

92 NOV 23 PM 2: 23

3315 Almaden Expressway, Suite 34
 San Jose, CA 95118
 Phone: (408) 264-7723
 Fax: (408) 264-2345

TRANSMITTAL

TO: Ms. Susan Hugo
 ACHCSA
 Dept. of Environmental Health
 80 Swan Way, Room 200
 Oakland, California 94612

DATE: November 25, 1992
PROJECT NUMBER: Various
SUBJECT: Minutes to Meeting

FROM: Joel Coffman
TITLE: Project Geologist

WE ARE SENDING YOU:

COPIES	DATED	NO.	DESCRIPTION
1	11/24/92	Various	Minutes to Meeting held at Alameda County Health Care Services Agency (ACHCSA) on November 19, 1992.

THESE ARE TRANSMITTED as checked below:

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

cc: Mr. Michael Whelan, ARCO Products Company
 Mr. Chris Winsor, ARCO Products Company
 John Meck, ARCO Legal Department
 Eddy So, RWQCB
 Hugh Murphy, City of Hayward Fire Department
 Juliet Shin, ACHCSA
 John Vargas, GeoStrategies

Copies: 1 to RESNA project file no. Various ARCO sites

3315 Almaden Expressway, Suite 34
San Jose, CA 95118
Phone: (408) 264-7723
Fax: (408) 264-2345

November 24, 1992
1124shgo

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94612

Subject: Minutes to Meeting held at Alameda County Health Care Services Agency (ACHCSA) on November 19, 1992.

Dear Ms. Hugo:

On behalf of ARCO Products Company (ARCO), RESNA Industries, Inc. (RESNA has prepared these minutes for the meeting held at your offices on November 19, 1992. This meeting was held for discussion of ARCO sites located in Alameda County and under direction of Mr. Eddy So of the Regional Water Quality Control Board (RWQCB). In addition to Mr. Eddy So, attending the meeting were Ms. Susan Hugo and Ms. Juliet Shin of the ACHCSA, Mr. Hugh Murphy and Mr. Jay Swardenski of the City of Hayward Fire Department, Mr. Michael Whelan of ARCO, Mr. John Vargas of GeoStrategies, Inc., and Mr. Joel Coffman of RESNA. An agenda for the meeting, including a listing of sites for discussion, was sent to the offices of the ACHCSA, City of Hayward Fire Department, and the RWQCB prior to the meeting.

Items discussed include the following: ongoing assessment at the sites, offsite access problems, schedules and changes in schedules for remediation, and other issues concerning the sites. Specific topics discussed for each site are included in the following minutes to the meeting.

Attending the entire meeting were Mr. Eddy So of the RWQCB, Ms. Susan Hugo of the ACHCSA, Mr. Michael Whelan of ARCO, and Mr. Joel Coffman of RESNA. The meeting convened at approximately 1:45 p.m. Site specific topics discussed are included in the following portion of these minutes.

ARCO Station 5387, 20200 Hesperian Blvd., Hayward California.

In addition to the people that were present for the entire meeting, during discussion of ARCO Station 5387 were Ms. Juliet Shin of ACHCSA, Mr. John Vargas of GeoStrategies Inc., and Mr. Hugh Murphy and Mr. Jay Swardenski of the City of Hayward Fire Department.

Mr. Vargas described the status of the investigation and planned site activities. Previous work involved installation of seven groundwater monitoring wells and drilling and sampling of four borings. Current work involved three phases which will be presented in an upcoming report. This report is in draft stage and will be submitted **within one month**. Phase One involved the installation of two groundwater monitoring wells and one groundwater recovery well. Phase Two involved monitoring and sampling of all site wells and Phase Three involved aquifer testing. In addition, a groundwater monitoring well was installed down-gradient and across Hesperian Boulevard on November 18, 1992. The extent of hydrocarbon impacted groundwater appears to be delineated on the upgradient and cross-gradient directions. Sampling data from the newly installed well is necessary to assess the down-gradient extent of hydrocarbons. None of the ARCO groundwater monitoring wells contain floating product.

There are four other environmental cases in the vicinity of the ARCO Station. These include the former Texaco Station/Exxon, UNOCAL Station, Shell Station, and Beacon/Alliance Station. Of these, only the Beacon/Alliance Station is currently in operation. According to a Harding Lawson Associates Report concerning the former Texaco Station, an extensive floating product plume appears to be originating from the Beacon/Alliance Station. Mr. Hugh Murphy informed Mr. Michael Whelan that his offices (City of Hayward Fire Department) have additional data pertaining to these cases. Mr. Murphy stated that two letters of violation have been submitted to Beacon/Alliance concerning their site but, as yet, the City of Hayward Fire Department has not received a response.

Ms. Juliet Shin asked if leaded gas was ever present on-site and if lead analysis was performed. ARCO agreed to look into this question.

Due to time required to complete the site assessment, the remediation time schedule should be shifted 4-months. This will make **July, 1993** be the estimated date for start-up of the interim remediation system at the site. Remediation activities at the ARCO Service Station will be carefully monitored so that other nearby contamination problems will not be pulled toward the ARCO Station.

Upon completion of discussion for this site, Ms. Juliet Shin and Mr. John Vargas exited the meeting as this was the only site in which they were specifically involved with.

ARCO Station 362, 29900 Mission Blvd., Hayward, California.

Discussion of this site included mention that the downgradient offsite monitoring wells (MW-6 through MW-8) had been installed and sampled and groundwater samples collected from the offsite wells (MW-6 through MW-8) contained non-detectable amounts of gasoline hydrocarbons. Additionally, eight vapor extraction wells were installed for use in the interim soil remediation system at the site. A work plan outlining three proposed additional onsite groundwater monitoring well installations and the report of the results of the installation of the offsite monitoring wells and eight onsite vapor extraction wells is due to the City of Hayward and the RWQCB before Christmas, 1992.

Mr. Hugh Murphy raised concerns about halogenated volatile organic compounds (VOCs) previously detected in groundwater samples collected from former monitoring well MW-1 (located near the former waste oil tank) and also mentioned that petroleum hydrocarbons were detected in soil samples collected during the recent removal of the oil/water separator/clarifier at the site, as stated in the City of Hayward Fire Department letter to ARCO dated October 27, 1992. Mr. Murphy requested, and Mr. So concurred, that in addition to analyses for gasoline compounds, that groundwater samples collected from monitoring well MW-3 be analyzed for VOCs using EPA Method 8240 in future monitoring events. MW-3 was chosen as it is located relatively downgradient from the former waste-oil tank and former oil/water separator locations. According to Mr. Murphy, these revisions to the current monitoring program will address the City of Hayward's concerns related to the former oil/water separator/clarifier.

It was explained that the engineering plans and specifications had been finalized for the interim remediation system to be installed at the site and that the bid had been awarded to the construction contractor. Procurement of necessary equipment has been initiated and the estimated date for commencement of construction activities is on or before **February 1, 1993**. This construction date allows for an estimated system start-up date for system testing and operation by **mid-March, 1993**.

ARCO Station 1319, 365 Jackson Street, Hayward, California.

Discussion concerning this site began with Mr. Murphy asking why the groundwater elevations measured in on-site monitoring well MW-1 (located within the former gasoline tank pit) were not used for gradient calculation. Mr. Coffman explained that groundwater elevations in MW-1 were anomalously high compared with measured elevations from the other nearby wells. Two possible explanations were provided for these high groundwater elevations in MW-1: that this was part of the effect from being constructed within the former tank pit, which allows for preferential water drainage into MW-1; and, that field personnel had consistently reported that MW-1 was under positive pressure which was noticeable upon opening the sealed well cap during monitoring events. Discussion ensued concerning the positive pressure on the well and Mr. Murphy expressed concerns that if hydrocarbon vapors were being released upon opening the well, that there is a possibility this could pose a potential fire or explosive hazard. It was decided that Mr. Murphy would discuss this with Fire Department personnel and possibly arrange a site meeting to examine the well.

It was discussed that two offsite groundwater monitoring wells (MW-9 and MW-10) had been installed across Jackson and Sycamore Streets from the site. There were some three months delay in the installation of well MW-9 due to obtaining an encroachment permit from Cal Trans. Mr. Coffman provided copies of laboratory analytical results of soil and groundwater samples collected during installation of the off-site wells. These results showed groundwater from well MW-10, located off-site and upgradient from the ARCO site, contained elevated levels of gasoline hydrocarbons. Mr. Coffman had obtained historical aerial photographs of the site vicinity which showed a former gasoline existed in the general vicinity that offsite well MW-10 is located. The site is currently occupied by a seven-eleven store which does not sell gasoline. The offsite monitoring well (MW-9) located cross gradient from the ARCO site contained non-detectable amounts of gasoline hydrocarbons in groundwater samples. A report detailing results of the investigation related to the installation of the offsite monitoring wells and an addendum to work plan proposing installation of additional onsite vapor extraction wells, an onsite groundwater recovery well, and performance of an aquifer test is due to the City of Hayward and the RWQCB before Christmas, 1992. The report detailing results of additional well installations and aquifer test is due for submittal on April 1, 1993. A Remedial Action Plan is due for submittal on May 1, 1993. Detailed engineering design for the interim remediation system at the site is due to be completed by July 1, 1993.

Discussion concerning the location of monitoring well MW-7, near the former waste-oil tank followed. Mr. Murphy and Mr. So expressed concerns that MW-7 was cross-gradient and

not downgradient from the former waste-oil tank. It was agreed that at least another quarter of monitoring to collect additional data to better establish the direction of groundwater flow would take place before a decision would be reached whether to discontinue sampling MW-7 and install an additional well downgradient from the former waste-oil tank.

Based on work currently performed at the site, Mr. Coffman and Mr. Whelan said the engineering design for an interim remediation system for this site should be completed and sent out for construction bids by **September, 1993**. This estimated schedule would allow for an estimated construction commencement date of **November, 1993**. Estimated testing and start-up of the system is **mid - to - late December, 1993**. Mr. So questioned the amount of time required for ARCO to construct these systems. Mr. Whelan explained in the past year, ARCO has learned it takes approximately 9 to 11 months to get from the end of site characterization phase to start-up of these systems. Many of the delays were due to permitting problems including some cases in which the permitting process was almost complete and cities have re-zoned the areas, which has caused significant (up to three or more months) additional delays. Permitting delays have also been encountered in dealings with sanitary districts and the Bay Area Air Quality Management District. Other delays have been associated with slow manufacturer delivery of large pieces of remediation equipment such as catalytic and thermal oxiders.

Mr. So remarked that the monthly site status updates provided for the sites under his jurisdiction were vague and lacked specific dates for completion of certain tasks. He requested that these monthly updates be made more time specific and that they show more commitment on ARCO's part for completing things within given time frames. ARCO agreed to revise the monthly reports.

Mr. Whelan said he would write a letter to Mr. So citing specific examples of delays ARCO had encountered in getting some of these systems installed and operational.

Upon completion of discussion concerning this site, Mr. Hugh Murphy and Mr. Jay Swardenski excused themselves from the meeting as they were not involved in the sites to be discussed which are located in Livermore, California.

ARCO Station 771, 899 Rincon Ave., Livermore, California.

Discussion about this site began by Ms. Susan Hugo and Mr. Joel Coffman mentioning that the owner of property immediately adjacent to the ARCO site had refused to allow ARCO to install groundwater monitoring wells on the property. Mr. So suggested that Ms. Hugo try and schedule a meeting between herself, ARCO, and the property owner. It was noted that three written requests had already been made and that the property owner had spoken with Mr. Coffman and Ms. Hugo concerning this matter. Ms. Hugo said the property owner would allow installation of the wells if ARCO would sign an agreement in advance that whatever contamination may be found in soil or groundwater during the well installations would be the sole responsibility of ARCO. Mr. Whelan explained that ARCO is willing to clean up soils and groundwater impacted by petroleum hydrocarbons which originate from ARCO-owned sites, but ARCO will not sign license agreements granting blanket indemnification for any and all soil/groundwater contaminants.

Mr. Coffman showed Mr. So and Ms. Hugo proposed new locations for three offsite monitoring wells which will be located within City of Livermore right of ways. Mr. So and Ms. Hugo agreed with the proposed new well locations and requested a letter be sent with a Plate showing the proposed locations in lieu of a new work plan addendum. She stipulated that upon gaining access, at least two additional wells would need to be placed upon the adjacent property in the future. The report detailing the results of the offsite monitoring well installations is due to the RWQCB and ACHCSA by **March 1, 1993**.

It was explained that this site was on schedule for installation and start-up of the interim remediation system at the site and that construction of the system had commenced on November 9, 1992.

Ms. Hugo pointed out to Mr. Whelan that in the underground tank replacement report prepared by ROUX Associates, there were no manifest forms included to document disposal of the former tanks. Mr. Whelan agreed to provide these manifest forms.

ARCO Station 6113, 785 E. Stanley Blvd., Livermore, California.

Discussion about this site commenced with Mr. Coffman discussing the existence of two shallow water-bearing zones at the site. The shallowest zone, in which wells MW-1 through MW-4 are constructed, has contained little or no water for the past year and the deeper zone, in which wells MW-5 through MW-9 are constructed, has seen water levels decrease significantly (several feet) during the past quarter. Mr. So explained that the City of

Livermore has many large pumping wells used as domestic supply wells and that pumping of these wells may be partially responsible for the drop in water levels. He asked if RESNA had conducted a well search to identify wells located within 1/2 mile of the site and if water temperature data had been collected from the monitoring wells. Mr. Coffman said he would investigate this further. Mr. So requested that upon installation of a groundwater recovery well, that ARCO continuously sample the soil boring to verify that an aquitard exists between the shallow and deep two water-bearing zones at the site.

Mr. Coffman explained that additional borings, monitoring wells, and two vapor extraction wells had been installed at the site recently and that ARCO currently had the report draft for review. Mr. Whelan said this report would be issued to the RWQCB and ACHCSA in final form by **Christmas, 1992**. In addition, a work plan proposing additional onsite and initial offsite monitoring wells, additional onsite vapor extraction wells, a groundwater recovery well, and performance of an aquifer test would be delivered to the RWQCB and ACHCSA by **January 1, 1993**. The report detailing results of these well installations and aquifer test is due to the RWQCB and ACHCSA by **April 15, 1993**. Other time tables for commencement or completion of work related to this site include a Remedial Action Plan is due to the RWQCB and ACHCSA by **May 15, 1993**. Engineering design should be completed by **July 15, 1993** and bid requests sent out and awarded to winning construction contractor by **August 30, 1993**. This will allow for construction of an interim remediation system at the site to commence by **November 1, 1993**.

Ms. Hugo requested that when water is present in groundwater monitoring well MW-1 that samples collected from the well be submitted for TOG analysis as it is located downgradient from the former waste oil tank.

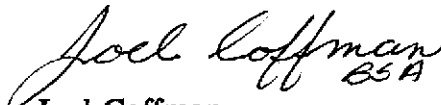
Upon conclusion of discussion for this site, the meeting adjourned at approximately 5:15 p.m.

Minutes to November 19, 1992 Meeting at ACHCSA

November 24, 1992

If you have any questions or comments concerning these minutes to the meeting, please call us at (408) 264-7723.

Sincerely,
RESNA Industries Inc.


Joel Coffman
Project Geologist

cc: Michael Whelan, ARCO Products Company
Chris Winsor, ARCO Products Company
John Meck, ARCO Legal Dept.
Eddy So, RWQCB
Hugh Murphy, City of Hayward Fire Department
Juliet Shin, ACHCSA
John Vargas, GeoStrategies