground storage tank corrective action requirements as one of the following:

- (1) Any person who owns or operates an underground storage tank used for the storage of any hazardous substance;
- (2) In the case of any underground storage tank no longer in use, any person who owned or operated the underground storage tank immediately before the discontinuation of is use;
- (3) Any owner of property where an unauthorized release of a hazardous substance from an underground storage tank has occurred; and
- (4) Any person who had or has control over an underground storage tank at the time of or following an unauthorized release of a hazardous substance.

In addition, under federal law (42 USC Section 6991(3)(B), the person who owned a tank which was not used after November 8, 1984 immediately before the discontinuance of its use may be named a responsible party, even though substantial evidence does not exist to show that the leak occurred before discontinuance of use.

Based on the information currently available to this office, International Harvester Co. is the last operator, and most likely the only operator of the 350-gallon gasoline UST.

International Harvester Co. and 2855 Mandela Property are considered jointly and severally responsible for site cleanup. The enclosed Notice of Responsibility identifies your role as a responsible party. 2855 Mandela Property is a responsible party only because they are the current property owner.

International Truck
Mr. Robert Boardman
455 N. City Front Plaza Drive
Chicago, IL 60611
March 2, 2000
Page 3 of 3

If you have any questions, please contact me at (510) 567-6774.

Sincerely,

Larry Seto

Sr. Hazardous Materials Specialist

Cc: Mr. Ferdinand Alido, International Truck, 455 N. City Front Plaza Drive, Chicago, IL 60611

Faye Beverett, 2855 Mandela Property c/o Page Street Properties, Three Embarcadero, San Francisco, CA 94111

Michael McGuire, Treadwell & Rollo, 2 Theatre Square, Suite 216, Orinda, CA 94563

Glenn Leong, Soma Corporation, 1412 62nd Street, Emeryville, CA 94608-2036 Leroy Griffin, City of Oakland-Fire, 505 14th Street, Oakland, CA 94612 Files

Law Offices Of

HOWARD RICE NEMEROVSKI CANADY FALK & R ABKIN

A Professional Corporation

THREE EMBARCADERO CENTER, 7th FLR SAN FRANCISCO, CALIFORNIA 94111-065 TELEPHONE 415/434-1600 FACSIMILE 415/217-5910 www.howardrice.com DENIS T. RICE
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RICHARD W CANADY
IFROME B FALK, JR.
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RAYMOND P HAAS
ROBERT E GOODING, JR.*
MARTIN R GLICK
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STEVEN L. MAYER
JAMES L. LOPES
DIRK M. SCHENKRAN
THOMAS A. LAWSEY
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ANDRÉ W BREWNTER
FILMORE E. ROSE"
MARTHA K. GOODING'
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THATHAY S. MCCANN
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JOSEPH A. GEECO*
JANET A. NEXON
BERNARD A. BLIR
LAURENCE F. PLICAM
ETHAN P. SCHILMAN
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PAUL R. ROGERS
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PAMELA K. FULMER
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ANNE-MARIE FILERAAS
STEVEN N. SHERR
SIMON J. FRANKEL
EVE H. CERVANTEZ
STACT J. MAY
DENISE M. BILEY
GARY R. BRUHNS
M. LINDA WAISSAR
CURT HOLBREICH
SCOTT B. GARNER
AMY E. MARGOLIN
LEE M. GORDOON*
FREDERIC J. ADAM
PATRICIA J. MEDINA
DALE A. CRENEK
JOANNE BAL
SUE A. KRENEK
CARLO C. MORMORUNNI
KATHRYN A. VACLAVIK
SCOTT D. MINDEN*
SCOTT N. TACHIKI
MARK A. SHEPT
DUANE R. VALZ
JEFFREY E. FALUETTE
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JAVASHRI SRIKANTIAH
ROLA J. WAMNI
JESSICA T. MARTIN
CELIA P. VAN GORDER
CHRISTOPHER I. FAVE**

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KATHARINE S. TIMBERS
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ALISON B. SHAMES
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BERT'T MEDONNELL
EDWARD B. MILLIEN III
MARK C. HABER
RAYMOND A. JUST#
LISA A. TURBIS
RUSSELL B. HILL*
DAVID R. LAWSON*
KEYN H. LEWIS
ROBERT D. ROWLETT*
KUMBERLY A. PROCTOR
TYLER J. FULLER

Of Counsel HENRY W. HOWARD THOMAS G. SCARVIE

BY FEDERAL EXPRESS

Robert Boardman, Esq.
Senior Vice President and General Counsel
International Truck
455 N. City Front Plaza Drive
Chicago, Illinois 60611

MAD O 1 SCOO

LAW DEPT

Re:

2855 Mandela Parkway, Oakland, CA 94607

Dear Mr. Boardman:

We represent the current owner of the property referenced above.

By a notice dated March 6 and a letter dated March 7, 2000, the Alameda County Health Care Services Agency notified International Truck, as successor to International Harvester Company, that it was responsible for cleanup of the contamination identified at the property. Copies of that notice and letter are enclosed. This determination was based on work performed and reports prepared by the environmental consultant for our client.

We of course are interested in having International Truck move expeditiously to confirm the contamination and International Truck's responsibility, so that it can begin appropriate cleanup and our client can move forward with plans for use of the property that have been significantly delayed by discovery of the contamination. We do not want development of the property delayed any more than it has already been. To that end, we would be pleased to meet with representatives of International Truck and its consultants to provide the information that we have developed.

Robert Boardman, Esq. International Truck March 29, 2000

RE: 2855 Mandela Parkway, Oakland, CA 94607

Please feel free to contact me at the above telephone number, or to contact Michael McGuire of Treadwell & Rollo, our consultant, at 510-874-4500, ext. 527, to arrange such a meeting.

Yours very truly,

RICHARD C. JACOBS

cc: Ferdinand Alido, International Truck

> 2855 Mandela Property Michael McGuire

WD 032900/1-1315001/826147/v1

Seto, Lawrence, Public Health, EH

From:

Michael McGuire[SMTP:mpmcguire@treadwellrollo.com]

Sent:

Tuesday, February 15, 2000 7:07 PM

To:

Larry Seto

Subject:

Fw: 2855 Mandela

Larry: here are the addresses for International Harvester (now called Navistar) Environmental Dept. and Legal Dept. I'll also fax this to you.

Michael P. McGuire, P.E. Treadwell & Rollo, Inc. 2 Theatre Square, Suite 216 Orinda, CA 94563 phone 925.253.2683

email: mpmcguire@treadwellrollo.com

----Original Message----

From: Michael McGuire < mpmcguire@treadwellrollo.com>

To: Larry Seto < lseto@co.alameda.ca.us> Cc: Faye Beverett < fbeverett@pagestreet.com> Date: Thursday, February 10, 2000 5:06 PM

Subject: 2855 Mandela

Larry: as you requested, here is the address for International Harvester. !H is now known as Navistar International.

Navistar International **Environmental Affairs** Mr. Ferdinand Alido 455 N. Cityfront Plaza Drive Chicago, IL 60611 Main tel no. 312-836-2000 toll-free 800-448-7825 Main fax no. 312-836-3982

Robert Boardman Senior VP & General Counsel Admin. Assistant: 312-836-2252

Michael P. McGuire, P.E. Treadwell & Rollo, Inc. 2 Theatre Square, Suite 216 Orinda, CA 94563 phone 925.253.2683 email: mpmcquire@treadwellrollo.com PAGE STREET PROPERTIES, LLC
Three Embarcadero Center, #1150
San Francisco, CA 94111
phone: (415) 398-2266
fax: (415) 398-2272
fbeverett@pagestreet.com

FAX TRANSMISSION

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Re 378

Faye Beverett

Michael McGuire [mpmcguire@treadwellrollo.com] From:

Thursday, February 10, 2000 5:07 PM Sent

To: Larry Seto

Cc: **Faye Beverett**

Subject: 2855 Mandela

Larry: as you requested, here is the address for International Harvester. IH is now known as International.

Intraction Tout

Navistar International **Environmental Affairs** Mr. Ferdinand Alido 455 N. Cityfront Plaza Drive Chicago, IL 60611 Main tel no. 312-836-2000 toll-free 800-448-7825 Main fax no. 312-836-3982

Michael P. McGuire, P.E. Treadwell & Rollo, Inc. 2 Theatre Square, Suite 216 Orinda, CA 94563 phone 925.253.2683 email: mpmcguire@treadwellrollo.com

Seto, Lawrence, Public Health, EH

From:

Carrie Austin[SMTP:cmaustin@treadwellrollo.com]

Sent:

Thursday, January 27, 2000 12:52 PM

To: Cc: Iseto@co.alameda.ca.us Michael McGuire; Dawn York

Subject:

Errata: Title of Figure 8, 2855 Mandela Parkway

Dear Larry,

Treadwell & Rollo regrets to inform you of a correction to the January 2000 report, 1999 Site Investigation and Remediation Activities. Namely, the title of Figure 8 should read "Groundwater Elevation Contour Map, 12 May 1999", not 4 October.

Please note this on your copies of the report (it is probably most convenient to just write in this small correction, since the report is comb bound). If, however, you would like a replacement figure, we can provide it.

We apologize for any confusion this may have caused.

ALAMEDA COUNTY HEALTH CARE SERVICES





DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway Alameda, CA 94502-6577 (510) 567-6700 (510) 337-9432

November 12, 1999

Ms. Faye Beverett, Property Owner Page Street Properties, LLC Three Embarcadero Center, Suite 1150. San Francisco, CA 94111 STID 3712

RE: 2855 Mandela Parkway, Oakland, CA 94607

Dear Ms. Beverett:

I have reviewed your Workplan for Floating Product Plume Delineation dated November 10, 1999 that was prepared by Treadwell/Rollo. It is acceptable.

If you have any questions, please contact me at (510) 567-6774.

Larry Seto

Sinceref

Sr. Hazardous Materials Specialist

Cc: Carrie Austin, Treadwell & Rollo, 2 Theatre Square, Suite 216, Orinda, CA 94563

Michael McGuire, Treadwell & Rollo, 2 Theatre Square, Suite 216, Orinda, CA 94563

Glenn Leong, Soma Corporation, 1260B 45th Street, Emeryville, CA 94608 Leroy Griffin, City of Oakland-Fire, 505 14th Street, Oakland, CA 94612 Files

ALAMEDA COUNTY

HEALTH CARE SERVICES

AGENCY





ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 (510) 337-9335 (FAX)

July 12, 1999

Ms. Carrie Austin Treadwell & Rollo 2 Theatre Square, Suite 216 Orinda, CA 94563

RE:

2855 Mandela Parkway, Oakland, CA 94607

Dear Ms. Austin:

As per our telephone conversation today, the free product extracted from the groundwater may not be classified as a hazardous waste if all of the following conditions are met:

- 1) A laboratory report from a certified laboratory identifies the compounds in the floating product
- A copy of this laboratory report in #1 above is given to the disposal/energy facility for review. The disposal/energy facility must put in writing that they have reviewed the analytical report, and can use the floating product extracted from the ground as an energy source.
- 3) Verification that the disposal facility is licensed to perform their activities at their site

If you have any questions, please contact me at (510)567-6774.

Sincerely

Larry Seto

Sr. Hazardous Materials Specialist

Michael McGuire, Treadwell & Rollo, 2 Theatre Square, Suite 216, Orinda, CA Faye Beverett, Page Street Properties, Three Embarcadero Center, Suite 1150, San Francisco, CA 94111
 Hernan Gomez, City of Oakland Haz Mat., 505-14th Street, Oakland, CA 94612

Files

PAGE STREET PROPERTIES, LLC Three Embarcadero Center, #1150 San Francisco, CA 94111

FAX TRANSMISSION

DATE: _	7/8/99 TIME: _	10:30am
TO: _	tariene Coleman-	<u>#U</u>
FROM:	Mariko Gutierrez phone: (415) 398-2271 fax: (415) 398-2279 e-mail: Dagestra@astrona	JUL 0 8 1999 By
NUMBI ORIGII MESSA	ER OF PAGES INCLUDING COVER: NALS WILL FOLLOW: No Yes_ GE:	Fed. Exp U.S. Mail

2855 Mandela Property

Three Embarcadero Center, Suite 1150 San Francisco, CA 94111 Ph: (415) 398-2266 FAX: (415) 398-2272 fbeverett@pagestreet.com

July 8, 1999

Ms. Earlene Coleman-Ali Alameda County Health Agency 1131 Harbor Bay Parkway Alameda, CA 94502

Re: 2855 Mandela Parkway, Oakland

Dear Earlene:

We are presently working on a remediation plan for clean up at the above referenced property. Through Larry Seto of your office, we have recently learned the County holds a file for this property. I would like to request to review the file. Please let me know if this is possible. I can be reach at (415) 398-2271. Thank you for your assistance.

Regards,

Mariko Gutierrez Project Manager DEGEIVED JUL 08 1999 By_____

ALAMEDA COUNTY

HEALTH CARE SERVICES







ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 (510) 337-9335 (FAX)

June 15, 1999

Ms. Faye Beverett, Property Owner Page Street Properties, LLC Three Embarcadero Center, Suite 1150 San Francisco, CA 94111

RE: 2855 Mandela Parkway, Oakland, CA 94607

Dear Ms. Beverett:

I have reviewed your Workplan for Phase I Remediation and Additional Subsurface Investigation dated June 15, 1999 that was prepared by Treadwell & Rollo. It is acceptable.

If you have any questions, please contact me at (510) 567-6774.

Sincerely,

Larry Seto

Sr. Hazardous Materials Specialist

Cc: Michael McGuire, Treadwell & Rollo, 2 Theatre Square, Suite 216, Orinda, CA 94563

Glenn Leong, Soma Corporation, 1260B 45th Street, Emeryville, CA 94608 Leroy Griffin, City of Oakland-Fire, 505-14th Street, Oakland, CA 94612 Files

6-9-99 They will submit a workfan to enited 3-4"
worklowing wells, and a remediation method to
remove groundanter. At this time, it does not
offen the conformation is coming of site from their neighbor. Everent of the meeting were Mila Mc Gaire, Treadwell & Rollo Olean Leong, Soma Corp. Faye Bewell, Bround Owner Marilco Gartionez, Vrge St. Jug. Met with the sollowing prisons concerning the soil gas survey results: Faya Bewrell Mike Mc Gaire Glenn Leong Madhulla logan We described the soil gas senden result obligand lay ATEC and CERES summared in the letter dated 7-6-79 from Treglowell + pollo. We compared the results with the Dropt Commercial recogs fors for concentration of BTEX in vogor at 3 flow ground surface. It was agreed but additional Soil vagor sample, will be laken inside the building on the side of the loading dock.

ALAMEDA COUNTY HEALTH CARE SERVICES







April 19, 1999

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Ms. Faye Beverett, Property Owner Page Street Properties, LLC Three Embarcadero Center, Suite 1150 San Francisco, CA 94111

RE: 2855 Mandela Parkway, Oakland, CA 94607

Dear Ms. Beverett:

I have reviewed your Workplan for Source Investigation of Free Product dated April 14, 1999, prepared by Treadwell & Rollo. It is acceptable with the condition that soil samples are collected every 5 feet from each boring, and submitted to the analytical laboratory. The samples can be put on hold for future use if necessary.

If you have any questions, please contact me at (510) 567-6774.

Sincerely,

Larry Seto

Śr. Hazardous Materials Specialist

Michael McGuire, Treadwell & Rollo, 2 Theatre Square, Suite 216, Orinda, CA 94563 Glenn Leong, Soma Corporation, 1260B 45th Street, Emeryville, CA 94608 Leroy Griffin, 505-14th Street, 7th Floor, Oakland, CA 94612 Files

2855 Mandela Property

PROTECTION

Three Enther agero Center, Suite 1150 San Francisco: QA 94111 Ph: (415) 398-2266 FAX: (415) 398-2272 Pagestr@aol.com

March 23, 1999

Ms. Beverly Wirth Successor Trustee of the Marjorie G. Hubbel Trust 9 Westminster Place Walnut Creek, CA 94595 via overnight delivery

RE: 2607 Mandela Parkway

Dear Ms. Wirth:

I am one of the property owners of 2855 Mandela Parkway, the building across Willow Street from 2607 Mandela Parkway, the building formerly owned by you. On March 12, 1999, the Alameda County Health Care Services Agency sent you a letter directing us to work together to initiate a subsurface investigation as it appears the contamination under 2855 Mandela may be migrating from 2607 Mandela.

If the contamination source is not 2607 Mandela, it could be an "area-wide" problem which means individual property owners may not have cleanup responsibility. We need to perform subsurface testing on and around 2607 Mandela in order to gain more knowledge.

You have indicated to the County that you have limited funds. We are willing to pay for the "area-wide" portion of the testing and can discuss an equitable method of splitting the cost when we meet. Our offer to pay is predicated, however, on you allowing us to review and copy any building insurance documents you have and the purchase contract for the sale of the building to Tom Breunig and Mike Dinga as those documents may contain information which might allow you reimbursement for testing cost. For example, if the purchase contract says the buyer purchased 2607 Mandela "as-is", the buyer may be responsible for the testing cost.

Generally the County requires a work plan within 30 days of notice, or, in this case, by April 12, 1999. I would like to request a meeting during the week of March 29, 1999 with you and our environmental consultant, Michael McGuire of Treadwell & Rollo, to discuss the findings to date and our proposed testing plan. The meeting would be in Michael's offices at:

2 Theatre Square, Suite 216 Orinda, CA (925) 253-2683.

I will call you on Thursday to arrange a convenient meeting time.

Thank you.

Regards,

tay Burelt
Faye Beverett

Owner

Larry Seto, Alameda County Health Care Services

Michael McGuire, Treadwell & Rollo

cc:

ALAMEDA COUNTY HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

March 12, 1999

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Ms. Beverly Wirth Successor Trustee of the Marjorie G. Hubbel Trust 9 Westminster Place Walnut Creek, CA 94595 STID 3712

RE: 2607 Mandela Parkway, Oakland, CA 94607

Dear Ms. Wirth:

On March 3, 1999 we had a telephone conversation concerning the above site that you were formerly responsible for. An underground tank was closed in place before the site was sold to the present owners. There is groundwater data that has been collected downgradient from the above site that indicates contamination maybe migrating from 2607 Mandela Parkway towards 2853 Mandela Parkway. I made a request that you initiate a subsurface investigation since you were the last owner of the underground tank before it was closed. Your response was that you did not have the money to initiate a subsurface investigation.

Groundwater data currently available to this office indicates that groundwater is moving from 2607 Mandela Parkway to 2853 Mandela Parkway. Two groundwater samples collected on Willow Street, which separates the two properties, contained more than 3 feet of floating product in each sample.

I suggest that the property owners at 2607 and 2853 Mandela Parkway open a dialogue and reach an agreement to initiate a subsurface investigation in accordance to Article 11, California Code of Regulations, Title 23, Underground Storage Tank Regulations. The purpose of this investigation should be to identify the source of the contamination that is affecting the groundwater on and adjacent to your properties.

If you have any questions, please contact me at (510) 567-6774.

Sincerely,

Larry/Seto

Sr. Hazardous Materials Specialist

Cc: Leroy Griffin, City of Oakland-Fire Department, 505-14th Street, Oakland, CA 94612

Faye Beverett, Page Street Properties, Three Embarcadero Center Suite 1150, San Francisco, CA 94111

Tom Breunig, 2607 Mandela Parkway, #1, Oakland, CA 94606 Mike Dinga, 2607 Mandela Parkway, #1, Oakland, CA 94606 William Wasko, The Ordway Building, One Kaiser Plaza, Suite 1545 Oakland, CA 94612

Files

AGENCY

DAVID J. KEARS, Agency Director



Certified Mailer# Z 199 067 057

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

February 25, 1999

Ms. Beverly Wirth, Successor Trustee 925-934-6956 of the Marjorie G. Hubbell Trust 9 Westminster Place Walnut Creek, CA 94595 STID 3712

RE: 2855 Mandela Parkway, Oakland, CA 94607

Dear Ms. Wirth:

I would like to introduce myself as the caseworker that is overseeing the investigation of the subsurface petroleum hydrocarbon contamination at the above address. The new owner of the site, Faye Beverett of Page Street Properties, LLC had Ceres Associates perform a Phase II investigation, and a follow-up investigation. Five soil borings were advanced on Willow Street (SB-8, SB-9, SB-13, SB-14 & SB-15), and soil and groundwater samples were collected. Groundwater samples collected from SB-8 and SB-9 had more than 3' (three feet) of floating product. The groundwater sample from SB-13 contained 1,800 ppb TPH(g), 88 ppb benzene, 100 ppb toluene, 85 ethylbenzene and 160 ppb xylenes. The groundwater sample from SB14 contained 14 ppb of MTBE and the sample from SB15 contained 0.55 ppb xylenes.

The groundwater flow direction beneath the above site is towards the west-northwest (2607 Mandela Parkway towards 2853-2863 Mandela Parkway). Ceres Associates calculated the groundwater flow direction during the August 1998 investigation by installing temporary well casings in three soil borings located across the property, allowing groundwater in each borehole to stabilize for at least 24 hours, and then surveying the water table elevations at each sample location. The groundwater samples collected from SB-3, SB-3B and SB-3C, the three soil borings at the above site closet to Willow Street contained floating product.

The data currently available to this office indicates that petroleum hydrocarbon contamination maybe migrating from your former property to your neighbor's property at the above address. It is my understanding after the underground storage tank that formerly contained gasoline was closed in place in February 1997, the property was transferred to Mr. Thomas Breunig and Mr. Mike Dinga of CounterForce. (Enclosed is a copy of the Soil and Groundwater Assessment Report dated December 28, 1998 that was prepared by Ceres Associates.)

As per Section 2724, Title 22, California Code of Regulations, Article 11, you are required to submit a Soil and Water Investigation workplan within 30 days. This workplan must be prepared by a California –Register Geologist, Certified Engineering Geologist, or Registered Civil Engineer.

If you have any questions, please contact me at (510) 567-6774.

Sincerely,

Larry Seto

Sr. Hazardous Materials Specialist

Cc: Leroy Griffin, City of Oakland-Fire Department, 505-14th Street, Oakland, CA 94612

Faye Beverett, Page Street Properties, Three Embarcadero Center Suite 1150, San Francisco, CA 94111

Tom Breunig, 2607 Mandela Parkway, #1, Oakland, CA 94606
Mike Dinga, 2607 Mandela Parkway, #1, Oakland, CA 94606
William Wasko, The Ordway Building, One Kaiser Plaza, Suite 1545
Oakland, CA 94612

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Receipt for Certified Mail
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SENDER: Complete items 1 and/or 2 for additional/services. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that we card to you. Attach this form to the front of the mailplece, or on the back if space permit. Write "Return Receipt Requested" on the mailplece below the article The Return Receipt will show to whom the article was delivered and delivered.	e does not e number.	I also wish to recifollowing service extra fee): 1. Address 2. Restricte Consult postmas	s (for an ee's Address ed Delivery
Ms. Beverly Wirth, Successor Trustee of the Marjorie G. Hubbell Trust Walnut Creek, CA 94595	☐ Registered ☐ Express M	<i>067 05/</i> ype d fail eipt for Merchandlse	▼ Certified
5. Received By: (Print Name) 6. Signature: (Addressee or Agent) X	8. Addressee and fee is p	's Address (Only paid)	if requested
PS Form 3811 , December 1994	2595-97-8-0179	Domestic Ret	um Receipt

FROM : LAW OFFICES

WILLIAM A. WASKO

Attorney • At • L

February 23, 1999

BY FACSIMILE ONLY 510-337-9336

Mr. Larry Seto
Alameda County Health Care Services
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: 2855 Mandela Parkway, Oakland, CA

Dear Mr. Seto:

Per our conversation of last week, you agreed to pursue the prior owner of the property at 2607 Mandela Parkway, Oakland, CA relative to any further investigation that you determine is needed at that site. The prior owner is as follows:

Beverly Wirth, Successor Trustee of the Marjorie G. Hubbell Trust dated May 25, 1989
9 Westminster Place
Walnut Creek, CA 94595
Phone: 925-934-6956

I anticipate that your letter will be addressed directly to Beverly Wirth and not to Thomas Breunig c/o of Ms. Wirth. I think it will have more impact if the letter is directly to Ms. Wirth.

Please call if you have any questions.

Sincerely,

William A. Wasko

cc: Thomas Breunig





Certified Mailer#

ENVIRONMENTAL HEALTH SERVICES 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 (510) 337-9335 (FAX)

January 12, 1999

Mr. Thomas Breunig / Mike Dingar CounterForce 2607 Mandela Parkway, #1 Oakland, CA 94606

RE: 2855 Mandela Parkway, Oakland, CA 94607

Dear Mr. Breunig:

I would like to introduce myself as the caseworker that is overseeing the investigation of the subsurface petroleum hydrocarbon contamination at the above address. The new owner of the site, Faye Beverett of Page Street Properties, LLC had Ceres Associates perform a Phase II investigation, and a follow-up investigation. Five soil borings were advanced on Willow Street (SB-8, SB-9, SB-13, SB-14 & SB-15), and soil and groundwater samples were collected. Groundwater samples collected from SB-8 and SB-9 had more than 3' (three feet) of floating product. The groundwater sample from SB-13 contained 1,800 ppb TPH(g), 88 ppb benzene, 100 ppb toluene, 85 ethylbenzene and 160 ppb xylenes. The groundwater sample from SB14 contained 14 ppb of MTBE and the sample from SB15 contained 0.55 ppb xylenes.

The groundwater flow direction beneath the above site is towards the west-northwest (2607 Mandela Parkway towards 2853-2863 Mandela Parkway). Ceres Associates calculated the groundwater flow direction during the August 1998 investigation by installing temporary well casings in three soil borings located across the property, allowing groundwater in each borehole to stabilize for at least 24 hours, and then surveying the water table elevations at each sample location. The groundwater samples collected from SB-3, SB-3B and SB-3C, the three soil borings at the above site closet to Willow Street contained floating product.

The data currently available to this office indicates that petroleum hydrocarbon contamination maybe migrating from your property to your neighbor's property at the above address. Enclosed is a copy of the Soil and Groundwater Assessment Report dated December 28, 1998 that was prepared by Ceres Associates.

As per Section 2724, Title 22, California Code of Regulations, Article 11, you are required to submit a Soil and Water Investigation workplan within 30 days. This workplan must be prepared by a California –Register Geologist, Certified Engineering Geologist, or Registered Civil Engineer.

If you have any questions, please contact me at (510) 567-6774.

Sincerely,	1/1
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Sr. Hozonda	ous Materials Specialis
or. Hazaru	ous iviateriais Specialisi

Cc: Leroy Griffin, City of Oakland, Fire Department
Faye Beverett, Page Street Properties, Three Embarcadero Center
Suite 1150, San Francisco, CA 94111

Files

on the reverse side	■ Complete items 1 and/or 2 for additional services. ■ Complete items 3, 4a, and 4b. ■ Print your name and address on the reverse of this form so that we card to you. ■ Attach this form to the front of the mailpiece, or on the back if space permit. ■ Write "Return Receipt Requested" on the mailpiece below the article. ■ The Return Receipt will show to whom the article was delivered and delivered.	e does not	following sen extra fee): 1. Addr 2. Rest	essee's Address	elpt Service.
N ADDRESS completed	3. Article Addressed to: MR. THOMAS Brewnics Counter Force 2607 MANUELA PRKWX#1 COKLAND, CA. 94606	4a. Article No. 4b. Service 1 Registere Express No. 1 Return Rec. 7. Date of De	5 36 3 Type ad Mail Meipt for Merchan	Certified Insured disse COD	for using Return Rec
Is your RETUR	5. Received By: (Print Name) 6. Signature: (Addressee or Agent) X PS Form 3511, December 1994	8. Addressee and fee is	paid)	nly if requested	Thank you

ALAMEDA COUNTY

HEALTH CARE SERVICES







DAVID J. KEARS, Agency Director

January 11, 1999

ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 (510) 337-9335 (FAX)

Ms. Faye Beverett, Property Owner Page Street Properties, LLC Three Embarcadero Center, Suite 1150 San Francisco, CA 94111

RE: 2855 Mandela Parkway, Oakland, CA 94607

Dear Ms. Beverett:

Today I met with you, Mr. Nicholas Patz and Mr. Michael Siembieda from Ceres Associates, your consultants, and Glenn Leong of Soma Corporation, the consultant representing the previous property owner. Groundwater samples taken from six soil borings on your property contained floating product. Five of the boring locations are up gradient from the former underground tank location, and groundwater samples from three of the borings had more than three feet of floating product. In addition, the product appears to increase in volume upgradient from the former tanks on your property. With the data currently available, it appears that an off-site source may be responsible for the contamination detected beneath the southeast portion of your property and beneath Willow Street. I am in the process of contacting the property owner at 2607 Mandela Parkway (the property located in the immediate up gradient direction) to request an investigation of his abandoned-in-place gasoline underground storage tank. The product beneath the southeast portion of your property and beneath Willow Street may originate from this site.

If you have any questions, please contact me at (510) 567-6774.

Sincerely,

Sr. Hazardous Materials Specialist

Cc: Nicholas Patz, Ceres Associates, 5040 Commercial Circle, Suite F. Concord, CA 94520

> Michael Siembieda, Ceres Associates, 5040 Commercial Circle, Suite F. Concord, CA 94520

Glenn M. Leong, SOMA Corporation, 1260B 45th Emeryville, CA 94608 **Files**

DATE:

TO:

T.

PAGE STREET PROPERTIES, LLC Three Embarcadero Center, #1150 San Francisco, CA 94111 phone: (415) 398-2266 fax: (415) 398-2272

Pagestr@aol.com

TIME: 11:30 A Seto 510 337.9335 Leong 510 654.1960

FROM:	Faye Beverett
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№ PAGE STREET PROPERTIES, LLC

Three Embarcadero Center, Suita 1150 San Francisco, CA 94111 Ph: (415) 398-2266 Fax: (415) 398-2272 E-Mail: pagestr@aol.com

January 11, 1999

Mr. Larry Seto Alameda County Environmental Health Dept. 1131 Harbor Bay Parkway, #250 Alameda, CA 94502

RE: Agenda for January 11, 1999 Meeting for 2855 Mandela Parkway

Dear Larry:

7.

7

Attached please find an agenda for our 2 PM meeting today. After further discussion with CERES Associates and SOMA Corporation (the former property owner's consultant), my goals for the meeting are slightly revised from my December 30, 1998 letter to you. The following briefly outlines my goals:

- 1. Discuss current site conditions (brief outline of previous site investigations).
- 2. Discuss the likelihood that floating product from 2607 Mandela Parkway is moving downgradient to 2855 Mandela Parkway. Floating product at 2855 Mandela Parkway appears to be coming from an offsite source. This source may be 2607 Mandela Parkway as:
 - 2607 Mandela Parkway is upgradient from the floating product in Willow Street and at 2855 Mandela Parkway.
 - The observed floating product thickness increases in the direction of 2607 Mandela Parkway.
 - The former gasoline tank at 2607 Mandela Parkway was abandoned-in-place in 1997 as was reported to be "rusty, pitted, (and had) several holes."
 - The floating product under both Willow Street and 2855 Mandela Parkway observed during our recent investigations was relatively "clean," indicating a more recent release. The tanks at 2855 Mandela Parkway were removed in 1991.
 - At the time the 2855 Mandela Parkway tanks were removed and in the subsequent 1992 investigation, there was no indication of free product.
 - A second source/tank may be present at 2607 Mandela Parkway based upon previous land use as observed in aerial photographs.
 - No additional source was found at 2855 Mandela Parkway after a series of subsurface investigations (including subsurface utility surveys).
- Discuss the potential for separation of the 2607 Mandela Parkway investigation and the 2855 Mandela Parkway investigation.
 - It may be difficult to separate the investigations due to the complexity of the site conditions, including the presence of clean floating product and a potential offsite source.
 - Depending upon your opinion and authority, we may solicit a letter from you
 regarding the complexity of the problems and the difficulty in separating the two
 property investigations.

Mr. Larry Seto January 11, 1999 page 2

4. Present recommendations to Alameda County Environmental Health Department regarding investigation requirements for 2607 Mandela Parkway.

Installation of 6 to 8 soil borings with at least 3 borings in the northern half and 3 borings in the southern half of the building. Samples should be collected from 10

and 15 feet below ground surface.

 Groundwater collection from the boring locations from temporary wells following the boring installation (as feasible, depending upon field conditions), as well as 3-4 hours later or overnight.

Installation of one monitoring well in Willow Street to further evaluate the floating

product thickness

 Samples should be analyzed for TPHg, benzene, toluene, ethylbenzene, xylenes, and methyl-tert-butyl ether, in part by using US EPA methods 8015 and 8020, as appropriate. We would also suggest collecting split product samples (if floating product is found), or soil/groundwater samples for petroleum hydrocarbon fingerprint characterization.

5. Present proposed future work for 2855 Mandela Parkway.

 Evaluation of the potential of preferential pathways of migration in the subsurface through utility line backfill. CERES Associates would analyze City of Oakland maps to determine if these pathways might exist.

We look forward to meeting with you today.

Regards,

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Faye Beverett Property Owner

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AGENDA REVIEW OF SITE CONDITIONS 2853-2863 MANDELA PARKWAY OAKLAND, CA

Meeting with Alameda County Environmental Health Department January 11, 1999 2 PM

1. Brief Site History

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- 2. Review Site Investigations
 - a. Harding Lawson/ATEC
 -USTs/residual impacts
 - CERES Associates August and November 1998
- 3. Summarize Apparent Subsurface Conditions
 - a. Soil/groundwater
 - b. Free product
- 4. Potential Sources
 - a. 2855 Mandela Parkway
 - b. 2607 Mandela Parkway
 - c. Other sources?
- 5. Potential Responsible Parties
- 6. Potential Remedial Process
 - a. Future work

PAGE STREET PROPERTIES, LLC

Three Embarcadero Center, Suite 1150 San Francisco, CA 94111 Ph: (415) 398-2266 Fax: (415) 398-2272 E-Mail: pagestr@aol.com

December 30, 1998

Mr. Larry Seto Alameda County Environmental Health Dept. 1131 Harbor Bay Parkway, #250 Alameda, CA 94502

RE: Final Assessment for 2855 Mandela Parkway, Oakland

Dear Larry:

Attached please find CERES Associates' 12/28/98 soil and groundwater assessment report for the gasoline-related contamination at 2855 Mandela Parkway, Oakland (the "Property"). This report covers the final round of testing the Property owners have done in an attempt to determine the source and extent of the contamination.

As we have discussed previously, there is gasoline-related contamination found (1) under the center of the Property, (2) under the side of the Property near Willow Street, and (3) under Willow Street. The contamination in items (2) and (3) together shall be called the "Willow Street Contamination." The contamination at all three locations includes free product and high levels of TPHg and Benzene.

We believe the contamination under the center of the Property may have been caused by a gasoline UST on the Property that was removed in 1991. We believe the Willow Street Contamination may have been caused by an abandoned-in-place gasoline UST and a second UST, as yet unlocated, both at 2607 Mandela Parkway directly across Willow Street, for the following reasons:

- 1. The Willow Street Contamination is down gradient from 2607 Mandela Parkway (and up gradient from the Property tanks removed in 1991).
- The depth of the free product increases closer to 2607 Mandela Parkway.
- 3. At the time of abandonment, the consultant's report indicated the 2607 Mandela Parkway tank was "rusty, pitted, (and had) several holes."
- 4. We conducted a geophysical survey and could not find a tank on the Property or in Willow Street near the Property. As documented in its 11/18/98 report, CERES Associates surveyed the Property and Willow Street with (a) ground penetrating radar, (b) a hand-held magnetic locator, (c) split box inductive locator and metal detector, (d) magnetometer, and (e) 9 probe holes, and could not find a tank.
- 5. The north portion of 2607 Mandela Parkway was constructed after the south portion and may have a second UST which is now located under the existing building. The north side apparently was a paved lot used for parking trucks and other vehicles prior to building construction.

seto2

Mr. Larry Seto December 30, 1998 page 2

Based on the above findings, we would like to propose the following action plan:

- 1. Meet with you to review the findings and our proposed action plan.
- 2. Propose that the County of Alameda request the owner of 2607 Mandela Parkway perform at least the following investigation:
 - a) Install 6 to 8 soil borings on the 2607 Mandela Parkway site with at least 3 borings in the northern half and 3 borings in the southern half of the building. Borings to sample soil at 10 and 15 feet bgs.
 - b) Sample the groundwater after the borings are installed and then again 3-4 hours later.
 - c) Analyze the soil and groundwater samples including US EPA method 8015 modified for TPHg and US EPA method 8020 for BTEX and MTBE.
- 3. Begin remediation of the contamination under the Property by passive skimming of free product, using either monitoring wells or French drains or a combination of the two systems.

We look forward to meeting with you at your earliest convenience and I will call you to arrange a time.

Regards,

Faye Beverett Property Owner

Tay Bernet

cc: Nick Patz, CERES Associates Glenn Leong, SOMA Corporation

ALAMEDA COUNTY HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

November 25, 1998

Ms. Faye Beverett, Property Owner Page Street Properties, LLC Three Embarcadero Center, Suite 1150 San Francisco, CA 94111

RE:

2855 Mandela Parkway, Oakland, CA

Dear Ms. Beverett:

I have reviewed the Workplan-Addition Phase II Environmental Site Assessment, dated November 23, 1998 that was prepared Ceres Associates. It is acceptable with the condition that the soil and groundwater samples be tested for the presence of MTBE.

If you have any questions, please contact me at (510) 567-6774.

Sincerely,

Larry Seto

Sr. Hazardous Materials Specialist

Cc: Nicholas Patz, Ceres Associates, 5040 Commercial Circle, Suite F, Concord, CA 94520



MOITCOTTON

5040 Commercial Circle, Suite F Concord, CA 94520 (925) 825-4466 / fax (925) 825-4441

Insormal raye Beverette that I will review this report within two weeks.

98 NOV 20 AM 9: 58

November 19, 1998

Larry Seto
Alameda County Environmental Health Department
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

RE: 2853-2863 Mandela Parkway, Oakland, California

Dear Larry:

Please find enclosed one copy of the Additional Subsurface Investigation at 2853-2863 Mandela Parkway in Oakland. I have sent three copies of the report to Faye Beverette, the current owner of 2853-2863 Mandela Parkway, with the intention that she would give one of the copies to the owner of 2607 Mandela Parkway.

Ms. Beverette mentioned that she has been in contact with the owner of the site across the street (2607 Mandela Parkway) and that he appears willing to cooperate with additional work requirements in conjunction with the subsurface contamination near his site.

If you have any questions regarding this report, you can contact Nick Patz at (925) 825-4466.

Sincerely,

CERES Associates

John Love

Senior Geologist

Met wille Fage Be verell, Brincipal and 11-10-98 Mariko Gulienez of Boge St. Brogerties. Also at the meeting was John Cove of Aceres Ass, their consultants, Weldiscussed, the investigation they did last mouth that exhibit affording product (gos) that extife floating growing (gas)

og to 3' in stay property. Mr. cove will

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their environments

of the environments that the des gradient projects occuped at 2697 Cypres St Mondella Backung) be contacted to commerce an envertibles. Mike Dinga, co-owns of 2607 Mandela Barkway 1-28-99 With Thomas Breuning called and we discussed the fational why he should imployent an envertigation, ne baid pe will contact his environmental consultant, and have that person Tom Breung, co-owner of 2607 Mandela Backery called, and her wanted to know whey hay had to spend money on the investigation. I told him he should get on attorney and a pip right are sones he brought his site willy the imbistanding the site was down for the

PAGE STREET PROPERTIES, LLC

Three Embarcadero Center, Suite 1150 San Francisco, CA 94111 Ph: (415) 398-2266 Fax: (415) 398-2272 E-Mail: pagestr@aol.com

September 14, 1998

Mr. Brian Oliva Alameda County Health Care Services Agency 1131 Harbor Bay Parkway Suite 250 Alameda, CA 94502 DEGEOVE SEP 1 5 1998 By_____

RE: Request for Remediation Plan

Dear Mr. Oliva:

We recently purchased 2855 Mandela Parkway, Oakland, a 142,000 square foot industrial building. We would like to ask your assistance in preparing a remediation plan for the site which, in an isolated area, has high levels of gasoline-related contamination and free product on the water table.

We have a financing requirement that a remediation plan be approved by December 17, 1998. Therefore, I would request you review these materials at your earliest convenience and that we might schedule a meeting with you the week of September 28, 1998.

Recent History

During the purchase due diligence, we discovered that two leaking underground storage tanks had been removed in 1991 but there was no closure letter issued from any agency. We commissioned a Phase II, the results of which found high levels of contamination and free product near the location of the removed tanks.

Request

We would like to request a meeting to review our draft plan for additional testing. Based on the results of the additional testing, we would work with you to determine an appropriate remediation plan.

The lead consultant will be John Love, CERES Associates. As the seller took back a large note to be paid when closure is achieved, the seller's consultant, Glenn Leong, SOMA, will also attend any meetings.

oliva

Mr. Brian Oliva Page 2

Attached please find the following items for your review prior to our meeting:

- 1. September 2, 1998 letter from John Love regarding proposed testing plan.
- 2. September 1, 1998 Phase II Subsurface Investigation Report, CERES Associates
- 3. July 16, 1992 Subsurface Soil Investigation, ATEC Environmental Consultants
- 4. August 13, 1991, Underground Storage Tank Removal Report, Harding Lawson Associates
- 5. September 25, 1990, Phase I Preliminary Hazardous Materials Site Assessment, Harding Lawson Associates ?

John Love will call you in a few days to schedule a meeting. If you have any questions on the information presented here, please contact him at (925) 825-4466.

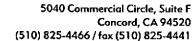
Thank you for your assistance. I look forward to working with you.

Regards,

Faye Beverett

for 2855 Mandela Parkway

cc: John Love, CERES Associates (9/2 letter only) Glenn Leong, SOMA (9/2 letter only)



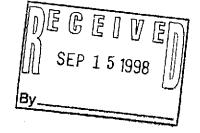


September 2, 1998

Faye Beverette
Page Street Properties
Three Embarcadero Center, Suite 1150
San Francisco, CA 94111

RE: 2853-2863 Mandela Parkway, Oakland, CA

Dear Faye:



Please find enclosed three copies of the Phase II Soil and Groundwater Sampling report for the commercial property located at 2853-2863 Mandela Parkway in Oakland (Property).

As you know, results of the investigation indicate that high contaminant concentrations are present in soil and groundwater beneath the seath pertion of the Property near the former underground storage tanks (USTs), and the product is present on the water table surface east of the former USTs. As such, additional investigation will be necessary to fully characterize the extent of the release before the appropriate remediation alternative is employed and the contamination issue at the Property is resolved.

We recommend that you report the findings of this investigation to the Alameda County Health Care Services Agency (HCSA). We also suggest that you make copies of the tank removal report and subsurface investigations conducted by Harding Lawson and ATEC in 1991 and 1992, respectively, and submit them as well if the HCSA does not already have copies of these documents on file.

It is CERES' opinion that the following scope of work will be necessary to further evaluate the lateral extent of petroleum contamination beneath the south portion of the Property:

Conduct an in-depth aerial photograph review of the Property and surrounding area at Pacific Aerial Surveys in Oakland.

Aerial photographs should be reviewed for the purpose of identifying whether other unknown USTs may be contributing to the subsurface contamination identified east of the former known UST locations. Groundwater flow direction data and free product found east of the former USTs in the upgradient groundwater flow direction suggests that another source may be contributing the soil and groundwater contamination in this area.

Install six (6) additional soil borings to evaluate the lateral extent of soil and groundwater contamination around the former USTs. Two borings should be placed east of SB-3 in Willow Street (see figures in report). One soil boring should be placed northeast of the former UST excavation inside the portion of the building now occupied by Joinery Structures.

Two borings should be positioned northwest and west of the excavation inside the building occupied by Poser Envelopes, and one additional soil boring should be placed west of the former tanks near SV-6 (see figures in report). Soil and groundwater sample results collected from SB-1 during the recent subsurface investigation indicate that contaminant migration south of the former UST is adequately defined in this direction.

Information obtained from the above recommended scope of work will be useful in assessing potential future monitor well locations, as well as potential remediation options. The HCSA and Regional Water Quality Control Board will likely require that the free product observed at SB-3 be removed from the ground and monitor wells be installed to confirm that contaminant concentrations are decreasing beneath the Property with time. The free product reported on the groundwater surface at SB-3 can probably be removed with a passive skimmer installed in a groundwater well constructed in this area if the total volume of free product is limited, and another source of contamination is not present.

If you have any questions, please give me a call at (925) 825-4466.

Sincerely,

CERES Associates

John Love, RG Project Geologist



DAVID J. KEARS, Agency Director

Certified Mailer #

October 14, 1993

STID 3712

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH

State Water Resources Control Board Division of Clean Water Programs UST Local Oversight Program 80 Swan Way, Rm 200 Oakland, CA 94621

(510) 271-4530

P 418 724 680

re:

Daniel Nourse Cypress Property 1120 Nye St., Suite 400 San Rafael CA 94901 Wareham Property 2855 Cypress St. Oakland CA 94607

NOTICE OF VIOLATION

Dear Mr. Nourse,

I have received your letter dated 7/19/93 regarding the abovereferenced site. I wrote a letter to you dated 8/10/93 (attached), and have not received a response. Therefore, this is considered a Notice of Violation. Here is my list of concerns:

- 1) Do you represent the former tank operator? It is our understanding that you represent the property owner.
- 2) We do not have an Unauthorized Leak Report (ULR) on file. This is required within 5 days of the detection of a leak of hazardous substance. I have enclosed a copy of this form for your convenience. Please fill it out and return it within 15 days or by October 29, 1993.
- 3) The tank excavation was filled with the stockpiled soil from the tank removal, according to the 8/13/91 report by Harding Lawson Associates (HLA). This soil contained 410 ppm TPH-motor oil, 230 ppm TPH-diesel, and 81 ppm TPH-gasoline. Was this soil subsequently removed?
- 4) According to your letter dated 7/19/93, a stockpile of soil still exists onsite. What is the origin of this stockpile? Has it been sampled? What are the results? What is the estimated quantity? Has the Bay Area Air Quality Management District been notified of its aeration, presuming it has elevated levels of petroleum hydrocarbons?

Please respond to these items within 30 days or by November 14, 1993. If you have any questions, please contact me at 510-271-4530.

Daniel Nourse STID 3712 October 14, 1993 page 2 of 2

Please be advised that "no person shall close an underground tank system unless that person . . . demonstrates to the appropriate agency . . . that the site has been investigated to determine if there are any present, or were past releases, and if so, that appropriate corrective or remedial actions have been taken," as per Section 25298 (c) (4) of the California Health & Safety Code, (CH&SC) Division 20, Chapter 6.7. Further, "any operator of an underground tank system shall be liable for a civil penalty of not less than five hundred dollars (\$500) or more than five thousand dollars (\$5,000) for each underground storage tank for each day of violation for. . .failure to properly close an underground tank system," as per Section 25299 (a) (5) of CH&SC, Division 20, Chapter 6.7.

Sincerely, Checker

Jennifer Eberle

Hazardous Materials Specialist

cc:

Ed Howell/file

Chris Rossito, Harding Lawson Assoc., 200 Rush Landing Rd., Novato CA 94945

	F 418 724 6	80
? #	Receipt for Certified M No Insurance Co Do not use for Ir (See Reverse)	verage Provided
	Street and Mon Nev Str	
	P.O., State and ZIP Code San Rafael. (Postage	* I `
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. -	Restricted Delivery Fee Return Receipt Showing	
une 199	to Whom & Date Delivered Return Receipt Showing to Whom, Date, and Addressee's Address	
S Form 3800 , June 1991	TOTAL Postage & Fees Postmark or Date	\$
S Form		

94945		<u> </u>
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11018 Homber 488	A .64	CITS # 30:03 bearenad. 3. Article Addressed to:
er. 2.	idmun ək isb erit bi	does not permit. • Write "Return Receipt Requested" on the malipiece below the artic • The Return Receipt will show to whom the article was defivered an
1.		e Attach this form to the front of the mailpiece, or on the back if
also wish to receive the extra for the extra for tollowing services (for & extra for the extra for t	Me cau	 Complete items 3, and 4s & b. Complete items 3, and 4s & b. Print your name and address on the reverse of this form so that

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
St. UST Local Oversight Program
80 Swan Way, Rm 200

Oakland, CA 94621 (510) 271-4530

August 10, 1993 STID 3712

Daniel Nourse Cypress Property 1120 Nye St., Suite 400 San Rafael CA 94901

re:

Wareham Property 2855 Cypress St. Oakland CA 94607

Dear Mr. Nourse,

I have received your letter dated 7/19/93 regarding the abovereferenced site. Since we have been playing phone tag, and since I have inherited this case from my predecessor Dennis Byrne, I am writing you with a list of concerns:

- Do you represent the former tank operator? It is our understanding that you represent the property owner.
- We do not have an Unauthorized Leak Report (ULR) on file. This is required within 5 days of the detection of a leak of hazardous substance. I have enclosed a copy of this form for your convenience. Please fill it out and return it within 15 days or by August 25, 1993.
- The tank excavation was filled with the stockpiled soil from the tank removal, according to the 8/13/91 report by Harding Lawson Associates (HLA). This soil contained 410 ppm TPH-motor oil, 230 ppm TPH-diesel, and 81 ppm TPH-gasoline. Was this soil subsequently removed?
- According to your letter dated 7/19/93, a stockpile of soil still exists onsite. What is the origin of this stockpile? Has it been sampled? What are the results? What is the estimated quantity? Has the Bay Area Air Quality Management District been notified of its aeration, presuming it has elevated levels of petroleum hydrocarbons?

Please respond to these items within 30 days or by September 10, 1993. If you have any questions, please contact me at 510-271-4530.

Sincerely

Jennifer Eberle

Hazardous Materials Specialist

cc: Ed Howell/file

Chris Rossito, Harding Lawson Assoc., 200 Rush Landing Rd., Novato CA 94945

je

CYPRESS PROPERTY

1120 Nye Street
Suite 400
San Rafael, CA 94901
415 457-4964
FAX 415 459-4605

July 19, 1993

Alameda County Health Care Services Agency Department of Environmental Health Hazardous Materials Division 80 Swan Way, Room 200 Oakland, CA 94621

Attn: Dennis Byrne

RE: 2855 Cypress Street, Oakland, CA 94607

STID # 3712

Dear Dennis:

In August of 1991, we submitted a report for the removal of two underground tanks and various testing of a loading dock excavation adjacent to the two tanks. We suspended the completion of the dock at that time.

It became necessary to complete the dock last month. This letter is to inform you of that fact, and to describe what was done with the excavated soil.

The excavation was completed and a new, sealed concrete dock has been installed where noted on the August 13, 1991 report.

The soil from the excavation has been left to aerate on site. No hydrocarbon odors were noted before, during, or after the excavation.

The completion of the dock was necessary. It also afforded us the opportunity to excavate this additional soil for aeration (if necessary) and diminish the potential problem in the future.

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

Sincerely,

Daniel M. Nourse, for CYPRESS PROPERTY

cc: Rich Robbins Jeff Allen 03712

10-28-92 Tel con w/c. hossito tank rem. report was last work they did. I can call Wareham Brop-Devel. Dan Nourse 415-457-4964

7-26-93 Revu 7-19 etr fm RP.

1. how much soil is being Sta/aerated?

2. AQMD notification?

3. need ULK

4. need mws

5. Sole RP? p.o? tank operator?

THE LAW OFFICES OF

GRAVES, ALLEN, CORNELIUS & CELESTRE

Jeffrey Allen Bruce Cornelius W. Michael Celestre Michael Ann Ferreira Janice L. Bouba

Jay Graves (1915-1984)

2101 Webster Street, Suite 1600 Oakland, California 94612 Telephone: 510/839-8777 Facsimile: 510/839-5192 Mailing Address: P.O. Box 30817 Oakland, CA 94604-6917

JUN - 9 1992 LAW OFFICES

Of Counsel: Stephen J. Russell

June 5, 1992

Michael A. Jarrick Senior Counsel Navistar International 455 North Cityfront Plaza Drive Chicago, Illinois 60611

In re:

Cypress / Wareham v. Navistar Navistar # WH 199100506

Dear Michael:

You will find enclosed the release modified to include the language you requested. The release has been executed by Richard Robbins as general partner of Cypress Property, a California Limited Partnership.

You will also find enclosed a photocopy of the agreement as signed by Mr. Robbins. Please obtain an original signature from an authorized officer of Navistar International Transportation Corporation on the enclosure with the photocopied signature and return that document to my office at your earliest convenience. In accordance with your earlier instructions, we are distributing the settlement check to our client for negotiation.

Thank you for your cooperation in this matter.

Very truly yours,

JA/vi

Richard Robbins

RELEASE

We, Cypress Property, a California Limited Partnership formerly known as Cypress General Partnership as successor in interest to Richard K. Robbins, et al. (hereafter collectively "Cypress") and Navistar International Transportation Corporation as successor to International Harvestor, Inc. (hereafter "Navistar)", for ourselves, our heirs, executors, administrators and assigns, for valuable consideration, including the payment of \$15,871.37 from Navistar to Cypress, hereby fully release and forever discharge the other, his heirs, executors, administrators, assigns, agents, employees, representatives and successors, from all rights, claims and actions which each of us and our above mentioned successors now have or may, after the signing of this Release, have against the others arising out of the existence of underground storage tanks ("UST's") on real property commonly known as 2801 and 2855 Cypress Street (the "Property"), leakage from the UST's, the removal of the UST's and the monitoring of the Property with respect to environmental issues arising out of leakage from the UST's (the "Subject").

- A. This Release, notwithstanding Section 1542 of the California Civil Code which provides that "a general release does not extend to claims which the creditor does not know or suspect to exist in his favor at the time of executing the Release, which if known by him must have materially affected his settlement with the debtor", releases all injuries, damages or losses to our person and property, real or personal, whether known or unknown, foreseen, unforeseen, patent or latent which any of us may have against the others or their successors. Each of the undersigned understands and acknowledges the significance and consequence of such specific waiver of Section 1542, and hereby assumes full responsibility for any injuries, damages or losses arising out of or in any way connected to the Subject.
- B. Each of us, for ourselves and our heirs, principals, agents, officers, directors, employees, executors, administrators, successors, partners, representatives, predecessors and assigns, hereby releases, acquits and forever discharges the others and their respective associates,

partners, heirs, principals, agents, employees, executors, administrators, successor, representatives, attorneys and assigns, of and from any and all claims, demands, debts, liabilities, obligations, actions, causes of action, costs and expenses of every nature, character and description whether known or unknown, and whether anticipated or unanticipated of any nature whatever (including, but not limited to, all action, causes of action, claims, demands, damages, costs and expenses) arising out, on account of, in connection with or in any way related directly or indirectly to the above described claim and to the Subject.

- C. Each of us acknowledges and understands that payment of the consideration referred to above, shall not be deemed or construed an admission of the validity of any claims made by other parties to this release with respect to the Subject, and that said payment is made solely for the purpose of compromising and settling the disputed claims and liabilities between the parties.
- D. Each of us acknowledges, understands and agrees that this Release is executed voluntarily and without any duress or undue influence on the part of or on behalf of any person, partnership corporation or entity. Each of us acknowledges and represents that no promise, inducement or agreement not set forth in this Release has been made or relied upon in executing this Release.
- E. Each of us further acknowledges that we have been represented in the negotiations with respect to this settlement and compromise by counsel of our own choice; that we have each read this Release and have had it fully explained to us by such counsel. Each of us is fully aware of the contents of this Release and its legal effect.
- F. All costs, expenses and attorneys' fees incurred by each of us in connection with the Subject, the negotiation and preparation of this Release will be borne by the party who originally incurred such costs. Each of the undersigned agrees to indemnify and hold the other parties to this Release and their respective principals, agents, employees, successors, representatives, partners and assigns, harmless and free against any loss, expense or damage occasioned by any claim

arising from or out of the Subject of this Release and/or such costs and expenses as are referred to in this paragraph..

- G. This Release contains the entire agreement between the parties relating to the subject matter of this Release. This Release supersedes all other written and oral agreements between the parties respecting the Subject. The terms of this Release are contractual and not a mere recital.
- H. Whenever the context or the signatures to this Release so require, the singular includes the plural and the masculine includes the feminine and vice versa.
- I. This agreement is entered into at Oakland, California and is subject to, made in accordance with and to be interpreted pursuant to the laws of the State of California. This agreement and the releases contained herein are expressly conditioned upon delivery of the sum of \$15,871.37 by Navistar to Cypress.
- J. Cypress Property does hereby agree to indemnify, defend and hold harmless Navistar from any and every claim or demand, right, suit or cause of action whatsoever, which is now or may hereafter be asserted against Navistar by any person or entity whatsoever on account of or arising out of the existence of the UST's, their removal or the remediation of the real property.

Executed in duplicate original as of June , 1992.

Navistar International Transportation, Corp.

Authorized Officer

Cypress Property, a California Limited Partnership

Richard K. Robbins, General Partner Navistar International Transportation Corp.

455 North Cityfront Plaza Drive Chicago Illinois 60611 Telephone 312 836-2000 Law Offices

NAVISTAR.

May 27, 1992

Jeffrey Allen, Esquire
GRAVES, ALLEN. CORNELIUS
& CELESTRE
2101 Webster Street, Suite 1600
Oakland, California 94612

Re: Cypress Property Release
Navistar File No. WH199100506

Dear Mr. Allen:

Enclosed please find my client's draft made payable to Cypress Property, a California Limited Partnership, in the amount of \$15,871.37. Please do not negotiate the draft or deliver it to your clients until they have signed the releases containing the additional language I have suggested. If there are any questions, please call.

Very truly yours,

Michael A. Jarrick Senior Counsel

MAJ/lp

Enclosure

Via Registered Mail
Return Receipt Requested
P 832 255 131



ck Number 261] :hase Document No. Invoice Number

Navistar international Trar station Corp.

In full settlement of account as stated below.

Purchase Document No. I.

e Number

Supplier No. Loc. Amount

\$15871.37***

INVOICE NUMBER CYPRESSPRP42392 DATED 4-23-92

at inquiries on an invoice to location shown to the invoice number.

See reverse for location code identification.

NAVISTAR.

Navistar International Transportation Corp. And Affiliated Companies Accounting Service Center Oak Brook IL 60522-5317

Form 605

02611

ay To he Order Of Date

5-26-92

Check No. 02611

64-12

Order Of

CYPRESS PROPERTY, A CALIFORNIA LIMITED PARTNERSHIP

Amount

\$15871.37*********

The Citizens and Southern National Bank Atlanta DeKalb County Georgia Navistar International Transportation Corp. CDS Account

G.R. Best

#OO2611# #O61112788# O11 11 418#

not listed Wareham Esquety Development. 1/20 Nye St. Sinte 400
1/20 New St. Sinte 400
DATE: 2/20172 Son Rapul (A 9490)
TO: Local Oversight Program
FROM: Juliet Shin war Sand Nourse
SUBJ: Transfer of Elligible Oversight Case
site name: Ware ham Property Development
Address: 2855 Cypress St. city Oakland Zip 94607
Closure plan attached? Y N DepRef remaining \$ 423,25
DepRef Project # 5029 STID #(if any) $37/2$
Number of Tanks: 2 removed? Y N Date of removal 6/2/19/
Leak Report filed? Y N Date of Discovery
Samples received? (Y) N Contamination:
Petroleum Y N Types: Avgas Jet <u>deaded unleaded Diesel</u> fuel oil waste oil <u>kerusene</u> solvents
Monitoring wells on site / Monitoring schedule? Y
Briefly describe the following:
Preliminary Assessment UST Rymoval / Soil Lungtigation 8/13/89
Remedial Action NA
Post Remedial Action Monitoring
Enforcement Action VA
comments: Two USTs, one 250-gallon waste oil tank, and one 500-
gallon garoline / waste oil tank win't removed in June 1991. Two soil gallon garoline / waste oil tank win't removed in June 1991. Two soil samples were collected, one from brusalts the waste oil tank, and one from the east excavation wall of the gosoline tank. The as gasoline from the east excavation wall of the gosoline tank. The as motor oil (as high as toppm), the as dissel (as high as toppm), the as motor oil (as high as toppm), the samples. (A 32 ppm) + 106 (85 to 3 toppm), were identified in these soil samples. (A 52 ppm) + 106 (85 to 3 toppm), were identified in these soil samples. The RP love not I don't think the RP installed any
* hudto submit ULR

1120 Nye Street
Suite 400
San Rafacl, CA 94901
415 457-4964
FAX 415 459-4605

91 SEP 10 Will: 51

September 6, 1991

Dennis Byrne
Alameda County Health Care Services Agency
Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621

Dear Mr. Byrne:

Enclosed, please find a copy of the August 13, 1991 report on the tank removal work at 2855 Cypress.

Please review the report and contact me to discuss the next action.

Sincerely,

Daniel M. Nourse, for

XAN/Bristo

CYPRESS PROPERTY

Enclosure

cc: Rich Robbins

Jeff Allen

white env.health yellow -facility pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200 Oakland, CA 94621 (415) 271-4320

Hazardous Materials Division Inspection Form

Site ID#	Site Name	Today's Date <u>& /<!-- /</u--></u>
Site Address _	28 9	5 Cypress EPA ID#
City	Calcland	Zip 94 607 Phone
MAX Amt. Stored > 500 Hazardous Waste gener	ated per month?	Y N Inspection Categories: I. Haz. Mat/Waste GENERATOR/TRANSPORTER II. Business Plans, Acute Hazardous Materials III. Underground Tanks If the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)
The marked liens repre	Serii Violations C	The Call, Administration Code (CAC) of the result of sciency Code (1886)
1. Waste ID 2. EPA ID 3. > 90 days 4. Label dates 5. Blennial	* 66471 66472 66508 66508 66493	Observed removal of two U6 TS
6. Records 7. Correct 8. Copy sent 9. Exception 10. Copies Rec'd	66492 66484 66492 66484 66492	Obvious holes observed in tank 1 soil sample collected from ilay under tank
11. Treatment 12. On-site Disp. (H.S.&C. 13. Ex Haz. Waste	66371 .) 26189.5 66570	at about 51
14. Communications 15. Alsle Space 16. Local Authority 17. Maintenance 18. Training	67121 67124 67126 67120 67105	2) 500 yalkor gasoline (waste oxl) opurous holer in tanto
19. Prepared 20. Name list 21. Copies 22. Eng. Coord. Ting.	67140 67141 67141 67144	LEL-10% Oz 12% - aunerous holes
	67241 67242 67243 67244 67244 67246 67259 67245 67261	the tank wis wrapped in plastice following remain(One soul sample collected from
I.B TRANSPORTER (Title 22)		pit near gasolline turk at 2 2
32. Applic./Insurance 33. Comp. Cert./CHP Insu 34, Containers	66465	One composite sample was collected of
35. Vehicles 36. EPA ID #s 37. Correct 38. HW Delivery 39. Records	66465 66531 66541 66543 66544	with plaster and back filled with
40. Name/ Covers 41. Recyclables	66800	300 Lakeside
Rev 6/88 Contact: _		
Title:		Inspector:
Signature:		Signature:

5-10-91 Clos. Plan accepted 2 Janks (1 w.o. + 1 gos).

6-21-91 removal of 2 usts. 250 gal w.o. obvious holes 500 gal gas obvious holes 5P sampled.

8-13-91 "UST Removal Report" by HLA.

gas ust: 240 ppm TPH-g

1800 "TPH-d (#7)

W.O. ust: 120 " Of G 3 (#6)
.93 " benz 3 (#6)
.012 " chlorobenz (voc)
.44 " 2-methy/napthalene 3 (succs)
.87 " napthalene
TTLC 65 ppm Cr (\$>10x STLC)

10-15-92 reviewed file. Tel con Chris Rossitto at HLA. \$92-He'll v file + call back re 0821 For status.

10-21-92 X6712 C. Rossitto du

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY DEPARTMENT OF ENVIRONMENTAL HEALTH HAZARDOUS MATERIALS DIVISION 80 SWAN WAY, ROOM 200 OAKLAND, CA 94621 PHONE NO. 415/271-4320

mass. The project proposed herein is now released for issu-Dimensional are to assure compliance with State and local boot health laws. Changes to your plans indicated by this ach and essentially most the requirements of State and Those plans have been reviewed and found to be accord DEPARTMENT OF ENVIRONMENTAL HEALTH 470 - 27th Street, Third Floor Telephone: (415) 874-7237 Dakland, CA 94512

ACCEPTED

SO

One copy of these accepted plans must be on the inh and arms of any required building permits for construction. evaluable to all contractors and craftemen involved with The submitted to this Department and to the Fire and honne or alterations of these plans and specifications is resort the requirements of State and local lewer) Turphision Department to deformine if -- required inspections: this Dispositional at least 48 hours prior to the as apted plans and oil applicable lave sign's to opposite is department on com-LONG ALTHOUGH IN CONTRACTFinal Inspection _Sampling _Removal of Tank and Piping

UNDERGROUND TANK CLOSURE PLAN Complete according to attached instructions

1.	Business Name WAREHAM PROFERTY DEVELOPMENT
	Business Owner Controt: MR. DAN NOURSE
2.	Site Address
	City OAKAMOS CA. zip 94607 Phone 415-457-4964
3.	Mailing Address
	City San Rafael zip 9490/ Phone 415-457-4964
4.	Land Owner WAREHAM PROPERTY DEVELOPMENT
	Address 1120 NYEST. City, State SAN RAFAEL Zip
5.	Generator name under which tank will be manifested
	WAREHAM PROPERTY DEVELOPMENT
	EPA I.D. No. under which tank will be manifested CAC 000582632

1 -

rev 12/90

Project # 1592429 Fee Paid \$ 642 Date 5/3/9/

6.	Contractor DEES EXCAUATION
	Address 8615 LEAFWOOD Citz.
	city Autroct Cq. Phone 415-257-7712
	License Type "A" ID# 613027 WIHH HEZACDOLG SUBSTANIES REVINUAL
7.	Consultant HARDING LAWSON & ASSOCIATES
	Address
	City Nova+0, Ca. 94448 Phone 415-842-0824
8.	Contact Person for Investigation
	Name CARY FERGUS Title PROJECT GEOLOGIST
	Phone 415-894-7331
9.	Number of tanks being closed under this plan
	Length of piping being removed under this plan
	Total number of tanks at facility
10.	State Registered Hazardous Waste Transporters/Facilities (see instructions).
	** Underground tanks are hazardous waste and must be handled ** as hazardous waste
	a) Product/Residual Sludge/Rinsate Transporter
	Name KVS TRANSPORTATION EPA I.D. No. CAD 982495608
	Hauler License No. <u>8946</u> License Exp. Date <u>///30/9/</u>
	Address R.O. Box 5295
	city Bakens Field, CA. state CA. Zip 93388
	b) Product/Residual Sludge/Rinsate Disposal Site
	Name <u>G185000,L</u> EPA I.D. No. <u>CAD 9808831</u> 7
	Address 3121 STANDARD
	city BAKERS FIELD state CA. zip 93305

	c) Tank and Piping Transporter
	Name Exictson, The EPA I.D. No. CAD 009 466392
	Hauler License No. 019 License Exp. Date 2/10/92
	Address 255 PARR BLVD
	city Rchmond State CA. Zip 9480]
	d) Tank and Piping Disposal Site
	Name Exictsion TAC. EPA I.D. No. CAD 009461392
	Address _ 355 FARR BLVD.
	City Richman State (19. Zip 4480)
11.	Experienced Sample Collector
	Name CARY FERGUS
	Company HARDING LAWSON & ASSOCIATES
	Address F.O. Box 578
	City <u>Novato</u> State <u>Ca</u> Zip <u>94948</u> Phone <u>415-899-733</u>
12.	Laboratory
	Name National Environmental Testing
	Address 435 TESCONI CRI
	city Smith Rosa Ca, state Ca. zip 9540/
	State Certification No
13.	Have tanks or pipes leaked in the past? Yes [] No [X]
	If yes, describe.

TANK WILL BE Pumped OF ALL MATERIAL.

75 LBS DZY ICE WILL BE INSERTED INTO EACH TIME

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be plugged.

The Bay Area Air Quality Management District (771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.

15. Tank History and Sampling Information

Ta	nk	Material to	Location and Depth of Samples	
Capacity	Use History (see instructions)	<pre>be sampled (tank contents, soil, ground- water, etc.)</pre>		
250 Gal 350 Gal	Waste Dil TANK Gasoline Tank LEADED & MANKANED TANKS HAVE BEEN OUT OF SERVICIE FOR MORE THAN ZYERRS.	SOIL BENEATH TANK SOIL BENEATH TANK	IFF BELOW SURFACE IFF BELOW SURFACE	

One soil sample must be collected for every 20 feet of piping that is removed. A ground water sample must be collected should any ground water be present in the excavation.

`	Excavated/Stockpiled Soil	
Stockpiled Soil Volume (Estimated)	Sampling Plan	
5 To 8 yos	1 composit Sample	
5 To 8 yos	1 composit Sample	

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

16. Chemical methods and associated detection limits to be used for analyzing samples

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.

Contaminant Sought	EPA, DHS, o Sample Pre Method Numl	paration	EPA, DHS, or Other Analys Method Number	sis Det	ection
Waste and Used or Unknown (All analyses r	Oil Touch the Coil Touch the Coil Touch the Country th	TPH AND BTS TOTAL LEAD TOTAL LEAD TEL DH TEL DH TPH G GG TPH D GG TPH AND BTS D & G 59 TTX&E 86	020 OR 8240 {&E 8260 AA onal HS-LUFT HS-AB1803 CFID(5030) CFID(3550) K&E 8260		
	M F F	CCAP or AA METHOD 8270 PCB* PCP* PNA CREOSOTE	TO DETECT META FOR SOIL	LS: Cd, Cr,	Pb, Zn, 1

* If found, analyze for dibenzofurans (PCBs) or dioxins (PCP)

17. Submit Site Health and Safety Plan (See Instructions)

FitAcked

- 18. Submit Worker's Compensation Certificate copy

 Name of Insurer State Fund # 1243740
- 19. Submit Plot Plan (See Instructions) Affricad
- 20. Enclose Deposit (See Instructions)
- 21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)
- 22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true.

I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

•	
Name (please type) FRO R. BOUREET	
signature	
Date5/3/91	
Signature of Site Owner or Operator	
Name (please type) MARGARET STEWART	
Signature Margaret Stewart	
Date 5-/1/9/	

Signature of Contractor

State of California

Contractors State License Board

Pursuant to Chapter 9 of Division 3 of the Business and Professions Code and the Rules and Regulations of the Contractors State License Board, the Registrar of Contractors does hereby issue this license to:

DEES EXCAVATION



to engage in the business or act in the capacity of a contractor in the following classification(s):

A - General Engineering Contractor HAZ - Hazardous Substances Removal



Witness my hand and seal this day,

March 14, 1991

Issued February 19, 1991

Registrar of Contractor

Signature of Ucensee

gnature of License Qualifier

This license is the property of the Registrar of Contractors, is not transferrable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason. It becomes void if not renewed.

STATE OF CALIFORNIA

STATE AND CONSUMER SERVICES AGENCY CONTRACTORS STATE LICENSE BOARD

Chrydis

Building Quality



HAZARDOUS SUBSTANCES REMOVAL AND REMEDIAL ACTIONS CERTIFICATION

 Pursuant to the provisions of Section 7058.7 of the Business and Professions Code, the Registrar of Contractors does hereby certify that the following qualifying person has successfully completed the hazardous substances removal and remedial actions examination.



Qualifier:

CLIFTON H. DEES

License No.:

613027

Namestyle:

DEES EXCAVATION

WITNESS my hand and official seal this

19TH day of FEBRUARY, 1991

Demo R Pelles.
Registrar of Contractors

13L-36 (7/85)

This certification is the property of the Registrar of Contractors, is not transferable and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason.

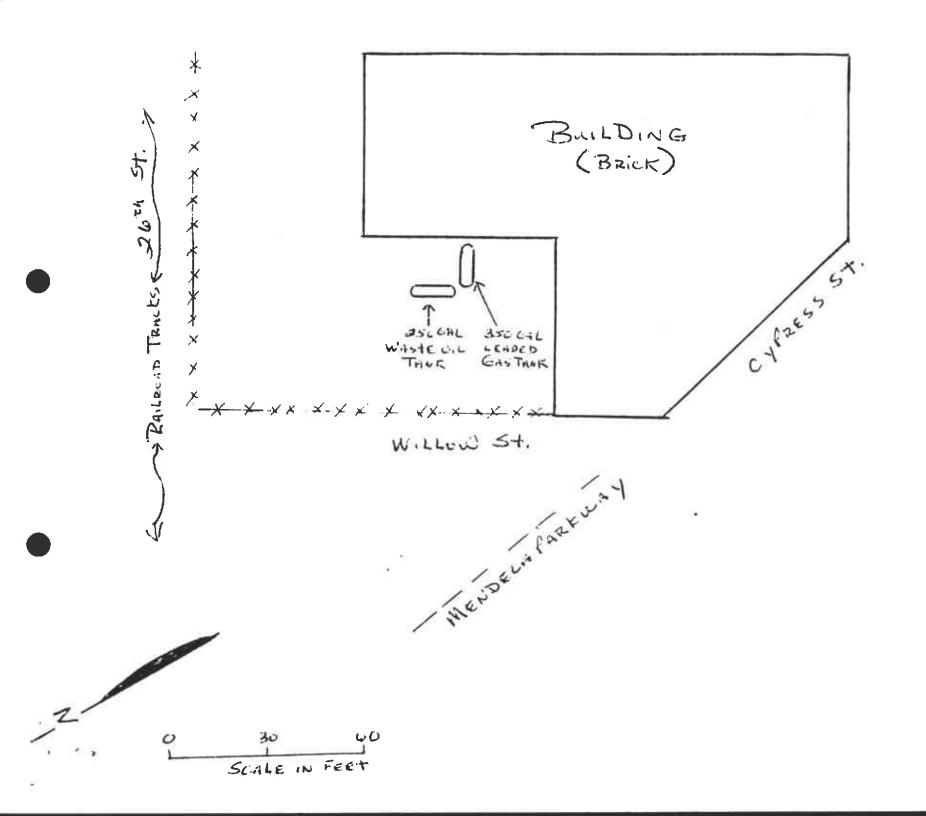
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Cus San



CRIT

STATE OF CAUFORNIA-HEALTH AND WELFARE AGENCY

GEORGE DEUKMEJIAN, GOVE

DEPARTMENT OF HEALTH SERVICES

714/744 P STREET P.O. BOX 942732 SACRAMENTO, CA 94234-7320

(916) 324-2430



*** HAZARDOUS WASTE HAULER REGISTRATION

NAME AND ADDRESS OF REGISTERED HAULER:

KVS Transportation, Inc. P.O. Box 5295 Bakersfield, CA 93388

HAULER REGISTRATION NO: 2946

EXPIRATION DATE: November 30, 1991

THIS IS TO CERTIFY THAT THE FIRM NAMED ABOVE IS DULY REGIS-TERED TO HAUL HAZARDOUS WASTE IN THE STATE OF CALIFORNIA IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 6.5, DIVISION 20 OF THE HEALTH AND SAFETY CODE AND CHAPTER 30, DIVISION 4, TITLE 22 OF THE CALIFORNIA CODE OF REGULATIONS.

THIS REGISTRATION MUST BE CARRIED IN THE VEHICLE USED TO TRANSPORT HAZARDOUS WASTE.

NOV 2 7 1990

(AUTHORIZED SIGNATURE)

(Date)

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P. 93

SEPA

ACKNOWLEDGEMENT OF NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPAILD NUMBER CXD93249E506 RETAIN FOR RECORDS

HORRISON ECUARD 0055695220

K V S TRANSPORTATION INC

P O BOX 5295

5AKERSFIELD CA 93388

IMETALLATION ADDRESS > 3752 ALLEN ED

£AKERSFIELD 95312

EPA Form 8700-12A (4-80)

California State University, Sacramento B.A. PreMed (Human Biology/Chemistry) 1975 Masters Physiology (Pathology/Toxicology) 1978 U.C. Davis, Certificate Hazardous Materials Management 1987 California Registered Environmental Assessor, #00554

Craig Wright has 15 years experience in Chemistry, Toxicology, Hazardous Materials Management and Consulting. His experience includes overall planning, compilation and management of all aspects in the environmental spectrum. His specialties include Regulatory Compliance Consultation, Appraisal and Assessments and Technical Instruction in Hazardous Materials (HAZMAT) handling.

- Mr. Wright compiled and presently instructs 40 hour classes to meet 29 CFR 1910.120 (OSHA)
- * Mr. Wright has currently written a Waste Management Plan for the U.S. Navy Remedial Investigation/Feasibility Study.
- Mr. Wright is responsible for writing an Operations Plan for Mendocino County DHS pesticide remediation.
- Mr. Wright has performed Assessments and wrote Operational Remediation Plans in San Joaquin, Solano, Sacramento and Sonoma Counties.
- Mr. Wright was involved with operations management of 35-45 chemists at a DHS certified laboratory on California Class I TSDF. He was responsible for Hazardous Waste Analyses classifications for 3000+ industrial waste streams (NPDES Discharge Parameters thru Extremely Hazardous Toxicants).
- Mr. Wright was chemical addition treatability supervisor. He was directly responsible for the total peroxidation of reactives, phenolics, amenable pesticides: precipitation and extraction of restricted metals: Acid/Base neutralization; and Incinerator POHG compliance.
- Mr. Wright, as a Regulations Specialist, was responsible for interaction with Agency representatives; EPA, DHS, RWQCB, ARQCB, etc. for client and corporate mitigation. He handled Part B permit applications and innovative technology (TTU) permit applications.
- Mr. Wright, as an Analytical Chemist, has full knowledge of Wet, Organic and Inorganic methodologies according to Water/Wastewater Standard Methods and EPA (SW846) solid waste methods.
- * Mr. Wright was Executive and Technical Recruiter, developing and marketing Industry/Client Interactions specializing in Aerospace composite materials engineering and Environmental Remediation Engineering firms.

CCOIC CERTIFICATE OF INSURANCE 3-12-91 PRODUCER THIS CERTIFICATE IS ISSUED A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. Tolman & Wiker **COMPANIES AFFORDING COVERAGE** P.O. Box 1388 Ventura, CA 93002 COMPANY Lloyds of London/ Lemac LETTER Golden Eagle/ Grey Stone COMPANY LETTER Kern Backhoe Services, Inc. COMPANY C American Home Assurance (AIG) DBA: KBA Manyfacturing LETTER DBA: Kern Environment Service DBA: Kern Vacuum Service COMPANY D LETTER KVS Transportation. Inc. P.O. Box 5337, Bakersfield CA 93388

COVERAGES

THIS IS TO CARTIFY THAT POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS, AND CONDITIONS OF SUCH POLICIES.

COMPANY

-0		Chimnes In the	POLICY EFFECTIVE	POLICY EXPIRATION	LIABILI	TY LIMITS IN 1	HOUSANDS
P	TYPE OF INSURANCE	POLICY NUMBER	DATE (MANODYY)	DATE (MANDOWY)	7	DCCURRENCE	AGGREGATE
A	GENERAL LIABILITY COMPREHENSIVE FORM	*			BODILY	\$	s
	PREMISES/OPERATIONS UNDERGROUND EXPLOSION & COLLAPSE HAZARD	0221	01-31-91	01-31-92	PROPERTY DAMAGE	s	s
	CONTRACTUAL INDEPENDENT CONTRACTORS			BI & PO COMBINED	\$1,000	\$ 1,000	
	BROAD FORM PROPERTY DAMAGE PERSONAL INJURY PRODUCTS CLAIM MAD	Ε			PERSO	NAL INJURY	\$ 1,000
В	AUTOMOBILE LIABILITY ANY AUTO				BOOL: BLUF! (PER PERSON)	s	
	ALL OWNED AUTOS (PRIV PASS) ALL OWNED AUTOS (DTHER THAN)	CCP135673	5673 02-01-91	01-31-92	BCDL * BLEP: PER ACCICENT:	\$	**************************************
	MIRED AUTOS NON-DWNED AUTOS			i	PROPERTY DAMAGE	\$	
-	GARAGE LIABILITY				BI & PD COMBINED	s ^{1,200}	7. j
1	EXCESS LIABILITY UMBRELLA FORM X OTHER THAN UMBRELLA FORM	26562 .	01-31-91	01-31-92	BI & PD COMBINED	\$4,000	\$ 4,000
С	WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY	WC5822132	01-01-91	01-01-92	5	I, OO GEACH A I, UU ODISEASI I, UU ODISEASI	CCIDENT) -POLICY LIMIT)
	OTHER .						

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS Verification of Coverage

CERTIFICATE HOLDER

Dees Excavation 3645 Leafwood Cir Antioch, CA 94509 Attn: Fred Bourret

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EX-PIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL SEE HO OBLIGATION OF LIABILITY OF ANY KIND UPON THE COMPANY, ITS LICENTY OF EXPRESENTATIVES.

SSUE DATE (MM/DD/YY)

HEALTH & SAFETY PLAN SITE SPECIFIC

SITE NAME & ADDRESS:

WAreham Property Development

2855 Cypress **St.**Oakland, Ca. 94607

HEALTH & SAFETY OFFICER:

Craig Wright

Responsible for overall Company Safety.

PROJECT SUPERVISOR:

Cliff Dees

Responsible for implementation of Safety

and Health plan at the job site.

COMMUNICATIONS:

Portable Telephone will be on site

during working hours.

(916-952-1640)

EMERGENCY TELE. NUMBER:

911

Fire Department, Ambulance, Police.

HEALTH HAZARDS:

1. Hydrocarbon Vapors from the Waste Oil and Gasoline tanks. This can occur upon removal of the tank if it has leaked into the soil or is ruptured. (MSDS Sheets Attached) Effects are Irritation to eyes, nose, and throat. Dizziness.

Difficulty in breathing.

2. Explosion

Tanks will be vacuumed free of any liquids prior to excavation. Tank will be rendered inert before final

excavation and removal.

PERSONAL PROTECTIVE EQUIPMENT:

Level D

A. Coveralls (Fire resistant)

B. Boots/ Shoes (Safety or chemical resistant)

C. Safety glasses or safety goggles

D. Gloves

E. 1/2 face air-purifying respirator with organic-cartridge to be kept on job site for possible use if the total vapor reading goes between 0 ppm to 5 ppm above background.

AIR MONITORING:

OVA/OVM for direct reading will be

used to check excavation during project working hours for Hydrocarbons present. If levels go above 5ppm work should cease until level goes down or move to level C protection up to 100 ppm.

BASIC SAFETY:

- A. No eating, drinking, chewing gum, or tobacco, or taking medication is permitted in work area.
 - B. No smoking except in designed areas.
 - C. Wash face and hands before eating, drinking or smoking.
 - D. Fire Extinguisher in work area shall be inspected daily before working.
 - E. All Employees shall be clean shaven around the seal of a respirator.
 - F. Report any unusual physical symptoms to supervisor.

DECONTAMINATION

- A. Equipment will be wiped down with damp rags if contamination is found. Rags will be shipped with contaminated soil to disposal site.
- B. Personal protective equipment will be cleaned or disposed of with waste going to disposal site. This includes cartridges from respirator.

TAILGATE SAFETY MEETING:

ALL PERSONNEL WILL READ THIS SAFETY PLAN AND SIGN IT PRIOR TO STARTING WORK EACH DAY.

SPILL CONTROL/CONTINGENCY PLAN

- 1. Work Included. DH shall develop, implement, maintain, supervise, and be responsible for this spill control plan during work activities.
 - DEEX shall provide methods, means, and facilities required to prevent contamination of soil, water, atmosphere, uncontaminated structures, equipment or material by the discharge of any waste from spills due to UE's operations.

UE shall provide equipment and personnel to perform emergency measures required to contain any spillage and to remove spilled materials and soils or liquids that become contaminated due to spillage. This collected spill material shall be properly containerized and disposed of.

UE shall provide equipment and personnel to perform decontamination measures that may be required to remove spillage from previously uncontaminated structures, equipment, or material. Decontaminated residues must be containerized and disposed of.

- 2. Actions to be taken. If a spill occurs, the following actions shall be taken
 - a) Notify the Company Representative immediately.
 - b) Evaluate the possible hazards to human health or to the environment that may result or take actions described in paragraph e.
 - c) Implement the appropriate containment procedures as specified in Section 3.
 - d) Implement the proper cleanup procedures as described in Sections 3, 4, 6.
 - e) Take immediate measures to control and contain the spill within the site boundries. This shall include the following:
 - Keep unnecessary people away; isolate hazardous area and deny entry.
 - Do not allow anyone to touch spilled material.
 - Stay upwind; keep out of low areas.
 - Allow no flares, smoking, or flames in hazardous area.
 - Keep combustibles or incompatibles away from the spilled material.
 - Other actions as needed.
 - f) Ensure that all personnel involved in spill cleanup are at the appropriate level of personnel protection unless otherwise determined by the dispatcher.

- 3. Small Spill Control Actions. DEES shall implement the following spill control actions:
 - Small dry spills: Shovel contaminated materials into dry containers and cover; label container as to contents and dispose of properly as soon as possible.
 - Small liquid spills: Absorb with noncombustible, nonorganic absorbent material. Place contaminated soil in a container; cover, label, and dispose of properly.
 - Document spill on UE's copy of the daily quality control report or Site Safety Plan and provide to the site Representative at the completion of work.
 - For small spills within the confines of the facility during normal working hours, personnel who are trained in spill cleanup procedures shall immediately contain all free-flowing liquids with "Speedy-Dry", a highly absorbent compound or other product especially designed to absorb and retain the chemicals with which it comes in contact. Special attention shall be given to the possibility of spilled material reaching navigable waters, and appropriate cations, such as sealing off or diking storm drains, will be taken. Following containment, cleanup procedures shall begin commensurate with the type of contaminated surface. The following cleanup techniques shall be used at the facility:
 - Free Flowing Liquid All free-flowing liquid shall be absorbed and removed with "Speedy-Dry" or product suited to absorb on neutralize spill. After the initial application of absorbent is swept, a second application of the absorbent is to be spread over the contaminated surface and swept/brushed with stiff brooms to remove the residue that may remain. All materials and equipment used in the cleanup procedure will either be cleaned for disposal in accordance with established EPA regulations.
 - Contaminated Spoils All contaminated solids shall be removed until there is no visible evidence of contamination. The removed contaminated solids shall be placed in approved containers for disposal in accordance with established EPA regulations.
- 4. Large Spill Control Actions. For large spills, UE shall implement the following actions:
 - On solids, mobilize the front loader to contain and channel spills into appropriate tarped waste hauling bins.
 - ° For liquids, use berms or booms to contain, and then remove liquid using a vacuum truck, or an equivalent device.
 - Document all spills.

- 5. Decontamination Procedures. Decontamination procedures will be required after cleanup to eliminate traces of the substance spilled or to reduce it to an acceptable level. Complete cleanup shall require removal of contaminated liquids and solid waste. Personnel protective equipment, including respirators, safety glasses, hard hats, and gloves shall be decontaminated by appropriate cleaning methods. Washing facilities shall be provided for personal decontamination. All contaminated materials including disposable clothing, solvents, cloth, soil, wood, etc., that cannot be decontaminated will be containerized, labeled, and disposed of properly. All wastes will be disposed of.
- 6. Spill Report. DEES or its on-site representative will file a written report. For spills which migrate off-site, a spill report must be filed with the California Department of Health Services, State Water Resources Control Board, or the Environmental Protection Agency. The National Response Center should also be notified by telephone immediately.

Addresses:

California Department of Health Services Northern California Section Toxic Substances Control Division 4250 Power Inn Road Sacramento, California 95826

State Water Resources Control Board Paul R. Bonderson Building 901 P Street P.O. Box 100 Sacramento, California 95801

Environmental Protection Agency Region IX 215 Fremont Street San Francisco, California 94105

Telephone Numbers:

National Response Center 800-424-8802

California Office of Emergency Response 800-852-7550

The report shall consist of the following information:

- Name of the facility
- Name of the owner or operator of the facility
- Location of the facility
- ° Date of the spill incident
- Quantities and types of material in spill

- Description of the facility including maps, flow diagrams, and topographical maps
- o The cause(s) of such spill including a failure of system or subsystem in which the failure occurred
- The correcting actions and/or countermeasures taken including an adequate description of equipment repairs and/or replacement
- Additional preventative measures taken or considered to minimize the possibility of recurrence

EMERGENCY RESPONSE

The following are typical features of **pe**E's emergency response plan which will be utilized to minimize or eliminate possible hazards or releases from potentially dangerous scenarios.

- 1. General Emergency Procedures. In case of an emergency or hazardous situation as described in these sections, the team member that observes this condition shall immediately give the alarm or take other appropriate measures.
 - 1. All unnecessary communications will cease and the member giving the alarm will proceed to give the foreman and/or the dispatcher all pertinent information.
 - 2. Actions to be taken will be dictated by the emergency.
 - 3. Power equipment will be shut down and operators will stand by for instruction.
 - 4. Injured personnel will be processed to the Personnel Decontamination Trailer (PDT) (Reference 3).
 - 5. In case of fire, explosion or hazard alarm, individuals will proceed immediately to assigned contingency stations or predesignated safe sites.
 - 6. Upon arrival at safe site, a complete head count will be given to the Project Supervisor and individuals at the safe site will stay until the area is secured.
 - 7. The foreman will act as the on-scene coordinator for emergencies occuring during normal working hours.
- 2. Site Emergency Warning System. Several warning systems may be utilized depending on the worksite conditions or emergency involved.
 - 1. Verbal communications.
 - 2. Radio communications.

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- 3. Verbal communications assisted with a bull horn.
- Portable hand-held compressed gas horns.

Radio communications are used on site to give instructions and directions. Emergency radio communications are prefixed, and have priority over operational communications. Horn signals are used to signify an emergency warning.

One long blast is used on-site to signify emergency evacuation of the immediate work area to a predetermined location upwind, where a head count will be taken and further information given.

Repeated short blasts are used to signify evacuation of all personnel from the site to a predetermined location upwind where further instructions will be given after a head count is taken.

3. Personal Injury.

- 1. If an injury occurs, the foreman or dispatcher will be immediately notified. All injuries will be reported. Any injury which requires hospitalization must be reported to Cal-OSHA.
- 2. The foreman or dispatcher will be given all pertinent information concerning the nature of the injury so that treatment preparations and/or medical attention can be initiated. The cause of the injury will also be reported, or determined, so necessary changes in work procedures can be implemented.
- 3. The injured person will be transported, when appropriate, to the Personnel Decontamination Trailer where decontamination and first aid treatment can begin.
- 4. If the injured person is unable to be moved due to the nature or extent of injury then medical attention will be directed to the injured. Contamination of responding personnel and equipment will be minimized and decontaminated when necessary.
- 5. When an injury requires medical attention, the closest clinic shall be notified. When necessary, the injured party will be transferred to a private ambulance service and taken to a local hospital.

4. Fire Suppression.

- 1. The potential for fire will be minimized be eliminating fire hazards.
- 2. Dry chemical fire extinguishers and the Urea or Alcohol foam kits will be used to suppress fires at the earliest stage. This will be determined by the type of chemical involved.

Watery Stade Sweet edu Carrenan Byneryma 1,1,1-Trichtprestrane Mathylchicrotem Aerotrana Charotrana Sings in water, britishing water is produced. Stop decharge if posedite. Keep people every Aread contact with liquid and vapor Call fire department. Includes and remove decharged material legify local health and pollution control agencies. COMBUSTAN. POISONOUS GASES ARE PRODUCED IN FIRE. Weer googles and self-contented breeffing apparatus Extrapalish with any observation particip discusse, or form: Fire CALL FOR MEDICAL AID WAPOR Intuing to eyes, nose and finant. If inneed, sell course depress or difficult brestring Exposure Removes conservatively distring and shoes.
Flush effected areas with plenty all water.
Flush is REST, hold eyelds open and flush with plenty of water.
If NETES, hold eyelds open and flush with plenty of water.
If SMALLOWED and victim a CONSCIOUS, have victim stress water or mits and hors victim chalce commonly.
If SMALLOWED and victim is NECONSCIOUS. On HAYING CONVIUS-NOS, on notiming second heap victim return. Effect of the compensations on equatic the is unknown, they be designated if it enters were trained Water Pollution Hottly local health and withthe officials Notify operators of nearby water Flakes L RESPONSE TO DISCHARGE 2 WELL (See Response Methods Handbook) 2.1 Category: Hone 2.2 Class Not perform Should be removed Character and physical treatment 4. DESERVABLE CHARACTERISTICS I CHEMICAL DESIGNATIONS A.1 Physical State (as phipped): Limit £1 CG Competitity Class Halogeness 42 Color Colores 8.5 Fermula Oti-COI: 8.5 BEO/UK Designation: Not belod 4.5 Oder, Odoroby-Say, prosteri LE DOT ID top: 2021 8.5 CAS Registry No.: 7146-6 & HEALTH NAZAROS 8.1 Paraenal Productive Equipment: Organic vapor exid gas continut, edi-contained theoring apparels, for emergencias, necessing or poly-enjodest-pick-gas gloves; sharrical labels gagging and lose shadt, necessars askey shoes (or headers salety shoes plus excurrent distribution); necessars or polyrent accords that or opini for opinish productor(6.2 Bymptone February Expressive MANLATON: symptoms mayo from loss of equilibrium and Proceduration to loss of schedolourists, high concentration can be feld file to prophil appropriation combined with loss of correspondents. PIGESTICH, produces effects emiliar to syndroton and may cause some teeling of neuros. ETES, eightly intering and lastry-wiskly. EURI, defetting action may device demands. mure: Out medical enumers for all ayo exposures and any diffe 1.3 Transment of Expressive Dat medical enumers for all aye exposures and sity offer soften enumers. Do NOT administer administry expressive, enumers is sympto. DOLLATION remove within to bresh at; I recessary, apply artificial respirators and/or downster engan. Indication have store that was not make sending. Eres such purposity with water. SKR: remove containwated disting and wash exposed one forms with spop and worth court Ed. Thyushand Liveli Vehics 250 ppm 84 Short Torra Inhabition Limite: 1,000 ppm for 60 min, in man 8.8 Teachy by ingestion Grade 1; Libra is 5 to 15 g/liq (set, mount, milot, guines ph); 6.7 Late Teachy: Date not evaluable 6.8 Vapor (Gee) britant Characteristics. Vapors cause a slight presting of the eyes or respiratory system if present in high concentrations. The effect is sumporery. E.S. Liquid or Soul Entired Characteristics: Minimum Report, If uplied on disting and aboved in number, may could browning and recounting all the state.

5.18 Open Throutest 100 ppm. 6.11 (DLH Yele: 1,000 ppm

6. FIRE MAZARDS 6.1 Plant Public Data not available 6.2 Plant-make Data not available 6.2 Plant-make Limits in Air: TH-16% 6.3 Five Extinguishing Agentec Cry shareful, bean, or evolves discrete for shareful, bean, or evolves discrete for the be Wheelt Hearnich of Combustion Productic Tests and Inheling gases are generated in free. 6.8 Beatwing in Five, Not pertinent 6.7 Ignition Temperature: EXFF 6.6 Electrical Hearnic Not pertinent 6.7 Beatwing Rable (sot) 2.8 mon/mn. 6.10 Beatman Rable (sot) 2.8 mon/mn. 6.10 Beatman Flamm Temperature: Data not consisted 6.12 Plants Temperature: Data not evaluable 7. CHEMICAL REACTIVITY 7.1 Researchy With Wester Reacts storily, releasing accreases Psychochloric acid. 7.2 Reactivity with Common Meantain: Company objects for Assists and Company During Transpart Stable 7.4 Researchy Suring Has partners 7.5 Stables of Paymentester: 1.6 Paymentesting Has partners 7.7 Motor Ratio States and contents Productly During Transpart Stable 7.7 Motor Ratio States not evaluate Productly Case not evaluate 7.8 Stables of Paymentester: 10.1 Motor Ratio States and Paymentesting During Tests 7.3 States Ratio States and Productly During Tests of evaluation 7.3 States Ratio States and constitute Productly During Tests of evaluation 7.3 States Ratio States and constitute Productly During Tests of evaluation 7.3 States Ratio States and constitute Productly During Tests 7.3 States Ratio States States 7.4 States Ratio States States 7.5 States Ratio States States 7.7 Motor Ratio States States 7.8 States Ratio States 8.7 States Ratio States 8.7 States Ratio States 8.7 States Ratio States 8.7 States Ratio	H. HAZARD ASSESSMERT CODE (Res Hearet Assessment Hendbresk) A-X-Y St. HAZARD CLASSIFICATIONS St.1 Gode of Prolongl Regulations: CRAMA FL2 MAS Hearet Reding for Suft Woter Transpartation: Gottagery Reting Fro
8. WATER POLLUTION 6.1 Aquate Teachty: 76-150 ppm?/spides/TL_/sail outer "Time period not specified. 6.2 Westerious Teachty: Date not smallele 6.3 Period not specified. 6.4 Peed Chain Communitation Potential: Hone 8. EMIPPING INFORMATION 9.1 Grustes of Parity: Unividential; Inhibited, Industrial Industrial wide mon., cold desiring 6.3 Starage Temperature; Ambient 6.4 Vanding France-viscosite	12. PRESIDAL AND CREMICAL PROPERTIES 12.1 Prepared State at 15°C and 1 airc Liquid 12.2 Retreater Weapin; 133 41 12.3 Retirent Weapin; 133 41 12.4 Preceding Paint at 1 other 165°F = 2°C = 34°TK 12.5 Critical Processors; Not permanel 12.5 Critical Temperature; Not permanel 12.7 Specific Structure 12.9 Liquid Survivo Templor 12.1 Liquid Survivo Templor 12.1 Liquid Survivo Templor 12.2 Liquid Water Interviolal Templor at 20°C 12.9 Liquid Water Interviolal Templor at 20°C 12.10 Liquid Water Interviolal Templor (Smil) 12.11 Latern; Head of Vaportication: 10.0 Survivo = 50 cally = 2°C at 10°C Jrig 12.12 Latern; Head of Vaportication: 10.0 Survivo = 50 cally = 2°C at 10°C Jrig 12.14 Head of Combination; (set) 4700 Survivo = 20°C cally = 10°C Jrig 12.14 Head of Combination; (set) 4700 Survivo = 20°C call of 2°C permanenter; Not performed the discount of Decemporation; Not performed the 12.16 Head of Survivo Color of survivori 12.18 Liveling Value Date not residence 12.27 Reld Vapor Processor; 4.0 pain
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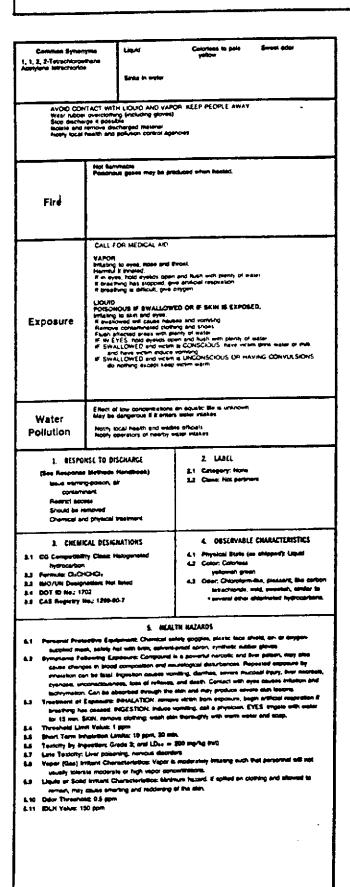
Самила Вуполуни لفطا Colorina Odorines & FIRE HAZARDS M. MAZARO ASSESSMENT COOF F-11, Freen 11 Genetron 11 8.1 Flash Point; Hot Remmebia 8.2 Flammable Umits In Air; Hot Remmable Got Native Assessment Heads Generon 1: Arcton & Success 11; Eskimen 11 Engen 11 Impron 11; Unpri 11 A-C-4-I Street in water, Harmful vapor is produced. Bolling point is 75°F. Fire Extinguishing Agents: Hot partners 6.4 Fire Extinguishing Agents Not to be Stop decharge if penaltie. Keep people twey Avoid contact with liquid teclate and remove decharged material Hapty local health and pollution control agencies. 4.4 Boardel Harrydo of Combustion II. HAZARD CLASSIFICATIONS Products: Produces Intelling and losis 11.1 Code of Federal Regulations: Street, of the feeting to the His Stand 11.2 IAS Hazard Russing for Bull, Water Transportstone Data and available Cohester In First Nat partinent Spritten Temperature: Not Same Electrical Hassing: Not pertrent 16.3 NFPA Honord Classifications . Not Reminible. POSCHOUS GASES MAY BE PRODUCED IN FIRE. Burring Rate: Not Reven Date out and and 414 Adabatic Flame Temperature: -Q.11 Statehoments Air to Post Reduc Fire A.12 Phone Toron where: Date not evadable CALL FOR MEDICAL AID J. CHEMICAL MEACTIVITY YAPOR If Inhaled, will cause discress or difficult breathing 7.1 Reactivity With Water, No reaction 7.3 Reactivity with Consumm Materials: No More to heat as. It branting has Mopped, give artificial respiration. It breating to difficult, give paygen. reaction
7.3 Stability During Transport: Stability LIQUID And Narmayi. -rirellaing Agents for Aside and Courties: Not pertinent 7.5 Polymortration: Not partners 7.6 Inhibitor of Polymortasians Exposure 7.7 Motor Ratio (Rescript) to Products Data not avail 7.8 Reactivity Group: Date not evaluate 12. PHYSICAL AND CHEMICAL PROPERTIES 12.1 Physical State of 16°C and 1 atom Not harmful to equatic blo. May be dangerous if it arrians water insules. Date not events Water 12.3 Biotecular Weight: Date not evaluate 12.3 Belling Point al 1 etts; Date not evalu Notify local health and elidite afficials hotify operators of nearby water implies Pollution 12.4 Pressing Point: Care not evaluate
12.5 Critical Temperature: Data not evalu 12.6 Officed Property: Date and available 1. RESPONSE TO DISCHARGE 2 LABEL & WATER POLLUTION 122 Specific Gravity: Date not evaluate 2.1 Cetegory: Nove 3.2 Case: Not persons Liquid Burboo Yanaian; Data not and Liquid Water Interferial Tension; (See Response Methode Handbook) 6.1 Amortic Ventrality: 12.5 8.2 Waterfeel Testolly: None 8.3 Stategical Oxygen Demand (800): Date not products Chamical and physical treatment 12.10 Yaper (Gas) Specific Gravity: None Onto real everlance &4 Food Chain Cons -trailon Pale 13.11 State of Specific Heats of Yapar (Gas): Code and markets None 12.12 Latert Heat of Vaportuntors 1 ENEMICAL BESIGNATIONS 4. OBSERVABLE CHARACTERISTICS Date out available 12.13 Heat of Combustion Date not evalu 3.1 CG Competibility Class Not leted 3.3 Formula: CFCs 4.1 Physical State (so phipped): Liquid 12.14 Heat of Decomposition: Not paramet. 12.16 Heat of Balubars Not paramet. 2.3 BAC/URI Deplementary, Not Reted 4.5 Oder Ottofers west strommed severs 13.16 Heat of Polymertanties: Not parting 12.26 Heat of Fusion: Date not evaluate 12.26 Elimberg Value: Date not evaluate 1.4 DOT & Hou Date for evaluate 3.5 CAS Regardy Ho.: 75-60-4 12.27 Rold Vapor Prosesty: Date Act on S. WEALTH HAZARDS 9. SHIPPING INFORMATION 6.1 Personal Protective Equipment: At the respirator, rubber gloves; monographis
6.2 Symptoms Fellowing Exposure: Breating concentrations approaching 10% in air off cause
dizzness and discrements. Contact with depute may cause freshilds. ndes of Purity: Todale 8.5 Storage Temperature: Ambient 9.5 Intel Atmosphere; No requirem 9.4 Venting: Baloty rated erakcul respiraten if breatury has propped, cull a physician immediately, oxygen triu he unknot. SKIN I translate has accounted, flush areas with warm exten-Throntone Lines Value: 1000 ppm Short Years Inhalation Limits: Date not exalt 44 Testohy by Inquestion: Data not available Late Testoffy: Date not everlable 4.7 Vapor (Cas) Britant Characteristics: Non-Intelling 5.9 Usual or Boile Intern Characteristics May muse fruitite. Oder Threshold: Data hall evaluable E. 11 EDLH Value: Data not available BOTES

M. RAZARD ASSESSMENT CODE

TETRACHLOROETHANE

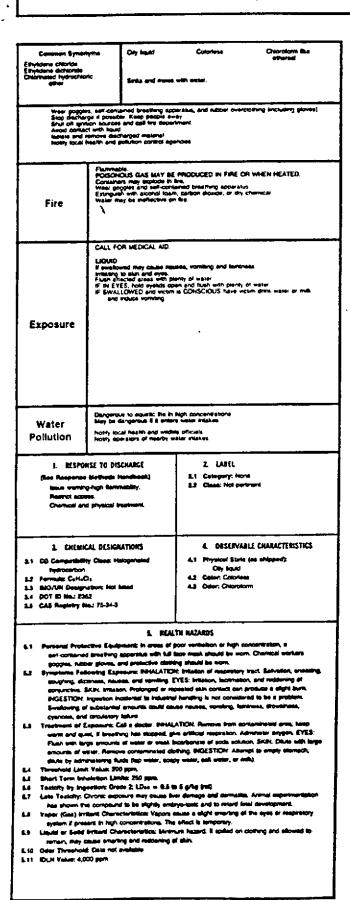
& FIRE MAZAROS





E.1 Flooh Point: Not flammable 6.2 Planneable Limits in Air; Not flammable 6.8 Pine Estinguishing Agents: Not perform 6.4 Pine Estinguishing Agents Not is in 6.6 Not perform 6.2 Special Reserves of Cambustion	A-X LL HAZARD CLASSIFICATIONS
Products: Vesting hydrogen criterion oppor only form in five. 6.8 Senevice in Fruc Done not evaluate 6.7 Synthem Temperature. Not partition 6.8 Senevice in Anguet Not partition 6.8 Senevice Heavest Not perfect 6.9 Senevice Heavest Not perfect 6.10 Adoptorio Plane Temperature. Date not evaluate 6.11 Senevice Factor Temperature. Date not evaluate 6.12 Plane Temperature. Date not evaluate 6.12 Plane Temperature. Date not evaluate 6.12 Plane Temperature. Date not evaluate	SL. BUZNET CLASS RATIONS 1.1 Gods of Federal Requisitors: CRM-A 1.2 RAS Massed Reting for Sult Weter Transportation: Not based 1.2 SMFA Numeral Consultation: Stol Stand
7. CHEMICAL REACTIVITY 7.1 Reservely With Water, No reaction 7.2 Reservely with Common Materials May attack some forms of plastics 7.5 Stadiety During Transport: Stable 7.6 Healthing Agents for Antila and Countains Agents for Antila and Countains Agents for Antila and Countains Agents for Antila and Polymortastics: Not perform 7.5 Polymortastics: Not perform 7.6 Inhalts of Polymortastics Not perform 7.7 Stater Ratio (Neccuri to Products; Cola not available 7.6 Reservely Ordans: 36	
E. WATER POLLUTION 8.1 Aquatic Testicity; Data not evaluable 8.2 Waterfood Testicity; Data not evaluable 8.3 Biologicus Oxygen Domand (BCO); Data not evaluable 8.4 Food Chain Concentration Potentiat Data not evaluable	22 PRITICAL AND ENCHICAL PROPERTIES \$1.1 Physical State at 15°C and 1 atm: Liquid \$2.3 Maintender Weapon: 157.85 \$2.3 Seating Point at 1 atm: 204.27° = 144.3°C = 418.3°K \$2.4 Presenting Point:
9. SHIPPING INFORMATION 9.1 Gradum of Purity: Typhrocal, 98 % 9.2 Shorege Temperature, Ambient 9.3 Shari Altranspherus No require/Mail 9.4 Verifleg: Open	12.00 at 25°C 12.12 Labout Neet of Vaportardion: 88.2 Bar/b = 8.5 of/g = 2.0 K 10° A/bg 12.13 Stoot of Combustion: Not partition: 12.14 Stoot of Pulymortartian: Not partition: 12.15 Stoot of Pulymortartian: Not partition: 12.16 Stoot of Pulymortartian: Not partition: 12.18 Landing Value: Colo not evaluable 12.19 Rodd Vapor Processor: 8.5 pain.
au or	ng .

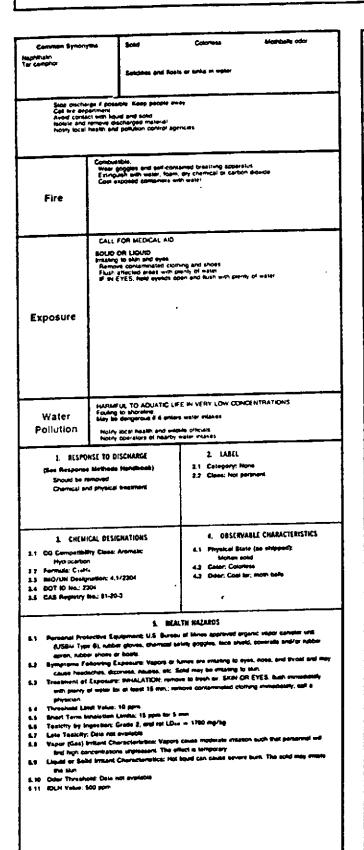
1,1-DICHLOROETHANE



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E. FINE HAZAROS	M. NAZAKO ASSESSMENT CODE
4.1 Floor Point 57°F O.C. = 22°F C.C. 4.2 Paramable Limits in Air; \$4% to 11.4%	(Bos Heard Assessment Handbook) A-P-Q-R-S
6.3 Pivo Estinguishing Aponius Abstrol form, mater, form, COs, dry chamical, eartern	
Extractional E.A. Fire Extrapolating Agents Not to be	IL NAZARO CLASSIFICATIONS
Used: Water may be traffective 6.5 Special Hazards of Combustion	11.1 Gade of Pederal Regulations: Not hand
Products: When hasted to decumposition ends highly tout: furnes to phaseons.	11.3 MAS Happerd Raving for Sult Webs- Transportation: Not Asset
6.5 Behavior in Pire; Explosion Insterd 6.7 Ignition Temperature: 656°F	11.3 NFPA Hagard Classification:
6.6 Electrical Hazard: Data dest profesión 6.6 Burning Resp: Cota ses profesión	Cartegory Checuffortion Health Hepard (Blue) 2
6.10 Adiabatic Flame Temperature: Date not evaluble	Physiology (Fact)
6.11 Statetermetric Air to Fund Radio: Corta met avadable	
6.12 Plama Temperature: Data not evaluable	
7. CHEMICAL BEACTIVITY	
7.1 Reactivity With Water: No resident 7.2 Reactivity with Common Meterials: Date	
est archible	
7.3 Statelly During Trunsport Data not greatable	
7.4 boutestaing Agents for Anhits and Counties: Data not available	
7,6 Polymerization: Data not evaluate 7,6 Inhibitor of Polymerization: latin	
Oste not available 7.7 Maler Ratio (Reactant to	
Product: Data not evaluable 1.8 Reactivity Group: 36	
	7
	32. PHYSICAL AND CHEMICAL PROPERTIES 12.1 Physical State at 18°C and 1 stric
	Liquid 13.3 Maiorador Wolghić 95.87
1	12.3 Bolling Point at 1 atm: 135,14°F = \$7,3°C = 230.5°K
	12.4 Freezing Point: —141.32°F w —07.4°C = 175.75°K
8. WATER POLLUTION 8.1 Adjustic Testicity:	12.5 Critical Temperature: 802.77 = 201.5°C = \$34.85°K
TL_ (Marke propertity 250 to 275 mg/l	12.6 Critical Procesure: 734.6 pale = 60 pars = 6.065 NRV/m²
24-hour TL, Brine stving: \$20 mg/l 24-hour TL, Pinparah: 180 mg/l	S2.7 Speakle Gravity:
6.3 Waterfurd Touletty: Date not available 6.3 Sinlogical Caygon Dumand (800):	1.174 at 20°C 12.4 (Japail Burlion Tenniors
Percent, 0.05 g/g for 10 days Percent, 0.002 g/g for 6 days	84.76 dynas/grs = 0.02475 N/m st 80°C
8.4 Food Chain Consentration Potential: Date not evaluate	12.0 Unjuh Water Interfecial Terrature Cuin cut irrefects
	13.10 Yeper (Ges) Specific Gravity: 3.42 12.11 Rollo of Specific Heats of Yaper (Ges):
•	1,130 at 20°C (66°F) 12,13 Latent Hast of Vaportantiers:
]	121.5 Bb/B = 73.1 cm/g = 2.00 X 101 J/M
	12.12 Next of Combuston:4,774 \$6/6 - 2,862 cs/g = -111 2 10* 3/46
E. SHIPPING INFORMATION	12.14 Heat of Decempositions Date not evaluate
9.1 Grades of Purity: Date not evolute 9.2 Storage Temperature: Corol	12.15 Heal of Balubers Date not evaluate 12.16 Heal of Polymerization: Date not evaluate
9.3 (mort Almosphore: Date red evaluates 9.4 Venting: Date red evaluates	S1.50 Heat of Funiors Data not available S1.50 Limiting Values Data not available
į.	12,57 Rotal Yaper Processes 7.25 proc
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1000	
ω.	
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NAPHTHALENE



E. FIRE NAZAROS	M MAZAND ASSESSMENT CODE
6.1 Florin Point: 174'F C.C.; 190'F D.C. 6.3 Florinable Limits in Air: 0.8'4-6.8'4	(Ree Hazard Assessment Handbook)
6.3 Fire Extengulating Agents: Water log.	च्या २४ -च्या वर्ष
carbon doxide, dry chemical, or loath e.d. Fire Explosioning Agents Not to be	
Used: Not pertinent	11. NAZARO CLASSIFICATIONS
6.5 Special Hexards of Combustion Products: Tools report great off in a fee.	EL1 Cade of Federal Regulations: CRM-A
8.6 Behavior in First Not pertneral 8.7 Ignition Temperature: 879°F	11.2 MAS Hupard Rating for Bulk Water
6.8 Electrical Hammel: Hol personnt	Transportstion: Category Rating
6.9 Burning Rate: 4.2 mm/mm. 6.10 Adiobatic Ruma Temperature:	Free 1
Data not available 6.11 Bioicteometric Air to Fuel Retio:	Vapor Imlani 2
Date sept granishis	Liquid or Solid Instant
6.12 Fluma Yemperature: Data net evaletie	Well Polyhon
!	Agustic Torson
A AMELICAN STATEMENT	Assthatic Effect
7. CHEMICAL REACTIVITY 2.1 Reactivity With Water; Mollen	Other Characters
paphillulaine apatters and forms in	Water 0
agreet with water. His chartical reaction is smoked.	113 MFPA Natural Classification:
7.3 Reactivity with Common Materials: Hore	Health Hestard (Blue) 2
7.3 Stability During Transport: Stable 7.4 Housewitzing Agenda for Acide and	Recovery (Yellow) 0
Caustics: Not partners 7.6 Paymerisation: Not perform	
7,5 Inhibitor of Polymerbation:	l
Not pertner! 7,7 Motor Ratin (Resciont to	1
Products: Data not evadable	
7.0 Rescribity Group: 32	12 PHYSICAL AND CHEMICAL PROPERTIES
	12.1 Physical State at 15°C and 1 atms
	Sold 19.3 Material Weight: 126 16
	12.3 Beiling Point at 1 stm:
1	424'F = 218'C = 491'K 12.4 Freezing Point
a. WATER POLLUTION	178.4°F = 80.3°C = 353.4°K
8.1 Aquatic Toulcity:	667,4°F = 475,2°C = 748.4°K
150 mg/L/85 tr/sunlish/TL_/front-	12.6 Critical Procesure: 100 pais = 40.0 ptm = 4.05 MH/m ²
1.8 ppns/72 tr/fingering	12.7 Apocitic Gravity: 1,145 at 20°C (solid)
spiropriettell soll weller 8.2 Waterfewl Toulety: Data not available	92.6 Liquid Burlace Tension:
8.5 Biological Caygon Domand (BCC):	31,8 dynas/cm = 0.0318 N/m at 100°C 32.6 Eliquid Water Interfacial Terrators:
(theor.) 58.5%, 6 days 8.4 Feed Chain Concentration Potential:	Date not evaluation
None	12.10 Vapor (Gas) Specific Grovity: Not pertners
	12.11 Ratio of Specific Heats of Vapor (Gent:
l	12.12 Lateral Head of Vaportzellors
l	145 Bhi/fb = 80.7 cal/g = 3.38 X 10* i/fbg
	12.13 Heat of Combustion:16.720 Stu/fo a:8267 cal/g =266.6 X 101 J/lig
IL SHIPPING INFORMATION	12.14 Head of Decomposition: Not personn
S.1 Grades of Purity: Pure, crude 95% Pure: mp = 126°F Crude: mp = 165176°F	12.15 Head of Bolyston: NCK pertrops 12.16 Head of Polymorta/Bon: NSI pertrops
8.2 Elorage Temperature: Elevated	12.25 Heat of Funiors 25.06 cal/g
9.3 Inert Atmosphere: No requirement 9.4 Venting Open (Seine arreste) or	12.26 Limiting Value: Date not available 12.27 Rold Vapor Proposes: Low
herrancon.	1
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DIBUTYL PHTHALATE

Common Syre Day Buryi phihalasa	1	1	Cotorne	Odorines	
Buryl phthalete Prohaic acid, dibutyl RC Passictor DSP Witcher 200	Sireta etc	oly in septer.			
Stop decharge if poseble Call fire expartment lecture and remove decharged meterial feety local health and poliution control agencies					
Fire	Compusitions. Extensions with dry of	بالمستريا, الهوا	n, er cerbon di oxida		
Exposure	EJQUID No appreciable harm	•			
Water Pollution	Congerous to aquatic Fouring to shoreline May be dengarous if it hostly local health an hostly operators at he	d polition co	ntrol officers		
I. RESPONSE TO BISCHARGE Goe Response Methods Handbook) Machandol (containment Should to removed Chemical and physical treatment			ni.		
3. EMEMIC 3.1 CQ Computation 3.2 Fermula: O-Call 3.8 MO/All Designs 3.4 DOT 40 Mg; 809 3.4 CAS Registry No	- CCC(C34e)+C34a]+ History Nept Bates S	يه	Physical State (es Color: Colorless Odor: Signs chara	CHARACTERISTICS chapping Liquid commit: enter ador; milt; commit; enter ador; milt; cidgrilly aromatic	
E. REALTH MAZAROS 8.1 Parsanal Protective Equipment: Eye presents. 8.2 Symptoms Enlawing Exponent: Vapor from very flot meteral may inter eyes and produce headerle, drawnings, and connections. 8.3 Treatment of Exponents Remove to treat at. Wash effected thin areas with water. Flush eyes with vater. 8.4 Treatment Limit Value: 6 mg/m? 8.5 Shart Turn Interesting Limits: Not partitions. 8.4 Testify by Ingention: Grade 1; Libes = 8 to 15 g/kg (red) 8.5 Late Testify; Berton Characteristics: Not permant. 8.6 Vapor (flus): Stront Characteristics: Not permant. 8.8 Vapor (flus): Stront Characteristics: Not permant. 8.9 Light or Sold interest Characteristics: Not permant. 8.10 Light or Sold interest Characteristics: Not permant. 8.11 Distributed: Data not evaluate. 8.11 Distributed: 8.200 imp/m²					

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6. FRE HAZARDS 8.1 Planth Point; 356°F O.C.; 315°F G.C. 9.3 Printensite Limits in Air O.S. 2.5°S. gainstated; 8.3 Fire Estimpointing Agents Dry pointer, certon disolds, foam. 8.4 Pre Estimpointing Agents Not to be thest Wester or fairs may make letting. 8.5 Repealed Hearards of Combustion. Productic Hot performed. 8.1 September 16 Fire Interpretate. 8.2 System Temperature: 75°F 8.3 Electrical Hearard Hot performed. 8.1 Shadded Hearard Hot performed. 8.1 Shadded Flame Temperature: Date not available. 8.15 State of a fire Fuel Ratio: Date not available. 8.15 Flame Temperature: Date not available. 8.16 Flame Temperature: Date not available. 8.17 Receivity With Water No reaction. 9.2 State of the Fuel Ratio: No country of the Institution of the Country of the Country of the Institution of the Country of the Institution of the Propagation: 1.5 Pulymertaniae: Act perform. 1.6 Pulymertaniae: Act performed. 1.7 Institution of Polymertaniae. 1.8 State Ratio (Reaction to Product): Date not available. 1.8 Sentitity Group: 34	11.1 Only of Polared Regulature: Not laised 11.2 MAB Heaterd Parting for Bull: Water Contepory Austing Fin
E. WATER POLLITION 8.1 Aqualit Teachty: 1230 spin/24 fn/basgli/TL_/fresh estat 8.2 Wratefeel Teachty: LCas > 8000 spin 8.3 Belogical Orygen Damand (BOD): 0.435/Es. 6 days 8.4 Facel Chain Concentration Parameter. None 8. SHIPPING (REORIGATION 8.1 Grades of Party; 98.0% 9.2 Stumps Temperature: Date not available 9.3 bond Almosphare: Date not available 9.4 Ventrug: Date not available 9.4	12. PHYSICAL AND CHEMICAL PROPERTIES 12.1 Empirical State at MCC and 1 aren: Liquid 12.2 Medicales Weight: 270.35 12.3 Seeling Paint at 1 after 30.27 m 30.27 m 30.07 K 12.4 Freezing Paint: 30.27 m 30.27 m 20.07 K 12.5 Credit Properties 12.6 Critical Propesarie: 30.0 pain = 17 pain = 1.7 MeV/m² 12.7 Speeling Greening: 12.8 Liquid Serving: 12.9 Liquid Serving: 12.9 Liquid Serving: 12.9 Liquid Serving: 12.10 Vapor (See) Speeling Greening: 12.11 Seale of Speeling Serving: 12.12 Liquid Serving: 12.13 Latent Heat of Vaportamber: 12.14 Seale of Speeling Messes of Vapor (See): 12.15 Liquid Heat of Vaportamber: 12.16 Mess of Combination: 12.17 Mess of Combination: 12.18 Heat of Department Not perform 12.19 Heat of Department Not perform 12.19 Heat of Perform Not perform 12.19 Heat of Perform Not perform 12.19 Heat of Perform not evaluate 12.20 Liquid Whope Properties not evaluate 12.21 Heat of Perform not evaluate 12.22 Liquid Whope Properties 12.23 Liquid Perform not evaluate 12.24 Read Perform Not perform to evaluate 12.25 Read Vapor Properties 12.27 Read Vapor Properties 12.27 Read Vapor Properties 12.28 Liquid Vapor Properties 12.29 Liquid Vapor Properties 12.20 Liquid Vapor Properties 12.21 Liquid Vapor Properties 12.22 Liquid Vapor Properties 12.23 Liquid Vapor Properties 12.24 Liquid Vapor Properties 12.25 Liquid Vapor Properties 12.26 Liquid Vapor Properties 12.27 Read Vapor Properties 12.28 Liquid Vapor Properties 12.29 Liquid Vapor Properties 12.20 Liquid Vapor Properties 12.20 Liquid Vapor Properties 12.21 Liquid Vapor Properties 12.22 Liquid Vapor Properties 12.23 Liquid Vapor Properties 12.24 Liquid Vapor Properties 12.25 Liquid Vapor Properties 12.26 Liquid Vapor Properties 12.27 Read Vapor Properties 12.28 Liquid Vapor Properties 12.29 Liquid Vapor Properties 12.20 Liqu
asir.	33

HE. MAZARO ASSESSMENT CODE

CREOSOTE, COAL TAR

6. FIRE MAZARDS



Yellow to black Terry exter an Symanyma Liny Scot or sink in water Stop decharge if posething Call the department, sodies and remove decharged material health local health and poliuson control agrenome. Comburation.
Exemplesh with day chemicals, fourth or carbon decide.
Water may be instructive on the Fire CALL FOR MEDICAL AID EXCLIFO to take and eyes. Harrist of available of the second of the seco Hammul if availabled. Colletting and shows Removes consumerated colletting and shows Flash sifecting areas with pointy of water of the EYES, hose eyelets open and flush with planty of water if SWALLOWED and vestor a CONSCIOUS, have victim stress years and have victim induce someting if SWALLOWED and vestor a UNCONSCIOUS OR MAYING CON-YULSIONS, so nothing accept seeps receits were. Exposure Effect of law concentrations on squate the is unknown. Fouring to shorokine.
May be dangerous if it enters water interior. Water Poliution Notify tocal health and wealth officials Notify operators of healthy water intelled 1. RESPONSE TO DISCHARGE 2 LABOR 2.1 Category: Name 2.2 Clean: Not perform (See Response biethods Handboot) DESCRIPTIONS OF THE PROPERTY. Machanical containment Should be removed Characal and physical treatment 4. OBSERVABLE CHARACTERISTICS 1 CHEMICAL DESIGNATIONS 4.1 Physical State (so shipped): Liquid 4.2 Color: Yeline to brown to MACL 3.1 CQ Computating Chass Physiols, creads 3.2 Formule: Meture 43 Oner Cocces or lary, expenses 3.3 BIO/UN Designation: 9/1863 3.4 DOT ID No.: 1993 3.5 CAS Registry Hot 8001-54-9 S. MEALTH MAZARDS

8.1 Personal Protective Equipment: All-pervice curreter mask: notice gloves, diversal asiety goggive and/or face sheet, events or a neapy-war earch, some preems.

8.2 Symptoms Relevancy: Vapon date moderate instation of noise and treat, Light causes severa huma of eyes and reddening and Bohing of sids. Printinged certact with san earchies burns impasted burns of eyes and reddening and Bohing of sids. Printinged certact with san earchies burns impasted to publicly relations, hypothemiat, cyanness, and defination.

8.3 Treatment of Exposure: ResALATION, remove victim to limith or; if he is not breathing, give anterior impastion, preferably modifications in the entire of situation of exposit, cell a physician. EVES, Such invested by with party of water for all listed is the upon cell of a physician. EVES, Such invested by with party of water for all listed is two, and cell a physician. EVES, Such invested by with party of water for all listed is two, and cell a physician. SCIN, once with respected of an engageries, then witch with ease or mile; 80 NOT incluse vanishing.

8.4 Three-held Limit Value: 0.2 mg/m²

8.5 Short Term inheletion Limits: Data not evaluable. 1. MEALTH HAZAROS Short Torre Inhabeton Limite: Data not evalle Texacity by Engewhork Grade 2, LDus = 0.5 to 5 g/kg 44 Less Taxichy: Reposited exposures may cause concer of plan.

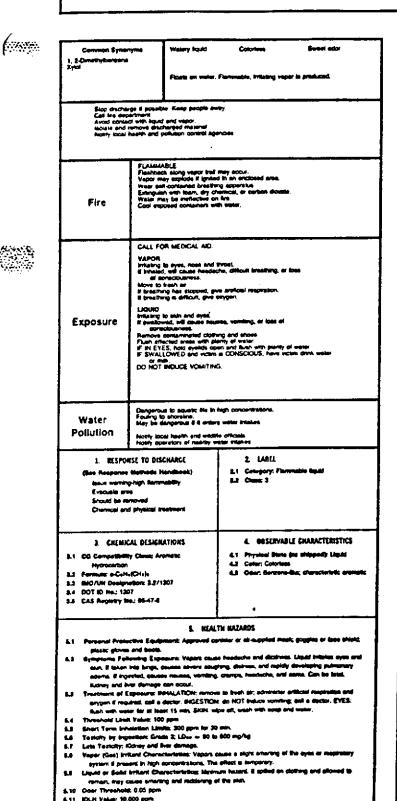
Vaper (Gos) britant Cheracteristics Vapers tourse moderate struction such that preserved will find high concentrations unpheasant. The effect is temporary. ES Liquid or Solid Britant Characteristics: Farty severe size intert. May cause pain and secondday so burns that I few minutes' contact. 8.10 Open Throughold: Date not evaluable 8.11 40LH Valve: 400 mg/m²

E.1 Floor Point > 180°F C.C.	(Bos Hazard Assessment Handbook)
6.2 Flammable Limits in Air. Hist perinent	A-T-U-X-Y
6.3 The Extrapolating Agents: Dry chamical.	· ·
-certain allowed or from	·
6.4 (Fire Extinguishing Agents Hell to be	
Used: Water may be ineffective.	11. NAZARO CLASSIFICATIONS
6.5 Special Heatertle of Combustion	19.1 Cade of Federal Republishes
Producto: Data not evaluable	11.1 Gade of Federal Regulations: Combustible South
6.6 Behavior in Pirs. Heavy, Intelling black	112 MAS Hegard Rolling for Bulk Water
emake is tormed.	Linkshipper:
8.7 Spoline Temporature: 637°F	Category Reting
8.8 Electrical Hearth Not portroni	Pre
6.0 Burning Rate: Date not evaluate 4.16 Adelantic Flores Technique	Hesim
8,10 Adeballs Flores Temperature:	Vapur Influrit
Date not available A 11 Available name Ab to Fuel Ballin	Liquid or Solid Inflant
6.11 Objectionwests Air to Fuel Retix	Palacra 2
Date not eveloble 6.12 Floris Temperature: Date not evaluable	Water Polition
6,12 Plate Imperones see	Phones Testolly
	Aquate Tortoly
	Applicable Effect
7. CHEBICAL REACTIVITY	ResCPAY
7,1 Reactivity With Water; No reaction	Charles
7.1 Rescaling with reserve to record 7.2 Rescaling with Common Materials: No	Water
Marcago.	Eall Resolution
7.3 Stability During Transport Stable	15.2 MFPA Hazard Classification: Catagory Classification
7,4 Moutralizing Agents for Adds and	
Causitios: Not persinent	House Hazard (Blad)
7.5 Polymortestan: Not pertneril	Flammatilly (Flad)
TA Secure of Polymerketion:	PARENTY (1
Not pertinent	l
7.7 Maler Ratio Propolarit to	
Freducty Data not everiable	
7.8 Reactivity Group: 21	
+	
1	12 PHYSICAL AND CHEMICAL PROPERTIES
	
1	12.1 Propoled State of 16°C and 1 atric
1	Liquid 49 9 Malanadar Wallack Military
1	19.2 Melecular Welgith Michiga 13.0 Melecul Politi at Later
1	12.2 Seiting Point at Latex > 244 F = > 140 C = > 252 FK
1	>356°F =>160°C =>353°K
	12.4 Freezing Point: Hol partners
& WATER POLILUTION	SS.6 Critical Temperatures Hist portinent
•	SLE Critical Temperature Hall perfinant SLE Critical Procures Hall perfinant
8.1 Aquatic Testoty; Data not evaluate	12.6 Critical Temperaturis Hall partinent 12.6 Critical Presente Nat partinent 12.7 Speakle Gravity:
8.1 Aquable Youldity: Data not available 8.2 Websterni Textolly: Data not available	12.6 Critical Temperature Not perfect 12.6 Critical Pressure Not perfect 12.7 Speaks Carvity: 1.05-1.06 at 15°C States
8.1 Sepurate Toutothy; Data not available 8.2 Websylawit Toutothy; Data not available 8.3 Stategical Copyers Delmand (SCCI)	92.5 Critical Temperaturis Not perfect 12.6 Critical Pronunce Not perfect 12.7 Speaklic Gravity: 1.05-1.00 of 15°C (Routs) 12.6 Liquid Surfaco Tempore (excl.) 15. open/on = 8.015 N/m at 20°C
S.1 Aquatic Toutotry: Data not evaluable S.2 Westerland Toutotry: Data not evaluable Stategland Copyers Demand (BOO): Data not evaluable	92.5 Critical Temperaturis Not perfect 12.6 Critical Pronunce Not perfect 12.7 Speaklic Gravity: 1.05-1.00 of 15°C (Routs) 12.6 Liquid Surfaco Tempore (excl.) 15. open/on = 8.015 N/m at 20°C
6.1 Aquatic Teatotry: Data not avalente 6.2 Webyrteed Teatotry: Data not avalente 6.3 Biological Cryyen Demand (BCC): Data not avallable 6.4 Food Chain Concentration Patential	92.6 Critical Temperaturia had perfectle 12.7 Specific Gravity: 1.05-1.00 at 13°C Staulit 12.8 Liquid Suriace Tensions (ed.) 15.9yeas/on = 8.016 N/m at 20°C 12.8 Liquid Suriace renational Tennions (ed.) 20.9yeas/on = 9.020 N/m at 80°C
S.1 Aquatic Toutotry: Data not evaluable S.2 Westerland Toutotry: Data not evaluable Stategland Copyers Demand (BOO): Data not evaluable	92.5 Critical Temperaturis fiel pertinent 12.6 Critical Pronunce fiel perfende 12.7 Specific Gravity: 1.05-1.00 of 15°C Specific 12.8 Liquid Surface Template (est.) 15. Specifics = 8.015 N/s at 20°C 12.6 Liquid Water franciscal Template (est.) 20 dynamics = 9.020 N/m at 20°C 12.10 Vaper (Can) Specific Servity:
6.1 Aquatic Teatotry: Data not avalente 6.2 Webyrteed Teatotry: Data not avalente 6.3 Biological Cryyen Demand (BCC): Data not avallable 6.4 Food Chain Concentration Patential	92.5 Critical Temperaturis Not pertinent 12.2 Critical Pressure Not pertinent 12.7 Speakle Gravity 1.05-1.00 at 15°C (Rigids) 12.8 Liquid Surface Tembers (set.) 15.0 open/on = 8.015 N/m at 20°C 12.0 Liquid Vester Interfacel Tembers (set.) 20 dynas/on = 8.020 N/m at 80°C 12.10 Vegac (Sac) Speakle Gravity; Not permitten
6.1 Aquatic Teatotry: Data not avalente 6.2 Webyrteed Teatotry: Data not avalente 6.3 Biological Cryyen Demand (BCC): Data not avallable 6.4 Food Chain Concentration Patential	92.5 Critical Temperaturis fiel pertinent 12.6 Critical Pronunce fiel perfende 12.7 Specific Gravity: 1.05-1.00 of 15°C Specific 12.8 Liquid Surface Template (est.) 15. Specifics = 8.015 N/s at 20°C 12.6 Liquid Water franciscal Template (est.) 20 dynamics = 9.020 N/m at 20°C 12.10 Vaper (Can) Specific Servity:
6.1 Aquatic Teatotry: Data not avalente 6.2 Webyrteed Teatotry: Data not avalente 6.3 Biological Cryyen Demand (BCC): Data not avallable 6.4 Food Chain Concentration Patential	92.5 Critical Temperaturis fiel pertinent 12.6 Critical Presents field perfent 12.7 Specific Growty: 1.05-1.00 of 15°C Specific 12.8 Liquid Surface Tempine (est.) 15. Syncas/on = 8.015 N/m at 20°C 12.6 Liquid Water franciscal Tempines (est.) 20 dynas/on = 8.020 N/m at 20°C 12.10 Vaper (Can) Specific Growty: Net Jammers 12.11 Surface of Specific Marin of Vaper (Gar): Net perfect
6.1 Aquatic Teatotry: Data not avalente 6.2 Webyrteed Teatotry: Data not avalente 6.3 Biological Cryyen Demand (BCC): Data not avallable 6.4 Food Chain Concentration Patential	22.6 Critical Temperaturia Not pertinent 12.7 Critical Pressure Not parliam? 12.7 Speakle Gravity 1.05-1.00 of 15°C (Squid) 12.8 Liquid Surince Tentains (set.) 15.6 open/on = 8.016 N/m at 20°C 12.8 Liquid Stoke reservoid Tenniore (set.) 20 dynas/on = 8.020 N/m at 20°C 12.10 Vegor (Sac) Speakle Gravity; 10.11 State of Speakle State of Vapor (Sac) Not pertinent 12.12 Listent Hood of Vapor (Sac) 12.12 Listent Hood of Vaporitation:
6.1 Aquatic Teatotry: Data not avalente 6.2 Webyrteed Teatotry: Data not avalente 6.3 Biological Cryyen Demand (BCC): Data not avallable 6.4 Food Chain Concentration Patential	92.6 Critical Temperaturic Not pertinent 12.7 Critical Pressure Not pertinent 12.7 Separatic Gravity 1.05-1.00 of 15°C (Squis) 12.8 Liquid Services Tentainer (est.) 15 syncar/on = 8.015 N/m at 20°C 12.9 Liquid Water Interfacel Tennions (est.) 20 dynam/on = 8.020 N/m of 20°C 12.10 Vegace (Cac) Specific Gravity; Not perform 12.11 Ratio of Specific Heals of Vegace (Cac) 12.12 Latent Heal of Vegacitation; 12.12 Latent Heal of Vegacitation; 14.15 Latent Heal of Vegacitation; 15.16 Critical Services
6.1 Aquatic Teatotry: Data not avalente 6.2 Webyrteed Teatotry: Data not avalente 6.3 Biological Cryyen Demand (BCC): Data not avallable 6.4 Food Chain Concentration Patential	12.5 Critical Temperature Not pertinent 12.2 Critical Presents Not pertinent 12.7 Separation Territory; 1.05-1.00 of 15°C (Squid) 12.8 Liquid Surious Territory (set.) 15. speac/on = 8.016 N/m at 20°C 12.8 Liquid Surious Territory (set.) 20 symmorus = 8.020 N/m at 20°C 12.10 Supper (Clean) Specific Servity; Not permitted 12.11 Retic of Specific Heads of Vapor (Clean): Not perfect 12.12 Latent, Head of Vaportanienc: 12.13 Letters (Head of Vaportanienc) 12.13 Letters (Head of Vaportanienc) 12.13 Theat of Combustions (set.)
6.1 Aquatic Teatotry: Data not avalente 6.2 Webyrteed Teatotry: Data not avalente 6.3 Biological Cryyen Demand (BCC): Data not avallable 6.4 Food Chain Concentration Patential	12.6 Critical Temperaturis Not pertinent 12.7 Critical Pressure Not parliam? 12.7 Speakle Gravity 1.05-1.00 of 15°C Stade) 12.8 Liquid Surince Tentoire (est.) 15.6 speak/on = 8.016 Note at 20°C 12.8 Liquid States Interior (est.) 20 dynas/on = 8.020 Note of 20°C 12.10 Vegan (San) Speakle Stanling (est.) Not parliam 12.11 Ratio of Speakle Stanling (San) 12.12 Listent Heal of Vapor (San) 12.13 Listent Heal of Vapor (San) 12.13 Listent Heal of Vapor (San) 12.14 Listent Heal of Vapor (San) 12.15 Note of Combustions (est.) 12.15 Note of Combustions (est.) 12.16 Short of Combustions (est.)
6.1 Aquatic Teatotry: Data not avalente 6.2 Webyrteed Teatotry: Data not avalente 6.3 Biological Cryyen Demand (BCC): Data not avallable 6.4 Food Chain Concentration Patential	12.5 Chitosi Temperaturis Not pertinent 12.7 Specific Gravity: 1.05-1.00 of 15°C Specific 12.8 Liquid Surface Temperat 13.9 Liquid Surface Temperat 13.9 Liquid Surface Temperat 13.9 Operation = 8.015 N/m of 20°C 12.9 Liquid Surface = 8.020 N/m of 20°C 12.10 Veger (Cost) Specific Templer (est) 10.10 Specific Heads of Veger (Gen) 10.11 Retto of Specific Heads of Veger (Gen) 10.12 Listent Head of Veger (Gen) 11.12 Listent Head of Veger (Gen) 12.13 Head of Combustions (est.) 12.10 Temperature 12.11 Combustions (est.) 12.12 Head of Combustions (est.) 12.13 Operator (est.) 12.14 Head of Veger (est.) 12.15 Operator (est.) 12.15 Operator (est.) 12.15 Operator (est.) 12.15 Operator (est.)
6.1 Aquatic Teatotry: Data not avalente 6.2 Webyrteed Teatotry: Data not avalente 6.3 Biological Cryyen Demand (BCC): Data not avallable 6.4 Food Chain Concentration Patential	12.6 Critical Temperaturis Not pertinent 12.7 Speaklic Gravity: 1.05-1.00 of 15°C Stacks 12.8 Liquid Surface Temperaturis (ed.) 15.9-1.00 of 15°C Stacks 12.8 Liquid Surface Temperaturis (ed.) 15.9-1.00 of 15°C Stacks 12.10 Liquid Surface Temperaturis (ed.) 15.90 Symmorum = 0.020 Nutra of 5°C 12.10 Vepter (Gate) Speaklin Stacks (ed.) 12.11 Ratto of Speaklin Heads of Vepter (Gate) 12.12 Letters Head of Vepter (Gate) 12.13 Letters (Head of Vepter Stack) 12.13 Head of Combastions (ed.) 12.10 Stacks 12.11 Head of Combastions (ed.) 12.12 Head of Decompositions (ed.) performant
6.1 Aquatic Teatotry: Data not avalente 6.2 Webyrteut Teatotry: Data not avalente 6.3 Biological Cryyen Demand (BCC): Data not avallable 6.4 Food Chain Concentration Patential	12.6 Critical Temperaturis Not pertinent 12.7 Critical Presente Not parliam? 12.7 Speakle Gravity 1.05-1.00 of 15°C (Squid) 12.8 Liquid Surince Tentoire (set.) 15 speak/on = 8.016 Note at 20°C 12.8 Liquid State retarriscial Tenniore (set.) 20 symm/on = 8.020 Note at 20°C 12.10 Vegor (San) Speakle Gravity; Not parliam; 12.11 Ratio of Speakle Heals of Vapor (San); Not parliam; 12.12 Liniam Heal of Vaportisalism; 12.13 Note of Combustions (set.) 12.10 State of Combustions (set.) 12.10 State of Combustions (set.) 12.11 Union of Decemperations (set parliament 12.12 Union State of Set.) 12.13 Vegor of Set.
6.1 Aquatic Teatotry: Data not avalente 6.2 Webyrteut Teatotry: Data not avalente 6.3 Biological Cryyen Demand (BCC): Data not avallable 6.4 Food Chain Concentration Patential	12.5 Critical Temperaturis Not pertinent 12.7 Specific Gravity: 1.05-1.00 of 15°C Spoids 12.8 Liquid Surface Temperaturis 15 Synos/on = 8.015 N/m at 20°C 12.8 Liquid Surface Temperaturis Template (est.) 20 dynas/on = 8.020 N/m at 80°C 12.10 Vapor (Carl) Specific Servity: Not pertinent 12.11 Surface of Specific Servity: Not pertinent 12.12 Latent Note of Vaporitation: 12.13 Note of Specific Servity: 12.14 Latent Note of Vaporitation: 12.15 Latent Note of Vaporitation: 12.16 Latent Note of Vaporitation: 12.17 Note of Combustions (est.) 12.18 Note of Specific Not pertinent 12.19 Steel of Specific Not pertinent 12.19 Steel of Specific Not pertinent 12.10 Note of Specific Not pertinent 12.10 Note of Specific Not pertinent
S.1 Aquatic Teatotry: Data not available S.2 Westered Teatotry: Data not available S.3 Stategical Crypton Demond (SCO): Data not evailable S.4 Food Chain Concentration Patential: None \$. SMPPING INFORMATION	12.6 Critical Temperaturia Not partners 12.7 Specific Gravity 12.7 Specific Gravity 12.7 Specific Gravity 12.8 Liquid Sarinov Tensions (set.) 13.8 Liquid Sarinov Tensions (set.) 13.9 Symmetom = 8.018 N/m at 20°C 12.8 Liquid Sarinov Tensions Tenniors (set.) 20 Symmetom = 8.020 N/m at 20°C 12.10 Tensions (set.) 20.11 Ratio of Specific Heatin of Vapor (Sar) Not puriners 12.11 Ratio of Specific Heatin of Vapor (Sar) Not puriners 12.12 Latent Heat of Vaportantiers 12.13 Heat of Combartiers (set.)
S.1 Aquatic Toutoffy: Data not available S.2 Webertool Toutoffy: Data not available S.3 Balogical Caypon Demand (BCO): Data not available S.4 Food Chain Concentration Patential: None S. SMPFING INFORMATION S.1 Greeks of Purity: Whole prepople or	12.6 Critical Temperaturis Not pertinent 12.7 Separatic Gravity 12.7 Separatic Gravity 12.7 1.05-1.00 of 15°C (Squid) 12.8 Liquid Surface Tentainer (est.) 15.6-1.00 of 15°C (Squid) 15.6 speac/orn = 8.016 N/m at 20°C 12.8 Liquid Surface Tentainer (est.) 20 dynam/orn = 8.020 N/m at 80°C 12.10 Note of Speachts Streetly: Note partners 12.11 State of Speachts Health of Vapor (Son): Note partners 12.12 Linion Healt of Vapor (Son): Note partners 12.13 Note of Combustions (est.) 12.10 State of Combustions (est.) 12.10 State of Combustions (est.) 12.10 State of Decemperations (est.) 12.11 State of Decemperations (est.) 12.12 Linion State (est.) 12.13 State of Decemperations (est.) 12.14 State of Decemperations (est.) 12.15 State of Decemperations (est.) 12.16 State of Decemperations (est.) 12.17 State of Decemperations (est.) 12.18 State of Decemperations (est.) 12.19 State of Decemperations (est.) 12.20 Linion (est.) 12.20 Conditions (est.) 12.21 Linion (est.) 12.22 Conditions (est.) 12.23 Linion (est.) 12.24 State of Decemperation (est.) 12.25 Linion (est.)
S.1 Aquatic Toutothy: Data not available S.2 Westered Toutothy: Data not available Salabagical Cryspen Demand (BCO): Data not available Salabagical Cryspen Demand (BCO): Data not available Salabagical Cryspen Demand (BCO): Data not reconstruction Puterifielt None Salabagical Cryspension Puterifielt Salabagical Cryspension Puterifielt Salabagical Cryspension Cryspension Cryspension (Salabagical Cryspension) Salabagical Crys	12.6 Critical Temperaturia Not partners 12.7 Specific Gravity 12.7 Specific Gravity 12.7 Specific Gravity 12.8 Liquid Sarinov Tensions (set.) 13.8 Liquid Sarinov Tensions (set.) 13.9 Symmetom = 8.018 N/m at 20°C 12.8 Liquid Sarinov Tensions Tennions (set.) 20 Symmetom = 8.020 N/m at 20°C 12.10 Perper (Gat.) Specific Gravity; Not perform 12.11 Rette of Specific Heatin of Vapor (Gat.) Not perform 12.12 Letters Heat of Vaportarion: Not perform 12.13 Lett of Combattions (set.)
S.1 Aquatic Teatotry: Data not avalente S.2 Westverved Teatotry: Data not avalente S.3 Biological Cryspen Demand (BCO): Data not evaluate S.4 Food Chain Concentration Patentist None S. SMPPING INFORMATION S.1 Grusse of Purity: Whole evapous or valuate factors, depending on beling port. All have similar properties.	12.6 Critical Temperaturis Not pertinent 12.7 Separatic Gravity 12.7 Separatic Gravity 12.7 1.05-1.00 of 15°C (Squid) 12.8 Liquid Surface Tentainer (est.) 15.6-1.00 of 15°C (Squid) 15.6 speac/orn = 8.016 N/m at 20°C 12.8 Liquid Surface Tentainer (est.) 20 dynam/orn = 8.020 N/m at 80°C 12.10 Note of Speachts Streetly: Note partners 12.11 State of Speachts Health of Vapor (Son): Note partners 12.12 Linion Healt of Vapor (Son): Note partners 12.13 Note of Combustions (est.) 12.10 State of Combustions (est.) 12.10 State of Combustions (est.) 12.10 State of Decemperations (est.) 12.11 State of Decemperations (est.) 12.12 Linion State (est.) 12.13 State of Decemperations (est.) 12.14 State of Decemperations (est.) 12.15 State of Decemperations (est.) 12.16 State of Decemperations (est.) 12.17 State of Decemperations (est.) 12.18 State of Decemperations (est.) 12.19 State of Decemperations (est.) 12.20 Linion (est.) 12.20 Conditions (est.) 12.21 Linion (est.) 12.22 Conditions (est.) 12.23 Linion (est.) 12.24 State of Decemperation (est.) 12.25 Linion (est.)
S.1 Aquatic Toutothy: Data not available S.2 West-roof Toutothy: Data not available S.3 Balogical Caypon Domand (BCO): Data not available S.4 Food Chain Concentration Patential Hone S. SHIPPING INFORMATION S.1 Greates of Purity: Whole prepares vertous fractions, depending on boiling port. All have similer properties. S.2 Streege Temperature: Amberti	12.6 Critical Temperaturis Not pertinent 12.7 Separatic Gravity 12.7 Separatic Gravity 12.7 1.05-1.00 of 15°C (Squid) 12.8 Liquid Surface Tentainer (est.) 15.6-1.00 of 15°C (Squid) 15.6 speac/orn = 8.016 N/m at 20°C 12.8 Liquid Surface Tentainer (est.) 20 dynam/orn = 8.020 N/m at 80°C 12.10 Note of Speachts Streetly: Note partners 12.11 State of Speachts Health of Vapor (Son): Note partners 12.12 Linion Healt of Vapor (Son): Note partners 12.13 Note of Combustions (est.) 12.10 State of Combustions (est.) 12.10 State of Combustions (est.) 12.10 State of Decemperations (est.) 12.11 State of Decemperations (est.) 12.12 Linion State (est.) 12.13 State of Decemperations (est.) 12.14 State of Decemperations (est.) 12.15 State of Decemperations (est.) 12.16 State of Decemperations (est.) 12.17 State of Decemperations (est.) 12.18 State of Decemperations (est.) 12.19 State of Decemperations (est.) 12.20 Linion (est.) 12.20 Conditions (est.) 12.21 Linion (est.) 12.22 Conditions (est.) 12.23 Linion (est.) 12.24 State of Decemperation (est.) 12.25 Linion (est.)
S.1 Aquatic Tradolly: Data not avalable Webstrowd Testally: Data not avalable Salabagical Crypton Demand (BCO): Data not available R.4 Food Chain Concentration Patential: None Salabrated BMFDRMATION S.1 Grades of Purity: Whole crustols or various fractions, depending on boiling gons, All have strake properties. Salarge Temperature: Anticorti Salarge Temperature: Anticorti	12.6 Critical Temperaturis Not pertinent 12.7 Separatic Gravity 12.7 Separatic Gravity 12.7 1.05-1.00 of 15°C (Squid) 12.8 Liquid Surface Tentainer (est.) 15.6-1.00 of 15°C (Squid) 15.6 speac/orn = 8.016 N/m at 20°C 12.8 Liquid Surface Tentainer (est.) 20 dynam/orn = 8.020 N/m at 80°C 12.10 Note of Speachts Streetly: Note partners 12.11 State of Speachts Health of Vapor (Son): Note partners 12.12 Linion Healt of Vapor (Son): Note partners 12.13 Note of Combustions (est.) 12.10 State of Combustions (est.) 12.10 State of Combustions (est.) 12.10 State of Decemperations (est.) 12.11 State of Decemperations (est.) 12.12 Linion State (est.) 12.13 State of Decemperations (est.) 12.14 State of Decemperations (est.) 12.15 State of Decemperations (est.) 12.16 State of Decemperations (est.) 12.17 State of Decemperations (est.) 12.18 State of Decemperations (est.) 12.19 State of Decemperations (est.) 12.20 Linion (est.) 12.20 Conditions (est.) 12.21 Linion (est.) 12.22 Conditions (est.) 12.23 Linion (est.) 12.24 State of Decemperation (est.) 12.25 Linion (est.)
S.1 Aquatic Toutothy: Data not available S.2 West-roof Toutothy: Data not available S.3 Balogical Caypon Domand (BCO): Data not available S.4 Food Chain Concentration Patential Hone S. SHIPPING INFORMATION S.1 Greates of Purity: Whole prepares vertous fractions, depending on boiling port. All have similer properties. S.2 Streege Temperature: Amberti	12.6 Critical Temperaturis Not pertinent 12.7 Separatic Gravity 12.7 Separatic Gravity 12.7 1.05-1.00 of 15°C (Squid) 12.8 Liquid Surface Tentainer (est.) 15.6-1.00 of 15°C (Squid) 15.6 speac/orn = 8.016 N/m at 20°C 12.8 Liquid Surface Tentainer (est.) 20 dynam/orn = 8.020 N/m at 80°C 12.10 Note of Speachts Streetly: Note partners 12.11 State of Speachts Health of Vapor (Son): Note partners 12.12 Linion Healt of Vapor (Son): Note partners 12.13 Note of Combustions (est.) 12.10 State of Combustions (est.) 12.10 State of Combustions (est.) 12.10 State of Decemperations (est.) 12.11 State of Decemperations (est.) 12.12 Linion State (est.) 12.13 State of Decemperations (est.) 12.14 State of Decemperations (est.) 12.15 State of Decemperations (est.) 12.16 State of Decemperations (est.) 12.17 State of Decemperations (est.) 12.18 State of Decemperations (est.) 12.19 State of Decemperations (est.) 12.20 Linion (est.) 12.20 Conditions (est.) 12.21 Linion (est.) 12.22 Conditions (est.) 12.23 Linion (est.) 12.24 State of Decemperation (est.) 12.25 Linion (est.)
S.1 Aquatic Tradolly: Data not avalable Webstrowd Testally: Data not avalable Salabagical Crypton Demand (BCO): Data not available R.4 Food Chain Concentration Patential: None Salabrated BMFDRMATION S.1 Grades of Purity: Whole crustols or various fractions, depending on boiling gons, All have strake properties. Salarge Temperature: Anticorti Salarge Temperature: Anticorti	12.6 Critical Temperaturis Not pertinent 12.7 Separatic Gravity: 1.05-1.00 of 15°C (Squid) 12.8 Liquid Surface Tentelors (est.) 15 Separation—B.016 Notes at 20°C 12.8 Liquid Surface Tentelors (est.) 20 dynam/on—B.016 Notes at 20°C 12.10 Liquid Surface International Tennelors (est.) 20 dynam/on—B.020 Notes at 20°C 12.11 Ratio of Specific Health of Vapor (Son): Not partition 12.12 Lintern Healt of Vapor (Son): Not pertinent 12.13 Notes of Combustions (est.) —12,500 Stu/fs ——6,500 csl/g — —20 X 10° J/g 12.14 Need of Decemperations (est.) 12.15 Healt of Decemperations (est.) 12.16 Healt of Decemperations (est.) 12.17 Short of Sections (est.) 12.18 Healt of Paymerhanters (est.) 12.19 Healt of Decemperations (est.) 12.20 Linding Value: Date not available
S.1 Aquatic Tradolly: Data not avalable Webstrowd Testally: Data not avalable Salabagical Crypton Demand (BCO): Data not available R.4 Food Chain Concentration Patential: None Salabrated BMFDRMATION S.1 Grades of Purity: Whole crustols or various fractions, depending on boiling gons, All have strake properties. Salarge Temperature: Anticorti Salarge Temperature: Anticorti	12.6 Critical Temperaturis Not pertinent 12.7 Separatic Gravity: 1.05-1.00 of 15°C (Squid) 12.8 Liquid Surface Tentelors (est.) 15 Separation—B.016 Notes at 20°C 12.8 Liquid Surface Tentelors (est.) 20 dynam/on—B.016 Notes at 20°C 12.10 Liquid Surface International Tennelors (est.) 20 dynam/on—B.020 Notes at 20°C 12.11 Ratio of Specific Health of Vapor (Son): Not partition 12.12 Lintern Healt of Vapor (Son): Not pertinent 12.13 Notes of Combustions (est.) —12,500 Stu/fs ——6,500 csl/g — —20 X 10° J/g 12.14 Need of Decemperations (est.) 12.15 Healt of Decemperations (est.) 12.16 Healt of Decemperations (est.) 12.17 Short of Sections (est.) 12.18 Healt of Paymerhanters (est.) 12.19 Healt of Decemperations (est.) 12.20 Linding Value: Date not available
S.1 Aquatic Tradolly: Data not avalable Webstrowd Testally: Data not avalable Salabagical Crypton Demand (BCO): Data not available R.4 Food Chain Concentration Patential: None Salabrated BMFDRMATION S.1 Grades of Purity: Whole crustols or various fractions, depending on boiling gons, All have strake properties. Salarge Temperature: Anticorti Salarge Temperature: Anticorti	12.6 Critical Temperaturis Not pertinent 12.7 Separatic Gravity 12.7 Separatic Gravity 12.8 Liquid Surface Testastes (est.) 15.6-1.00 of 15°C Stacks 12.8 Liquid Surface Testastes (est.) 15.9 Openation— B.O.15 Main at 20°C 12.8 Liquid Surface Interfaced Tennione (est.) 20 Openation— B.O.20 Main at 20°C 12.10 Note of Specific Surface (est.) 12.11 State of Specific Surface of Vapor (Son): Not pertinent 12.12 Lintent Head of Vapor (Son): 12.13 Note of Combustione (est.) 12.14 Lintent Head of Vapor (Son): 12.15 Separation (est.) 12.16 Separation (est.) 12.17 Separation (est.) 12.18 Separation (est.) 12.19 Separation (est.) 12.1
S.1 Aquatic Tradolly: Data not avalable Webstrowd Testally: Data not avalable Salabagical Crypton Demand (BCO): Data not available R.4 Food Chain Concentration Patential: None Salabrated BMFDRMATION S.1 Grades of Purity: Whole crustols or various fractions, depending on boiling gons, All have strake properties. Salarge Temperature: Anticorti Salarge Temperature: Anticorti	12.6 Critical Temperaturia Not pertinent 12.7 Separatic Gravity 12.7 Separatic Gravity 1.05-1.00 of 15°C Stacks 12.8 Liquid Surface Testolore (est.) 15.6-1.00 of 15°C Stacks 12.8 Liquid Surface Testolore (est.) 15.9 Operature — B.O.15 Note at 20°C 12.8 Liquid Surface Interfaced Tennione (est.) 20 Operature — B.O.25 Note at 20°C 12.10 Vegate (Sac) Separatic Servity: Note paramete 12.11 Rusto of Separatic Hardent of Vapor (Sac): Note paramete 12.12 Lintern Hard of Vaporitation: Note paramete 12.13 Note of Combustione (est.) 12.10 Servity — —S.D.00 sol/g — 12.10 Servity — —S.D.00 sol/g — 12.10 Servity — Servity paramete 12.11 Servity Servity Servity 12.12 Servity Servity Servity 12.13 Servity Servity Servity 12.14 Servity Servity Servity 12.15 Servi
S.1 Aquatic Tradolly: Data not avalable Webstrowd Testally: Data not avalable Salabagical Crypton Demand (BCO): Data not available R.4 Food Chain Concentration Patential: None Salabrated BMFDRMATION S.1 Grades of Purity: Whole crustols or various fractions, depending on boiling gons, All have strake properties. Salarge Temperature: Anticorti Salarge Temperature: Anticorti	12.6 Critical Temperaturia Not pertinent 12.7 Separatic Gravity 12.7 Separatic Gravity 1.05-1.00 of 15°C Stacks 12.8 Liquid Surface Testolore (est.) 15.6-1.00 of 15°C Stacks 12.8 Liquid Surface Testolore (est.) 15.9 Operature — B.O.15 Note at 20°C 12.8 Liquid Surface Interfaced Tennione (est.) 20 Operature — B.O.25 Note at 20°C 12.10 Vegate (Sac) Separatic Servity: Note paramete 12.11 Rusto of Separatic Hardent of Vapor (Sac): Note paramete 12.12 Lintern Hard of Vaporitation: Note paramete 12.13 Note of Combustione (est.) 12.10 Servity — —S.D.00 sol/g — 12.10 Servity — —S.D.00 sol/g — 12.10 Servity — Servity paramete 12.11 Servity Servity Servity 12.12 Servity Servity Servity 12.13 Servity Servity Servity 12.14 Servity Servity Servity 12.15 Servi
S.1 Aquatic Tradolly: Data not avalable Webstrowd Testally: Data not avalable Salabagical Crypton Demand (BCO): Data not available R.4 Food Chain Concentration Patential: None Salabrated BMFDRMATION S.1 Grades of Purity: Whole crustols or various fractions, depending on boiling gons, All have strake properties. Salarge Temperature: Anticorti Salarge Temperature: Anticorti	12.6 Critical Temperaturia Not pertinent 12.7 Separatic Gravity 12.7 Separatic Gravity 1.05-1.00 of 15°C Stacks 12.8 Liquid Surface Testolore (est.) 15.6-1.00 of 15°C Stacks 12.8 Liquid Surface Testolore (est.) 15.9 Operature — B.O.15 Note at 20°C 12.8 Liquid Surface Interfaced Tennione (est.) 20 Operature — B.O.25 Note at 20°C 12.10 Vegate (Sac) Separatic Servity: Note paramete 12.11 Rusto of Separatic Hardent of Vapor (Sac): Note paramete 12.12 Lintern Hard of Vaporitation: Note paramete 12.13 Note of Combustione (est.) 12.10 Servity — —S.D.00 sol/g — 12.10 Servity — —S.D.00 sol/g — 12.10 Servity — Servity paramete 12.11 Servity Servity Servity 12.12 Servity Servity Servity 12.13 Servity Servity Servity 12.14 Servity Servity Servity 12.15 Servi
S.1 Aquatic Tradolly: Data not avalable Webstrowd Testally: Data not avalable Salabagical Crypton Demand (BCO): Data not available R.4 Food Chain Concentration Patential: None Salabrated BMFDRMATION S.1 Grades of Purity: Whole crustols or various fractions, depending on boiling gons, All have strake properties. Salarge Temperature: Anticorti Salarge Temperature: Anticorti	12.6 Critical Temperaturia Not pertinent 12.7 Separatic Gravity 12.7 Separatic Gravity 1.05-1.00 of 15°C Stacks 12.8 Liquid Surface Testolore (est.) 15.6-1.00 of 15°C Stacks 12.8 Liquid Surface Testolore (est.) 15.9 Operature — B.O.15 Note at 20°C 12.8 Liquid Surface Interfaced Tennione (est.) 20 Operature — B.O.25 Note at 20°C 12.10 Vegate (Sac) Separatic Servity: Note paramete 12.11 Rusto of Separatic Hardent of Vapor (Sac): Note paramete 12.12 Lintern Hard of Vaporitation: Note paramete 12.13 Note of Combustione (est.) 12.10 Servity — —S.D.00 sol/g — 12.10 Servity — —S.D.00 sol/g — 12.10 Servity — Servity paramete 12.11 Servity Servity Servity 12.12 Servity Servity Servity 12.13 Servity Servity Servity 12.14 Servity Servity Servity 12.15 Servi
S.1 Aquatic Tradolly: Data not avalable Webstrowd Testally: Data not avalable Salabagical Crypton Demand (BCO): Data not available R.4 Food Chain Concentration Patential: None Salabrated BMFDRMATION S.1 Grades of Purity: Whole crustols or various fractions, depending on boiling gons, All have strake properties. Salarge Temperature: Anticorti Salarge Temperature: Anticorti	12.6 Critical Temperaturis Not pertinent 12.7 Separatic Gravity 12.7 Separatic Gravity 12.8 Liquid Surface Testastes (est.) 15.6-1.00 of 15°C Stacks 12.8 Liquid Surface Testastes (est.) 15.9 Openation— B.O.15 Main at 20°C 12.8 Liquid Surface Interfaced Tennione (est.) 20 Openation— B.O.20 Main at 20°C 12.10 Note of Specific Surface (est.) 12.11 State of Specific Surface of Vapor (Son): Not pertinent 12.12 Lintent Head of Vapor (Son): 12.13 Note of Combustione (est.) 12.14 Lintent Head of Vapor (Son): 12.15 Separation (est.) 12.16 Separation (est.) 12.17 Separation (est.) 12.18 Separation (est.) 12.19 Separation (est.) 12.1
S.1 Aquatic Toutothy: Data not available S.2 Westverteel Toutothy: Data not available S.3 Stategical Crypton Demand (SCO): Data not evailable S.4 Food Chain Concentration Patential: None S. SMPPING DIFFORMATION S.1 Greens of Purity: Whole crustots or various fractions, depanding on boiling point. All have similar properties. S.2 Stategie Temperature: Anthoni S.3 Stategie Temperature: Anthoni S.3 Stategie Temperature: Anthoni S.4 Vaniling: Open (States arrester)	12.5 Critical Temperaturis Not pertinent 12.7 Specific Gravity 1.05-1.00 of 15°C Specific 12.8 Liquid Surface Tensions (est.) 15 specific 9 solid Notes at 20°C 12.9 Liquid Surface Tensions (est.) 15 specific 9 solid Notes at 20°C 12.10 Vapor (See) Specific Servicy: Not surfaces 12.11 Surface (See) Specific Servicy: Not surfaces 12.12 Latent Hout of Vaportimizer: Not perfect 12.13 Hout of Combanitions (std.) 12.10 Stuffe = -8.500 solid = -200 X 10° July 12.10 Stuffe = -8.500 solid = -200 X 10° July 12.11 Specific See See See See See See See See See Se
S.1 Aquatic Toutothy: Data not available S.2 Westverteel Toutothy: Data not available S.3 Stategical Crypton Demand (SCO): Data not evailable S.4 Food Chain Concentration Patential: None S. SMPPING DIFFORMATION S.1 Greens of Purity: Whole crustots or various fractions, depanding on boiling point. All have similar properties. S.2 Stategie Temperature: Anthoni S.3 Stategie Temperature: Anthoni S.3 Stategie Temperature: Anthoni S.4 Vaniling: Open (States arrester)	12.6 Critical Temperaturis Not pertinent 12.7 Separatic Gravity 12.7 Separatic Gravity 12.8 Liquid Surface Testastes (est.) 15.6-1.00 of 15°C Stacks 12.8 Liquid Surface Testastes (est.) 15.9 Openation— B.O.15 Main at 20°C 12.8 Liquid Surface Interfaced Tennione (est.) 20 Openation— B.O.20 Main at 20°C 12.10 Note of Specific Surface (est.) 12.11 State of Specific Surface of Vapor (Son): Not pertinent 12.12 Lintent Head of Vapor (Son): 12.13 Note of Combustione (est.) 12.14 Lintent Head of Vapor (Son): 12.15 Separation (est.) 12.16 Separation (est.) 12.17 Separation (est.) 12.18 Separation (est.) 12.19 Separation (est.) 12.1
S.1 Aquatic Toutothy: Data not available S.2 Westverteel Toutothy: Data not available S.3 Stategical Crypton Demand (SCO): Data not evailable S.4 Food Chain Concentration Patential: None S. SMPPING DIFFORMATION S.1 Greens of Purity: Whole crustots or various fractions, depanding on boiling point. All have similar properties. S.2 Stategie Temperature: Anthoni S.3 Stategie Temperature: Anthoni S.3 Stategie Temperature: Anthoni S.4 Vaniling: Open (States arrester)	12.5 Critical Temperaturis Not pertinent 12.7 Specific Gravity 1.05-1.00 of 15°C Specific 12.8 Liquid Surface Tensions (est.) 15 specific 9 solid Notes at 20°C 12.9 Liquid Surface Tensions (est.) 15 specific 9 solid Notes at 20°C 12.10 Vapor (See) Specific Servicy: Not surfaces 12.11 Surface (See) Specific Servicy: Not surfaces 12.12 Latent Hout of Vaportimizer: Not perfect 12.13 Hout of Combanitions (std.) 12.10 Stuffe = -8.500 solid = -200 X 10° July 12.10 Stuffe = -8.500 solid = -200 X 10° July 12.11 Specific See See See See See See See See See Se
S.1 Aquatic Toutothy: Data not available S.2 Westverteel Toutothy: Data not available S.3 Stategical Crypton Demand (SCO): Data not evailable S.4 Food Chain Concentration Patential: None S. SMPPING DIFFORMATION S.1 Greens of Purity: Whole crustots or various fractions, depanding on boiling point. All have similar properties. S.2 Stategie Temperature: Anthoni S.3 Stategie Temperature: Anthoni S.3 Stategie Temperature: Anthoni S.4 Vaniling: Open (States arrester)	12.5 Critical Temperaturis Not pertinent 12.7 Specific Gravity 1.05-1.00 of 15°C Specific 12.8 Liquid Surface Tensions (est.) 15 specific 9 solid Notes at 20°C 12.9 Liquid Surface Tensions (est.) 15 specific 9 solid Notes at 20°C 12.10 Vapor (See) Specific Servicy: Not surfaces 12.11 Surface (See) Specific Servicy: Not surfaces 12.12 Latent Hout of Vaportimizer: Not perfect 12.13 Hout of Combanitions (std.) 12.10 Stuffe = -8.500 solid = -200 X 10° July 12.10 Stuffe = -8.500 solid = -200 X 10° July 12.11 Specific See See See See See See See See See Se
S.1 Aquatic Toutothy: Data not available S.2 Westverteel Toutothy: Data not available S.3 Stategical Crypton Demand (SCO): Data not evailable S.4 Food Chain Concentration Patential: None S. SMPPING DIFFORMATION S.1 Greens of Purity: Whole crustots or various fractions, depanding on boiling point. All have similar properties. S.2 Stategie Temperature: Anthoni S.3 Stategie Temperature: Anthoni S.3 Stategie Temperature: Anthoni S.4 Vaniling: Open (States arrester)	92.5 Critical Temperaturis field partners 12.7 Specific Gravity; 1.05-1.00 of 15°C (Raids) 12.8 Liquid Surious Tensions (set.) 15 specific — 8.015 N/m at 20°C 12.9 Liquid Surious Tensions (set.) 15 specific — 8.015 N/m at 20°C 12.10 Vapor (San Beautis Tensions (set.) 20 symmetre — 8.020 N/m at 8°C 12.10 Ratio of Specific Health of Vapor (San); Not perfect 12.11 Ratio of Specific Health of Vapor (San); Not perfect 12.12 Latent Health of Vaporitarions: 12.13 Health of Communitiess (set.) 12.10 Stuffe — 48.000 ant/g — 200 X 10° J/mg 12.14 Health of Decompositions (set.) perfected 12.15 Specific Shaketer (set.) perfected 12.16 Stuffe of Physical partners 12.17 Stuffe of Physical Partners 12.25 Health of Physical Partners 12.25 Health of Physical Partners 12.25 Health of Physical Partners 12.27 Stuffe (San) 12.28 Library Valor: Date not available 12.37 Stuff (San) 12.38 Stuffe (San)

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Constan Bynony 1, 4-OmeBytoniane Xylol	From an water	Catorines Sweet ador Flavorable, intelling vapor is produced. g port is 64°F.	6,1 Flank 6,2 Flank 6,3 Fire 6 Chi	E. FIRE IMAZARDS Point B1F C.C. nosis Limbs in Air; 1.1%-6.8% intropulsiting Agents Feets, dry moot, or curion disoble julyanjahing Agents bat is be	M. BAZARD ASSESSMENT CODE (Boo Hagard Assessment Humbouk) A-T-U
Stop decharge of possible Keep psopts durby Cast the department Annot contact with legal and visitor spotes and remove discharges instant house, local health and political convey agains in		Liber 6.5 Speech Prop 6.5 Spetror and 6.7 Species	nd: Vision may be institution. al Islamands of Combinedish institute: Not personal inter in Fire; Vapor in hoover then sh inay send considerable distance to a roun of aprison and flesh back, pr Temporehard: 8707.	21. SEARCH CLASSIFICATIONS 11.1 Gode of Pederal Regulations: Financially light 11.8 MAS Meand Reling for Bulk Wyter Transportation: Category Reling Plan	
Fire	PLANKABLE Planthock along vapor frait may soon. Vapor may deplode if syntact in an emotivated area their sen commones treatming appears in Serveyah mith loan, dry phermodi, or deriven downote Water may be explicitly on the Cool emposed ophishers with nester.		6.9 Burea 6.10 Adam Con 6.11 Steam Con	nost trazent: Chan I, Group D ng Rote: 5.8 mm/min. odic Plane Temperuhine; a not avalishie hannanja Air te Peril Retlec a not avalishie a not avalishie) Temperahira: Data not avalishie	Vapor Inform
Exposure	CALL FOR MEDICAL AID YAPOR INTERING 10 sync, mass and Stroot if inhalted, red cause difference, drifted beneating, or loss of componentation. Move to feeth or if investing has seapped, give artifaced respiration. If presting in softend, give origin. LIOUND original paths and synce. Foresting is official, give origin. LIOUND original paths and synce. original paths and origin. Restrance consumerated cooring and shows flash inflation areas with planty of walls with planty of walls. If the ETES, hold synces spin of walls with planty of walls. If the ETES, hold synces spin of walls with planty of walls. If the CTES, hold synces spin of walls with man planty of walls. If the CTES, hold synces spin of walls with man planty of walls. If the CTES, hold synces spin of walls with man planty of walls. If the CTES, hold synces spin of walls with man planty of walls. If the CTES, hold synces spin of walls with man planty of walls. If the CTES, hold synces spin of walls with man planty of walls.		7.1 Reacth 7.2 Reacth 7.3 Reacth 7.3 Reactr 7.3 Reactr 7.4 Reactr 7.5 Polyme 7.5 Indian 7.6 Reactr 7.7 Reactr	CHEMICAL REACTIVITY vity With Water No reaction vity with Comman Materials: No cition y Ouring Transport: Stable Many Apenta for Acids and select Not persons or defendance or defendance persons ar of Polymentamore persons Rate pheacters to select): Date not available vity Group: 32	Reactivity (Other Chemicals
Water Pollution	MARKETAL TO ACUATIC LI Fouring to shortene May be deroperate if it while Noon, occal heats and wide House, operators of nearby	Me efficiele			12. PHYSICAL AND CHEMICAL PROPERTIES 12.1 Physical State at 16°C and 1 atric Usald 12.2 Solonolar Weight: 100.16 12.5 Solonolar Weight: 100.16 12.5 Solonolar Potes 280.17° w 120.3°C = 411.5°K 12.4 Preceding Potes
1. RESPONSE TO DISCHARGE (the Response throness Handbook) lease varying-high flavorability Eviposite area Should be removed Chemical and physical treatment		2. LABEL 2.1 Columny: Flammable Squid 2.2 Classe: 3	8.1 Aquete 22 8.3 Wateri 9.3 Geologi 0 & 8.4 Food C	WATER POLLUTION c Testicity: pennips to febregit/The/fresh sevier ovel Testicity: Date not available toal Cryppen Demands (BOO): //b in 5 days Chain Commenteration Perionitist: a not available	#E.PF = 13.9°C = 206.5°K 12.6 Critical Temperature: 942.4°C = 34.30°C = 916.2°K 12.6 Critical Pressure: 800.4 sin = 34.65 pee = 2.810 MM/m* 12.7 Specific Gravity: 9.801 Surface Temion: 82.3 dynamics: = 8.0203 M/m et 20°C 83.3 dynamics: = 8.0203 M/m et 20°C
1. CHEMIC 2.1 CO Composition Hydrocarbon 2.2 Fermula: p-C-Ni 8.3 880/UN Design 2.4 DOT 60 802-130 2.5 CAS Registry Ni	(CHs): eller: 3.2/1307 17	4. GESLEYABLE CHARACTERISTICS 4.1 Propuled State (an adopted): Light 4.2 Cotor: Calonese 4.3 Géor: Libe burgans; characteristic aramatic			19.8 Legald Worse Interfectal Yerostone 37.8 dynas/on = 0.0276 fe/m of 80°C 10.10 Vapor (flux) Synothic Grants; 10.11 State of Sportlic Heals of Vapor (flux): 12.71 12.12 Letter Heal of Vaporitarian; 15.0 Surfa = 81 de/g = 3.8 X 10° J/Mg
passe: gloves Symptoms Fell plan II tolon edown. II ingi Kathay and in 5.3 Treashment of E gargen II req. Ruth with wall 6.4 Threashed Limit 6.5 Shart Term Inh 6.6 Touchty by Ingi 6.1 Indiana.	citive Equipment Approval of prid hostis. white Expansies: Vapors do pride Arrige, commo severe so pride Arrige, commo severe so mandel, course resusal, vismitir are durange can second. proportive: Berkel, ATOON, revind draid, coal a doctor. BRGESTK per fair at linear 15 min. BRDE-1 (Valuet: 100 ppm: lat landson Livraige: 200 ppm for landson landso	as 500 mg/kg	8.1 Grades Purc 8.2 Stange 9.3 Inert Al 8.4 Verding	SHIPPING INFORMATION of Purity: Research; 90.09%; 90.9%; Yearwiset: 80.0% 9 Temperature: Ambient incomplexes: No requirement p: Open Reure arrester) of source-stockth	12.13 Start of Communitors —17.866 Starts — ——776.7 caldy ——600.41 X 10 ³ Jh 52.14 Head of Decemberation test perform 12.15 Start of Substant Hot perform 12.10 Start of Substant Hot perform 12.10 Start of Substant Hot perform 12.10 Start of Fundam 2012 caldy 12.20 Start of Fundam 2012 caldy 12.27 State Vapor Processor 8.34 pain 12.27 State Vapor Processor 8.34 pain
E. Vaper (Sac) Instant Connectication. Vapers cause a staff emarking of the eyes of recommy pysion if present in high compensation. The effect is instantion. E. Linds or Soots Instant Connectication Instant. If spilled on clothing and allowed by remain, may cause amonthing and redoming of the skin. E. Oder Threshald: 0.65 ppm E. 11 SDLH Value: 10,000 pmm				πε	

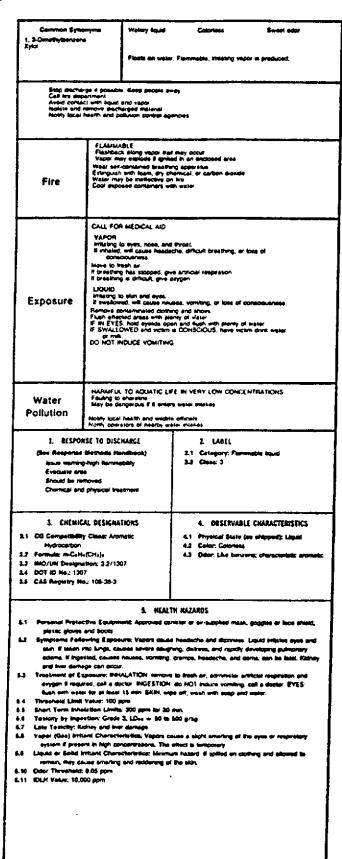
o-XYLENE



6. FIRE HAZARDS	24. RAZARD ASSESSMENT CODE
6.1 Floor Point 82°F C.C.; 75°F O.C. 6.2 Floorestic Limits in Air; 1,1%-7.0%	(See Hener) Assessment Hendpook) A-T-U
6.3 Fire Extinguishing Agents: Feen, By	A-1-5
"chomical as carbon double 6.4 Fire Estinguishing Agenta Heli te be	
Unioù: Water dayy be indirective. 6.5 - Special Hazarda of Combustion	E1. NAZARO CLASSIFICATIONS
Products: Not purport	11.1 Codo of Federal Regulations: Flammable Sould
6.6 Soherter in Fire; Vapor is heavier than air and may treval considerable distance to a	11.2 NAS Hazard Rating for Bulk Water
source of ignotion and flesh back. 4.7 synthon Temperature; 859°F	Transportation: Category Reting
6.6 Electrical Hazard: Class I, Group D	Fre 1
6.8 Burning Rate: 5.6 mm/mu. 6.10 Adiobalic Flame Temperature;	Veper intert1
Class not evaluatio 8.11 Escuchioniumoric Air to Fuel Rette:	Elgydd or Solid Intlant
Data not evaluable	West Polition Human Taxioty
8.12 Flame Temperoture: Data nos avaliable	Aquic Yorkiy
7. CHEMICAL REACTIVITY	Assentic Effect
7,1 Reactivity With Water: No reaction	Other Chemicals1
7.2 Reactivity with German Meterlata: No reaction	Self Reaction
7.3 Stability During Transport: Slable	11.8 MPPA Hazard Classification: Category Classification
7,4 Houtrelizing Agents for Acids and Counties, Hot partirent	Health Hezard (Size)
T.S. Polymortzetters Not pertunent T.S. Intitutes of Polymortzetters:	Pleasability (Red)
Mal pertinent	
7.7 Maler Ratio (Resotant to Freduct): Data not evalable	
7,6 Rescrivity Group: 32	
	· · · · · · · · · · · · · · · · · · ·
	12. PHYSICAL AND CHEMICAL PROPERTIES
	12.1 Physical State at 16°C and 6 place Light
	12.3 Meliocular Weight, 108.16 12.3 Selling Point at 1 pan;
	201.8°F = 144.4°C = 417.8°R
& WATER POLLUTION	12.4 Freezing Point: —13.5°F = —25.5°C = 248.0°K
E.1 Aquetic Tealony:	12.5 Critical Temperature: 674,9°F = 357.1°C = 630.3°K
> 100 mg/l/86 ts/O magns/TL_/fresh	12.6 Critical Pronounce 541.5 atm = 36.64 pain = 3.722
E.F. Webpriewi Textotty: Date not evaluable	MM/m ⁴
8.5 Biological Orygon Domand (BOO): 0 R/E: 6 days; 2.5% (Year.), Il days	12.7 Specific Gravity: 6.860 at 20°C Signal)
6.4 Food Chain Concentration Peterdist, Date not evaluable	12.6 Liquid Surface Tension: 20.53 dynas/cm = 0.03063 N/m at
Chief Lot Avenue	HT.C
	12.9 Liquid Water Intertucted Tension: 26.06 dynas/cm = 0.03805 H/m at
	BO'C
	12.10 Vapor (Gas) Specific Gravity; Nat perävert
Í	12.11 Ratio of Specific Heats of Yaper (Cas):
	12.12 Latert Heat of Vaporteriors 140 Sturb - 62.0 coVs -
9. SHIPPING INFORMATION	3.47 X 10° J/kg
g.t Grades of Parthy: Research: 99,90%; Puris: 99,7%; Commercial: 99 4 %	12.13 Flast of Combustion: —17,566 Bts/b = -6764.7 osl/g = —408.41 X 10 ⁴ J/bg
8.3 Standa Temperature: Ambient 9.3 Sourt Atmosphere: No reaction	\$2.14 Heat of Decomposition: Not paravors 12.16 Heat of Solution: Not paravors
B.d. Venting: Open (flette arreser) er gressure-recorfs	\$2.10 Heat of Polymertzation: Not pareners
	19.25 Neet of Pusion: 50.64 cs/g 19.35 Electing Value: Date not evaluable
1	12.27 Raid Vapor Processor D.24 pain
1	
	i
	· j
MOT	
	1







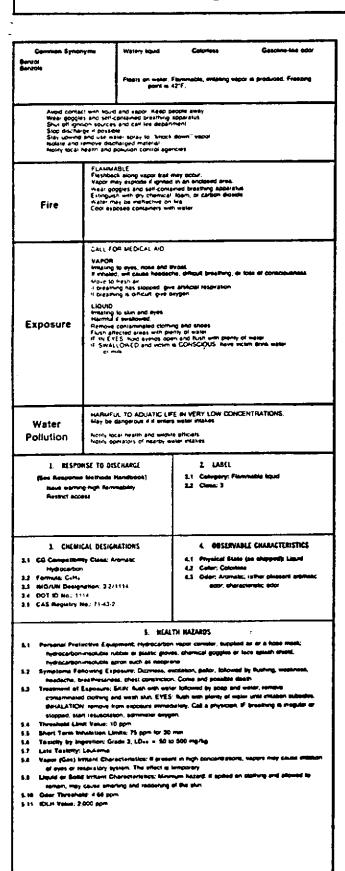
E. FIRE HAZARDS 6.1 Plant Point: 64°F C.C. 6.2 Plantmable Limits in Air; 1.1%-8,4% 6.3 Pine Estimputating Aponts: Foun, dry "obsenied, or carbon deads 6.4 Pine Estimputating Aponts: foun, dry "obsenied, or carbon deads 6.5 Pine Estimputating Aponts: list to be Mooit: Water may be treflective 6.3 Special Hazards of Combustion Predicts: Not performe 6.4 Behavior in Pine: Vagor or Anovas than or your may travel considerable desarce to a down of lynkon and Seeh back 6.7 Specialton Temporature: 80°F 6.8 Electrical Hazard: Close I, Group D 6.9 Burning Rote: 5.5 mm/mm. 6.10 Adiabatic Flants Temporature: Date not evaluable 6.11 Stability Desire Are to Fuel Rote: Date not evaluable 6.12 Flame Temporature: Date not evaluable 6.13 Plant Temporature: Date not evaluable 6.14 Reactivity with Water, he reaction 7.2 Reactivity with Common distorbic. No reaction 7.3 Stability During Transport: Stable 7.4 Newtracting Aponts for Acties and Caustics: Not performe 7.5 Polymentaction: Not performe 7.6 Defendent: Cate performe 7.7 Motor Rote (Procedant to Product): Date not evaluable 7.8 Reactivity Group: 32	II. HAZARD ASSESSMENT COOK (Blee Nazard Assessment Handbook) A-T-LI 11. HAZARD CLASSIFICATIONS 11.1 Gode of Federal Regulations: Flummable lipid 11.3 MAS Nazard Reting for Bulls Weter Transportation: Category Pleting Fits 2 Neath Vapor Interd 5 Lipid of Edd Interd 1 Palanta 2 Vigor Physics 1 Aquate Teachy 2 Acertack Effect 2 Reccivey Clies Chemicals 1 Water 0 Self Reccomm 0 11.3 MFPA Hazard Cleonification 1 Interd Hazard Cleonification 2 Flummable (Busy) 3
E. WATER POLLUTION 8.1 Aquatic Texicity: 22 ppm/98 te/bluogi/TL_/tresh water 8.2 Waterfoot Texicity: Oate not evadable 8.3 Biological Ozygen Demand (BOO): 0 b/D, 3 deys: 0'N (theor), 6 days 8.4 Faed Chain Concentration Personale: Date not evaluate 9. SMIPPING INTORNATION 8.1 Brades of Purity: Research, 98.9%, Purity, 98.9%, Technical: 98.2%, 9.3 Stateges Temperature, Advanced 9.4 Vending: Open Reme erresser) or pressure-valuaring	12. PHYSICAL AND CHEMICAL PROPERTIES 12.1 Physical State at 16°C and 3 atm. Liquid 12.2 Sentenute Weapin; 105.16 12.3 Senting Point at 1 atm. 200 6°F = 121.0°C = 405.1°K 12.4 Preceding Point —64.2°F = —67.0°C = 225.3°K 12.5 Critical Temperature: 850 8°F = 361.3°C = 617.0°K 12.6 Critical Temperature: 12.7 Specific Grevity: 6.864 at 30°C (Apaid) 12.8 Liquid Surface Temeter: 24.8 dynas/cm = 0.6264 N/m at 20°C 12.9 Liquid Wester Interfacial Temeter: 24.4 dynas/cm = 0.6264 N/m at 20°C 12.10 Vapar (Ziao) Specific Grevity: Not puriture! 12.11 Partie of Specific Hearts of Vapar (Gos): 1.071 12.12 Letwin Heart of Vaparization; 14.7 Shu/b = 61.5 cal/g = 3.43 X 10° J/kg 12.13 Perut of Combustion:—17.554 Shu/b = —972.4 6.01°C = —100.21 X 10° J/kg 12.14 Heart of Decomposition: Not puriture! 12.15 Heart of Polymerization; Not puriture! 12.16 Heart of Polymerization; Not puriture! 12.17 Related of Polymerization; Not puriture! 12.18 Letwin Liquid State ont available 12.21 Lighting Value: Date not available 12.22 Relat Vapar Pressure: 0.34 prins 12.23 Relating Value: Date not available 12.27 Relating Value: Date not available

(Carteer,

FIRE MAZARDS Plean Point OF CIC; 85°F D.C. Pleaning-to-Limits in Abr. 1,27%-7% Pric Extended Apprise Carbon diodolo or thy chanical for med fines, ordinary foun for large lines.	M. MAZARO ASSESSMENT CODE (Bee Hazard Assertant Handbook) A-Y-U
6.4 Fire Extinguishing Agents Not to be Used: Water may be indirected. 6.5 Special Hispanis of Combustion Products: Not pertnert. 6.1 General Programs of Combustion Products: Not pertnert. 6.1 General Programs of Seal Seal Seal Seal Seal Seal Seal Seal	11. HAZARD CLASSWICATIONS 11.1 Gode of Foderal Regulationa: Flammable Road 11.2 MAS Reazed Reting for Bulk Water Transportation: Collegery Stating Fre: 3 Neeth Vapor Wilarit: 1 Liquid or Solid Uniter: 1 Poisone 2 Weter Polation Human Toxicity: 1 Aquatic Toxicity: 2 Reachity Other Chemicals: 1 Water: 0 Self Reachity Chem Chemicals: 1 Calegory Classification Hazard Classification: 2 Fearmaphilip (Red): 2 Fearmaphilip (Red): 3 Reachity (Yether): 0 0
8. WATER POLLUTION 6.1 Aquatic Tostchy: 1100 mg/l/96 hr/ounleh/TL_/hesh neter 6.2 Waterburt Tostchy: Data not available 8.3 Biological Grypen Demand (BOO): 0%, 5 days, 36% (NaO), 8 days 6.4 Feed Chein Componitytion Patentist; Florie 9. SHIPPING INFORMATION 9.1 Streets of hydry: Remarch, respect, elevation-of 9.6 4 %; reduction, elevation 9.6 4 %; reduction, elevation 9.6 4 %; reduction, elevation 9.6 8 illerage Temporature, Ambiert 8.2 Storage Temporature, Ambiert 8.3 horst Abmosphere; to regularism 8.4 Versing: Open (Name amounts) or pressure-valuation	12. PRYSICAL AND CREMICAL PROPERTIES 12.1 Physical State at 19°C and 1 attac
S. FIRE MAZAR S.11 Stolchlometric Air to Fuel Retlox Data not av S.12 Floras Temperatura: Data not available	• •

BENZENE





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& FIRE HAZARDS	30. HAZARO ASSESSMENT CODE
6,1 Flesh Point: 12°F C.C.	(See Hezard Assessment Handbook)
8.2 Ferminable Limits in Air. 1.3%-7.5%	A-T-U-V-W
4.3 Pirg Estinguishing Agents: Dry Chemical foam or carbon though	
6.4 Fire Extinguishing Agents Not to be	· .
Used: Water may be indiffered 6.8 Special Heartie of Combustion	11. NAZARO CLASSIFICATIONS
6.8 Special Hearride of Combustion Products: Not partment	11.1 Code of Federal Regulations:
6.6 Between in Fire: Vapor is heaver than ar	Flammatic kg,rd 11.3 BAS Hazard Sating for Bull: Water
and may travel considerable distance to a source of gration and flash beck	Transportation:
6.7 Sention Temperature: 1097°F	Coloeory Rating
B.A. Electrical Hazard: Class I, Group D	Fee 3
6,9 Burning Role; 6.0 mm/mm 6.16 Adlabatic Floris Temperature:	Vapor Intant
Data not available	Liquid or Sand Present
6,11 Statchismotric Air to Fuel Retto:	Posers
Opto not everlative (LAS Flama Temperature; Opto not everlative	Human Touchy
	Aquate Yester 1 Agentuse Effect 3
7. CHEMICAL REACTIVITY	Reactivity
7,1 Resstivity With Water, his reaction	Other Chemisale 2
T.2 Rescrivity with Common Materials: No	Water
PRECION	11.3 MFPA Hazard Classification:
7.3 Stability During Transport: Stable 7.4 Moutralizing Agents for Acids and	Category Classification
Caustics: Not pertment	Health Hezerd (Blue)
7.5 Polymoritation: Not personni	Reactivity (Yellow) 0
7.6 Indigitor of Polymortation: Not periment	
7.7 Motor Ratto (Resciant to	
Products: Data not evention 7.8 Reactivity Group: 32	
7. Mostavay Group: 32	
+	
	12 PHYSICAL AND CHEMICAL PROPERTIES
	12,1 Physical State at 15°C and 1 atou
i	Liquel
	12.9 Majocalar Weight: 78 11 12.3 Bolling Point at 1 atms
	176°F = 80,1°C = 353,3°K
	12.4
& WATER POLLUTION	12.5 Critical Temperature:
6.1 Aquatic Yastatry:	652.0°F = 244.0°C = 562.1°K
\$ pps/\$ br/munow/lethal/distilled	#2.6 Critical Protector: 710 gap = 46.5 pin = 4.89 MH/m ²
20 ppm/24 te/bunkeh/TL_/Mo weller	12.7 Specific Gravity:
6.3 Waterland Taxiotty: Data not gradable	@&PE of 20°G (bqued) 12.6 Liquid Surface Termion:
8.3 Biological Ozygon Bornand (900): 1.2 lb/b, 10 days	28.8 dynas/cm = 0.0288 H/m at 20°C
E.I. Food Chain Concuntration Petertial.	12.0 Liquid Water Interfeeled Tonator:
None	35.0 synex/cm = 0.036 H/m at 20°C 12.18 Veger (Ges) Specific Gravity: 3.7
	12.11 Ratio of Specific Heats of Vapor (Cas):
	1.061
	12.17 Entered House of Vaportestion: 160 Bis/In = 94.1 En/g =
	3 94 X 10° J/1g
	12,13 Heat of Combuston:17,460 Stu/fb
a suspense perdenation	12.14 Heat of Decomposition: Not perform
S PHILLING MICKEVION	12,15 Heet of Solution: Not perform
9.1 Gradus of Furthy: industrial pure	12.15 Heat of Polymertzoller: Not pertinent 12.25 Heat of Fusion: 30.65 col/g
Trupparts-free	12.29 Limiting Value: Data not predate
###sien	(2.27 Rold Vapor Processes, 3.22 ptot
Assgert	
9.2 Storage Temperature; Open	
9.3 Shart Atmosphore: No requestrant 9.4 Yunting: Prosture-vacuum	
ao'	πες

USDOL/USB<u>ac</u>lab

SYNONYMS:

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PCBS

TRADE NAMES: (COMMONLY USED MONSANTO PRODUCTS)

ASKAREL**

AROCLOR 1 SERIES 1016, 1221, 1232, 1242, 1248,

1254, 1260 THERMINOL FR SERIES

CAS NO.:

001336363, 053469219, 012672296, 011097691, 011096825 AND OTHERS

WARNING STATEMENTS

FEDERAL REGULATIONS UNDER THE TOXIC SUBSTANCE CONTROL ACT REQUIRE PCB'S AND PCB ITEMS TO BE MARKED. (CHECK REGULATIONS FOR DETAILS.*)

C A U T I O N CONTAINS PCBS (POLYCHLORINATED BIPHENYLS)

A TOXIC ENVIRONMENTAL CONTAMINANT REQUIRING SPECIAL HANDLING AND DISPOSAL IN ACCORDANCE WITH U.S. ENVIRONMENTAL PROTECTION AGENCY REGULATIONS 40CFR 761. FOR DISPOSAL INFORMATION CONTACT THE NEAREST U.S. EPA OFFICE.

IN CASE OF ACCIDENT OR SPILL CALL TOLL FREE THE U.S. COAST GUARD NATIONAL RESPONSE CENTER 800-424-8802 ALSO CONTACT TEL. NO.

C A U T I O N - CONTAINS PCBS (POLYCHLORINATED BIPHENYLS) FOR PROPER DISPOSAL INFORMATION CONTACT U.S. ENVIRONMENTAL PROTECTION AGENCY

能设定和全国生产品中华的对表现实现有的自己的全种企业中的企业的实现的,但是这种企业的企业的企业的,但是是这种的企业的,但是是这种的企业的。

PRECAUTIONARY MEASURES

CARE SHOULD BE TAKEN TO PREVENT ENTRY INTO THE ENVIRONMENT THROUGH SPILLS, LEAKAGE, USE, VAPORIZATION, OR DISPOSAL OF LIQUID OR CONTAINERS. AVOID PROLONGED BREATHING OF VAPORS OR MISTS. AVOID CONTACT WITH EYES OR PROLONGED CONTACT WITH SKIN. IF SKIN CONTACT OCCURS, REMOVE BY WASHING WITH SOAP AND WATER. FOLLOWING EYE CNTACT, FLUSH WITH WATER. IN CASE OF SPILLAGE ONTO CLOTHING, THE CLOTHING SHOULD BE REMOVED AS SOON AS PRACTICAL, SKIN WASHED, AND CLOTHING LAUNDERED. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

EMERGENCY AND FIRST AID PROCEDURES

INGESTION:

CONSULT A PHYSICIAN. DO NOT INDUCE VOMITING OR GIVE ANY OILY LAXATIVES. NOTE TO PHYSICIAN: IF LARGE

FAX 801 524 4081

AMOUNTS ARE INGESTED, GASTRIC LAVAGE IS SUGGESTED.

SKIN:

IF LIQUID OR SOLID PCBS ARE SPLASHED OR SPILLED ON SKIN, CONTAMINATED CLOTHING SHOULD BE REMOVED AND THE SKIN WASHED THOROUGHLY WITH SOAP AND WATER. NOTE TO PHYSICIAN: HOT PCBS MAY CAUSE THERMAL BURNS.

EYES:

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EYES SHOULD BE IRRIGATED IMMEDIATELY WITH COPIOUS QUANTITIES OF RUNNING WATER FOR AT LEAST 15 MINUTES IF LIQUID OR SOLID PCBS GET INTO THEM. A PETROLATUM-BASED OPHTHALMIC OINTMENT MAY BE APPLIED TO THE EYE TO RELIEVE THE IRRITATING EFFECTS OF PCBS.

INHALATION:

REMOVE TO FRESH AIR. IF SKIN RASH OR RESPIRATORY

IRRITATION PERSIST, CONSULT A PHYSICIAN. NOTE TO PHYSICIAN: IF ELECTRICAL EQUIPMENT ARCS OVER, PCBS OR OTHER CHLORINATED HYDROCARBON DIELECTRIC FLUIDS MAY DECOMPOSE TO PRODUCE HCL, HYDROCHLORIC ACID, A RESPIRATORY IRRITANT.

OCCUPATIONAL CONTROL PROCEDURES

EYE PROTECTION:

WEAR CHEMICAL SPLASH GOGGLES AND HAVE EYE BATHS AVAIL-ABLE WHERE THERE IS SIGNIFICANT POTENTIAL FOR EYE CONTACT.

SKIN PROTECTION:

WEAR APPROPRIATE PROTECTIVE GLOVES AND PROTECTIVE CLO-THING THAT PROVIDE A BARRIER TO PREVENT SKIN CONTACT. CONSULT GLOVE MANUFACTURER TO DETERMINE APPROPRIATE TYPE GLOVE FOR GIVEN APPLICATION. WEAR CHEMICAL SAFETY GOGGLES AND A PACE SHIELD AND A PROTECTIVE APRON THAT PROVIDES A BARRIER WHEN SPLASHING IS LIKELY WASH IMMEDIATELY IF SKIN IS CONTAMINATED. REMOVE CON-

TAMINATED CLOTHING PROMPTLY AND LAUNDER BEFORE REUSE. CLEAN PROTECTIVE EQUIPMENT BEFORE REUSE. PROVIDE A SAFETY SHOWER AT ANY LOCATION WHERE SKIN CONTACT CAN OCCUR. WASH THOROUGHLY AFTER HANDLING. ATTENTION: REPEATED OR PROLONGED CONTACT MAY CAUSE CHLORACNE IN SOME PEOPLE.

RESPIRATORY PROTECTION:

AVOID BREATHING VAPOR OR MIST: USE NIOSH/MSHA APPROVED EQUIPMENT WHEN AIRBORNE EXPOSURE LIMITS ARE EXCEEDED. FULL FACEPIECE EQUIPMENT IS RECOMMENDED AND, IF USED, REPLACES NEED FOR FACE SHIELD AND/OR CHEMICAL SPLASE GOGGLES. CONSULT RESPIRATOR MANU-FACTURER TO DETERMINE TYPE EQUIPMENT FOR GIVEN APPLI-CATION. THE RESPIRATOR USE LIMITATIONS SPECIFIED BY NIOSE/MSHA OR THE MANUFACTURER MUST BE OBSERVED. HIGH AIRBORNE CONCENTRATIONS MAY REQUIRE USE OF SELF-CON-TAINED BREATHING APPARATUS OR SUPPLIED AIR RESPIRATOR. RESPIRATORY PROTECTION PROGRAMS MUST BE IN COMPLIANCE WITH 29 CFR PART 1910.134.

VENTILATION: PROVIDE VENTILATION TO CONTROL EXPOSURE LEVELS BELOW

AIRBORNE EXPOSURE LIMITS. USE LOCAL MECHANICAL EX-HAUST VENTILATION AT SOURCES OF AIR CONTAMINATION SUCE AS OPEN PROCESS EQUIPMENT.

AIRBORNE

EXPOSURE LIMITS: CHLORINATED BIPHENYL (APPROXIMATELY 42% CHLORINE)

OSHA PEL: 1 MG/M3 8-HR TIME-WEIGHTED AVERAGE - SKIN* ACGIH TLV: 1 MG/M3 8-HR TIME-WEIGHTED AVERAGE - SKIN* 2 MG/M3 SHORT-TERN EXPOSURE LIMIT - SKIN

CHLORINATED BIPHENYL (APPROXIMATELY 54% CHLORINE)

OSHA PEL: 0.5 MG/M3 8-HR TIME-WEIGHTED AVERAGE - SKIN* ACGIH TLV: 0.5 MG/M3 8-HR TIME-WEIGHTED AVERAGE -SKIN* 1 MG/M3 SHORT-TERM EXPOSURE LIMIT - SKIN*

* SKIN NOTATION MEANS THAT SKIN ABSORPTION OF THIS MATERIAL MAY ADD TO THE OVERALL EXPOSURE. AVOID SKIN CONTACT.

FIRE PROTECTION INFORMATION

FIRE AND EXPLOSION:

PCBS ARE FIRE-RESISTANT COMPOUNDS. THEY MAY DECOMPOSE TO FORM CO, CO2, HCL, PHENOLICS, ALDEHYDES AND OTHER TOXIC COMBUSTION PRODUCTS UNDER SEVERE CONDITIONS SUCH AS EXPOSURE TO FLAME OR HOT SURFACES.

AT TEMPERATURES IN THE RANGE OF 600-650C IN THE PRESENCE OF EXCESS OXYGEN PCBS MAY FORM POLYCELORI-NATED DIBENZOFURANS (PCDFS). LABORATORY STUDIES UNDER SIMILAR CONDITIONS HAVE DEMONSTRATED THAT PCBS DO NOT PRODUCE POLYCELORINATED DIBENZO-P-DIOXINS (PCDDS).

PCBS IN ELECTRICAL EQUIPMENT HAVE BEEN REPORTED TO PRODUCE BOTH CHLORINATED DIOXINS (PCDDS) AND FURANS DURING FIRE SITUATIONS. THESE COMBUSTION PRODUCTS MAY RESULT ALL, OR IN PART, FROM NON-PCB COMPONENTS OF THE

DIELECTRIC FLUIDS OR OTHER COMBUSTED MATERIALS. CON-SULT THE EQUIPMENT MANUFACTURER FOR INFORMATION REGARDING COMPOSITION OF THE DIELECTRIC FLUIDS IN ELECTRICAL APPARATUS.

STANDARD FIRE FIGHTING WEARING APPAREL AND SELF-CON-TAINED BREATEING APPARATUS SHOULD BE WORN WHEN FIGHT-ING FIRES THAT INVOLVE POSSIBLE EXPOSURE TO CHEMICAL COMBUSTION PRODUCTS. FIRE FIGHTING EQUIPMENT SHOULD BE THOROUGHLY CLEANED AND DECONTAMINATED AFTER USE.

IF A PCB TRANSFORMER IS INVOLVED IN A FIRE-RELATED INCIDENT, THE OWNER OF THE TRANSFORMER MAY BE REQUIRED TO REPORT THE INCIDENT. CONSULT AND FOLLOW APPROPRIATE FEDERAL, STATE, AND LOCAL REGULATIONS.

REALTH EFFECTS SUMMARY

SKIN CONTACT:

PCBS CAN BE ABSORBED THROUGH INTACT SKIN. LOCAL

ACTION ON SKIN IS SIMILAR TO THAT OF COMMON ORGANIC SOLVENTS WHERE CONTACT LEADS TO REMOVAL OF NATURAL FATS AND OILS WITH SUBSEQUENT DRYING AND CRACKING OF THE SKIN. A POTENTIAL EXISTS FOR THE CONTRACTING OF CHLORACNE.

EYE CONTACT:

THE LIQUID PRODUCTS AND THEIR VAPORS ARE MODERATELY IRRITATING TO EYE TISSUES.

INGESTION:

THE ACUTE ORAL TOXICITIES OF THE UNDILUTED COMPOUNDS ARE: LD50 RATS - 8.65 GM/KG FOR 42% CHLORINATED, AND 11.9 GM/RG FOR 54% CHLORINATED - "SLIGHTLY TOXIC."

INHALATION:

ANIMAL EXPERIMENTS OF VARYING DURATION AND AT DIFF-ERENT AIR CONCENTRATIONS SHOW THAT FOR SIMILAR EXPOSURE CONDITIONS, THE 54% CHLORINATED MATERIAL PRODUCES MORE LIVER INJURY THAN THE 42% CHLORINATED MATERIAL.

OTHER:

THERE ARE LITERATURE REPORTS THAT PCBS CAN IMPAIR REPRODUCTIVE FUNCTIONS IN MONKEYS. A STUDY REPORTED

IN THE LITERATURE WITH FEMALE RATS USING AROCLOR 1260 STATED THAT AROCLOR 1260 CAUSED LIVER CANCERS. MON-SANTO SPONSORED ANIMAL FEEDING STUDIES OF AROCLOR 1242 1254 AND 1260. THESE COMPOUNDS, FED TO BOTH SEXES OF RATS, DID NOT PRODUCE CANCERS. THE NATIONAL CANCER INSTITUTE PERFORMED A STUDY IN 1977 USING AROCLOR 1254 WITH BOTH SEXES OF RATS. NCI STATED THAT THE PCB, AROCLOR 1254, WAS NOT CARCINOGENIC UNDER THE CONDITION OF THEIR BIOASSAY.

THE CONSISTENT FINDING IN ANIMAL STUDIES PCBS IS THAT THEY PRODUCE LIVER INJURY FOLLOWING PROLONGED AND RE-PEATED EXPOSURE BY ANY ROUTE, IF THE EXPOSURE IS OF SUFFICIENT DEGREE AND DURATION. LIVER INJURY IS PRO-DUCED FIRST, AND BY EXPOSURES THAT ARE LESS. THAN THOSE REPORTED TO CAUSE CANCER IN RODENTS. THEREFORE, EXPOSURE BY ALL ROUTES SHOULD BE KEPT SUFFICIENTLY LOW TO PREVENT LIVER INJURY.

NUMEROUS EPIDEMIOLOGICAL STUDIES OF HUMANS, BOTH OCCUPATIONALLY EXPOSED AND NONWORKER ENVIRONMENTALLY

EXPOSED POPULATIONS, HAVE NOT DEMONSTRATED ANY STATIS-TICALLY SIGNIFICANT CASUAL RELATIONSHIP BETWEEN PCB EXPOSURES AND CHRONIC HUMAN ILLNESSES SUCH AS CANCER OR NEUROLOGICAL OR CARDIOVASCULAR EFFECTS. NOR WAS THERE ANY INCREASE IN OVERALL CANCER MORTALITY AS A RESULT OF PCB EXPOSURE. PCBS CAN CAUSE DERMATOLOGICAL SYMPTOMS; HOWEVER, THESE ARE REVERSIBLE UPON REMOVAL OF EXPOSURE SOURCE.

PCBS ARE IDENTIFIED AS HAZARDOUS CHEMICALS UNDER CRI-TERIA OF THE OSHA HAZARD COMMUNICATION STANDARD (29



August 13, 1991

18452,047.02

Wareham Property Group 1120 Nye Street, Suite 400 San Rafael, California 94901

Attention: Mr. Dan Nourse

Report Underground Storage Tank Removal 2855 Cypress Street Oakland, California

This letter presents to the Wareham Property Group (Wareham) the results of Harding Lawson Associates' (HLA's) environmental services during the removal of two underground storage tanks (UST's) at 2855 Cypress Street, Oakland, California (site). An area map showing the site location is presented in Plate 1. The work was performed in response to the discovery of the USTs and the detection of hydrocarbon odors in soil from a nearby excavation. The purpose of HLA's investigation was to observe and document tank removal activities and perform soil sampling. The work was performed in accordance with HLA's proposal dated March 7, 1991, and authorized by a signed HLA Service Agreement dated March 27, 1991.

BACKGROUND

Harding Lawson Associates (HLA) has provided Wareham Property Group with a Preliminary Hazardous Materials Site Assessment (PSA) report of the 2855 Cypress Street property dated September 5, 1990. The purpose of the PSA was to provide information about the site and surrounding area relative to the potential presence of hazardous materials. During the course of the PSA investigation a vent line was observed indicating that a UST may be present at the site. No records regarding the history, age, and integrity testing of the UST are currently available. HLA recommended in the PSA that the possible presence for a UST be further evaluated.

FIELD INVESTIGATION

Geophysical Investigation

HLA was authorized by Wareham to perform an underground tank evaluation at the site. Pursuant to HLA's proposal of February 14, 1991, a geophysical investigation was performed to locate a possible UST and associated pipelines. The geophysical

Engineering and Environmental Services

CFR PART 1910.1200). THE STANDARD REQUIRES THAT THIS DOCUMENT MENTION THAT PCBS HAVE BEEN LISTED IN THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS (1982)-GROUP 2B AND IN THE NATIONAL TOXICOLOGY PROGRAM (NTP) ANNUAL REPORT ON CARCINOGENS (THIRD).

PHYSICAL DATA

	TABLE 1	- PROPERTIES	OF SELECTED A	ROCLORS		
	PROPERTY	1016	1221	1232	1242	
	COLOR (APHA)	40	100	100	100	
	PHYSICAL STATE	MOBILE OIL	MOBILE OIL	MOBILE OIL	MOBILE OIL	
-	STABILITY	INERT	INERT	INERT	INERT	
•	DENSITY (LB/GAL 25C)	11.40	9185	10.55	11.50	
	SPECIFIC GRAVITY X/15.5C	1.36-1.37 X-25	1.18-1.19 X-25	1.27-1.28 x-25	1.30-1.39 x-25	
	DISTILLATION RANGE (C)	323-356	275-320	290-325	325-366	
	ACIDITY	.010	.014	0.14	.015	
	MG KOH/G, MAXIMUM					
•	FIRE POINT (C)	NONE TO BOILING POINT	176	238	NONE TO BOILING POINT	
	FLASH POINT (C)	170	141-150	152-154	176-180	
	VAPOR PRESSURE (MM HG @ 100F)	NA .	NA	0.005	0.001	
	VISCOSITY (SAYBOLT UNIV. SEC. @ 100F)	71-81	38-41	44-51	82-92	
	TABLE 1 - PROPERTIES OF SELECTED AROCLORS (CONT.)					

PROPERTY	1248	1254	1260
COLOR (APHA)	100	100	150
PHYSICAL STATE	MOBILE OIL	VISCOUS LIQUID	STICKY RESIN
STABILITY	INERT	INERT	INERT

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	DENSITY (LB/GAL 25C)	12.04	12.82	13.50	
*	SPECIFIC GRAVITY X/15.5C	1.40-1.41 X-65	1.49-1.50 X-65	1.55-1.56 x-90	
	DISTILLATION RANGE (C)	340-375	365-390	385-420	
	ACIDITY MG KOE/G, MAXIMUM	.010	.010	.014	
	FIRE POINT (C)	NONE TO BOILING	NONE TO BOILING	NONE TO BOILING	
		POINT	POINT	POINT	
3 1	PLASH POINT	193-196	NONE	NONE	
	VAPOR PRESSURE (MM EG @ 100F)	0.00037	0.00006	NA	
	VISCOSITY (SAYBOLT UNIV. SEC. @ 100 F)	_185-240	1800-2500	•••	
	NA - NOT AVAILABLE			•	
	REACTIVITY DATA				
				reresacac <u>es de</u> s coa	*****

PCE'S ARE VERY STABLE, FIRE-RESISTANT COMPOUNDS.

SPILL, LEAK AND DISPOSAL INFORMATION

DISPOSAL OF LIQUID PCBS AND OTHER PCB ITEMS IS STRICTLY REGULATED BY THE FEDERAL GOVERNMENT. THE REGULATIONS ARE FOUND AT 40 CFR PART 761. CONSULT THESE REGULATIONS AS WELL AS APPLICABLE STATE AND LOCAL REGULATIONS PRIOR TO ANY DISPOSAL OF PCBS, PCB ITEMS, OR PCB-CONTAMINATED ITEMS.

IF PCBS LEAK OR ARE SPILLED, THE FOLLOWING STEPS SHOULD BE TAKEN IMMEDIATELY:

ALL NON-ESSENTIAL PERSONNEL SHOULD LEAVE THE LEAK OR SPILL AREA.

THE AREA SHOULD BE ADEQUATELY VENTILATED TO PREVENT THE ACCUMULATION OF VAPORS.

THE SPILL/LEAK SHOULD BE CONTAINED. LOSS TO SEWER SYSTEMS, NAVIGABLE WATERWAYS AND STREAMS SHOULD BE PREVENTED. SPILLS/LEAKS SHOULD BE REMOVED PROMPTLY BY MEANS OF ABSORPTIVE MATERIAL, SUCH AS SAWDUST, VERMICULITE, DRY SAND, CLAY, DIRT OR OTHER SIMILAR MATERIALS, OR TRAPPED AND REMOVED BY PUMPING OR OTHER SUITABLE MEANS (TRAPS, DRIPPANS, TRAYS, ETC.).

PERSONNEL ENTERING THE SPILL OR LEAK AREA SHOULD BE FURNISHED WITH APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING AS NEEDED. SEE OCCUPATIONAL CONTROL PROCEDURES SECTION OF THIS MSDS.

PERSONNEL TRAINED IN THE EMERGENCY PROCEDURES AND PROTECTED AGAINST THE ATTENDANT HAZARDS SHOULD SHUT OFF SOURCES OF PCBS, CLEAN UP SPILLS, CONTROL AND REPAIR LEAKS AND FIGHT FIRES IN PCB AREAS.

ALL WASTES AND RESIDUES CONTAINING PCBS (E.G., WIPING CLOTES, ABSORBENT MATERIAL, USED DISPOSABLE PROTECTIVE GLOVES, CLOTHING, ETC.) SHOULD BE COLLECTED, PLACED IN PROPER CONTAINERS, MARKED AND DISPOSED OF IN THE MANNER PRESCRIBED BY EPA REGULATIONS (40 CFR PART 761) AND APPLICABLE STATE AND LOCAL REGULATIONS.

VARIOUS FEDERAL, STATE, AND LOCAL REGULATIONS MAY REQUIRE REPORTING OF PCB SPILLS AND MAY ALSO DEFINE SPILL CLEAN-UP LEVELS. CONSULT YOUR ATTORNEY OR APPROPRIATE REGULATORY OFFICIALS FOR INFORMATION RELATING TO SPILL REPORTING AND SPILL CLEAN-UP.

ADDITIONAL COMMENTS

POLYCHLORINATED BIPHENYLS

FOR REGULATORY PURPOSES, UNDER THE TOXIC SUBSTANCES CONTROL ACT THE TERM "PCB'S" REFERS TO A CHEMICAL SUBSTANCE LIMITED TO THE BIPHENYL MOLECULE THAT HAS BEEN CHLORINATED TO VARYING DEGREES OR ANY COMBINATION OF SUBSTANCES WHICH CONTAIN SUCH SUBSTANCE (40 CFR PART 761).

CHEMICALLY, COMMERCIAL PCBS ARE DEFINED AS A SERIES OF TECHNICAL MIXTURES, CONSISTING OF MANY ISOMERS AND COMPOUNDS THAT VARY FROM MOBILE OILY LIQUIDS TO WHITE CRYSTALLINE SOLIDS AND HARD NON-CRYSTALLINE RESINS. TECHNICAL PRODUCTS VARY IN COMPOSITION, IN THE DEGREE OF CHLORINATION AND POSSIBLY ACCORDING TO BATCH.

THE MIXTURE GENERALLY USED CONTAINS AN AVERAGE OF 3 ATOMS CHLORINE PER MOLECULE (42% CHLORINE) TO 5 ATOMS OF CHLORINE PER MOLECULE (54% CHLORINE). THEY ARE USED AS COMPONENTS OF DIELECTRIC FLUIDS IN TRANSFORMERS AND CAPACITORS. PRIOR TO 1972, PCB APPLICATIONS INCLUDED HEAT TRANSFER MEDIA, HYDRAULIC AND OTHER INDUSTRIAL FLUIDS, PLASTICIZERS, CARBONLESS

PAPER, PAINTS, INKS AND ADHESIVES. FEDERAL REGULATIONS SPECIFY THAT NON-TOTALLY ENCLOSED PCB ACTIVITIES ARE PERMITTED ONLY IF SPECIFICALLY EXEMPTED OR AUTHORIZED. (40 CFR PART 761).

CAS NO. 001336363: FOR GENERAL CLASS OF COMPOUNDS

TRADE NAMES/COMMON NAMES

**ASKAREL - GENERIC NAME FOR A BROAD CLASS OF FIRE-RESISTANT SYNTHETIC CHLORINATED HYDROCARBONS AND MIXTURES USED AS DIELECTRIC FLUIDS THAT COMMONLY CONTAINED ABOUT 30-70% PCBS. SOME ASKAREL FLUIDS CONTAINED 99% OR GREATER PCBS.

PYRANOL AND INERTEEN ARE TRADEMARKS FOR COMMONLY USED DIELECTRIC FLUIDS THAT MAY HAVE CONTAINED VARYING RATIOS OF

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USDOL/OSHA/LAD

PCBS. SOME ASKAREL FLUIDS CONTAINED 99% OR GREATER PCBS.

PYRANOL AND INERTEEN ARE TRADEMARKS FOR COMMONLY USED DIELECTRIC FLUIDS THAT MAY HAVE CONTAINED VARYING RATIOS OF PCBS AS WELL AS OTHER COMPONENTS INCLUDING CHLORINATED BENZENES.

THIS LIST OF TRADE NAMES IS REPRESENTATIVE OF SEVERAL COMMONLY USED MONSANTO PRODUCTS (OR FORMULATED WITH MONSANTO PRODUCTS). OTHER TRADE-MARKED PCB PRODUCTS WERE MARKETED BY MONSANTO AND OTHER MANUFACTURERS. PCBS WERE ALSO MANUFACTURED AND SOLD BY SEVERAL EUROPEAN AND JAPANESE COMPANIES. CONTACT THE MANUFACTURER OF THE TRADEMARKED PRODUCT DIRECTLY, IF NOT IN THIS LISTING, TO DETERMINE IF THE FORMULATION CONTAINED PCBS AND ITS COMPOSITION.

DATE: 10/15/85

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MSDS NUMBER: S00010793

FAX 801 524 4081 05DUL/USHA/LAD

-----FOR PRODUCT AND SALES INFORMATION----

CONTACT YOUR LOCAL VAN WATERS & ROGERS BRANCH OFFICE

-----PRODUCT IDENTIFICATION----

PRODUCT NAME: CREOSOTE COMMON NAMES/SYNONYMS: NONE CAS NO.: UNASSIGNED

46) (

VW&R CODE: P5803

FORMULA: MIXTURE

EAZARD RATING (NFPA 704 CRITERIA)

HEALTH: 1 FIRE: 2

REACTIVITY: 0 SPECIAL: NONE DATE ISSUED: 08/88 SUPERCEDES: NONE HAZARD RATING SCALE:

0=MINIMAL 3=SERIOUS 1=SLIGHT 4=SEVERE

2-MODERATE

------HAZARDOUS INGREDIENTS-----

			EXPOSU OSEA	RE LIMI ACGIH	TS, PPM OTHER	
	61 6 NO	Ł	PEL	TLV	LIMIT	HAZARD
COMPONENT	CAS NO.	<0.5	NONE	NONE	NONE	NONE
1-NAPHTHONITRILE	86-53-3	>0.5	NONE	NONE	NONE	NONE
3-METHYLDIPHENYLENE	UNREPORTED		NONE	HONE	MONE	
		<3.0	NONE	NONE	NONE	NONE
2-NAPHTHONITRILE	613-46-7	<0.5	NONE	NONE	NONE	NONE
9-10 DIHYDRO-	UNREPORTED	>0.5	MONE	MONE	110110	
ANTHRACENE		<3.0	NONE	NONE	NONE	NONE
2-METHYLFLUORENE	UNREPORTED	>0.5	NONE	MONE	110112	
		<3.0				
	122 65 0	>0.5	NONE	NONE	NONE	NONE
DIPHENYLENE	132-65-0	<3.0	HOND	110112	.,,,,,,	
SULFIDE	05 01 0	>5.0	NONE	NONE	NONE	NONE
PEENANTHRENE	85-01-8	>3.0	NONE	NONE	NONE	NONE
ANTHRACENE	UNREPORTED	<5.0	HONE	HOHE		
	360 04 6	<0.5	NONE	NONE	NONE	NONE
ACRIDENE	260-94-6	>0.5	NONE	NONE	NONE	NONE
3-METHYLPHENAN-	UNREPORTED	<3.0	HORE	NONE		
TERENE	86-74-8	>0.5	NONE	NONE	NONE	NONE
CARBAZOLE	00-/4-0	<3.0	140110		•	
4 E MARKET BURDERS	UNREPORTED	>0.5	NONE	NONE	NONE	NONE
4,5 METHYLENEPHEN-	UNKEPORTED	<3.0				
ANTHRENE	UNREPORTED	<0.5	NONE	NONE	NONE	NONE
2-METHYLANTHRA-	UNREPURIED	(0.5	110112			
CENE	779-02-2	>0.5	NONE	NONE	NONE	NONE
9-methylantura-	113-02-4	<3.0	NOND	******	510	
CENE	UNREPORTED	>0.5	NONE	NONE	NONE	NONE
2-METHYLCARBAZOLE	UNKEPOKTED	ζ3.0	110112			
	206-44-0	<5.0	NONE	NONE	NONE	NONE
FLUORANTHENE	UNREPORTED	>0.5	NONE	NONE	NONE	NONE
1,2 BENZODIPHENY-	UNKEPUKTED	<3.0	2			
LENE		(3.0				
marm marmi	129-00-0	>0.5	NONE	NONE	NONE	NONE
PYRENE	129-00-0	<3.0	-1441-	•••		-
BENZOFLUORENE	UNREPORTED	>0.5	NONE	NONE	NONE	NONE
DENAUT BUCKERS	OTTION OWNERS	<3.0				
CHRYSENE	2-18-01-9	>0.5	NONE	NONE	NONE	NONE
CHAIGENE		,,,,,			•	

(9)

<3.0

NONE

USDOL/OSHA/LAB

NONE

UNIDENTIFIED UNREPORTED <5.0 NONE NONE COMPOUND IN DISTILLATE

-----PHYSICAL PROPERTIES-----

BOILING POINT, DEG F: 410-797 VAPOR PRESSURE, MM EG/20 DEG C: 80 MELTING POINT, DEG F: NOT APPLICABLE VAPOR DENSITY (AIR=1): >1 SPECIFIC GRAVITY (WATER=1): 1.03-1.18 WATER SOLUBILITY, %: INSOLUBLE

APPEARANCE AND ODOR: DARK EVAPORATION RATE (BUTYL ACETATE=1): <1 BROWN LIQUID WITE A PENETRATING SMOKEY ODOR AND A BURNING CAUSTIC TASTE.

FIRST AID MEASURES

IF INHALED: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET IMMEDIATE MEDICAL ATTENTION.

IN CASE OF EYE CONTACT: IMMEDIATELY FLUSH EYES WITH LOTS OF RUNNING WATER FOR 15 MINUTES; LIFTING THE UPPER AND LOWER EYELIDS OCCASIONALLY. GET IMMEDIATE MEDICAL ATTENTION.

IN CASE OF SKIN CONTACT: IMMEDIATELY WASH SKIN WITH LOTS OF SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES; WASH BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS AFTER WASHING.

IF SWALLOWED: IF CONSCIOUS, IMMEDIATELY INDUCE VOMITING BY GIVING 2 GLASSES OF WATER AND STICKING A FINGER DOWN THE THROAT. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

-----HEALTH HAZARD INFORMATION-----

PRIMARY ROUTES OF EXPOSURE: SKIN OR EYE CONTACT, INHALATION.

SIGNS AND SYMPTOMS OF EXPOSURE : INHALATION: BREATHING VAPOR MAY IRRITATE THE NOSE AND THROAT AND CAUSE COUGHING AND CHEST DISCOMFORT. PROLONGED EXPOSURE CAN RESULT IN ACUTE TOXIC EFFECTS SUCH AS RESPIRATORY DIFFICULTY, CONVULSIONS AND POSSIBLE CARDIOVASCULAR COLLAPSE.

EYE CONTACT: VAPORS WILL IRRITATE THE EYES. LIQUID AND MISTS WILL IRRITATE AND MAY BURN THE EYES.

SKIN CONTACT: NO IRRITATION IS LIKELY AFTER BRIEF CONTACT BUT MAY BE IRRITATING AFTER PROLONGED CONTACT.

SWALLOWED: IRRITATION OF THE GASTRO INTESTINAL TRACT FOLLOWED BY NAUSEA AND VOMITING, ABDOMINAL DISCOMFORT, RAPID PULSE, CARDIOVASCULAR COLLAPSE MAY OCCUR. FATAL DOSE IS APPROXIMATELY 0.1 G/KG OF BODY WEIGHT.

CHRONIC EFFECTS OF EXPOSURE: PROLONGED AND REPEATED SKIN EXPOSURE MAY LEAD TO CHANGES IN SKIN PIGMENTATION, BENIGN SKIN GROWTES AND MAY IN SOME CASES, RESULTS IN SKIN CANCER.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE REPORTED.

----TOXICITY DATA-----

ORAL: NO DATA FOUND

DERMAL: NO DATA FOUND

INHALATION: NO DATA FOUND

CARCINOGENICITY: THIS MATERIAL IS NOT CONSIDERED TO BE A CARCINOGEN BY THE NATIONAL TOXICOLOGY PROGRAM, THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER, OR THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

OTHER DATA: NONE

-----PERSONAL PROTECTION-----

VENTILATION: LOCAL MECHANICAL EXHAUST VENTILATION CAPABLE OF MINIMIZING EMISSIONS AT THE POINT OF USE.

RESPIRATORY PROTECTION: WEAR A NIOSH-APPROVED RESPIRATOR APPROPRIATE

FOR THE VAPOR OR MIST CONCENTRATION AT THE POINT OF USE. APPROPRIATE RESPIRATORS MAY BE A FULL FACEPIECE OR A HALF MASK AIR-PURIFYING CART-RIDGE RESPIRATOR EQUIPPED FOR ORGANIC VAPORS/MISTS, A SELF-CONTAINED BREATHING APPARATUS IN THE PRESSURE DEMAND MODE, OR A SUPPLIED-AIR RESPIRATOR.

EYE PROTECTION: CHEMICAL GOGGLES AND FULL FACE SHIELD. IT IS GENERALLY RECOGNIZED THAT CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH CEEMICALS BECAUSE CONTACT LENSES MAY CONTRIBUTE TO THE SEVERITY OF AN EYE INJURY.

PROTECTIVE CLOTHING: LONG-SLEEVED SHIRT, TROUSERS, SAFETY SHOES, RUBBER GLOVES, AND RUBBER APRON.

OTHER PROTECTIVE MEASURES: AN EYEWASH AND SAFETY SHOWER SHOULD BE NEARBY AND READY FOR USE.

------FIRE AND EXPLOSION INFORMATION------

FLASH POINT, DEG F: 158 METHOD USED: CC

FLAMMABLE LIMITS IN AIR, & LOWER: N/D UPPER: N/D

EXTINGUISHING MEDIA: USE WATER SPRAY, DRY CHEMICAL, CO2, OR ALCOHOL FOAM. DO NOT USE A DIRECT WATER STREAM.

SPECIAL FIRE FIGHTING PROCEDURES: FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. USE WATER SPRAY TO COOL NEARBY CONTAINERS AND STRUCTURES EXPOSED TO FIRE.

UNUSUAL FIRE AND EXPLOSION HAZARDS: EXTINGUISH ALL NEARBY SOURCES OF IGNITION.

-----HAZARDOUS REACTIVITY-----

STABILITY: STABLE POLYMERIZATION: WILL NOT OCCUR CONDITIONS TO AVOID: HEAT, SPARKS, AND OPEN FLAMES.

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MATERIALS TO AVOID: STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS: MAY LIBERATE CARBON MONOXIDE AND CARBON DIOXIDE.

ACTION TO TAKE FOR SPILLS OR LEAKS: WEAR PROTECTIVE EQUIPMENT INCLUDING RUBBER BOOTS, RUBBER GLOVES, RUBBER APRON, AND A SELF-CONTAINED BREATHING APPARATUS IN THE PRESSURE DEMAND MODE OR A SUPPLIED-AIR RESPIRATOR. IF THE SPILL OR LEAK IS SMALL, A FULL FACEPIECE AIR-PURIFYING CARTRIDGE RESPIRATOR EQUIPPED FOR ORGANIC VAPORS MAY BE SATISFACTORY. IN ANY EVENT, ALWAYS WEAR EYE PROTECTION. EXTINGUISH ALL IGNITION SOURCES AND ENSURE THAT ALL HANDLING EQUIPMENT IS ELECTRICALLY GROUNDED. FOR SMALL SPILLS OR DRIPS, MOP OR WIPE UP AND DISPOSE OF IN DOT-APPROVED WASTE CONTAINERS. FOR LARGE SPILLS, CONTAIN BY DIKING WITH SOIL OR OTHER NON-COMBUSTIBLE ABSORBENT MATERIALS AND THEN PUMP INTO DOT-APPROVED WASTE CONTAINERS; OR ABSORB WITH NON-COMBUSTIBLE SORBENT MATERIAL, PLACE RESIDUE IN DOT-APPROVED WASTE CONTAINERS. KEEP OUT OF SEWERS, STORM DRAINS, SURFACE WATERS, AND SOIL.

COMPLY WITH ALL APPLICABLE GOVERNMENTAL REGULATIONS ON SPILL REPORTING, AND HANDLING AND DISPOSAL OF WASTE.

DISPOSAL METHODS: DISPOSE OF CONTAMINATED PRODUCT AND MATERIALS USED IN CLEANING UP SPILLS OR LEAKS IN A MANNER APPROVED FOR THIS MATERIAL. CONSULT APPROPRIATE FEDERAL, STATE AND LOCAL REGULATORY AGENCIES TO ASCERTAIN PROPER DISPOSAL PROCEDURES.

NOTE: EMPTY CONTAINERS CAN HAVE RESIDUES, GASES AND MISTS AND ARE SUBJECT TO PROPER WASTE DISPOSAL, AS ABOVE.

HANDLING AND STORAGE PRECAUTIONS: KEEP AWAY FROM HEAT, SPARKS, AND

FLAMES. STORE IN A COOL, DRY, WELL-VENTILATED PLACE AWAY FROM INCOM-PATIBLE MATERIALS. VENT CONTAINER FREQUENTLY, AND MORE OFTEN IN WARM WEATHER, TO RELIEVE PRESSURE. ELECTRICALLY GROUND ALL EQUIPMENT WHEN HANDLING THIS PRODUCT AND USE ONLY NON-SPARKING TOOLS. REEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. DO NOT USE PRESSURE TO EMPTY CONTAINER. WASH THOROUGHLY AFTER HANDLING. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.

REPAIR AND MAINTENANCE PRECAUTIONS: DO NOT CUT, GRIND, WELD, OR DRILL ON OR NEAR THIS CONTAINER.

OTHER PRECAUTIONS: CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, WILL RETAIN PRODUCT RESIDUE AND VAPORS. ALWAYS OBEY HAZARD WARNINGS AND HANDLE EMPTY CONTAINERS AS IF THEY WERE FULL.

------PREPARATION INFORMATION-----

CONTACT MSDS CO-ORDINATOR, VAN WATERS & ROGERS INC. DURING BUSINESS HOURS, PACIFIC TIME (408)435-8700

-----NOTICE-----

**VAN WATERS & ROGERS LTD. EXPRESSLY DISCLAIMS ALL EXPRESSED OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WITH

DEES
EXCAVATION
AN ENVIROMENTAL COMPANY
3645 Leafwood Circle, Antioch, Ca. 94509
415-757-7712

APRIL 12, 1991

Subject: Medical Fitness
Employee training 29 CFR 1910.

TRAINING

All personnel that will be assigned or work on this project have received the required 40 hour OSHA training and the 8 hour refresher training if their training was more than a year ago. In addition all drivers have received their 24 hour DOT training. This includes all subcontractors who will work on this project, KVS transportation, Erickson Trucking, and Craig Wright who presently instructs the course. Under no circumstance will any person work on this project who has not received this training.

MEDICAL

All personnel for Dees Excavation, KVS transportation, and Erickson trucking have received thier pre-placement as well as their annual examinations and meet all requirements as well as all recommentdations for occupational health monitoring. This also includes drug screening.

(23) EVALUATION CRITERIA FOR PRE-EMPLOYMENT EXAM

Experience In Providing Pre-employment Screening.

A. History and Scope

Occupational Medicine Associates, which is a DRA for the occupational medicine practice component of the Sun Valley Medical Group, has extensive experience in the provision of pre-employment screening. We also have broad-based experience in developing, implementing and monitoring pre-placement screening programs as well as Functional Capacity Assessment and Return to Work programs for both small and large clients.

We provide a variety of pre-placement screening evaluations for our clients based upon their needs. This often requires us to perform several types of physicals for a single client based upon different job categorizations and tasks. Our experience has shown us that the best possible pre-placement screening can be performed when our clients and the providers of our medical group have a clear, concise, mutual understanding of specific job task requirements for each category of employee.

We conduct screening programs in a manner that complies with legal, ethical, invasion of privacy and medical considerations. These include Title VII of Civil Rights Act of 1964, applicable state laws, the Federal Rehabilitation Act of 1973 and the recently enacted Americans With Disabilities Act.

B. Provider Expertise

Our primary providers have been specifically designated by a number of entities who only utilize select, experienced providers and clinics to provide their screening evaluations. This list includes:

Lucky Stores
United States Postal Service
Federal Aviation Administration
California Highway Patrol
Department of Rehabilitation
San Francisco Board of Pilots
U.S. Nuclear Regulatory Commission
OCCUMED
City of Moraga
City of Pleasant Hill
City of Walnut Creek

These relationships require Occupational Medicine Associates and its primary providers to be experienced in providing screening in a tightly structured and controlled system that follows specific medical qualifications, standards, and procedures to ensure fair and consistent application of the program.

As noted above, we are providers to the highly structured OCCUMED medical screening program. are the only East Bay providers for the San Francisco Board of Pilots detailed medical program. We are one of the highest volume providers of medical screening for the FAA in the Bast Bay. Additionally, we are one of only a few designated non-FAA employed physicians to provide pre-placement and annual medical screening for Air Traffic Controllers. We do extensive work for the Department of Transportation and interpret their Motor Carrier Safety Regulations. We are familiar government's extensive with the federal interpretations of these regulations and utilize them as well as our own internal network of physicians and the Oakland, Concord and Sacramento offices of the Department of Motor Vehicles Driver Safety Divisions. We have frequently participated in the exacting process of determining fitness under these regulations as a part of the DMV appeal process initiated after an employer has reported a disqualified driver to the DMV as required by California Vehicle Code 14606 B.

C. <u>Special Projects Expertise</u>

Occupational Medicine Associates and Dr. Shoop have developed a pre-placement medical evaluation program that is very similar to the medical evaluation requirements of Alameda County's Class This project requires II medical evaluations. pre-placement 8,000 to administrating up throughout Northern annually evaluations | The program has included providing California. over 100 physical evaluations per month at our San We have identified more than Leandro clinic. twenty other medical providers throughout Northern California to include in the program based upon and ability to experience their appropriate medical screening in a timely manner. The project is administered and controlled from our San Leandro clinic. The two physicians are the program Medical Review Officers and review every physical evaluations performed for thoroughness, completeness and appropriateness of the fitness

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determination and are responsible for the medical quality of the project.

D. Bystems Development

The project described above required us to develop systems, protocols and quality assurance systems to handle a high volume of pre-placement screens with two days' notice of the needed appointment as well as the requirement for prompt determinations and communication of results with a minimum of paperwork. This program also has necessitated the development of systems for identifying pre-existing medical conditions and making prompt specific determinations. This requires the ability to quickly and thoroughly communicate with many private physicians so that Occupational Medicine Associates providers have any and all additional necessary to make information well-informed determination based on objective medical data.

This large program also involves pre-placement drug screening of each applicant. We act as the program administrator as well as functioning as the Medical Review Officer, utilizing our expertise in administrating such programs.

E. Hazardous Exposure Screening

Occupational Medicine Associates has experience and expertise in the provision of pre-employment screening for individuals who may, in the course of their work, be exposed to biologically and chemically hazardous materials. We have developed programs for a variety of employers that meet all OSHA and SARA requirements. This includes the performance of medical surveillance evaluations for asbestosis, respirator fitness, formaldehyde and lead standards, as examples.

In addition to providing these types of surveillance examinations, we also act in the capacity of the Medical Review Officer and medical consultant to a regional firm and an international firm, providing medical control for their surveillance programs.

F. Federally Mandated Drug Screening Programs

Occupational Medicine Associates physicians also serve as formally designated Medical Review Officers for a variety of companies required to test for substances of abuse by the Department of Transportation. This includes implementation and interpretation of drug testing programs required by the Federal Aviation Administration, Urban Mass Transit Authority and the Federal Highways Administration. Part of this project requires us to perform fitness evaluations as part of the mandated return to work fitness evaluation program.

Dr Shoop is a licensed physician with the knowledge of substance abuse disorders who has appropriate medical training to interpret the value of positive urine drug and alcohol test results. Dr. Shoop has been a practicing physician since 1970. His primary practice until 1984 consisted primarily of the practice of Emergency Medicine which required knowledge regarding substance abuse disorders and their treatment and interpretations. He has been practicing full time Occupational Medicine since 1984 and has been serving as a Medical Review Officer formally since 1986. He has attended courses regularly presented by a variety of medical education providers on this subject including the American College of Occupational Medicine. He has extensive experience in performing fitness evaluations of individuals in all aspects of Occupational Medicine. This includes the evaluating of individuals who have suffered from substance abuse disorders. This requires making determinations regarding their medical fitness to perform their required job tasks.

In order to assure a high level of understanding on the part of our providers, Dr. Shoop has developed, organized, and presented seminars concerning the D.O.T required drug testing program. A major component of these continuing education seminars has been the specific role of the MRO.

Dr. Shoop has broad-based clinical experience in the field of Occupational Medicine. His practice consists of providing care for Workers Compensation illnesses and injuries, pre-placement and annual evaluations, return to work evaluations, and function capacity assessments. This clinical experience is augmented by his role as Managing Partner of the Sun Valley Medical Group and Occupational Medicine Associates where he has developed treatment guidelines and protocols and quality assurance programs. He also manages a large project involving over 25 medical clinics in a pre-Northern throughout evaluation project placement medical California. This project includes MRO responsibilities. Dr. Shoop performs fitness evaluations as required under the Department of Transportation regulations for it's various agencies under the federal Drug Free Workplace Act. Dr. Shoop has attended formally presented programs for Medical Review Officers presented by the Administration and the Department Aviation Dr. Shoop is board certified in Emergency Transportation. Medicine.

Dr. Shoop has knowledge of the medical use of prescription drugs and the pharmacology and toxicology of illicit drugs based on sixteen years in clinical practice. In addition, continuing education classes and focused review of medical literature have provided knowledge of the pharmacology and toxicology of the illicit drugs that will be tested for by this project.

Certificate of Training

HAZARDOUS WASTE OPERATIONS

DICK CURTIS

has completed a required course of Initial 40 hour classroom instruction in accordance with the requirements of 29 CFR 1910.120 - Hazardous Waste Operations and Emergency Response.

KERN ENCIRONMENTAL SERVICE

A Division of Rem Backhoe Service, Inc.

FRANK R. ROSENLIEB

DENNIS POWERS

12-17-89

Tertificate of Training

HAZARDOUS WASTE OPERATIONS

Eugenio Bustamante

has completed a required course of initial 40 hour classroom Instruction in accordance with the requirements of 29 CFR 1910.120 - Hazardous Waste Operations and Emergency Response.

KERN ENUIRONMENTAL SERVICE

A Division of Kern Backhoe Service, Inc.

Dennis Powers

IN WEST

Rod Williams

3-3-90 DATE

Tertificate of Training

HAZARDOUS WASTE OPERATIONS

HTIMS NOG

has completed a required course of initial 40 hour classroom instruction in accordance with the requirements of 29 CFR 1910.120 - Hazardous Waste Operations and Emergency Response.

KERN ENUIRONMENTAL SERVICE

A Division of Kern Backhoe Service, Inc.

KANK R. KOSENLIE

DENNIS POWERS

DECEMBER 17, 1989

HAZARDOUS WASTE OPERATIONS

DON BAKER

has completed a required course of initial 40 hour classroom instruction in accordance with the requirements of 29 CFR 1910.120 - Hazardous Waste Operations and Emergency Response.

KERN ENUIRONMENTAL SERVICE

A Division of Kem Backhee Service, Inc.

SERVICE

PRANK R. ROSENLIER

1

DENNIS POWERS

JANUARY 12, 1990

Tertificate of Training

HAZARDOUS WASTE OPERATIONS

DAVID RUOZI

has completed a required course of initial 40 hour classroom instruction in accordance with the requirements of 29 CFR 1910.120 - Hazardous Waste Operations and Emergency Response.

KERN ENUIRONMENTAL SERVICE

A Division of Kem Backhoe Service, Inc.

ROD WILLIAMS

ROD WILLIAMS

DENNIS POWERS

1-15-91 DATE

Certificate of Training

HAZARDOUS WASTE OPERATIONS

HAROLD O'NEAL

has completed a required course of initial 40 hour classroom instruction in accordance with the requirements of 29 CFR 1910.120 - Hazardous Waste Operations and Emergency Response.

KERN ENUIRONMENTAL SERVICE

A Division of Rem Beckhoe Service, Inc.

FRANK R. ROSENLIER

DENNIS POWERS

JANUARY 12. 1990