WORK PLAN ADDENDUM FOR ADDITIONAL SITE INVESTIGATION

PROJECT SITE:

MOTOR PARTNERS
1234 40TH AVE.
OAKLAND, CALIFORNIA
StID #3682

PREPARED FOR:

Mr. Bill Owens
2221 Olympic Blvd.
Walnut Creek, CA 94595
510-935-3840

SUBMITTED TO:

Mr. Barney Chan
Environmental Health
Alameda County
1131 Harbor Bay Pkwy
Alameda, CA 94502-6577
510-567-6765

PREPARED BY:

Gary Rogers, Ph.D.
38053 Davy Ct.
Fremont, CA 94536
(510) 791-7157

PROJECT NO. 1004

January 21, 1998

SITE WORK ADDENDUM

This addendum discusses proposed changes to the Work Plan for Additional Site Investigation at Motor Partners (dated September 13, 1997). For background information, standard procedures, Site Specific Health and Safety Plan, etc. please see the original Work Plan. The following changes are proposed for the site investigation.

Tasks 3 and 4. Soil and Groundwater Sampling/Monitoring Well Installation

One additional soil boring will be completed to further delineate the lateral and vertical extent of soil and groundwater contamination. This boring will be finished as a monitoring well (MW-5). The proposed boring location is shown on Figure 3 (revised drawing dated Jan. 21, 1998).

The boring will be located inside the Motor Partners building, down gradient of the former UST's. Drilling will be completed using an Earthprobe portable drill rig. The boring will be drilled to approximately twenty five feet below grade.

A geologist or civil engineer will supervise the preparation of geologic logs, the collection of soil samples at five foot intervals or changes in lithology, and the submittal of an appropriate number of soil samples for certified analysis. At least one soil sample collected from the boring will be submitted for analysis under chain of custody documentation to a state certified laboratory. The soil sample will be analyzed for TPH-g (EPA Modified Method 8015 and Method 5030), TPH-d (EPA Modified Method 8015 and Method 3550), BTEX (EPA Method 8020 and Method 5030), and methyl t-butyl ether (MTBE) using EPA method 8020.

All soil cuttings and/or impacted groundwater generated onsite during field activities will be tested and prepared for appropriate disposal.

Proposed Well design specifications.

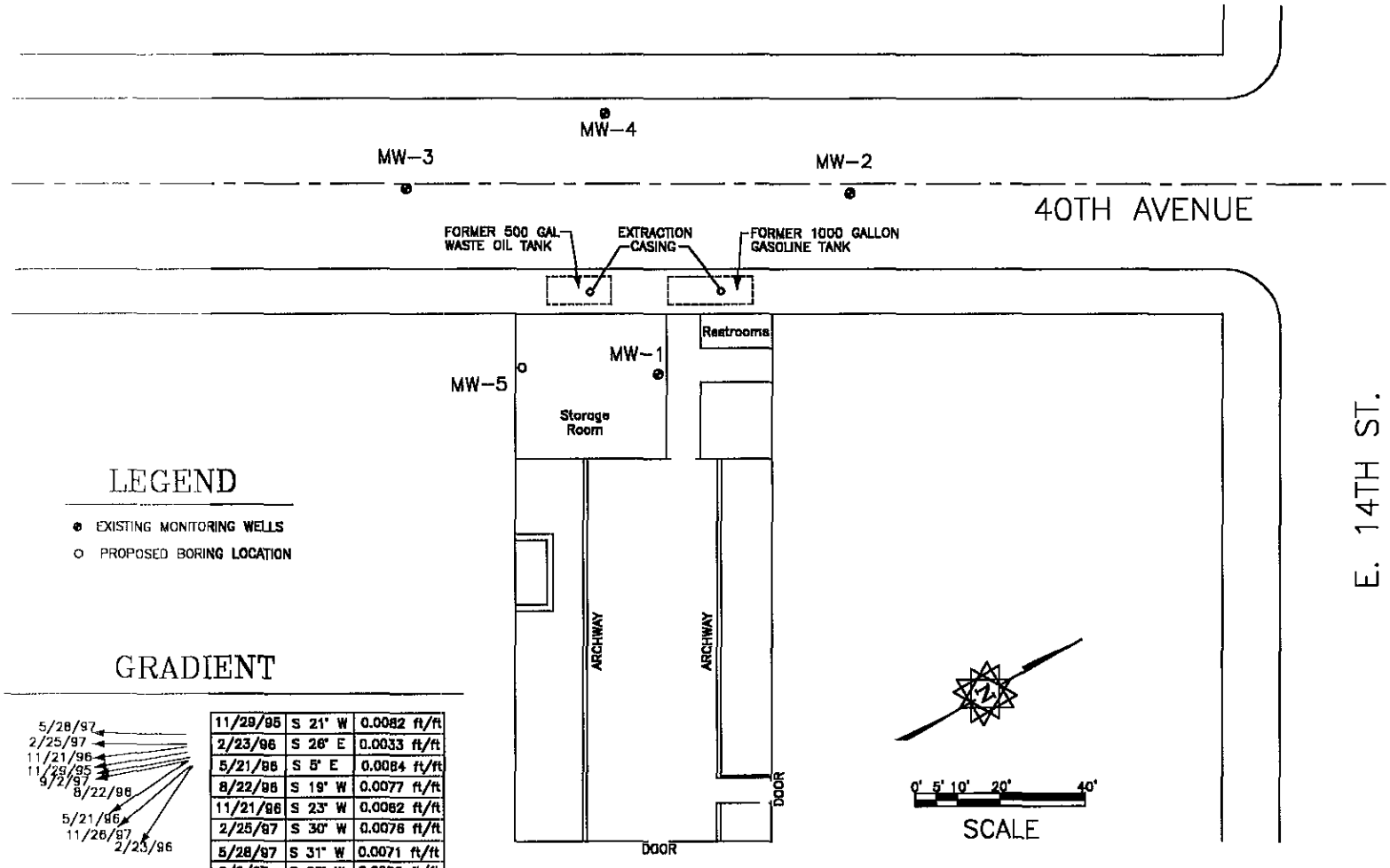
The boring will be converted to a 2 " diameter monitoring well (MW-5) installed to a depth of approximately 25 feet below ground surface. Criteria used to determine well design specifications are contained in Appendix A (see Work Plan dated Sept. 13, 1997). The filter pack material (No. 2./14 sand) and screen size (0.010 in.) were selected on the assumption of a sandy clay soil. A sketch of the well design is shown in Figure 4, Appendix A (see Work Plan dated Sept. 13, 1997). The well will be developed no less than 24 hours after completing the grout seal.

Specifications for the monitoring well will be as follows:

Total Depth	25.0 ft.
Bore Diameter	6 in.
Casing Diameter	2 in.
Well Seal Type	bentonite pellets
Well Seal Interval	4.0 - 5.0 ft. bgs
Filter Pack Material	No. 2/14 Lonestar sand
Filter Pack Interval	5.0 - 25.0 bgs
Screen Slot Size	0.010 in
Screened Interval	7.0 - 25.0 bgs

The well will be developed and purged according to standard protocols (see Work Plan dated Sept. 13, 1997, Appendix A). In addition, the well will be surveyed to determine the top of casing elevation in relation to other wells at the site. The well design, analytical results, and surveying data will be presented in a monitoring well installation report.

MW-5 will be sampled quarterly in conjunction with regularly scheduled sampling of the other monitoring wells. The ground water samples will be analyzed for TPH-g (EPA Modified Method 8015 and Method 5030), TPH-d (EPA Modified Method 8015 and Method 3550), BTEX (EPA Method 8020 and Method 5030), and methyl t-butyl ether (MTBE) using EPA method 8020.



11/29/95	S 21° W	0.0082 ft/ft
2/23/96	S 26° E	0.0033 ft/ft
5/21/96	S 5° E	0.0084 ft/ft
8/22/96	S 19° W	0.0077 ft/ft
11/21/96	S 23° W	0.0082 ft/ft
2/25/97	S 30° W	0.0076 ft/ft
5/28/97	S 31° W	0.0071 ft/ft
9/2/97	S 20° W	0.0086 ft/ft
11/26/97	S 11° E	0.0057 ft/ft

AQUATIC & ENVIRONMENTAL APPLICATIONS 38053 DAVY CT. FREMONT, CA 94536 (510) 791-7157	DRAWN BY: GLR	PROJECT NUMBER: 1004	DESCRIPTION: Proposed Boring Location	FIGURE: 3
	DRAWING DATE: 1/21/98	FILE NAME: 1004-WP2.DWG		
	REVISION BY:	PROJECT MANAGER: GLR	PROJECT/LOCATION: Motor Partners 1234 40th Ave., Oakland	
	REVISION BY:	CHECKED BY:		