

GERALD G WILKINSON
2664 MAPLEWOOD LANE
SANTA CLARA, CA 95051

93 SEP 29 AM 11:30

SEPTEMBER 28, 1993

Ms. Juliet Shin
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Subject: Quarterly Ground Water Monitoring Report
1025 Eastshore Highway, Albany, CA

Dear Ms. Shin:

Enclosed is the Third Quarterly Ground Water Monitoring Report for
your information.

Sincerely,


Gerald G. Wilkinson

September 20, 1993
93 SEP 29 AM 11:30

Mr. Gerry Wilkinson
Mr. Tad Tassone
Wilkinson Equipment Corporation
P. O. Box 7680
San Francisco, CA 94120

Subject: Quarterly Ground Water Monitoring Report
1025 Eastshore Highway, Albany, CA

Dear Messrs. Wilkinson and Tassone:

As requested and authorized, the attached September, 1993 Quarterly Ground Water Monitoring Report has been prepared to document the monitoring well sampling efforts performed at the subject site. The report presents the recorded ground water elevations, the ground water sampling protocols, and the results of the analytical testing performed on ground water samples collected on September 13, 1993.

In summary, the analytical testing did not detect Total Petroleum Hydrocarbons as gasoline, Total Petroleum Hydrocarbons as diesel, Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, or Total Xylenes), or Oil & Grease in the ground water samples. This is the third sample event with non-detectable concentrations.

Copies of this report should be forwarded to:

Ms. Juliet Shin
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

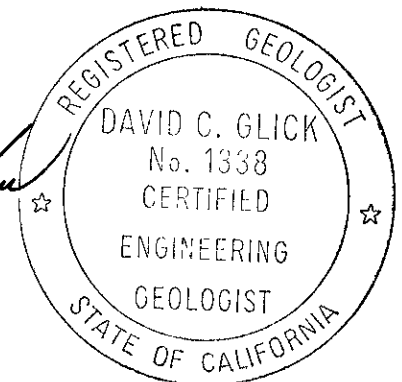
Mr. Greg Zentner
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Room 500
Oakland, CA 94612

It has been a pleasure to be of service to you on this project. Questions or comments regarding the attached report should be addressed to the undersigned.

Respectfully submitted,

Geo Plexus, Incorporated

David C. Glick
David C. Glick, CEG 1338
Director, Geological and
Environmental Services



SEPTEMBER, 1993 QUARTERLY
GROUND WATER MONITORING REPORT
for
WILKINSON EQUIPMENT CORPORATION
1025 EASTSHORE HIGHWAY
ALBANY, CA

Prepared for:
Wilkinson Equipment Corporation
P. O. Box 7680
San Francisco, CA 94120

Project C92054
September 20, 1993

SEPTEMBER, 1993 QUARTERLY
GROUND WATER MONITORING REPORT
for
WILKINSON EQUIPMENT CORPORATION
1025 EASTSHORE HIGHWAY, ALBANY, CA

INTRODUCTION

The project site is located at 1025 Eastshore Highway in the City of Albany, in Alameda County, California as indicated on Figure 1. The site has been, and currently is, occupied by an equipment rental facility. Six underground storage tanks were removed from the site in October, 1992. The tanks included: (1) 8,000 gallon gasoline tank, (1) 4,000 gallon gasoline tank, (1) 8,000 gallon diesel tank, (1) 1,000 gallon waste oil tank, (1) 550 gallon motor oil tank, and (1) 550 gallon hydraulic oil tank and were located as indicated on Figure 2.

Soil samples obtained during the tank removal activities by Blain Tech Services, Inc. were submitted for analytical testing. The soil samples did not contain detectable concentrations of Total Petroleum Hydrocarbons as gasoline, Total Petroleum Hydrocarbons as diesel, Oil and Grease, Volatile Aromatic Compounds, or Volatile Organic Compounds. A ground water sample was also obtained from the tank excavation which contained 1,100 parts per billion (ppb) of Total Petroleum Hydrocarbons as gasoline, 170 ppb Total Petroleum Hydrocarbons as diesel, and 1,300 ppb Oil and Grease. The excavation was subsequently backfilled with clean imported fill material and the excavated soil was hauled off-site for thermal destruction.

Based on information derived by Geo Plexus, Inc. during a Preliminary Site Characterization Investigation, it was determined that the direction of ground water flow in the immediate vicinity of the project site is in a westerly direction as indicated on Figure 3. One ground water monitoring well was installed in the reported/verified "down-gradient" direction within 5 feet of the excavation as indicated on Figure 4. Analytical testing of ground water samples obtained from the monitoring well did not detect Total Petroleum Hydrocarbons as gasoline, Total Petroleum Hydrocarbons as diesel, Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, or Total Xylenes), or Oil & Grease.

MONITORING WELL SAMPLING

Free product measurements were obtained at the time of sample acquisition utilizing an acrylic bailer lowered into the wells to obtain a surface water sample. The bailer was used to collect a water sample to observe the presence of hydrocarbon odors, visible sheen, or free product. Free product, visible sheen, or odors were not observed in the monitoring well sample.

Prior to sampling, a minimum of four well volumes were purged from the well through the use of a teflon bailer. Electrical conductivity, temperature, and pH of the ground water were recorded throughout the purging process. The purging activities continued until the electrical conductivity, temperature, and pH of the discharged water stabilized. Water samples for analytical testing were obtained through the use of the teflon bailer. The water developed from the monitoring wells was contained on-site pending receipt of the laboratory test results.

The water samples were collected in sterilized glass vials with Teflon lined screw caps. The water samples collected for Volatile Organics were collected in 40 mil. vials acidified with HCL by the analytical laboratory. The water samples collected for Total Petroleum Hydrocarbons as diesel and Oil & Grease were collected in sterilized 1-liter amber jars with Teflon lined screw caps. The samples were immediately sealed in the vials and properly labeled including: the date, time, sample location, project number, and indication of any preservatives added to the sample. A travel blank (identified as MW-A) was obtained from the analytical testing laboratory, transported to the field with the sample vials, and was submitted along with other samples for analysis. The samples were placed on ice immediately for transport to the laboratory under chain-of-custody documentation.

ANALYTICAL TESTING

The ground water samples were submitted to and tested by McCampbell Analytical, Inc., a State of California, Department of Health Services certified testing laboratory. Analytical testing was scheduled and performed in accordance with the State of California, Regional Water Quality Control Board and Alameda County Guidelines. The analytical test data, along with the Chain-of-Custody Forms are presented in Appendix A.

The water samples were tested for Total Petroleum Hydrocarbons as gasoline by Method GCFID 5030/8015, Total Petroleum Hydrocarbons as diesel by Method GCFID 3550/8015, Oil and Grease by EPA Method 5520, and Volatile Aromatics by EPA Method 8020 as indicated on the Chain-of-Custody Form.

SUMMARY OF FINDINGS

Ground water was observed/recorded at a depth of 7.0 feet below the ground surface.

The analytical testing did not detect Total Petroleum Hydrocarbons as gasoline, Total Petroleum Hydrocarbons as diesel, Oil & Grease, or Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, or Xylenes) in the ground water sample obtained from Monitoring Well MW-1. Tables 1 and 2 summarize the current analytical test results along with the results of the previous analytical testing.

TABLE 1

SUMMARY OF GROUND WATER ANALYTICAL TEST DATA

<u>Date Sampled</u>	<u>Total Petroleum Hydrocarbons</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-Benzene</u>	<u>Total Xylenes</u>
3-04-93	ND	N.D.	N.D.	N.D.	N.D.
6-09-93	ND	N.D.	N.D.	N.D.	N.D.
9-13-93	ND	N.D.	N.D.	N.D.	N.D.

Note: Total Petroleum Hydrocarbons reported as gasoline
N.D. indicates non-detectable concentrations

TABLE 2

SUMMARY OF GROUND WATER ANALYTICAL TEST DATA

<u>Date Sampled</u>	<u>Total Petroleum Hydrocarbons</u>	<u>Oil & Grease</u>
3-04-93	ND	ND
6-09-93	ND	ND
9-13-93	ND	ND

Note: Total Petroleum Hydrocarbons reported as diesel
N.D. indicates non-detectable concentrations

RECOMMENDATION

It is recommended that the ground water monitoring well at the site continue to be sampled on a quarterly basis to monitor the absence of the hydrocarbon products in the ground water to support site closure.

LIMITATIONS

We have only observed a small portion of the pertinent soil and ground water conditions present at the site. Subsurface conditions across the site have been extrapolated from information obtained from review of existing documents and from the field investigation. The conclusions made herein are based on the assumption that soil conditions do not deviate appreciably from those described in the reports and observed during the field investigation.

Geo Plexus, Incorporated provides consulting services in the fields of Geology and Engineering Geology performed in accordance with presently accepted professional practices. Professional judgments presented herein are based partly on information obtained from review of published documents, partly on evaluations of the technical information gathered, and partly on general experience in the fields of geology and engineering geology.

No attempt was made to verify the accuracy of the published information prepared by others used in preparation of this assessment report.

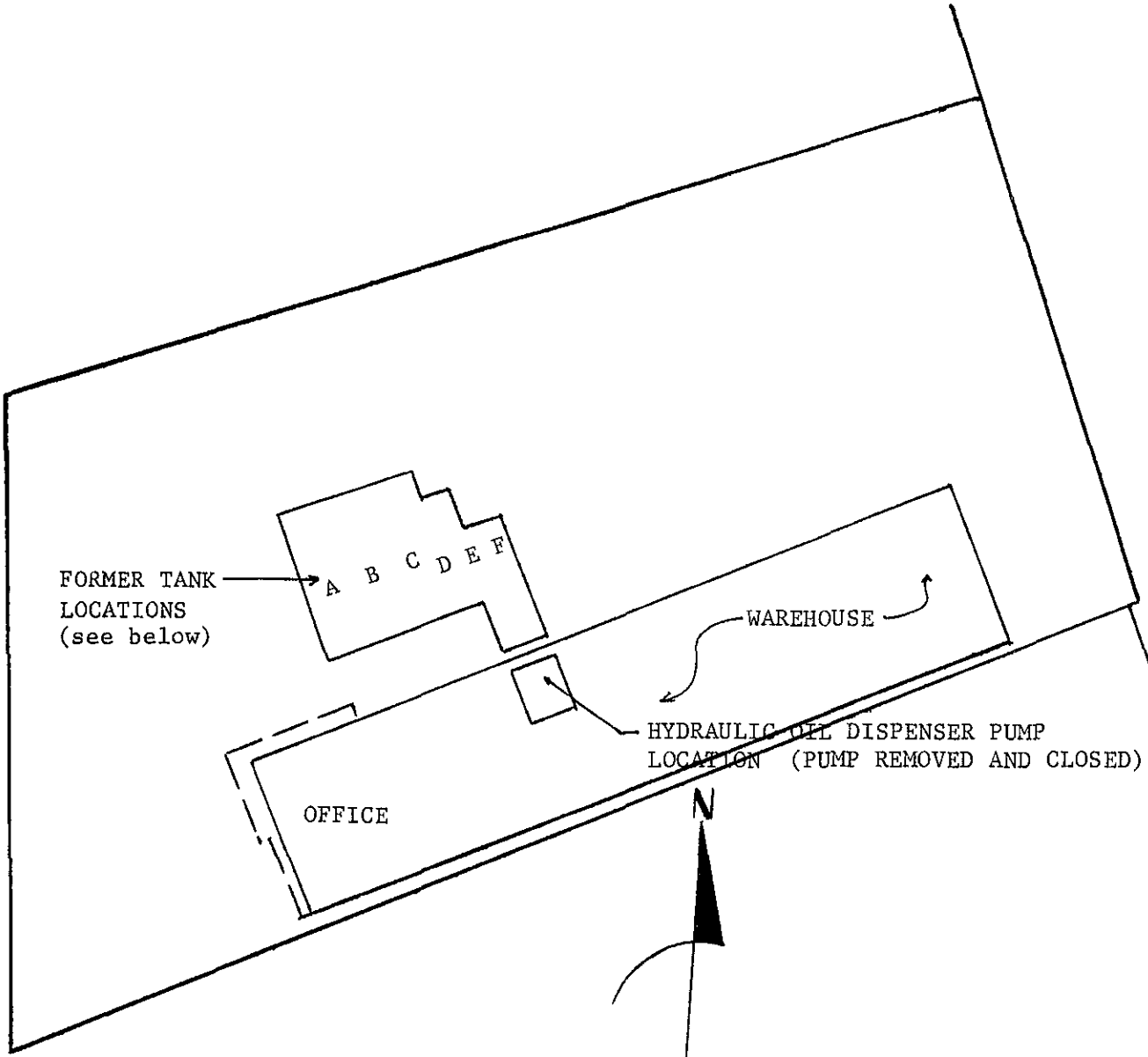
If you have questions regarding the findings, conclusions, or recommendations contained in this report, please contact us. We appreciate the opportunity to serve you.

Geo Plexus, Incorporated



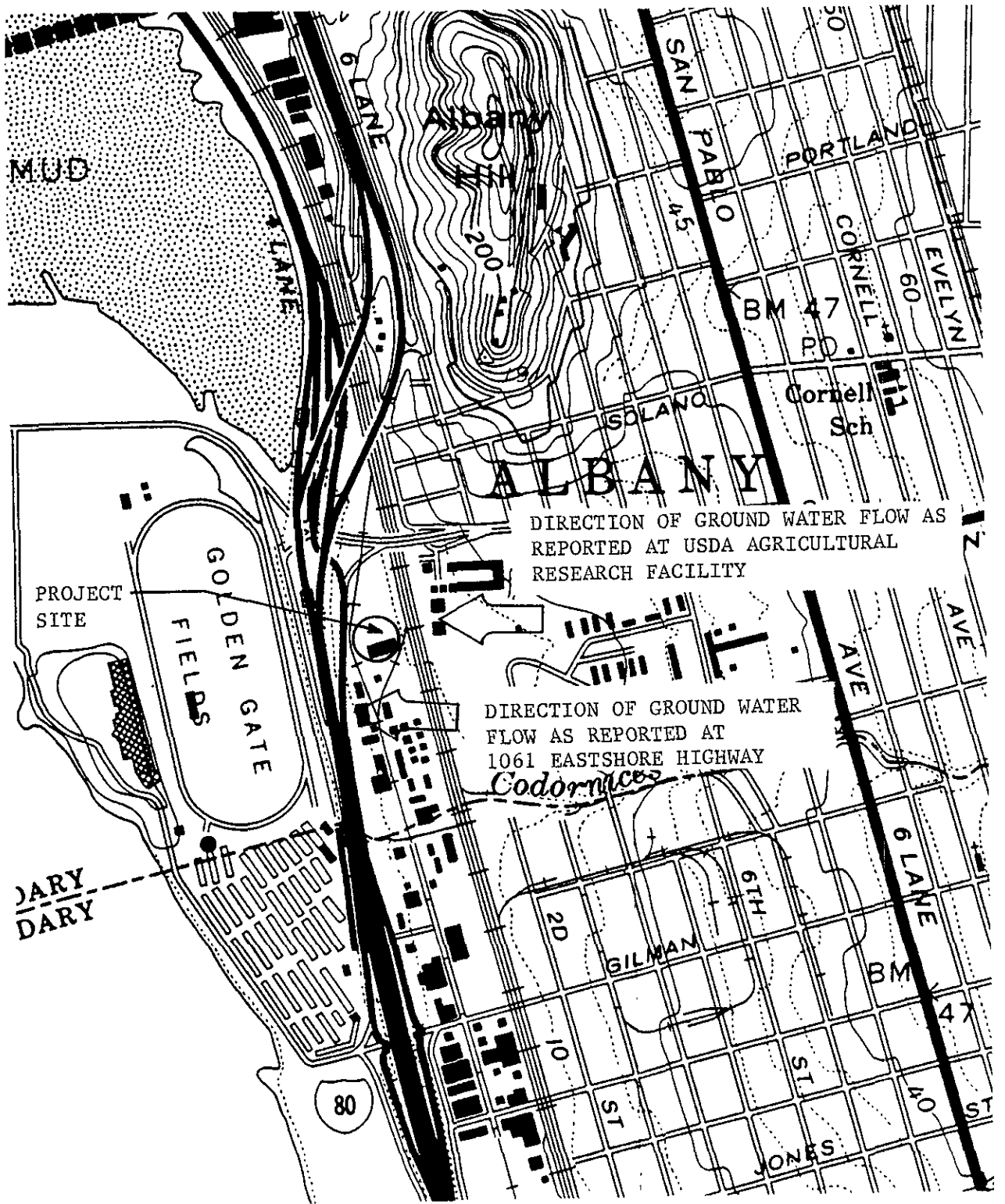
WILKINSON EQUIPMENT		
DATE 1/8/93	SCALE 1"=2000'	DRAWN BY dcg
VICINITY MAP		
		Figure 1

EASTSHORE HIGHWAY



- TANK A 3,000 gal gasoline
- TANK B 3,000 gal diesel
- TANK C 4,000 gal gasoline
- TANK D 1,000 gal waste oil
- TANK E 550 gal new motor oil
- TANK F 550 gal hydraulic oil

WILKINSON EQUIPMENT		
DATE 1-10-93	SCALE 1"=50'	DRAWN BY dca/tf
SITE PLAN		
		Figure 2



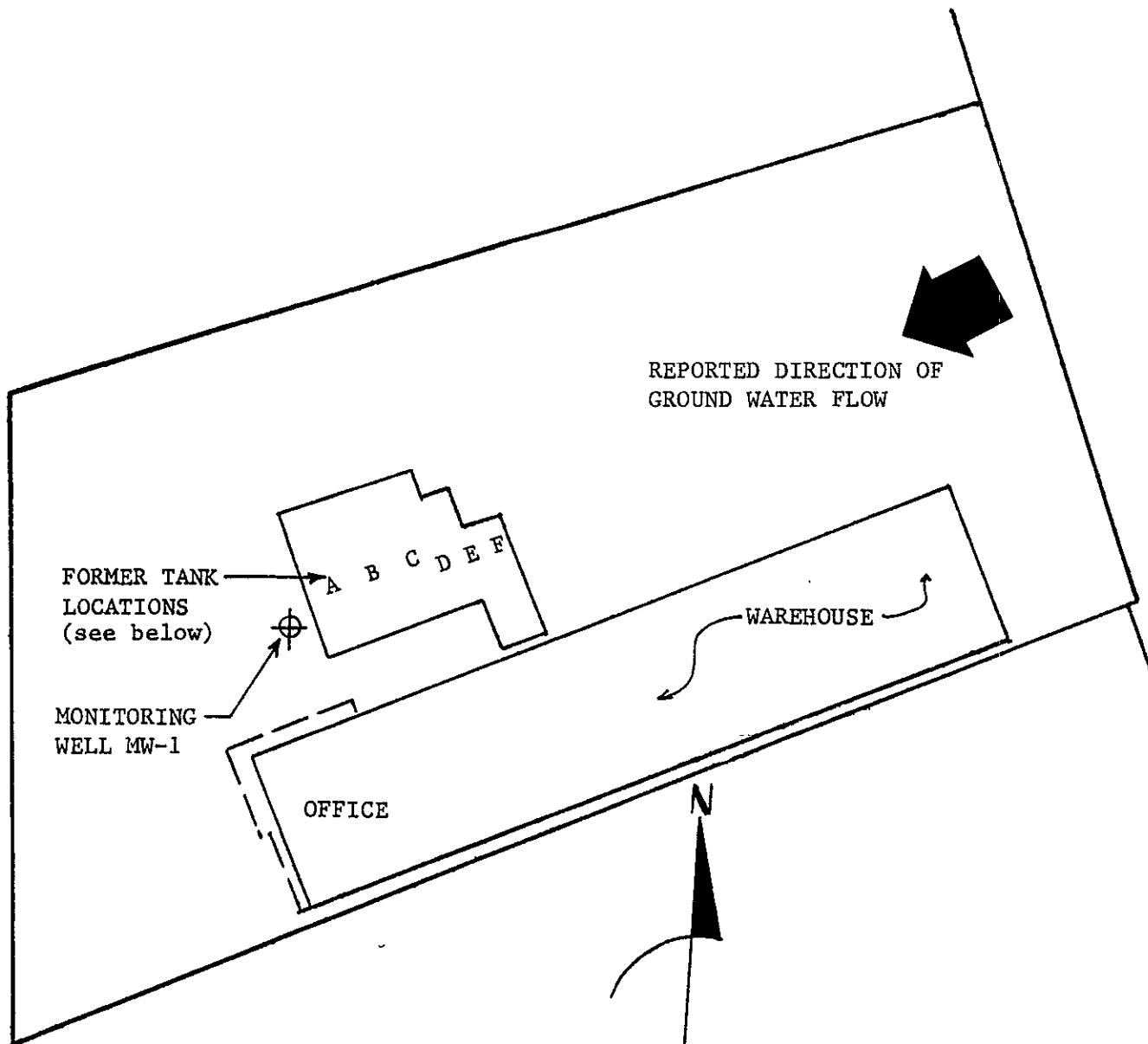
DIRECTION OF GROUND WATER FLOW AS REPORTED AT USDA AGRICULTURAL RESEARCH FACILITY

DIRECTION OF GROUND WATER FLOW AS REPORTED AT 1061 EASTSHORE HIGHWAY

Codornices

WILKINSON EQUIPMENT		
DATE 1/8/93	SCALE na	DRAWN BY dcg
GROUND WATER DATA		
		Figure 3

EASTSHORE HIGHWAY



- TANK A 8,000 gal gasoline
- TANK B 8,000 gal diesel
- TANK C 4,000 gal gasoline
- TANK D 1,000 gal waste oil
- TANK E 550 gal new motor oil
- TANK F 550 gal hydraulic oil

WILKINSON EQUIPMENT		
DATE 1-10-93	SCALE 1"=50'	DRAWN BY dcbg/tf
SITE PLAN		
		Figure 4

APPENDIX A
CHAIN-OF-CUSTODY FORMS
AND
ANALYTICAL TEST DATA

PROJECT NUMBER C93027		PROJECT NAME WILKINSON EQUIP.				Number of Cntnrs	Type of Containers	Type of Analysis					Condition of Samples	Initial
Send Report Attention of: DAVID GLICK		Report Due 1 1		Verbal Due 1 1				TPHG	TPHD	BTEX	Oil&Grease			
Sample Number	Date	Time	Comp	Grab	Station Location									
MWA - WS1A,B	9/13/93	1100		1	MON W11 A	2CA	Acidified 40 mL VOA	✓	✓				32193 321	
MW1 - WS1A,B	9/13/93	1245		1	MON W11 1	2CA	Acidified 40 mL VOA	✓	✓				32194 321	
MW1 - WS2A,B,C	9/13/93	1245		1	MON W11 1	3CA	1 LTR AMB SR	✓	✓				32195 321	
ICE/T <input checked="" type="checkbox"/> PRESERVATIVE <input checked="" type="checkbox"/> VOAS <input checked="" type="checkbox"/> O & G <input checked="" type="checkbox"/> METALS <input type="checkbox"/> OTHER <input type="checkbox"/> GOOD CONDITION <input checked="" type="checkbox"/> APPROPRIATE CONTAINERS <input checked="" type="checkbox"/> HEAD SPACE ABSENT <input checked="" type="checkbox"/>														
Relinquished by: (Signature) <i>[Signature]</i>		Date/Time 9/14/93 10:20		Received by: (Signature) <i>[Signature]</i>		Date/Time 9/14/93 12:20		Remarks: Purchase Order No.: 93.3647 STANDARD TURBIDIMETER						
Relinquished by: (Signature) <i>[Signature]</i>		Date/Time 9/14/93 10:20		Received by: (Signature) <i>[Signature]</i>		Date/Time 9-14-93		COMPANY: Geo Plexus, Inc. ADDRESS: 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 PHONE: (408)987-0210 FAX: (408)988-0815						
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time								

QC REPORT FOR HYDROCARBON ANALYSES

Date: 09/14-09/15/93

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	104.2	100.9	101	103	100	3.2
Benzene	0.0	9.9	10.0	10	99	100	1.0
Toluene	0.0	9.9	10.0	10	99	100	1.0
Ethyl Benzene	0.0	9.8	9.8	10	98	98	0.0
Xylenes	0.0	30.1	30.3	30	100	101	0.7
TPH (diesel)	0	148	158	150	99	105	6.2
TRPH (oil & grease)	0	21200	22000	20000	106	110	3.7

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$