ENALONE LIPLATION

RAS-CO

Manufacturing Co.
413-WEST SUNSET BLVD.
HAYWARD, CA 94541
(415) 782-3161

March 18, 1996

Alameda County Health Care Services Dept. of Environmental Health 1131 Harbor Bay Parkway Alameda, Calif. 94502-6577

Dear Amy Leech,

As per our conversation this morning, I am trying to put together the ideas that we discussed this morning. But I wanted to get the full AG/WELL report in the mail ASAP, before you talk to Jensen. Hopefully between this report and the bid work that I have been trying to put together for the State Clean Up Fund, you will at this time give Jensen a favorable report on our behalf so as to avoid any more unnecessary and personal contact with him.

We are now, as we always have been striving to go forward as soon as possible to sight closure.

I will keep you informed as to how the bid approval is going with the State.

Sincepely,

Karniel Lang

March 12, 1996

Mr. Karniel Lang Ras-Co Manufacturing Company, Inc. 413 West Sunset Boulevard Hayward, CA 94541

Re: Agricultural Well Groundwater Monitoring, Ras-Co Manufacturing Company, Inc. 413 West Sunset Boulevard, Hayward, CA 94541

Dear Mr. Lang:

Tank Protect Engineering of Northern California, Inc. (TPE) is pleased to submit this letter report of environmental services conducted at the subject site. Work conducted during the first quarter, 1996 is presented in detail.

WORK PERFORMED BY TPE DURING FIRST QUARTER, 1996:

February 29, 1996 - Measured depth-to-groundwater from top-of-casing (TOC) and collected groundwater samples from agricultural well for chemical analysis for total petroleum hydrocarbons as gasoline (TPHG) methyl t-butyl ether, benzene, toluene, ethylbenzene, and xylenes (MBTEX). Additionally, analyzed 1 trip blank sample for TPHG and MBTEX (MW-2).

Details of the work performed during the subject quarter are presented below.

Depth-to-Groundwater Measurement

On February 29, 1996 depth-to-groundwater was measured from TOC in the agricultural well (see Figure 1) to the nearest 0.01 foot using an electronic Solinst water level meter. A minimum of 3 repetitive measurements were made for the determination to ensure accuracy.

Depth-to-groundwater was measured to be 20.20 feet below TOC.

Groundwater Sampling and Analytical Results

On February 29, 1996, a groundwater sample was collected from the onsite agricultural well. Before sampling, the well was purged of about 220 gallons of groundwater with a poly-vinyl chloride bailer and a well Wizard development pump temperature, pH, and electrical conductivity of the purged water stabilized (see attached polyethylene bailer was used for well Records of Water Sampling). A dedicated sampling. After purging was completed, the water samples were collected in laboratory supplied, preserved, clean, sterilized, 40-milliliter glass vials having Teflon-lined screw caps; and labeled to include: date, time, sample location, project number, and sampler The samples were immediately stored in an iced-cooler for transport to California Department of Health Services (DHS) certified Trace Analysis Laboratory, Inc. located in Hayward, California accompanied by chain-of-custody documentation. The groundwater sample and a trip blank sample (MW-2) were analyzed for TPHG by the DHS Method and for MBTEX by the Modified United States Environmental Protection Agency (EPA) Method 8020.

The well was checked for floating product using a dedicated, disposable polyethylene bailer. No floating product, sheen or odor was observed.

Purge water is stored on site in 55-gallon steel drums labeled to show material stored, known or suspected chemical contaminant, date filled, expected removal date, company name, contact person, and telephone number.

See attached protocols for TPE's sample handling, groundwater monitoring well sampling, and quality assurance and quality control procedures.

Methyl t-butyl ether was detected in the agricultural well in a concentration of 1,200 parts per billion (ppb). TPHG and BTEX were nondetectable.

No TPHG or MBTEX were detected in the trip blank sample (MW-2).

Analytical results are summarized in attached Table 1 and documented in an attached certified analytical report and chain-of-custody.

DISCUSSION AND RECOMMENDATIONS

Methyl t-butyl ether was detected in the agricultural well at a concentration of 1,200 ppb. All other analytical results were nondetectable. The agricultural well appears to be made of a 6-inch diameter steel casing from the surface to a depth of 70 feet. The construction details of the well is unknown, though agricultural wells are generally screened from the top of encountered groundwater to the bottom of the well. TPE recommends that the agricultural well be sampled, once the monitoring well has been installed.

An additional copy of this report has been included for your delivery to:

Ms. Amy Leech Alameda County Health Care Services Agency Hazardous Materials Program 1131 Harbor Bay Parkway, Room 250 Alameda, California 94502-6577

TPE recommends that this quarterly report be submitted with a signed cover letter from Ras-Co.

If you have any questions, please call TPE at (510) 429-8088.

Sincerely,

Lee N. Huckins

Registered Geologist

Jeff Farhoomand Principal Engineer



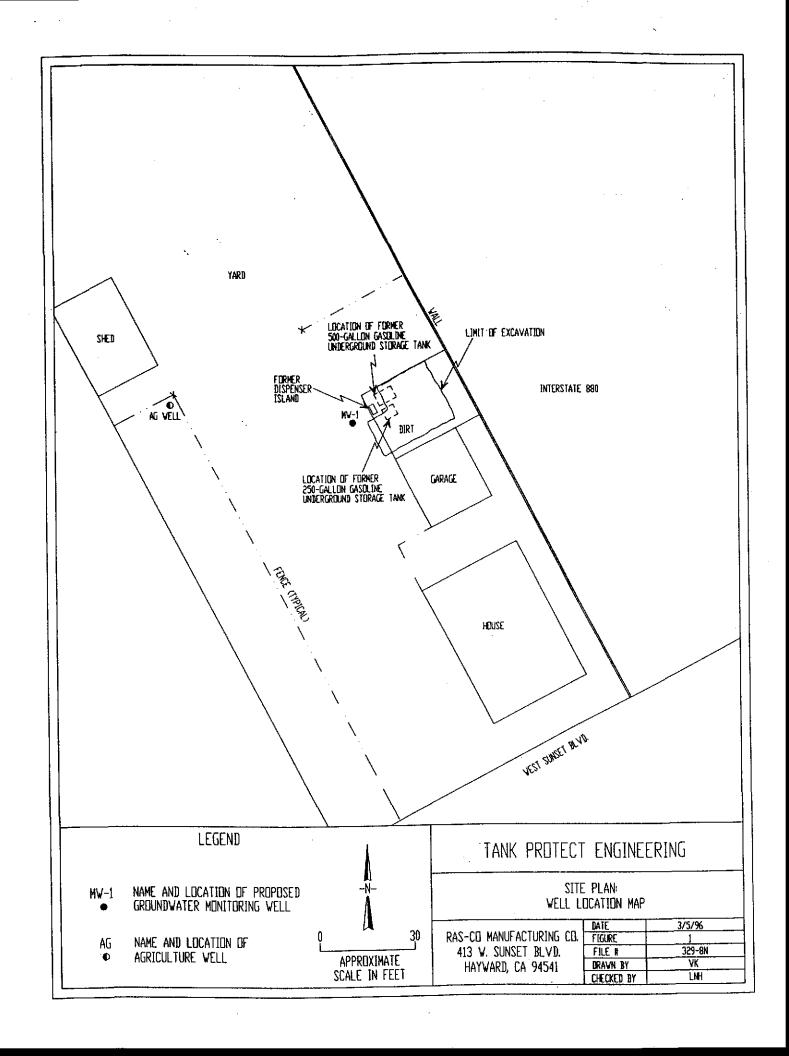
Expiration Date 5/31/97

TABLE 1
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS (ppb1)

Sample ID Name	Date	TPHG	Methyl t- Butyl ether	Benzene	Toluene	Ethyl- benzene	Xylenes
Ag Well	02/29/96	< 500	1,200	<5.0	<5.0	<5.0	<15
MW-2 ²	02/29/96	< 500	<50	<5.0	<5.0	<5.0	<15

¹ PARTS PER BILLION

² TRIP BLANK



RECORD OF WATER SAMPLING

	+ · · · · · · · · · · · · · · · · · · ·
PROJECT NO.: 329 DATE: 229 96	WELL NO.: IW-
PROJECT NAME: RAS-LO MFG	WELL DIAMETER: 6 11
PROJECT LOCATION: 4.13 W. SUNSET	TOC ELEV:
SAMPLER: MRV	LOCK NO .: PONE
ANALYSES: TPHG BTEX	BLOW
WELL DEPTH (from construction detail):	180
WELL DEPTH (measured): 70 SOFT BOTTOM?: 485	
DEPTH TO WATER: 20.2' TIME: 11:05	
PRESSURE (circle one)?: YES OR NO	The feet (Exc.)
IF YES, WAS PRESSURE (circle one): POSITIVE OR NEGATIVE?	The state of the s
	Mouse /
WATER VOLUME IN WELL: 73.5	1/4001/
[2-INCH CASING = 0.16 GAL/FT] [4-INCH CASING = 0.65 GAL/FT]	1 1 3
[6-INCH CASING = 1.47 GAL/FT] [1 GAL = 3.78 L]	\ \ \
	LOCATION MAP
CALCULATED PURGE VOL. (GAL): 220.5 (L): ACTUAL PURGE	VOL. (GAL): 220 (L): \$
PURGE METHOD: WELL WIZARD BLADDER SAMPLE MET	HOD: WELL WIZARD BLADDER PUMP
FIELD MEASUREMENTS	FUNCE

Time	Depth to Water (FT)	Vol		рН	EC X1000	Clarity	Turbidity (NTU)	Remarks
1:42		1	66.0	8.82	.44	CLDY		PUMPING OLD IRPLEATION
2:23		22	63.1	7.02	.99	CLR		weu
3:58		110	620	7.17	.95	11		
4:41		165	62.8	7.32	,96	clby		
1709		220	61.8	822	.93	4		
174	wellsamp	ke				>200		

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WATER VOL. IN DRUM: 100%
NEED NEW DRUM?: 1981

SAMPLE HANDLING PROCEDURES

Soil and groundwater samples will be packaged carefully to avoid breakage or contamination and will be delivered to the laboratory in an iced-cooler. The following sample packaging requirements will be followed.

- . Sample bottle/sleeve lids will not be mixed. All sample lids will stay with the original containers and have custody seals affixed to them.
- . Samples will be secured in coolers to maintain custody, control temperature and prevent breakage during transportation to the laboratory.
- A chain-of-custody form will be completed for all samples and accompany the sample cooler to the laboratory.
- . Ice, blue ice or dry ice (dry ice will be used for preserving soil samples collected for the Alameda County Water District) will be used to cool samples during transport to the laboratory.
- . Water samples will be cooled with crushed ice. In the Alameda County Water District, water samples will be buried in the crushed ice with a thermometer, and the laboratory will be requested to record thermometer temperature at the time of receipt.
- Each sample will be identified by affixing a pressure sensitive, gummed label or standardized tag on the container(s). This label will contain the site identification, sample identification number, date and time of sample collection and the collector's initials.
- Soil samples collected in brass tubes will be preserved by covering the ends with Teflon tape and capping with plastic end-caps. The tubes will be labeled, sealed in quart size bags and placed in an iced-cooler for transport to the laboratory.

All groundwater sample containers will be precleaned and will be obtained from a State Department of Health Services certified analytical laboratory.

<u>Sample Control/Chain-of-Custody</u>: All field personnel will refer to this workplan to verify the methods to be employed during sample collection. All sample gathering activities will be recorded in the site file; all sample transfers will be documented in the chain-of-custody; samples will be identified with labels; all sample bottles will be custody-sealed. All information is to be recorded in waterproof ink. All TPE field personnel are personally responsible for sample collection and the care and custody of collected samples until the samples are transferred or properly dispatched.

The custody record will be completed by the field technician or professional who has been designated by the TPE project manager as being responsible for sample shipment to the appropriate laboratory. The custody record will include, among other things, the following information: site identification, name of person collecting the samples, date and time samples were collected, type of sampling conducted (composite/grab), location of sampling station, number and type of containers used and signature of the TPE person relinquishing samples to a non-TPE person with the date and time of transfer noted. The relinquishing individual will also put all the specific shipping data on the custody record.

Records will be maintained by a designated TPE field employee for each sample: site identification, sampling location, station number, date, time, sampler's name, designation of the sample as a grab or composite, notation of the type of sample (e.g., groundwater, soil boring, etc.), preservatives used, onsite measurement data and other observations or remarks.

GROUNDWATER MONITORING WELL SAMPLING PROCEDURES

Groundwater monitoring wells will not be sampled until at least 24 to 72 hours (according to local regulatory guidelines) after well development. Groundwater samples will be obtained using a bladder pump, clear Teflon bailer or dedicated polyethylene bailer. Prior to collecting samples, the sampling equipment will be thoroughly decontaminated to prevent introduction of contaminants into the well and to avoid cross-contamination. Monitoring wells will be sampled after 3 to 10 wetted casing volumes of groundwater have been evacuated and pH, electrical conductivity and temperature have stabilized as measured with a Hydac Digital Tester. If the well is emptied before 3 to 10 well volumes are removed, the sample will be taken when the water level in the well recovers to 80% or more of its initial water level.

When a water sample is collected, turbidity of the water will be measured and recorded with a digital turbidimeter. Degree of turbidity will be measured and recorded in nephelometric turbidity units (NTU).

TPE will also measure the thickness of any floating product in the monitoring wells using an interface probe or clear Teflon or polyethylene bailer. The floating product will be measured after well development but prior to the collection of groundwater samples. If floating product is present in the well, TPE will recommend to the client that product removal be commenced immediately and reported to the appropriate regulatory agency.

Unless specifically waived or changed by the local, prevailing regulatory agency, water samples will be handled and preserved according to the latest United States Environmental Protection Agency methods as described in the Federal Register (Volume 44, No. 233, Page 69544, Table 11) for the type of analysis to be performed.

Development and/or purge water will be stored on site in labeled containers. The disposal of the containers and development and/or purge water is the responsibility of the client.

MEASUREMENTS

<u>Purged Water Parameter</u>: During purging, discharged water will be measured for the following parameters.

Parameter	Units of Measurement
pН	None
Electrical Conductivity	Micromhos
Temperature	Degrees F or C
Depth to Water	Feet/Hundredths
Volume of Water Discharged	Gallons
Turbidity.	NTU

<u>Documentation:</u> All parameter measurements will be documented in writing on TPE development logs.

QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES

The overall objectives of the field sampling program include generation of reliable data that will support development of a remedial action plan. Sample quality will be checked by the use of proper sampling, handling and testing methods. Additional sample quality control methods may include the use of background samples, equipment rinsate samples and trip and field blanks. Chain-of-custody forms, use of a qualified laboratory, acceptable detection limits and proper sample preservation and holding times also provide assurance of accurate analytical data.

TPE will follow a quality assurance and quality control (QA/QC) program in the field to ensure that all samples collected and field measurements taken are representative of actual field and environmental conditions and that data obtained are accurate and reproducible. These activities and laboratory QA/QC procedures are described below.

Field Samples: Additional samples may be taken in the field to evaluate both sampling and analytical methods. Three basic categories of QA/QC samples that may be collected are trip blanks, field blanks and duplicate samples.

Trip blanks are a check for cross-contamination during sample collection, shipment, and laboratory analysis. They are water samples that remain with the collected samples during transportation and are analyzed along with the field samples to check for residual contamination. Analytically confirmed organic-free water will be used for organic parameters and deionized water for metal parameters. Blanks will be prepared by the laboratory supplying the sample containers. The blanks will be numbered, packaged and sealed in the same manner as the other samples. One trip blank will be used for sets greater than 20 samples. The trip blank is not to be opened by either the sample collectors or the handlers.

The field blank is a water sample that is taken into the field and is opened and exposed at the sampling point to detect contamination from air exposure. The water

sample is poured into appropriate containers to simulate actual sampling conditions. Contamination due to air exposure can vary considerably from site to site.

The laboratory will not be informed about the presence of trip and field blanks, and false identifying numbers will be put on the labels. Full documentation of these collection and decoy procedures will be made in the site log book.

Duplicate samples are identical sample pairs (collected in the same place and at the same time), placed in identical containers. For soils, adjacent sample liners will be analyzed. For the purpose of data reporting, one is arbitrarily designated the sample, and the other is designated as a duplicate sample. Both sets of results are reported to give an indication of the precision of sampling and analytical methods.

The laboratory's precision will be assessed without the laboratory's knowledge by labeling one of the duplicates with false identifying information. Data quality will be evaluated on the basis of the duplicate results.

Laboratory OA/QC: Execution of a strict QA/QC program is an essential ingredient in high-quality analytical results. By using accredited laboratory techniques and analytical procedures, estimates of the experimental values can be very close to the actual value of the environmental sample. The experimental value is monitored for its precision and accuracy by performing QC tests designed to measure the amount of random and systematic errors and to signal when correction of these errors is needed.

The QA/QC program describes methods for performing QC tests. These methods standards, check standards (both involve analyzing method blanks, calibration Protection Agency-certified Environmental independent and the United States standards), duplicates, replicates and sample spikes. Internal QC also requires adherence to written methods, procedural documentation and the observance of good laboratory practices.



LOG NUMBER: DATE SAMPLED: 6219 02/29/96

DATE RECEIVED: DATE ANALYZED: 03/01/96 03/01/96

DATE REPORTED:

<u>Samole Type:</u>

03/04/96

Water

CUSTOMER:

Tank Protect Engineering

REQUESTER:

Jeff Farhoomand

PROJECT:

No. 329-022996, Rasco Mfg. Co.

					- 414 9 9 1		
	•	Ac	Well	Mie	1-2	Method Blank	
Method and Constituent:	<u>Units</u>	Concentration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
DHS Method:							
Total Petroleum Hydro- carbons as Gasoline	ug/l	ND	500	ND	500	ND	500
EPA Method 8020 for:							
Methyl t-Butyl Ether	ug/1	1,200	50	ND	50	ND	50
Benzene	ug/1	ND	5.0	ND	5.0	NĎ	5.0
Toluene	ug/1	ND	5.0	ND	5.0	ND	5.0
Ethylbenzene	ug/1	ND	5.0	ND	5.0	ND	5.0
Xylenes	ug/1	ND	15	ND	15	NO	15

OC Summary:

% Recovery:

91

% RPD:

12

Concentrations reported as ND were not detected at or above the reporting limit.

Louis W. DuPuis

Quality Assurance/Quality Control Manager

TRACE ANALYSIS

#5107831512

15:29

03/01/96

2821 WHIPPLE ROAD WHION CITY, CA 94587 (415)429-8088 (800)523-8088 FAX(415)429-8089

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TURNAROUND: 24 hs

P.O. #: 1279

6219

CHAIN OF CUSTODY

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RAS CO MFG INC

Fax : 510-78Z-3Z65

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RAS-CO MANUFACTURING COMPAN

413 WEST SUNSET BL.

HAYWARD, CA 94541

PHONE 510 782-3161

FAX 510 782-3265

FAX TRANSMITTAL COVER SE

DATE 3-12-96

TO:

COMPANY ALAMENA COUNTY HEALTH

FAX NUMBER (510) 337-9432

ATTENTION: ANY LEECH

DEPARTMENT ENVIROMENTAL HEALTH

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NAME Krimil E. La

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NOTE: IF ALL PAGES ARE NOT RECEIVED, OR ARE UN-REP DABLE, PLEASE CALL IF

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TANK PROTECT

PAGE 01



TANK PROTECT ENGINEERING

FROM:	TANK	PROTECT	ENGINEERING
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TO: \\	_A>_	-0	

RE.:____

DATE: 3-12-96

ATTN: Karniel Lang

NO. OF PAGES: 7
(Include cover sheet)

If all pages are not received please notify sender.

MESSAGE:

A full and Simil report is in the mail

Thanks

(TNH)



5104296

March 12, 1996

Mr. Karniel Lang
Ras-Co Manufacturing Company, Inc.
413 West Sunset Boulevard
Hayward, CA 94541

Re: Agricultural Well Groundwater Monitoring, Ras-Co Manufacturing Company, Inc. 413 West Sunset Boulevard, Hayward, CA. 94541

Dear Mr. Lang:

Tank Protect Engineering of Northern California, Inc. (TPE) is pleased to submit this letter report of environmental services conducted at the subject site. Work conducted during the first quarter, 1996 is presented in detail.

WORK PERFORMED BY TPE DURING FIRST QUARTER, 1996:

February 29, 1996 - Measured depth-to-groundwater from top-of-casing (TOC) and collected groundwater samples from agricultural well for chemical analysis for total petroleum hydrocarbons as gasoline (TPHG) methyl t-butyl ether, benzene, toluene, ethylbenzene, and xylenes (MBTEX). Additionally, analyzed 1 trip blank sample for TPHG and MBTEX (MW-2).

Details of the work performed during the subject quarter are presented below.

Depth-to-Groundwater Measurement

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Analytical results are summarized in attached Table 1 and documented in an attached certified analytical report and chain-of-custody.

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An additional copy of this report has been included for your delivery to:

Ms, Amy Leech Alameda County Health Care Services Agency Hazardous Materials. Program 1131 Harbor Bay Parkway, Room 250 Alameda, California 94502-6577

TPE recommends that this quarterly report be submitted with a signed cover letter from Ras-Co.

If you have any questions, please call TPE at (510) 429-8088.

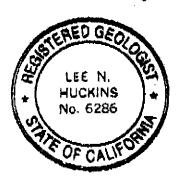
Sincerely,

Lee N. Huckins

Registered Geologist

Jeff Farhoomand
Principal Engineer

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Expiration Date 5/31/97

Trace Analysis Laboratory, Inc. 9425 Investment Bouleverd, 68 . Hityward, California 94545

Telephone (510) 783-8860 Facelmile (510) 783-1812

LOG NUMBER: 6219 DATE SAMPLED: 02/29/96 03/01/96 DATE RECEIVED: DATE AMALYZED: 03/01/96

DATE REPORTED:

03/04/96

CUSTOMER:

Tank Protect Engineering

REQUESTER:

Jeff Farhoomand

PROJECT:

No. 329-022996, Rasco Mfg. Co.

	Sample Type: Vater										
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DHS Method: Total Petroleum Hydro- carbons as Gasoline	ug/l	ОМ	500	ND	500	ND	500				
EPA Method 8020 for:											
Mothyl t-Butyl Ether	ug/1	1,200	50	ND	50	ND	50				
Benzene	ug/1	NO	5.0	ND	5.0	ND	5.0				
Toluene	ug/1	MĎ	5.0	ND	5.0	ND	5.0				
Ethylbenzene	ug/1	ND	5.0	ND	5.0	ND	5.0				
Xylenes	ug/1	ND	15	MD	15	ND	15				

OC SUBSATY:

% Recovery:

91 12

% RPD:

Concentrations reported as ND were not detected at or above the reporting limit.

Louis W. DuPuts

Quality Assurance/Quality Control Manager

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