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PRODUCTION

REMEDATION RISK MANAGEMENT, Inc.

▲ An Environmental Contracting Firm

Date: 12/21/95

Project: CE82

To: Ms. Eva Chu
Alameda County Health Care Services
Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, Ca. 94502

Please Find Enclosed:

Copies	Description
<u>1</u>	<u>Workplan to excavate diesel impacted soil from beneath the former diesel dispenser at 461 McGraw Avenue in Livermore California</u>
_____	_____
_____	_____
_____	_____

For your: Review
Comment
X Approval
Information

Comments: I will call you in a few days regarding receiving your approval to perform the work outlined in this workplan. Thank you.

Steve Krcik 

REMEDIAL RISK MANAGEMENT, Inc.

▲ An Environmental Contracting Firm

ENVIRONMENTAL PROTECTION

95 JAN -2 PM 2: 11

9/14/99

No. RRM has not done work.
McKray has not called
for services to implement
WP.

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December 21, 1995
Project CE82

Mr. Grandel Mackey
Call Mac Transportation Co., Inc
P.O. Box 50067
Palo Alto, California 94303

Re: Workplan to Excavate Diesel Impacted Soil Adjacent to the
Former Diesel Dispenser
461 McGraw Avenue
Livermore, California 94550

Dear Mr. Mackey:

This letter, prepared by Remediation Risk Management, Inc. (RRM) presents a workplan to excavate diesel impacted soil adjacent to the former diesel dispenser at the site referenced above (Figures 1 and 2). Diesel impact was identified beneath the dispenser when a 12,000-gallon diesel underground storage tank (UST), product piping, and the dispenser were removed from the site in July 1995.

Soil excavation of the diesel impacted soils is proposed in accordance with the Alameda County Health Care Services Agency (ACHCSA) letter dated November 9, 1995 and a discussion with Eva Chu of the ACHCSA. Soil excavation was selected because it is anticipated that the extent of impacted soil is minimal.

This workplan includes a brief discussion of site background, scope of work and procedures, and schedule. Further information regarding the site is documented in the UST removal and sampling report prepared by RRM dated October 17, 1995.

SITE BACKGROUND

The site is located south of Interstate 580 between Highway 84 and Vascoe Road in Livermore, Alameda County, California. Land use at the site is commercial. Land use in the vicinity of the site is commercial and residential. The nearest surface water is Arroyo Seco located approximately 1/2 south of the site. Arroyo Seco flows to the northwest. Groundwater beneath the site is anticipated to occur at a depth of approximately 15 feet, below ground surface, (bgs). Call Mac Transportation Agency primarily operates a trucking business at the site. Specific to this work, a former 12,000-gallon UST, product

pipng, and a dispenser was recently removed from the site. Diesel impact was not identified beneath the UST or in a groundwater sample collected from the former UST excavation. Diesel impact (as previously discussed) was identified in a soil sample collected at a depth of 2 feet bgs beneath the diesel dispenser. This sample contained diesel at a concentration of 17,000 parts per million (ppm).

SCOPE OF WORK AND PROCEDURES

The scope of work of this investigation has been designed to remove the impacted soil from beneath the former diesel dispenser. The specific scope of work and procedures are described below in task format:

Task 1 - Soil Excavation: Soil excavation will be performed in the specific area of the former diesel dispenser where the soil sample containing diesel was previously collected. Excavation will be terminated when either the diesel impacted soils are suspected to have been removed or if the extent of impact exceeds approximately 75 yards (an approximate area of 10' x 10' x 15'). In the case that the extent of impact exceeds 75 yards, RRM contact the ACHSA to discuss other options.

Task 2 - Soil and Groundwater Analyses: Five soil samples will be collected from the excavation. One soil sample will be collected from each side wall and one soil sample will be collected from the bottom of the excavation. A grab groundwater sample will be collected if groundwater is encountered in the excavation. Samples will be analyzed for total extractable petroleum hydrocarbons calculated diesel (TEPH-d).

Task 3 - Soil Disposal: Soils from the proposed excavation will be placed on and covered with visqueen. These soils will then be sampled to determine appropriate disposal. In the case that significant volumes of soil contain diesel in concentrations that exceed acceptable levels for disposal in a Class III landfill, than on-site aeration will be performed following approval from the appropriate agency's.

Task 4 - Soil Backfill: Excavation backfill will consist of clean imported fill or excavated soil that does not contain diesel. Any excavated soil used as backfill will be analyzed in the laboratory to document the chemical conditions of the soil.

Task 5 - Reporting: A report of findings documenting the results of this investigation will be submitted to the ACHCSA.

SCHEDULE

RRM is prepared to initiate the proposed work upon acceptance of the workplan by the ACHCSA and the state tank fund. Field work can be performed within two weeks of obtaining acceptance. A report documenting the findings of the investigation will be submitted approximately three to four weeks after completion of the field work.

If you have any questions regarding the contents of this workplan, please call.

Sincerely,

Remediation Risk Management, Inc.



David A. Reinsma

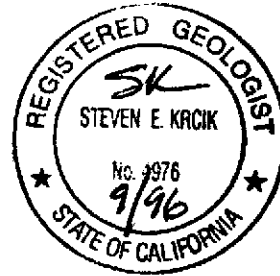
Project Geologist



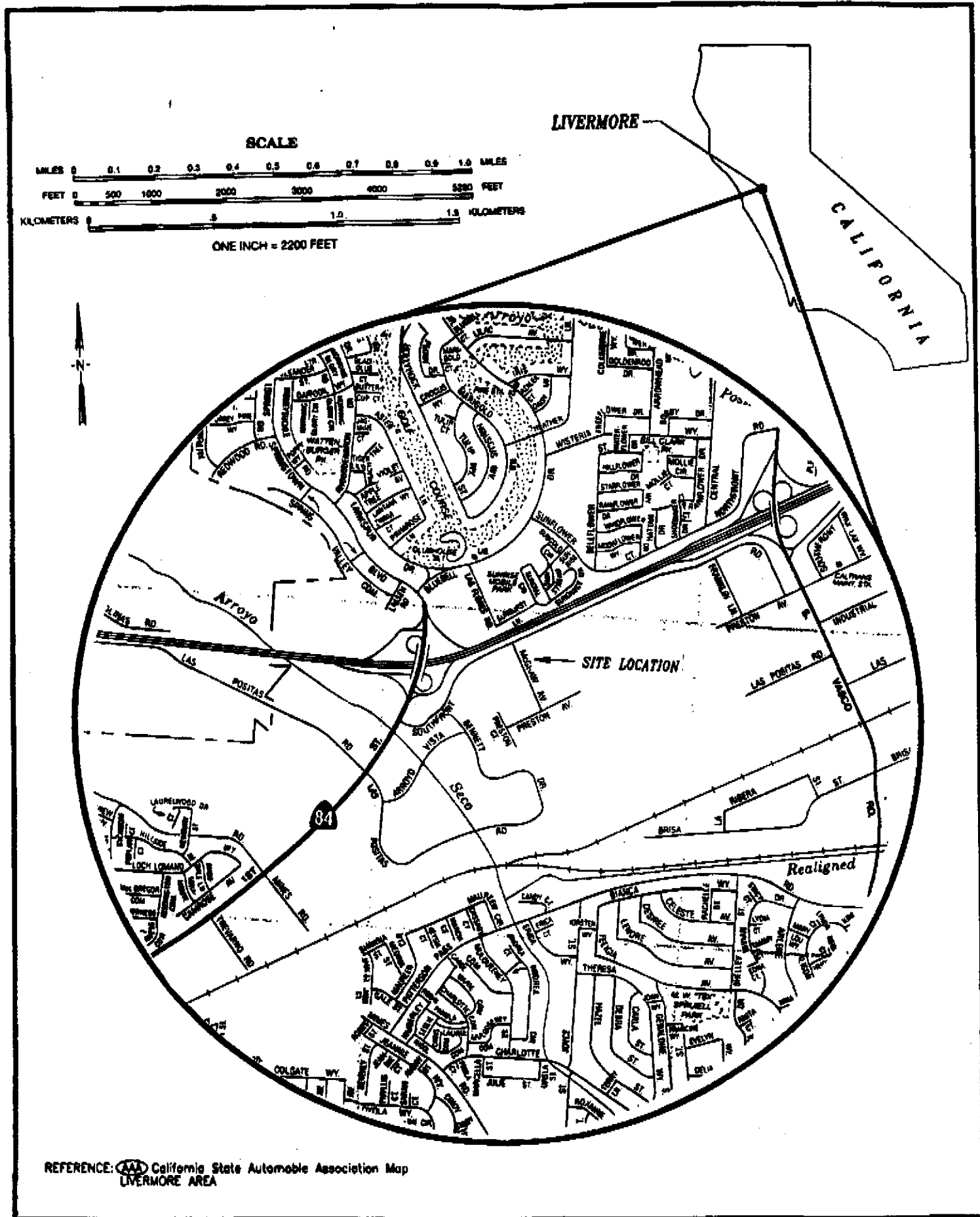
Steven E. Krcik

Senior Geologist

RG 4976



Attachments: Figure 1 - Site Location Map
Figure 2 - Site Map



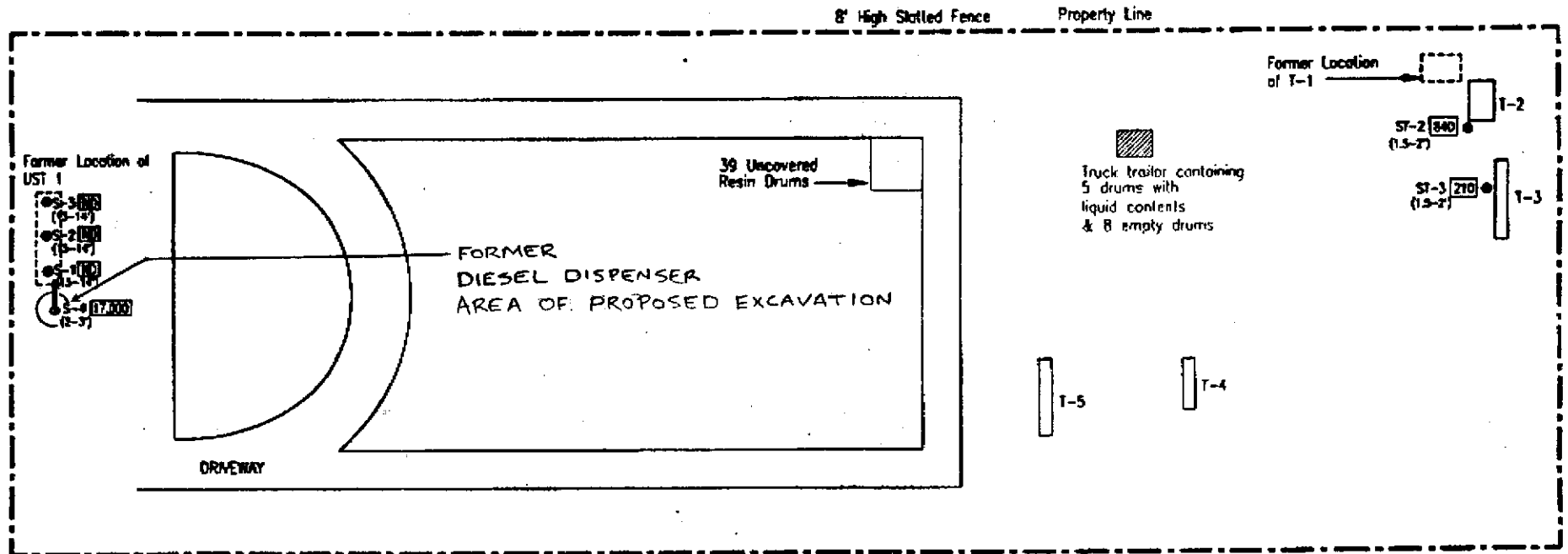
RRM

Remediation Risk Management, Inc.

**SITE LOCATION MAP
461 McGRAW AVENUE
LIVERMORE, CALIFORNIA**

FIGURE 1

NO(13-14)

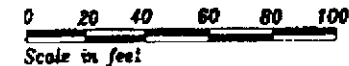


LEGEND

- SOIL SAMPLES
 - FORMER ASSOCIATED DISPENSER PIPING
 - [XXXX] TPHd CONCENTRATIONS (ppm) IN SOIL SAMPLES (SAMPLING DEPTH-feet)
 - (x-y) DEPTH OF SAMPLE
- NOTE: UST - Underground Storage Tanks
 T - Above Ground Storage Tanks
 TPHd - Total Petroleum Hydrocarbons-as-diesel
 ppm - parts per million (mg/Kg)

McGRAW AVENUE

PRESTON AVENUE



SITE MAP

TPHd CONCENTRATION (ppm) IN SOIL SAMPLES - 25 July 1995
 461 McGraw Avenue
 Livermore, California

COST ESTIMATE

Client: Mr. Grandel Mackey
Call Mac Tansportation Co., Inc.
P.O. Box 50067
Palo Alto, CA 94303

Project: 461 McGraw Avenue
Livermore, CA 94550

Proj. No. c CE75

	Scheduled Value	Total Cost
00010 Soil Excavation	\$2,040	\$2,010
00020 Soil and Groundwater Analysis	\$690	\$690
00030 Soil Treatment or Disposal	\$5,167	\$5,167
00040 Soil Backfill	\$2,014	\$2,014
00050 Reporting	\$2,870	\$2,870
00060 Workplan for Excavation	\$1,515	\$1,515
	TOTALS	\$14,296
		\$14,266

COST DETAIL

00010 Soil Excavation

		LABOR & EQUIPMENT			
Current	Total	Description	Rate	This Period	
0.00	0 Hrs	Senior Professional	\$110	\$0	
3.00	3 Hrs	Project Engineer	\$75	\$225	
0.00	0 Hrs	Staff Engineer	\$60	\$0	
12.00	12 Hrs	Staff Geologist	\$60	\$720	
12.00	12 Hrs	Backhoe w Operator	\$75	\$900	
1.00	1 Day	Support Truck	\$50	\$50	
SUBCONT. & MATERIALS					
0.00	0 Tons	Backfill Material	\$12	\$0	
1.00	1 Each	Visceen	\$100	\$115	
0.00	0 Lnft		\$125	\$0	
			Total	\$2,010	

00020 Soil and Groundwater Analysis

		LABOR & EQUIPMENT			
Current	Total	Description	Rate	This Period	
0.00	0 Hrs	Project Engineer	\$75	\$0	
0.00	0 Hrs	Project Geologist	\$75	\$0	
2.00	2 Hrs	Staff Geologist	\$65	\$130	
1.00	1 Day	FID	\$75	\$75	
0.00	0 Day	Support Truck	\$125	\$0	
SUBCONT. & MATERIALS					
5.00	5 Each	Soil Samples 8015/8020mod	\$100	\$575	
1.00	1 Each	Groundwater Sample 8015/8020mod	\$100	\$115	
0.00	0 Each		\$95	\$0	
			Total	\$690	

00030 Soil Treatment or Disposal

		LABOR & EQUIPMENT			
Current	Total	Description	Rate	This Period	
0.00	0 Hrs	Senior Professional	\$110	\$0	
4.00	4 Hrs	Project Level	\$75	\$300	
8.00	8 Hrs	Staff Level	\$65	\$520	
0.00	0 Hrs	Field Technician II	\$50	\$0	

0.00	0 Hrs	Field Technician I	\$40	\$0
SUBCONT. & MATERIALS				
108.00	108 Tons	Soil Disposal	\$35	\$4,347
0.00	0 Each		\$210	\$0
0.00	0 Each		\$90	\$0
			Total	\$5,167

00040 Soil Backfill

		LABOR & EQUIPMENT		
Current	Total	Description	Rate	This Period
0.00	0 Hrs	Senior Professional	\$110	\$0
2.00	2 Hrs	Project Engineer	\$75	\$150
0.00	0 Hrs	Staff Geologist	\$65	\$0
0.00	0 Hrs	Field Technician II	\$50	\$0
1.00	1 Days	Support Truck	\$125	\$125
SUBCONT. & MATERIALS				
108.00	108 Tons	Backfill material	\$14	\$1,739
0.00	0 Mon		\$1	\$0
0.00	0 Each		\$125	\$0
			Total	\$2,014

00050 Reporting

		LABOR & MATERIALS		
Current	Total	Description	Rate	This Period
0.00	0 Hrs	Senior Professional	\$110	\$0
8.00	8 Hrs	Project Geologist	\$75	\$600
28.00	28 Hrs	Staff Level	\$65	\$1,820
10.00	10 Hrs	Drafting	\$45	\$450
SUBCONT. & MATERIALS				
0.00	0 Each		\$125	\$0
			Total	\$2,870

00060 Workplan for Excavation

		LABOR & MATERIALS		
Current	Total	Description	Rate	This Period
1.00	1 Hrs	Project Engineer	\$75	\$75
12.00	12 Hrs	Project Geologist	\$75	\$900

6.00	6 Hrs	Staff Level	\$60	\$360
4.00	4 Hrs	Drafting	\$45	\$180
		SUBCONT. & MATERIALS		
0.00	0 Each		\$125	\$0
			Total	\$1,515