

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 Incon Facility Today's Date 11/18/92
 Site Address 1021 Grumman EPA ID# _____
 City Oak Zip 94621 Phone _____

MAX Amt. Stored > 500lbs/55g/200cf? Y N
 Hazardous Waste generated per month? _____

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

I.A GENERATOR (Title 22)

- | | | |
|-----|-----------------------------|---------|
| ___ | 1. Waste ID | * 66471 |
| ___ | 2. EPA ID | 66472 |
| ___ | 3. > 90 days | 66508 |
| ___ | 4. Label dates | 66508 |
| ___ | 5. Biennial | 66493 |
| ___ | 6. Records | 66492 |
| ___ | 7. Correct | 66484 |
| ___ | 8. Copy sent | 66492 |
| ___ | 9. Exception | 66484 |
| ___ | 10. Copies Rec'd | 66492 |
| ___ | 11. Treatment | 66371 |
| ___ | 12. On-site Disp. (H.S.&C.) | 26189.5 |
| ___ | 13. Ex Haz. Waste | 66570 |
| ___ | 14. Communications | 67121 |
| ___ | 15. Aisle Space | 67124 |
| ___ | 16. Local Authority | 67126 |
| ___ | 17. Maintenance | 67120 |
| ___ | 18. Training | 67105 |
| ___ | 19. Prepared | 67140 |
| ___ | 20. Name List | 67141 |
| ___ | 21. Copies | 67141 |
| ___ | 22. Emg. Coord. Trng. | 67144 |
| ___ | 23. Condition | 67241 |
| ___ | 24. Compatibility | 67242 |
| ___ | 25. Maintenance | 67243 |
| ___ | 26. Inspection | 67244 |
| ___ | 27. Buffer Zone | 67245 |
| ___ | 28. Tank Inspection | 67259 |
| ___ | 29. Containment | 67245 |
| ___ | 30. Safe Storage | 67261 |
| ___ | 31. Freeboard | 67257 |

Comments:

Witness the re excavation down to the cement slab - (2ft)
8 1/2' x 8 1/2' @ 8 1/4" N.D. < 10
5' (32d)
8 1/2' x 8 1/2' x 8 1/4"
8 1/2' x 8 1/2' x 8 1/4"

Sples run by TEG mobile lab -
Will run BTEX on these 3 sples also
The south side is hindered by utility lines
Δ will not be spliced
Along the north side beyond the fence
a localized area of diesel or waste oil
was found. Will excavate to 2' depth &
take 1 sample / 15 lines but to confirm
of Uren.
L. Sanfield AS7 present

I.B TRANSPORTER (Title 22)

- | | | |
|-----|---------------------------|-------|
| ___ | 32. Applic./insurance | 66428 |
| ___ | 33. Comp. Cert./CHP Inso. | 66448 |
| ___ | 34. Containers | 66465 |
| ___ | 35. Vehicles | 66465 |
| ___ | 36. EPA ID #s | 66531 |
| ___ | 37. Correct | 66541 |
| ___ | 38. HW Delivery | 66543 |
| ___ | 39. Records | 66544 |
| ___ | 40. Name/ Covers | 66545 |
| ___ | 41. Recyclables | 66800 |

Contact: Ken Sinfield, AS I Inspector B. Chan
 Title: Project Geologist, RC. Signature B. Chan
 Signature: [Signature] Signature [Signature]

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY



DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

November 10, 1992
STID # 4220

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

Mr. Charles Chamness
FAA-AWP-464.10a
P.O. Box 92007-WWPC
Los Angeles, CA 90009

Re: Subsurface Investigation at FAA TRACON Facility at
1029 Grumman St., Oakland CA 94621

Dear Mr. Chamness:

Our office is also overseeing the subsurface investigation at this site currently leased to the FAA. As you are aware, there exists some question as to the source of the "diesel" contamination found in the water sample taken from the excavation pit of the former 1000 gallon underground tank. Your consultant represents that it is FAA's opinion that this contamination is from formerly abandoned fuel tanks of the U. S. Navy or other pre-existing tanks. I understand the Port of Oakland has agreed to provide you with documents concerning previous activities in the TRACON parking lot in an attempt to clarify this issue. You will recall, our office's opinion is that until proof is provided that the contamination is from an offsite source, the responsibility for remediation will remain with the FAA.

Upon review of this case our office has the following items which we would like clarified:

1. The contention has been made that because the soil sample from the stockpile was broken, the 375 parts per million (ppm) diesel found in this sample is invalid. In a technical sense this value may not be the "exact" value for the diesel concentration, however, this value is the approximate concentration of diesel in the sample and this concentration exceeds the threshold concentration of 100 ppm. To assert that no diesel was detected in the stockpile due to this accident is erroneous.
2. Because of the specific high boiling components found in the water sample taken from the tank excavation pit, it is asserted that this contamination and any contamination found in the groundwater beneath this site is from another tank source. Please be advised that all chromatograms of detectable diesel concentrations found in soil and water samples should be provided to verify that no release of diesel fuel has occurred from the 1000 gallon tank removed from this site.

Mr. Charles Chamness
STID # 4220
TRACON Facility
November 10, 1992
Page 2.

3. When monitoring wells AW-1 through AW-3 were drilled one soil boring sample from AW-2, the well within the former tank pit, was taken and yielded 580 ppm TPH diesel. This sample, SS-1, was represented in a histogram representing the chromatogram of this sample. This histogram shows that to a large extent, approximately 90%, the material appears to be diesel fuel, therefore a release of diesel has occurred to the soil in the 5-5.5 feet depth range. This depth is within the seasonal high groundwater table and as such a groundwater will be required in FAA's part. The responsibility of the groundwater remediation, though, can still be determined by the documentation you will be providing this office. Please provide the analytical results of all other borings sampled from the installation of the other two wells.

4. Please attempt to provide the chromatogram of the residual product found in any offsite abandoned tank.

5. I have been informed by Mr. Len Sinfield of ASI that additional work is scheduled. This work will include the removal of the contents of the underground tank pit (hopefully to groundwater) and installing an additional well outside the pit area. This work is acceptable and I have informed Mr. Sinfield to contact this office prior to confirmation soil sampling so that I may witness this activity. There seems to be a misunderstanding as to what "clean" soils means. In ASI reports, they have stated 100ppm total petroleum hydrocarbons (TPH) as a level which they will reuse as backfill. Please be advised concentrations of TPH are required to be non-detectable prior to reuse. The 100 ppm concentration is only a guidance concentration which initiates a soil/groundwater investigation recommended in the Tri-Regional Board Guidelines. Site specific conditions will determine the levels, if any, which one which may be left in place without remediation. Given the shallow groundwater at this site, our office would encourage remediation to non-detectable concentrations.

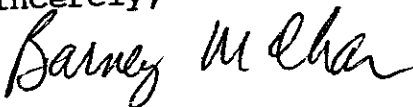
Quarterly monitoring will be required after monitoring well installation and should continue until the site is recommended for site closure.

Mr. Charles Chamness
STID # 4220
TRACON Facility
November 10, 1992
Page 3.

Please provide a written comment to our office to the above mentioned items **within 30 days** of receipt of this letter.

You may contact me at (510) 271-4350 should you have any questions regarding this letter.

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

cc: G. Jensen, Alameda County District Attorney Office
R. Hiett, RWQCB
L. Sinfield, Advanced Sciences, Inc., 4909 Murphy Canyon Rd.,
Suite 500, San Diego, CA 92123-4301
N. Werner, Port of Oakland, 530 Water St., Oakland 94604
E. Howell, files

ASRTR

DATE: 6/24/92
TO : Local Oversight Program
FROM: B Chan
SUBJ: Transfer of Eligible Oversight Case

Site name: FAA Airway Facilities, L-827 Tracem & ASR #9
Address: Oakland Airport Facility city Oak zip 94621
Closure plan attached? Y N DepRef remaining \$ 156⁰⁰
DepRef Project # 4592385 STID #(if any) N/A
Number of Tanks: 2 removed? Y N Date of removal 5/2/91
Samples received? Y N Contamination: diesel
Petroleum Y N Types: Avgas Jet leaded unleaded Diesel
fuel oil waste oil kerosene solvents

Monitoring wells on site 0 Monitoring schedule? Y N Not yet.
LUFT category 1 2 3 * H S C A R W G O

Briefly describe the following:

Preliminary Assessment _____
Remedial Action _____
Post Remedial Action Monitoring _____
Enforcement Action _____

- ① Tracem facility: found 37 mg/l diesel in H₂O sples from pit
no diesel in soil sples. FAA contends that the diesel
found in pit is > bp than diesel used in tank. is
in opposite problem but has not provided any evidence as
requested
- ② ASR #9 facility, found 24,000 mg/kg in the full
body of tank. other provided a plan of correction & its
been verbally approved. sampling results of overexcavation
& new installations



91 DEC 23 PM 1 12

December 20, 1991

Barney M. Chan
Hazardous Materials Specialist
Alameda County Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

SUBJECT: Preconstruction Plot Plan
FAA Oakland Airport TRACON facility

Dear Mr Chan:

This letter presents a preconstruction plot plan of the Federal Aviation Administration (FAA) Terminal Radar Approach Control (TRACON) facility located at 8250 Earhart Road, Oakland, California. The attached plot plan (Attachment 1) indicates that twelve concrete underground storage tanks or vaults are formerly or currently beneath the FAA TRACON parking lot. The FAA leases the property from the Port of Oakland, the current land owner.

In a letter dated December 12, 1991 to Ms. Patricia Murphy of the Port of Oakland, Environmental Department, ASI requested that the Port of Oakland conduct a document search and personnel interviews to locate the following information to resolve the issue of the twelve concrete tanks:

- o a listing of previous land owners and lessees and types of activities conducted by previous occupants in regards to fuel usage;
- o activities of the U.S. Navy at the site and the dates of occupancy by the Navy;
- o any information concerning the removal or abandonment of the four concrete underground tanks and any other tanks at or near the property;
- o fuel contents of the tanks and other possible tanks; and
- o any preexisting plot plans of the site.

On December 18, 1991, in a telephone conversation with Mr. Len Sinfield of ASI, Ms. Murphy agreed to the request and said that the Port of Oakland was initiating an investigation into the site history.

Mr. Chan
December 20, 1991

2

When the Port of Oakland completes their investigation ASI will make recommendations for the course of action for the petroleum hydrocarbons detected in the groundwater beneath the FAA Oakland Airport TRACON facility. ASI also anticipates excavating and resampling the tank backfill of the former FAA TRACON facility underground diesel tank in late January 1992.

In addition, ASI in conjunction with the FAA, is developing a plan of action for the FAA Oakland Airport ASR #9 facility. This plan of action will be submitted to Alameda County in late January 1992.

If you have any questions, please feel free to call me at (619)560-8552.

Sincerely,

A handwritten signature in black ink, appearing to read "Len Sinfield". The signature is fluid and cursive, with a large initial "L" and "S".

Len Sinfield
Project Geologist

cc: Charley Chamness, FAA
Jim Williams, FAA
Patricia Murphy, Port of Oakland Environmental Department

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

September 16, 1991

Mr. Jim Williams
FAA Western Pacific Region
FAA-AWP-464.10A
P.O. Box 92007, WWPC
Los Angeles, CA 90009

Subject: Unauthorized Fuel Release at FAA Airway Facilities
L-827 Tracon and ASR #9 Facility, Oakland CA 94621

Dear Mr. Williams:

Alameda County Environmental Health, Hazardous Materials Division has received the August 30, 1991 report issued by Advanced Sciences, Inc. regarding the removal of the 1,000 gallon diesel tank at the Tracon Facility at the Oakland Airport. Based on the evidence provided in this report, the County does not agree that the contamination found at the site, soil and groundwater, is not from the existing fuel tank. The conclusion of Sarah Battelle, the registered geologist from Advanced Sciences, Inc., is that because the water sample taken from the pit contained higher than diesel hydrocarbons, this contamination is not from the pre-existing diesel tank, and that the FAA is thus not liable for any clean-up. Although this scenario does exist in specific cases where contamination is proven to have been from offsite, considerable evidence must exist for our agency to agree with this decision. To this end, you are requested to address the following items to support this above claim:

1. Please provide the chromatograms of the diesel fuel and any and all fuel oil standards (fuel oil No.1 and No. 2 etc.) which would help to illustrate the differences in these petroleum cuts.
2. Please provide the chromatogram of the Tracon 5 "Stockpile" soil sample which contained reportedly 375ppm TPH as diesel. Please be advised that stockpiled soils are not distinguished from other typical confirmatory soil samples taken from the ends of a tank and that the 100 ppm TPH suggested in the "Tri-Regional Board Staff Guidelines" applies similarly to these results. The County recognizes that this sample was received in a broken container, however, the analytical results must also support your previous claim.
3. Please provide evidence of potential offsite sources of the fuel oil. Give data to support that the former tank pit location is directly downgradient to this source. Give evidence that the fuel used at this source matches that of the water sample's chromatogram. Monitoring well and borings data can be used as evidence. Unauthorized Release (Leak) Reports or inventory reconciliation sheets can also be used to support the contention.

Mr. Jim Williams
FAA Tracon Facility
September 16, 1991
Page 2.

4. Provide a complete history of the fuel contents used at this site. Provide all inventory reconciliation and tank tightness test results on this tank.

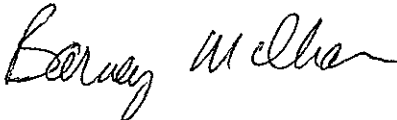
You are requested to address in writing the above items. Please provide these items within thirty (30) days of this letter. Again, be aware that this is a formal request for technical reports pursuant to the California Water Code, Section 13267 (b). Any extensions on agreed upon time deadlines must be confirmed in writing by either this Division or the RWQCB. If this above information does not support your case you will be required to provide the previously requested workplan within thirty (30) days of this decision.

SECOND NOTICE OF VIOLATION

In regards to the other FAA site, the ASR #9 Facility, please note that our Division has not received the requested workplan requested in our July 26, 1991 letter. Please provide this workplan within thirty (30) days of this letter.

You may contact me at (510) 271-4320 should you have any questions regarding this letter.

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

cc: G. Jensen, Alameda County District Attorney, Consumer and
Environmental Protection Division
R. Hiatt, RWQCB
H. Hatayama, DOHS
L. Sinfield, S. Battelle, Advanced Sciences, Inc.
L. Mummert, FAA Western-Pacific Region
P. Murphy, Port of Oakland, Environmental Division

Tracon1

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

July 26, 1991

Mr. Jim Williams
FAA Western Pacific Region
FAA-AWP-464.10A
P.O. Box 92007, WWPC
Los Angeles, CA 90009

Subject: Unauthorized Fuel Release at FAA Airway Facilities,
L-827 Tracon and ASR # 9 Facility,, Oakland CA 94621

Dear Mr. Williams:

The Alameda County Environmental Health, Hazardous Materials Division has received analytical results from the underground tank removals performed at the above referenced locations on May 2, 1991. These results were faxed to our agency by Mr. Len Sinfield of Advanced Sciences, Inc., the sampler during these tank removals. The results show that the stockpile at the Tracon facility had 375 ppm (parts per million) TPH as d, (total petroleum hydrocarbons as diesel) and that the water sample from the resulting pit had 36.6 ppm TPH as diesel. In addition, results from the ASR #9 facility indicate that one soil sample from the excavation pit contained 24,000 ppm TPH as diesel and that the stockpile from the excavation had 144 ppm TPH as d. Alameda County uses the "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites", August 10, 1990 version, in evaluating data from the underground tank removals. Because of these results, both sites are considered to have experienced an unauthorized release of petroleum hydrocarbon which has impacted the soil and/or the groundwater, the extent of which must be assessed and remediated.

You are therefore requested to submit a workplan within thirty (30) days which addresses these issues. Enclosed please find a copy of a "typical" workplan to use as guidance. Also enclosed is an Underground Storage Tank Unauthorized Release (Leak)/ Contamination Site Report to be filled out by you or your designee and returned to our office within 30 days, as well.

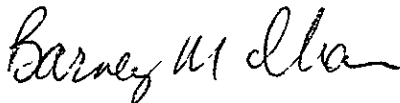
All proposals, reports and analytical results pertaining to this investigation and remediation must be sent to our office and the Regional Water Quality Control Board (RWQCB) to the attention of Mr. Richard Hiatt. Their address is : 2101 Webster St., 4th Floor, Oakland, CA 94612.

Mr. Jim Williams
FAA UGT Sites
July 26, 1991
Page 2.

Please be aware that this is a formal request for technical reports pursuant to the California Water Code, Section 13267 (b). Any extensions or agreed upon time deadlines must be confirmed in writing by either this Division or the RWQCB.

You may contact me at (415) 271-4320 should you have any questions regarding this letter.

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

enclosures

cc: G. Jensen, Alameda County District Attorney, Consumer and
Environmental Protection Division
R. Hiett, RWQCB
H. Hatayama, DOHS
L. Sinfield, Advanced Sciences, Inc.
L. Mummert, FAA Western-Pacific Region

FAAugts

Below lists the contents of a "typical" workplan as requested for after an unauthorized petroleum fuel release is observed.

Our office will be the lead agency overseeing both the soil and groundwater remediation of this site. The Regional Water Quality Control Board (RWQCB) is currently unable to oversee the large number of contamination cases within Alameda County and has delegated the handling of this case to our Division. We will be in contact with the RWQCB in order to provide you with guidance concerning the RWQCB's remediation requirements. However, please be aware that you are responsible for diligent actions to protect waters of the State.

To complete contaminant assessment and begin any possible remediation, we require that you submit a work plan which, at a minimum, addresses the items listed below and presents a timetable for their completion. Please submit this workplan within 30 days of the date of this letter.

I. Introduction

- A. Statement of scope of work
- B. Site map showing location of existing and past underground storage tanks and associated piping
- C. Site History
 - provide historical site use and ownership information. Include a description of types and locations of hazardous materials used on site.

II. Site Description

- A. Vicinity description including hydrogeologic setting
- B. Initial soil contamination and excavation results
 - provide sampling procedures used
 - indicate depth to ground water
 - describe soil strata encountered
 - provide soil sampling results, chain of custody forms, identity of sampler
 - describe methods for storing and disposal of all soils

III. Plan for determining extent of soil contamination on site

- A. Describe approach to determine extent of lateral and vertical contamination
 - identify subcontractors, if any
 - identify methods or techniques used for analysis
 - provide sampling map showing all lines of excavation and sampling points
 - if a step out procedure is used, define action level for determination of "clean" isopleth
 - provide chain of custody forms, lab analysis results, all receipts and manifests, & identity of sampler

Plan for determining extent of soil contamination on site.

B. Describe method and criteria for screening clean versus contaminated soil. If onsite soil aeration/bioremediation is to be utilized, then provide a complete description of method that includes:

- volume and rate of aeration/turning
- method of containment and cover
- wet weather contingency plans
- permits obtained

C. Describe security measures

IV. Plan for determining ground water contamination

- Construction and placement of wells should adhere to the requirements of the "Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks". Provide a description of placement and rationale for the location of monitoring wells including a map to scale.
- The placement and number of wells must be able to determine the extent and magnitude of the free product and dissolved product plumes.

A. Drilling method for construction of monitoring wells

- expected depth and diameter of monitoring wells
- date of expected drilling
- casing type, diameter, screen interval, and pack and slot sizing techniques
- depth and type of seal
- development method and criteria for adequacy of development
- plans for cuttings and development water

B. Ground water sampling plan

- method for free product measurement, observation of sheen
- well purging procedures
- sample collection procedures
- chain of custody procedures
- procedures for determining ground water gradient

Plan for determining groundwater contamination.

C. Sampling schedule

- measure free product weekly for first month following well installation
- measure free product and dissolved constituents monthly for first three months.
- after first three months monitor quarterly.
- monitoring must occur a minimum of one year.

V. Provide a site safety plan

VI Development of a Remediation Plan.

A. The Remediation Plan is to include a time schedule for remediation, and, at minimum, must address the following issues:

- removal of all free product. Manual bailing is not acceptable as a recovery system. Actual amount of free product removed must be monitored and tabulated.
- remediation of contaminated soils and dissolved constituents must follow RWQCB's resolution No. 68-16.
- soils containing 1,000+ ppm of hydrocarbons must be remediated. Soils containing between 100 and 1,000 ppm must be remediated unless sufficient evidence is provided which indicates no adverse effects on groundwater will occur. Clean up of soils to 100 ppm is strongly recommended.
- design of remedial action system should be based on a review of hydrogeologic and water quality data and on an evaluation of mitigation alternatives. The determination of probable capture zone(s) of extraction system(s) should be based on aquifer characteristics as determined by aquifer test data

VII Reporting

- A. Technical reports should be submitted with a cover letter from your company. The letter must be signed by an authorized representative.
- B. Monthly reports must be submitted for the next three months with the first report due 90 days from the above letter date.
- C. Quarterly reports must be submitted with the first report due 90 days after the final monthly report. These reports should describe the status of the investigation and cleanup.
- D. All reports and proposals must be signed by a California-Certified Engineering Geologist, California Registered Geologist or a California-Registered Civil Engineer (see page 2, 2 June 1988 RWQCB document). A statement of qualifications should be included in all reports. Initial tank removal and soil sampling does not require such expertise; however, borehole and monitoring well installation and logging, and impact assessments do require such a professional.

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
 Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. (Extra charge) **ST10 4220** 2. Restricted Delivery (Extra charge)

3. Article Addressed to: (BC) #4220 Faa-awp-464.10a Attn: Charles Chames P.O. Box 92007,wwpc Los Angeles, CA 90009	4. Article Number P 367 604 291 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
5. Signature — Address X	Always obtain signature of addressee or agent and DATE DELIVERED.
6. Signature — Agent X <i>Robert J. Scott</i>	8. Addressee's Address (ONLY if requested and fee paid)
7. Date of Delivery <i>7-8-92</i>	

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
 Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. (Extra charge) **ST10 4220** 2. Restricted Delivery (Extra charge)

3. Article Addressed to: (BC) #4220 Port of Oakland Attn: Mr. A. Clark-Clough 530 Water Street Oakland, CA 94607	4. Article Number P 367 604 290 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
5. Signature — Address X	Always obtain signature of addressee or agent and DATE DELIVERED.
6. Signature — Agent X <i>Charles A. Clough</i>	8. Addressee's Address (ONLY if requested and fee paid) 20103 CL
7. Date of Delivery	

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

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

Project Specialist (print) Barney Chen

OK, 4/1/91 SC
with the noted
additions

UNDERGROUND TANK CLOSURE PLAN
* * * Complete according to attached instructions * * *

1. Business Name FEDERAL AVIATION ADMINISTRATION
Business Owner U.S. GOVERNMENT
2. Site Address OAKLAND INTERNATIONAL AIRPORT
City _____ Zip _____ Phone _____
3. Mailing Address 21615 HESPERIAN BLVD SUITE A
City HAYWARD CA Zip 94541 Phone 784-8500
4. Land Owner PORT OF OAKLAND
Address _____ City, State _____ Zip _____
5. Generator name under which tank will be manifested _____
FAA AIRWAY FACILITIES SECTOR
EPA I.D. No. under which tank will be manifested CAC 00179197

6. Contractor U.S. GOVERNMENT

Address SAME AS #3

City _____ Phone _____

License Type NONE ID# _____

7. Consultant _____

Address _____

City _____ Phone _____

8. Contact Person for Investigation

Name LEONARD MUMMERT Title ENV. TECH

Phone 784-8513

9. Number of tanks being closed under this plan 2

Length of piping being removed under this plan APROX 60'

Total number of tanks at facility 4

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 H & H SHIP SERVICE EPA I.D. No. CA D004771168

Hauler License No. 0334 License Exp. Date 1-31-92

Address 220 CHINA BASIN ST.

City SAN FRANCISCO State CA Zip 94107

b) Product/Residual Sludge/Rinsate Disposal Site

Name SAME AS a EPA I.D. No. _____

Address _____

City _____ State _____ Zip _____

c) Tank and Piping Transporter

Name H & H SHIP SERVICE EPA I.D. No. CAD 004771168

Hauler License No. 0334 License Exp. Date 1-31-92

Address 220 CHINA BASIN ST.

City SAN FRANCISCO State CA Zip 94107

d) Tank and Piping Disposal Site

Name SAME AS C EPA I.D. No. _____

Address _____

City _____ State _____ Zip _____

11. Experienced Sample Collector

Name _____

Company _____

Address _____

City _____ State _____ Zip _____ Phone _____

12. Laboratory

Name MULTI TECH

Address 320 TESLON CIRCLE SUITE 6

City SANTA ROSA State CA Zip (707) 544-5370

State Certification No. 117

Quality Assurance Laboratory
6605 Nancy Ridge Drive
San Diego CA 92124 (619) 552-3636

13. Have tanks or pipes leaked in the past? Yes [] No

If yes, describe. _____

14. Describe methods to be used for rendering tank inert

~~TANK WILL BE EMPTIED~~

~~TANK WILL BE INERTED WITH~~

100 LBS OF SOLIDIFIED CO₂ (DRY ICE)

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

Tank		Material to be sampled (tank contents, soil, ground-water, etc.)	Location and Depth of Samples
Capacity	Use History (see instructions)		
1000 GALS (RADAR)	INSTALLED 1968(?) NO PREVIOUS INDICATION OF LEAKS. #2 DIESEL	SOIL IMMED. SURROUND TANK Water if encountered	ALL AREAS SURROUNDING TANK. 1-2' into backfill/native interface or at water/sidewalk interface
✓ 1000 GALS (TRACON)	INSTALLED 1975 CATHODIC PROTECTION INST. 1976 #2 DIESEL FUEL	soil + groundwater if encountered	Same as above
Piping NOTE:	minimum of 1 sple / 50 linear feet of piping BOTH TANKS WERE TESTED MAY '89 AND EMPTIED JUNE '89		

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

<p>Stockpiled Soil Volume (Estimated) 10 cu. yds.</p>	<p align="center">Sampling Plan</p> <p align="center">SEVERAL SAMPLES WILL BE TAKEN, TO INSURE A REASONABLE DETERMINATION OF FUEL CONTAMINATION. (IF ANY) MIN 1/20 CU YDS</p>
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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, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
<p>DIESEL FUEL #2</p>	<p>Prep (3250) EPA-8015M POHS + PH-D Prep. 5030 LUFFT METHOD</p>	<p>TPH-D BTX&E 8020 OR 8040 TPH + BTXE 8260</p>	

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

18. Submit Worker's Compensation Certificate copy

Name of Insurer FED. GOVERNMENT

19. Submit Plot Plan (See Instructions)

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.

Signature of Contractor

Name (please type) FED. AVIATION ADMIN

Signature [Handwritten Signature]

Date 3-5-71

Signature of Site Owner or Operator

Name (please type) F A A

Signature [Handwritten Signature]

Date 3-5-71

SITE SAFETY PLAN

1. ONLY QUALIFIED EQUIPMENT OPERATORS WILL BE USED TO OPERATE EQUIPMENT.
2. EXCAVATED SOIL MUST BE PLACED ON PLASTIC.
3. OPEN HOLE MUST BE BARRICADED.
4. TEST OPEN HOLE FOR EXPLOSIVE VAPORS.
5. FIRE EXTINGUISHERS WILL BE AVAILABLE AT SITE.
6. NORMAL WORK PRACTICES WILL BE USED.
7. ALL SAFETY RULES WILL BE STRICTLY OBSERVED.
8. IF ANY HAZARDS ARISE;
9. A Combustible gas meter must be present at site
 - a. ALL EXCAVATING MUST STOP.
 - b. CLEAR THE AREA OF PERSONNEL.
 - c. NOTIFY:

M. SCOTT HAZARDOUS MAT'L.S MAN. OFFICER

(415) 784-8510

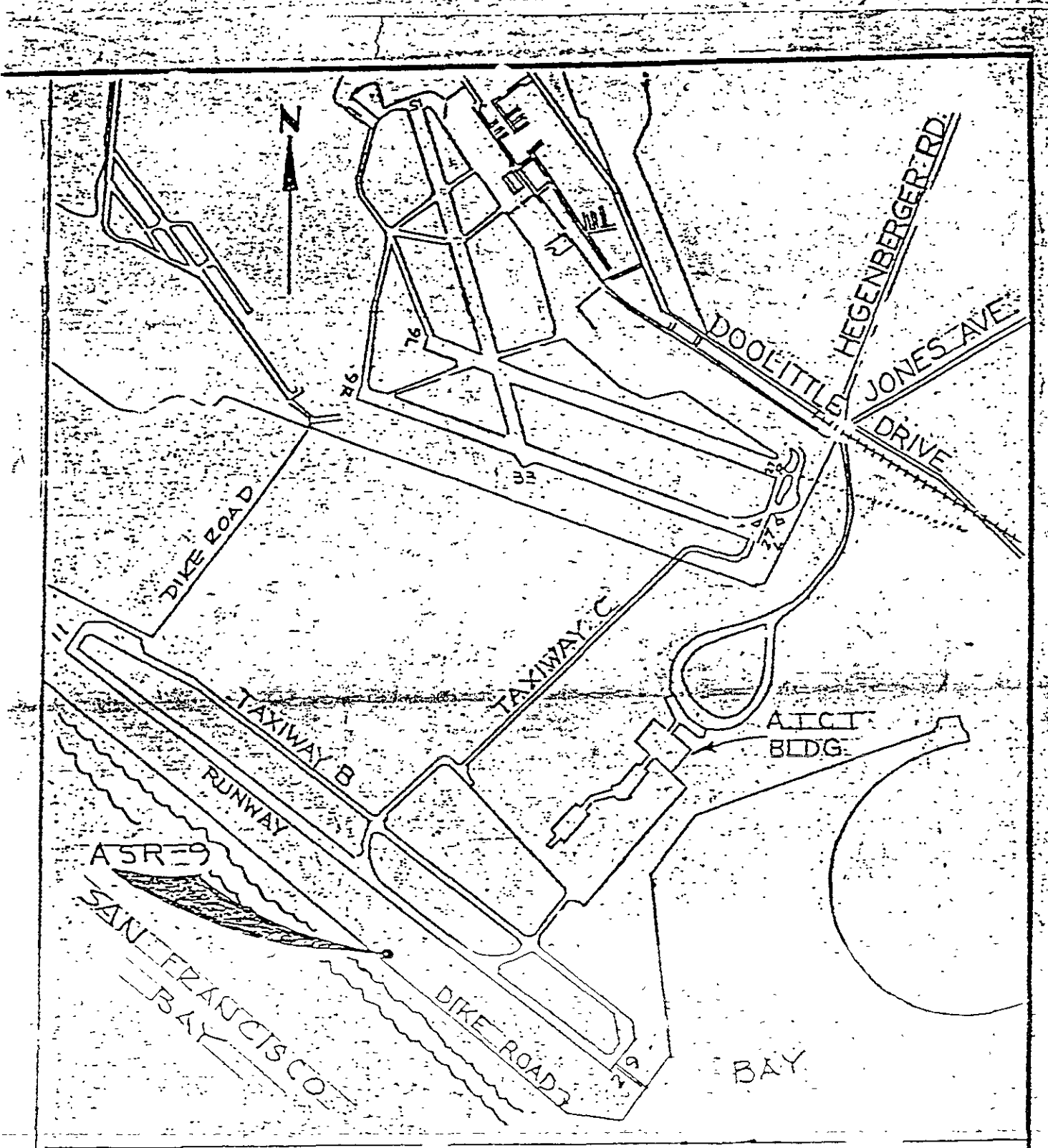
GGA-AFS

10. All site workers must have
received appropriate OSHA
approved training for

L. Mummert

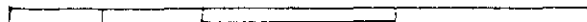
L. MUMMERT
ENV. TIO

(415) 784-8513



VICINITY MAP

SCALE IN FEET



RADAR FACILITY

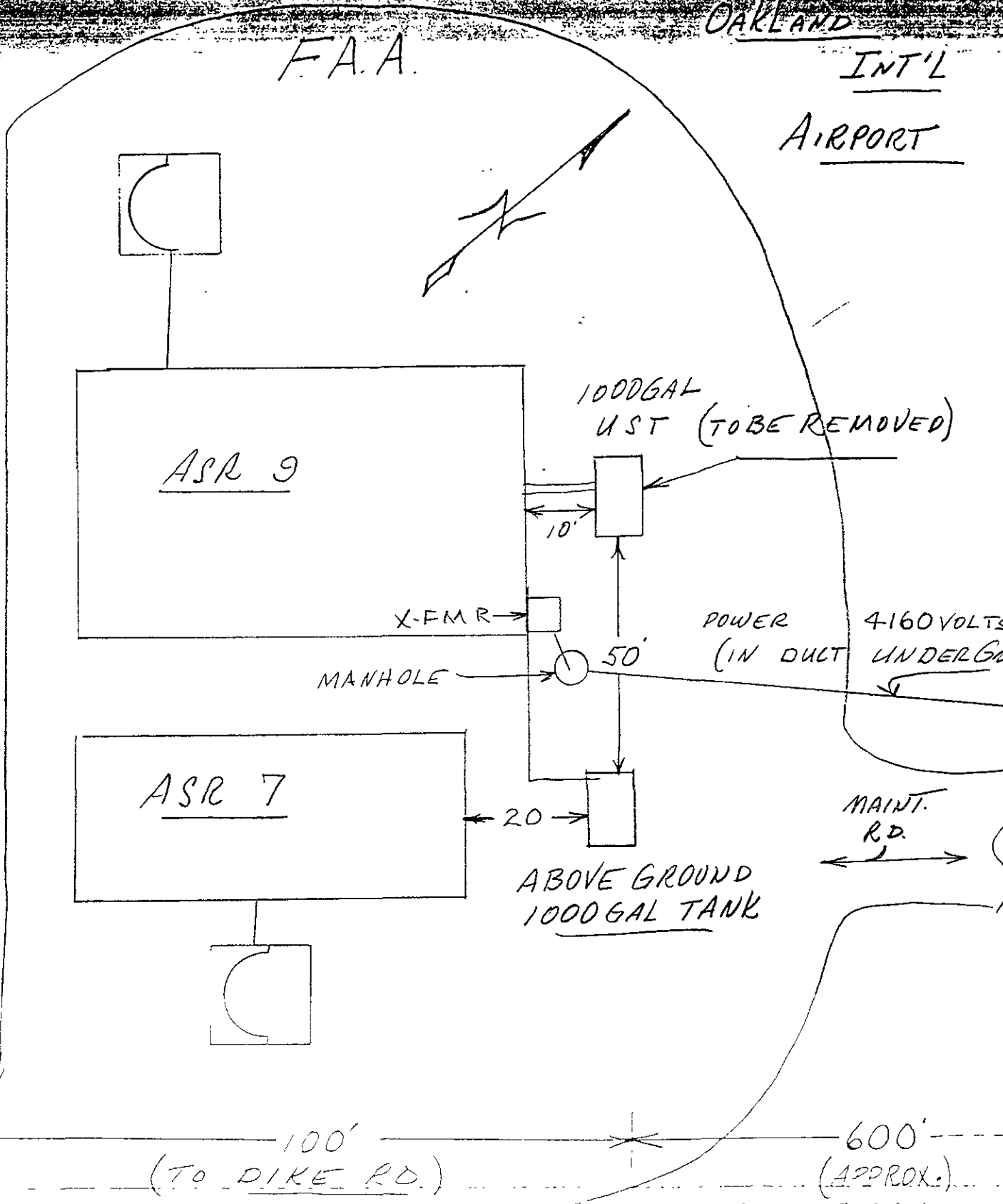
OAKLAND

INT'L

AIRPORT

F.A.A.

DIKE ROAD

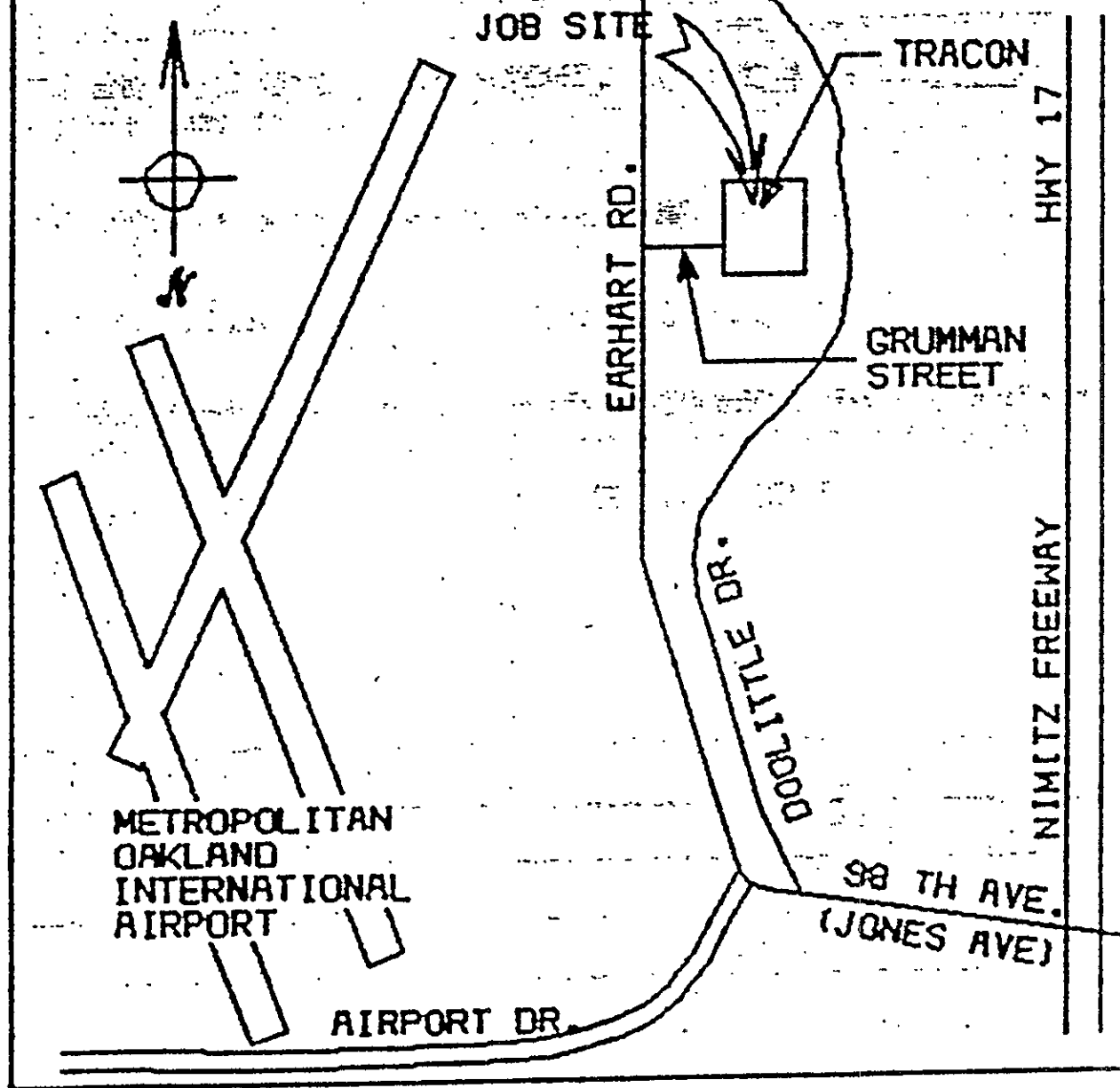


100' (TO DIKE RD.)

600' (APPROX.)

EDGE of R'WAY 2

PROPERTY LINE



VICINITY MAP (NO SCALE)

TRACON FACILITY F.A.A.

PORT OF OAKLAND
PROPERTY

OPEN SPACE

PROPERTY LINE

