Environmental
Science &
Engineering, Inc.
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April 17, 1996

Ms. Susan L. Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

SUBJECT: WORKPLAN FOR SOIL AND GROUND WATER INVESTIGATION
AUTOPRO FACILITY
5200 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
ESE PROJECT NO. 6595219

96 APR 18 PM 2:

Dear Ms. Hugo:

Environmental Science & Engineering, Inc. (ESE) is pleased to present this workplan for a soil and ground water investigation for the Autopro Facility located at 5200 Telegraph Avenue in Oakland, California (Figure 1 - Location Map). The scope of work presented is based upon a letter received from the Alameda County Health Care Services Agency (ACHCSA) dated February 5, 1996. The scope of work is as follows:

- Revise the existing Health and Safety Plan previously prepared by ESE and contact Underground Service Alert (USA) prior to performing any subsurface activities;

- Obtain permits from: a) Alameda County Zone 7 Water Conservation District (Zone 7) for soil borings; b) the City of Oakland for encroachment on city streets/sidewalks; and c) AC Transit for encroachment on a bus stop;

- Supervise the drilling of eight soil borings and collect soil and "grab" ground water samples from each boring;

- Submit two soil samples and one ground water sample from each boring to a State-certified analytical laboratory for analysis of Total Petroleum Hydrocarbons as gasoline (TPH-G); Total Petroleum Hydrocarbons as diesel (TPH-D); Total Petroleum Hydrocarbons as motor oil (TPH-MO); benzene, toluene, ethylbenzene, xylenes (BTEX); and methyl tertiary butyl ether (MTBE), by Environmental Protection Agency (EPA) Methods 8015, 8015M, 8015M, 8020, and 8020, respectively;

- Prepare a report of findings for the soil and ground water investigation including tabulation of results and preparation of maps showing estimated extent of contamination in soil and ground water; and,

- Perform quarterly ground water monitoring activities of four on-site and two off-site ground water monitoring wells.

The following tasks are associated with the completion of the above scope of work:

Task 1 - Prefield Activities

ESE will revise the existing Health and Safety Plan, obtain the necessary permits from Zone 7, the City of Oakland, and AC Transit. In addition, ESE will contact USA for underground utility clearance of the boring locations.

Task 2 - Collection of Soil Samples and Grab Ground Water Samples

ESE will supervise a State-licensed drilling subcontractor in the drilling of eight soil borings at locations specified on Figure 2 - Site Map. The soil borings will be completed using the Geoprobe Direct Push Technology to a maximum depth of 25 feet below ground surface (bgs) or the first occurrence of ground water, whichever comes first. Soil samples will be collected every five feet and at the ground water interface using a 12-inch long acetate liner. Upon retrieval, the sample ends will be covered with Teflon tape, capped with plastic caps, and sealed with duct tape. The samples will be labeled and placed on ice under chain-of-custody documentation for transport to a State-certified analytical laboratory.

Grab ground water samples will be collected from each well by pushing the sample collection tube below the water table approximately 5 feet and lowering new 3/4-inch polyvinyl chloride (PVC) casing into the open hole and through the ground water table. Ground water will be collected by lowering a clean 1/2-inch PVC bailer through the casing using new nylon cord. The ground water retrieved in the bailer will then be decanted into laboratory-supplied glassware, labeled, and placed on ice under chain-of-custody documentation for transport to a State-certified analytical laboratory.

In addition, ESE will subcontract a traffic control specialist who will provide traffic control during the drilling activities. The traffic control measures will meet or exceed CalTrans specifications.

Task 3 - Soil and Ground Water Investigation Report of Findings

ESE will prepare a report of findings for the soil and ground water investigation which will include historical tabulation of soil and ground water analytical data, site maps presenting analyte concentration in soil and ground water, and recommendations for installation of additional monitoring wells.

Task 4 - Quarterly Ground Water Monitoring

ESE will implement quarterly ground water monitoring activities for the four existing on-site and two off-site ground water monitoring wells, including ground water level measurements, ground water sampling, and reporting. The samples will be analyzed for the above-mentioned analytes and the report will include historical tabulation of ground water elevations, a ground water gradient map, and an estimated extent of ground water contamination. Off-site well sampling will be coordinated with Chevron and prior written approval will be obtained by ESE to perform the sampling.

In addition to sampling the two off-site ground water monitoring wells, ESE will subcontract a State-licensed Land Surveyor to locate and survey the four on-site and two off-site ground water monitoring wells. Because the ground water monitoring wells were installed for different investigations, the elevations of the wells need to be surveyed in relation to one another and relative to mean sea level.

ESE would like to proceed with the scope of work as soon as possible. Please contact Chris Valcheff at (510) 685-4053 if you should have any questions concerning the scope of work presented.

Sincerely,

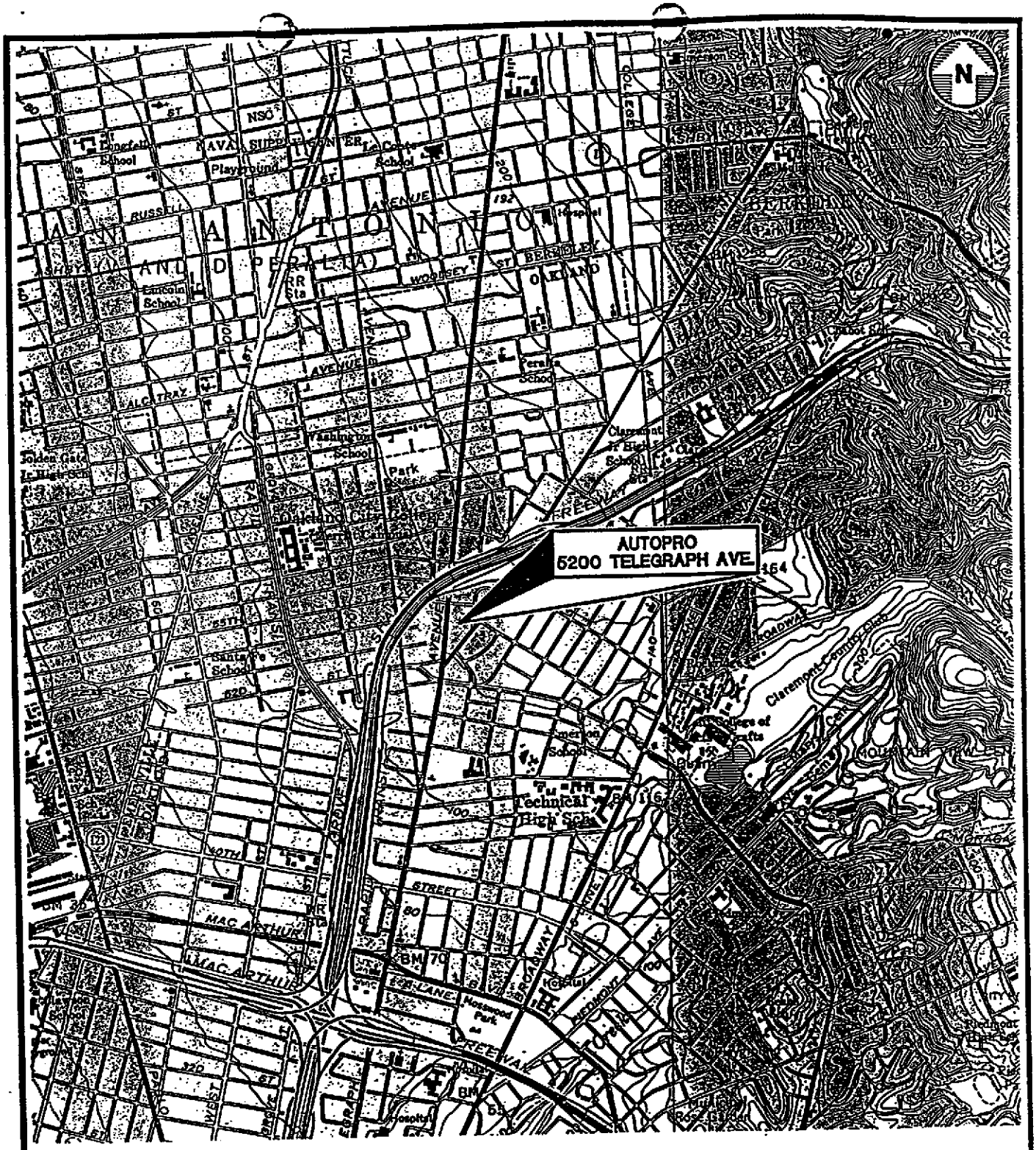
ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

Christopher H. Valcheff
Senior Staff Geologist

George O. Reid, R.G. 3608
Senior Geologist

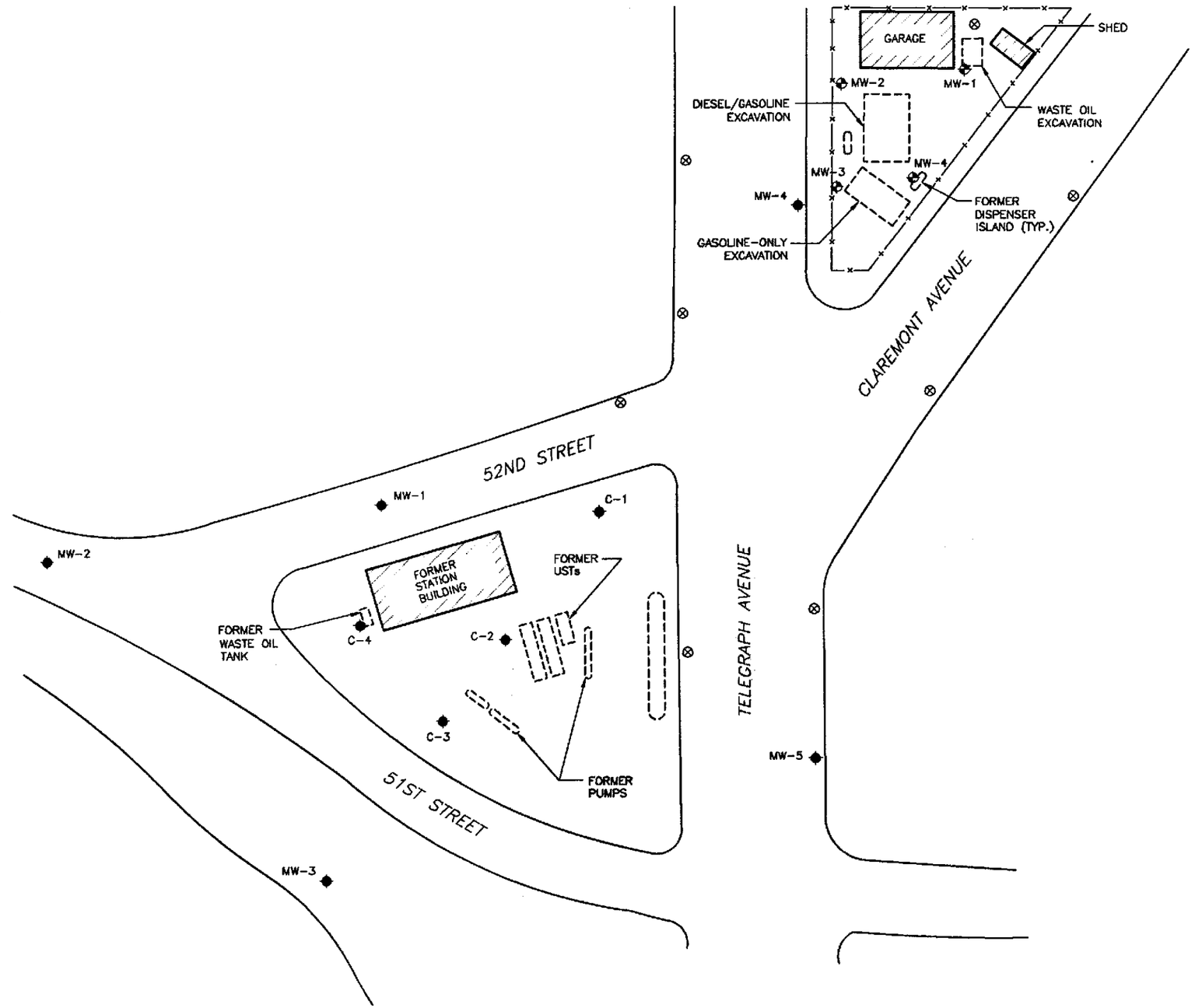
attachments: Figure 1 - Location Map
Figure 2 - Site Map

cc: Mr. Ondrej M. Kojnok, Tri Star Partnership, 2 N. Second Street, Ste. 1390, San Jose, CA 95133



ADAPTED FROM U.S.G.S. OAKLAND EAST AND OAKLAND WEST 7.5 MINUTE TOPOGRAPHIC QUADRANGLE MAPS, 1959, PHOTOREVISED 1980.

Environmental Science & Engineering, Inc. A CECORP Company	DATE 3/94 REVISED	LOCATION MAP	FIGURE NO. 1
4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	CAD FILE 52191001	AUTOPRO 5200 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	PROJ. NO. 6-94-5219



LEGEND

- MW-3 ⊕ GROUND WATER MONITORING WELLS INSTALLED BY ESE
- MW-5 ● GROUND WATER MONITORING WELLS INSTALLED BY CHEVRON
- ⊗ PROPOSED SOIL BORING
- —×— FENCE

APPROX. SCALE
0 60 FEET

CHEVRON SITE BASEMAP FROM CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.

ESE Environmental Science & Engineering, Inc. 4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	DATE 2/12/96 REVISED CAD FILE 65521902	SITE MAP AUTOPRO 5200 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	FIGURE NO. 2 PROJ. NO. 65-95-219