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3315 Almaden Expressway, Suite 34

San Jose, CA 95118 Phone: (408) 264-7723 Fax: (408) 264-2435

TRANSMITTAL

CALIF. REG. WATER

OCT 0 2 1992

QLTY. CONTROL BOARD

TO: Ms. M. Sunnarborg
City of Livermore
Public Works Department
3589 Pacific Avenue
Livermore, California 94550

DATE: September 29, 1992
PROJECT NUMBER: 60000.09
SUBJECT: ARCO Station 771, 899 Rincon
Avenue, Livermore, California.

#-01-0121

FROM: Barbara Sieminski TITLE: Asst. Project Geologist

WE ARE SENDING YOU:

COPIES	DATED	NO.	DESCRIPTION
1	9/29/92	60000.09	Street Encroachment Permit to Install Three Monitoring Wells and Conduct Offsite Subsurface Environmental Investigation at ARCO Station 771. located at 899 Rincon Avenue, Livermore, California.

THESE ARE TRANSMITTED as checked below:

[] For review and comment [X] As requested	[] Approved as submitted [] Approved as noted	[] Resubmit copies for approval [] Submit copies for distribution
[] For approval	[] Return for corrections	[] Return corrected prints
[] For your files		

REMARKS:

cc: Michael Whelan, ARCO Products Company Chris Winsor, ARCO Products Company Susan Hugo, ACHCSA Eddy So, RWQCB

Copies: 1 to RESNA project file no.





3315 Almaden Expressway, Suite 34 San Jose, CA 95118

Phone: (408) 264-7723 Fax: (408) 264-2435

> September 29, 1992 0922msun 60000.09

Ms. M. Sunnarborg City of Livermore Public Works Department 3589 Pacific Avenue Livermore, California 94550



Subject:

Street Encroachment Permit to Install Three Monitoring Wells and Conduct Offsite Subsurface Environmental Investigation at ARCO Station 771, located

at 899 Rincon Avenue, Livermore, California.

Dear Ms. Sunnarborg;

On behalf of ARCO Products Company (ARCO), RESNA Industries Inc. (RESNA) is requesting a street encroachment permit to install and monitor three groundwater monitoring wells (MW-8 through MW-10) on the street adjacent to the property located at 899 Rincon Avenue in Livermore, California (Plate 1) as part of an ongoing offsite subsurface environmental investigation. The proposed groundwater monitoring wells will be installed in the street area as shown on Plate 2. After initial installation of the wells, they will be monitored on a quarterly basis to determine changes in groundwater levels, and for sampling to determine presence of any groundwater contamination.

Description of Work

Three soil borings (B-12 through B-14) will be drilled using 10-inch-diameter hollow-stem auger to the depth of approximately 45 feet below ground surface. The monitoring wells (MW-8 through MW-10) will be constructed in the borings using clean 2-inch-diameter, thread-jointed, Schedule 40 polyvinyl chloride (PVC) casing. No chemical cements, glues, or solvents will be used in well construction. Each casing bottom will be sealed with a threaded end-plug, and each casing top with a locking plug. The screened portions of the wells will be constructed of machine-slotted PVC casing with 0.020-inch-wide (typical) slots. The screened sections in each groundwater monitoring well will be placed to allow monitoring during seasonal fluctuations of groundwater levels. The annular space of each well will be backfilled with No. 3 sand, to approximately two feet above the top of the



Street Encroachment Permit Request ARCO Station 771, Livermore, California

September 29, 1992 60000.09

screened casing. A 1- to 2-foot-thick bentonite plug will be placed above the sand as a seal against cement entering the filter pack. The remaining annulus will be then backfilled with a slurry of water, neat cement, and bentonite to approximately one foot below the ground surface. An aluminum utility box with a PVC apron will be placed over each wellhead and set in concrete placed flush with the surrounding ground surface. Each wellhead cover will have a seal to protect the monitoring well against surface-water infiltration and requires a special wrench to open. The design discourages vandalism and reduces the possibility of accidental disturbance of the well. Typical monitoring well construction is shown on Plate 3.

The proposed monitoring wells will be an important source of information concerning soils and groundwater in the immediate area of ARCO Station 771 located at 899 Rincon Avenue in Livermore, California. The installation and maintenance of the wells will remain the responsibility of ARCO. A well construction permit will be acquired from Alameda County Flood Control and Water Conservation District (ACFCWCD) prior to drilling, and an underground utility line locating company will be contracted to locate underground utilities.

If you have any questions regarding this request, please call us at (408) 264-7723.

Sincerely,

RESNA Industries Inc.

Barbara Sieminski

Assistant Project Geologist

Project Geologist



Street Encroachment Permit Request ARCO Station 771, Livermore, California

September 29, 1992 60000.09

Enclosures:

Plate 1, Site Vicinity Map (five copies)

Plate 2, Proposed Boring/Monitoring Well Locations

Plate 3, Typical Monitoring Well Construction

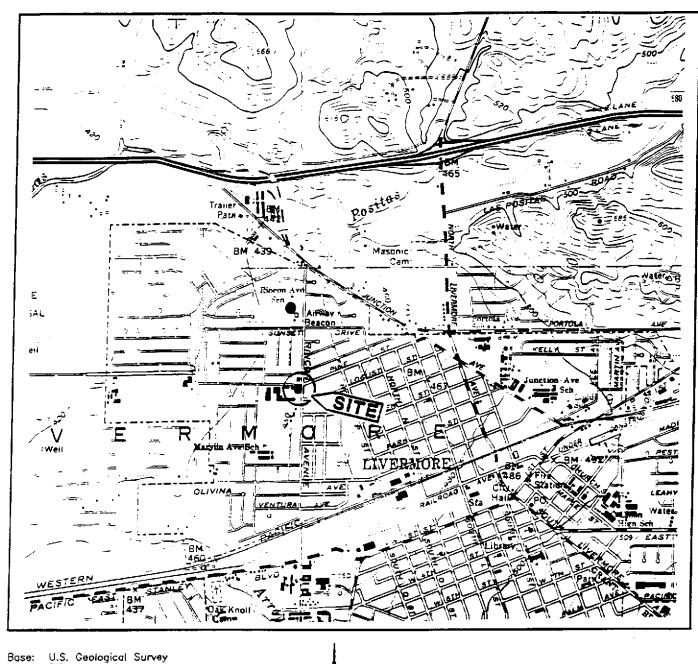
City of Livermore, Street Encroachment Permit Application Check No. 799, dated 9/28/92 for \$100.00 (Permit Fee)

cc:

Michael Whelan, ARCO Products Company Chris Winsor, ARCO Products Company

Susan Hugo, Alameda County Health Care Services Agency

Eddy So, Regional Water Quality Control Board Dannielle Stefani, Livermore Fire Department



Base: U.S. Geological Survey 7.5-Minute Quaarangle Livermore, California Photorevised 1980

LEGEND

(Site Location

Approximate Scale

2000 1000 0 2000 4000

feet

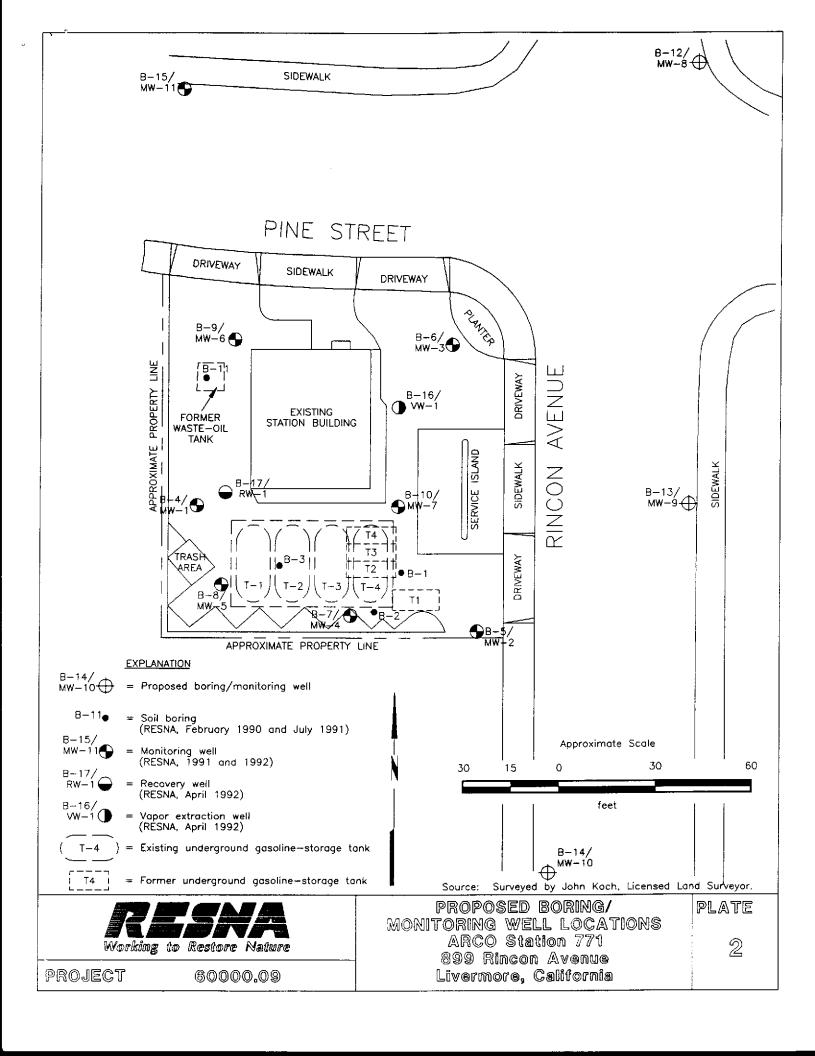
RESNA

PROJECT

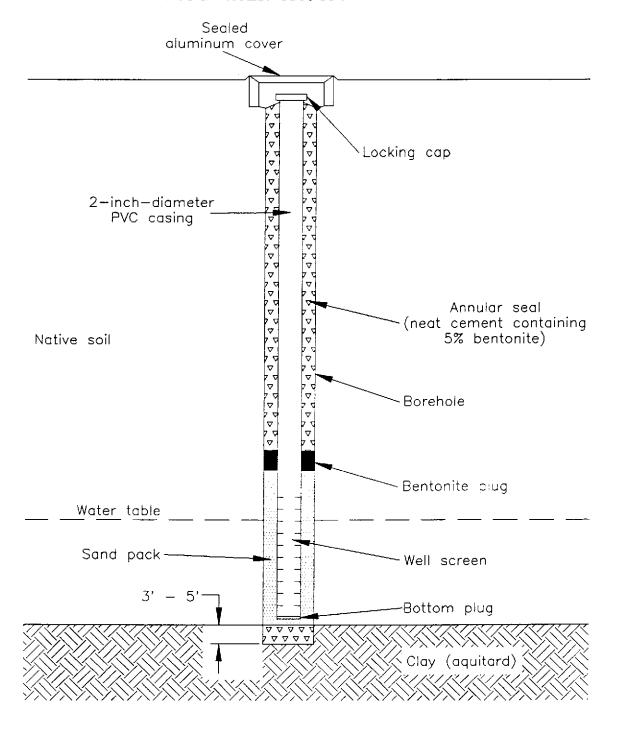
60000.09

SITE VICINITY MAP ARCO Station 771 899 Rincon Avenue Livermore, California PLATE

1



GROUNDWATER MONITORING WELL



Not to scale



PROJECT 60000.09

TYPICAL
MONITORING WELL CONSTRUCTION
ARCO Station 771

ARCU Station (1)
399 Rincon Avenue
Livermore, California

PLATE

3

CITY OF LIVERMORE Public Works Department

STREET ENCROACHMENT PERMIT APPLICATION

PERMIT TO DO WORK IN ACCORDANCE WITH CHAPTER 12.08 OF THE LIVERMORE MUNICIPAL CODE AND SPECIFICATIONS AS ADOPTED BY THE CITY OF LIVERMORE AND ANY SPECIAL REQUIREMENTS SHOWN OR LISTED HEREIN.

Applicant/Permittee: for ARCO	Permit No.:
Name: RESNA Judustics	Receipt No.:
Address: 3315 Almowien Exp., Suite 34	•
San Jose, CA 95118	
Phone: (408) 264 - 7723	
LEAST 24 HOURS BEFORE YOU START WORK.	ORK SITE. TO ARRANGE FOR INSPECTION, PHONE 373-5240 AT
JOB LOCATION immediate vicinity of ARW State	ion 771, 893 Rincon Aue, Livermore, CA(Plate 2)
DECODICTION OF WORK	
Three 10-indi-diameter soil borings 1	will be dalled and three 2-inch-diameter
groundwater monitoring wells (MW-	8 through MW-10) installed in the
bonngs (Plate 3). After initial is	istallation of the wells, they will
be monitored on a guarterly bans	to determine changes in ground-
water levels, and for sampling +	8 through MW-10) installed in the installation of the wells, they will to determine changes in ground- to determine presence of any ground- to be an important source of our around- to be an important source of our area of ARCO771
noter containination. The wells will	I be an important source of
information concerning soil and gr	oundwater in the immediate area of AKLO771
Length of Excavation	I.f. Depth 45 tt.
ATTENTION IS DIRECTED TO THE GENERAL PROVISIONS PR FOLLOWING SPECIAL REQUIREMENTS (to be filled in by Eng	RINTED ON THE REVERSE SIDE OF THIS PERMIT AND TO THE gineering Division):
Prosecution of Work: All work authorized by the permit shall be performed of the satisfaction of the Director of Public Works.	in a workmanlike, diligent, and expeditious manner, and must be completed
of the work permitted and done by permittee under this permit, or which may under said permit in respect to maintenance and encreachment. The permitte	riposed by law for personal injury or property damage which may arise out or arise out of the failure on the part of the permittee to perform his obligations the shall protect and indemnify the City of Livermore, its officers and employees, injury to persons or property that may arise out of or be occasioned in any
Signature of Permittee For RESIVA	City Engineer
Signature of restitutes	
ay: The same of th	Ву:
Pate: 4-28-42	Date of Issue:
Vork Completed:	

Inspector: