Shell Oil Company

EAST BAY MARKETING DISTRICT

P O Box 4023
Concord, CA 94524
(415) 676-1414

November 20, 1989

Mr. Larry Seto
County of Alameda
Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, California 94621

89 NOV 20 AM 11:00

SUBJECT: SHELL SERVICE STATION
2800 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA 609

Dear Mr. Seto:

Enclosed is a of copy of an Addendum to GeoStrategies Inc.'s (GSI) September 22, 1989 report for the subject location. The addendum was prepared to address errors in the report resulting from an incorrect analytical report issued by the laboratory.

If you should have any questions or comments regarding this project please do not hesitate to call me at (415) 676-1414 ext. 127.

Very truly yours,

Diane M. Lundquist
District Environmental Engineer

DML/jw

enclosure

cc: Mr. Tom Callaghan, Regional Water Quality Control Board
Mr. John Werfal, Gettler-Ryan Inc.

GeoStrategies Inc.
2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545
(415) 352-4800

October 31, 1989

Gettler-Ryan Inc.
1992 National Avenue
Hayward, California 94545

Attn: John Werfal

Re: Addendum to GSI Report (September 22, 1989)
Former Shell Service Station
2800 Telegraph Avenue
Oakland, California

Gentlemen:

The purpose of this letter is to transmit errata to the GeoStrategies Inc. (GSI) report dated September 22, 1989. International Technology Analytical Services (IT) inadvertently switched the chemical analytical results for ground-water samples collected from Wells S-8 and S-9 in their analytical report dated August 23, 1989. The IT report originally stated that Total Petroleum Hydrocarbons calculated as Gasoline (TPH-Gasoline) was detected in Well S-9 [1.6 parts per million (ppm)] and Well S-8 was reported as none detected (ND). The amended IT chemical analytical report indicates a concentration of 1.6 ppm TPH-Gasoline for Well S-8 and Well S-9 was reported as ND (Plate 4).

Benzene was initially reported as ND in Well S-8 and 0.032 ppm in Well S-9. The corrected report shows benzene at a concentration of 0.032 in Well S-8 and ND in Well S-9 (Plate 5).

In addition to the amended IT chemical analytical report, an amended Groundwater Sampling Report has also been issued by Gettler-Ryan Inc. Table 2 taken from the September 22, 1989 GSI report has also been corrected and is attached to this correspondence.

If you have any questions, please call.

Timothy J. Walker
Geologist

Jeffrey L. Peterson
Senior Hydrologist
R.E.A. 1021

REGISTERED GEOLOGIST
CHRISTOPHER M. PALMER
№ 1262
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

Christopher M. Palmer
C.E.G. 1262 R.E.A 285

TJW/JLP/mlg

Table 2
Plate 4. TPH Isoconcentration Map
Plate 5. Benzene Isoconcentration Map
Amended G-R Groundwater Sampling Report (August 3, 1989)

TABLE 2

GROUND-WATER CHEMICAL DATA

WELL NO	SAMPLE DATE	ANALYSIS DATE	TPH (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)	WELL ELEV (FT)	STATIC WATER ELEV (FT)	PRODUCT THICKNESS (FT)	DEPTH TO WATER (FT)
S-1	03-Aug-89	10-Aug-89	ND	ND	ND	ND	ND	29.31	19.43	----	9.88
S-2	03-Aug-89	10-Aug-89	0.43	0.073	0.001	0.014	0.007	27.91	18.16	----	9.75
S-3	03-Aug-89	----	----	----	----	----	----	27.56	18.38	0.03	9.30
S-4	03-Aug-89	10-Aug-89	ND	ND	ND	ND	ND	28.08	17.13	----	10.95
S-5	03-Aug-89	10-Aug-89	ND	ND	ND	ND	ND	27.42	16.95	----	10.47
S-6	03-Aug-89	10-Aug-89	7.1	2.4	ND	0.07	ND	26.59	17.19	----	9.40
S-7	03-Aug-89	15-Aug-89	5.	0.66	0.38	0.23	0.71	27.33	16.29	----	11.04
S-8	03-Aug-89	10-Aug-89	1.6	0.032	0.12	0.052	0.25	25.97	15.75	----	10.22
S-9	03-Aug-89	10-Aug-89	ND	ND	ND	ND	ND	25.86	15.44	----	10.42

CURRENT REGIONAL WATER QUALITY CONTROL BOARD MAXIMUM CONTAMINANT LEVELS

Benzene 0.001 ppm Xylenes 1.750 ppm Ethylbenzene 0.68 ppm

CURRENT DHS ACTION LEVELS

Toluene 0.100 ppm

TPH = Total Petroleum Hydrocarbons Calculated as Gasoline
PPM = Parts per Million SF = Field Sample TB = Trip Blank
SD = Duplicate Sample ND = None Detected

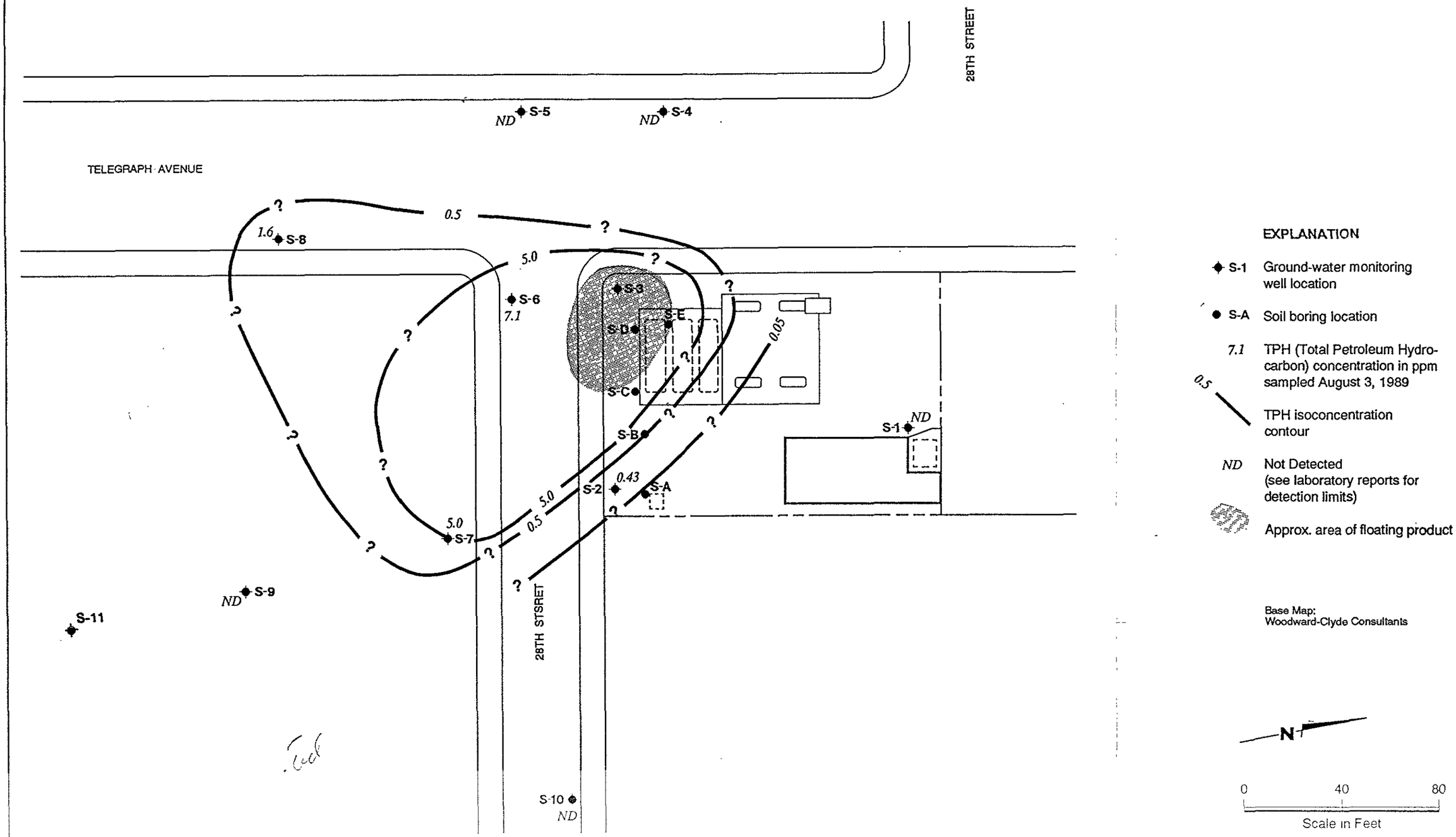
Note: 1. For chemical parameter detection limits, refer to I.T. laboratory reports in Appendix B
2. Water level elevations referenced to mean sea level (MSL)
3. Well S-3 had free product and was not sampled

Project No. 7610-3

TABLE 2

GROUND-WATER CHEMICAL DATA

WELL NO	SAMPLE DATE	ANALYSIS DATE	TPH (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)	WELL ELEV (FT)	STATIC WATER ELEV (FT)	PRODUCT THICKNESS (FT)	DEPTH TO WATER (FT)
SD-1	03-Aug-89	10-Aug-89	ND	ND	ND	ND	ND	----	----	----	----
S-10	03-Aug-89	10-Aug-89	ND	ND	ND	ND	ND	26.95	18.70	----	8.25
SF-4	03-Aug-89	10-Aug-89	ND	ND	ND	ND	ND	----	----	----	----
TB	03-Aug-89	10-Aug-89	ND	ND	ND	ND	ND	----	----	----	----



GSI GeoStrategies Inc.

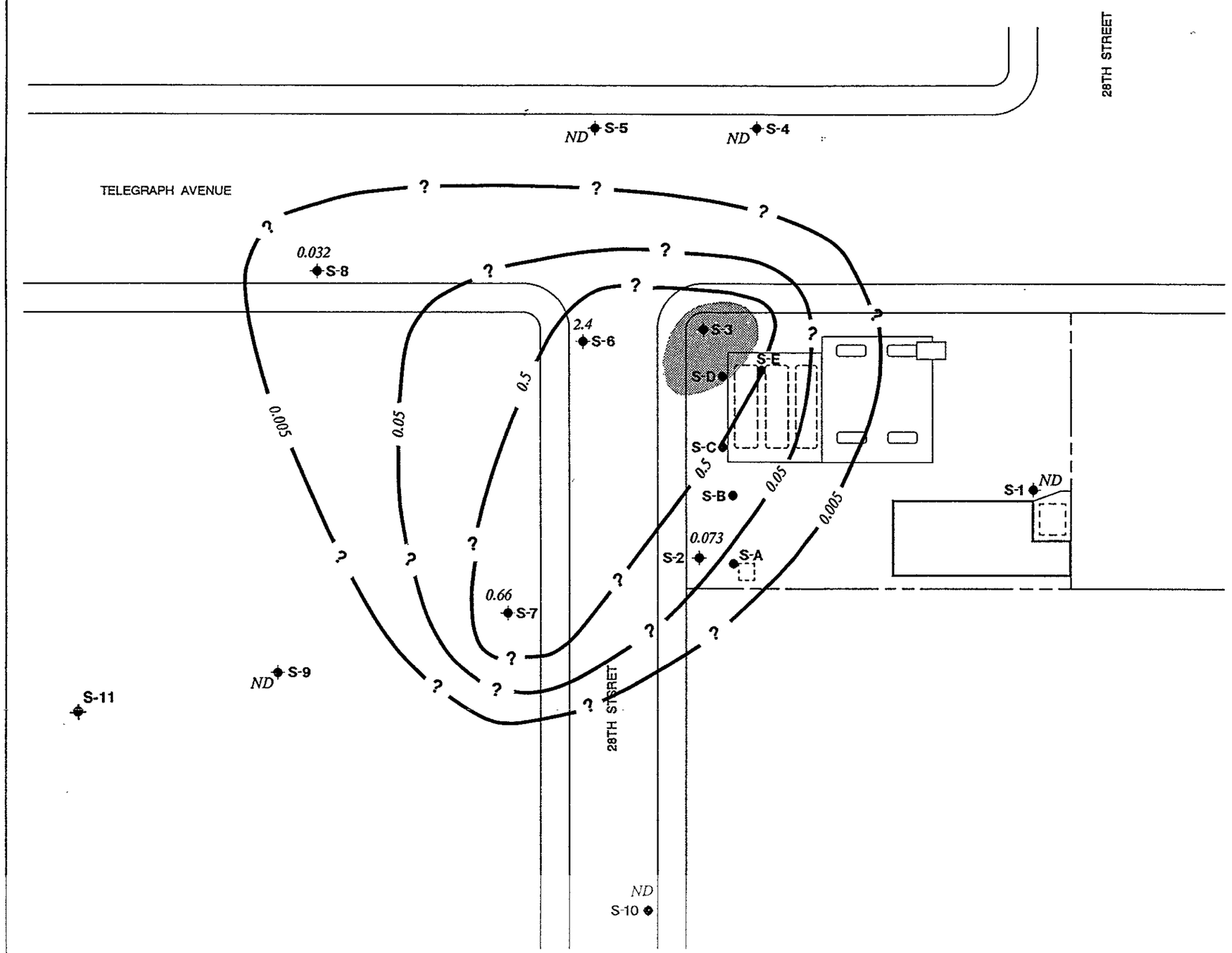
TPH Isoconcentration Map
Former Shell Service Station
2800 Telegraph Avenue
Oakland, California

PLATE 4

JOB NUMBER 7610

REVIEWED BY RO CEG

DATE 10/89 REVISED DATE REVISED DATE



EXPLANATION

- S-1 — Ground-water monitoring well location
- S-A — Soil boring location
- *0.66* — Benzene concentration in ppm sampled August 3, 1989
- 0.05 — Benzene isoconcentration contour
- *ND* — Not Detected (see laboratory reports for detection limits)
- Approx. area of floating product

Base Map:
Woodward-Clyde Consultants

N

0 40 80

Scale in Feet

GeoStrategies Inc.

Benzene Isoconcentration Map
Former Shell Service Station
2800 Telegraph Avenue
Oakland, California

PLATE 5

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
7610	CWP CEG 1262	10/89		

gettler — ryan inc.

October 23, 1989

REVISED GROUNDWATER SAMPLING REPORT *

Referenced Site: Former Shell Service Station
2800 Telegraph Avenue
Oakland, California

Sampling Date: August 3, 1989

This report presents the results of the quarterly groundwater sampling and analytical program conducted by Gettler-Ryan Inc. on August 3, 1989 at the referenced location. The site, located on the northeast corner of Telegraph and 28th Avenue, is no longer an operating service station. The former station had underground storage tanks which contained petroleum products.

There are currently three groundwater monitoring wells on site and seven off site at the locations shown on the attached site map. Prior to sampling, the wells were inspected for total well depth, water levels, and presence of separate phase product using an electronic interface probe. A clean acrylic bailer was used to visually confirm the presence and thickness of separate phase product. Groundwater depths ranged from 8.25 to 11.04 feet below grade. Separate phase product was observed in monitoring well S-3.

The wells were then purged and sampled. Standard sampling procedure calls for a minimum of four case volumes to be purged from each well. Each well was purged while pH, temperature, and conductivity measurements were monitored for stability. In cases where a well dewatered or less than four case volumes were purged, groundwater samples were obtained after the physical parameters had stabilized. The purge water was contained in drums for proper disposal. Details of the final well purging results are presented on the attached Table of Monitoring Data.

Samples were collected, using Teflon bailers, in properly cleaned and laboratory prepared containers. All sampling equipment was thoroughly cleaned after each well was sampled and steam cleaned upon completion of work at the site. The samples were labeled, stored on blue ice, and transported to the laboratory for analysis. A field blank (SF-4), and trip blank, supplied by the laboratory, were included and analyzed to assess quality control. A duplicate sample (SD-1), was submitted without well designation, to assess laboratory performance. Analytical results for the blanks are included in the Certified Analytical Report (CAR's). Chain of custody records were established noting sample identification numbers, time, date, and custody signatures.

1992 national avenue • hayward, california 94545-1787 • (415) 783-7500

The samples were analyzed at International Technology Corporation - Santa Clara Valley Laboratory located at 2055 Junction Avenue, San Jose, California. The laboratory is assigned a California DHS-HMTL Certification number of 137. The results are presented as a Certified Analytical Report, a copy of which is attached to this report.

Tom Paulson
Sampling Manager

attachments

* This Groundwater Sampling Report was issued to amend the previous report issued September 7, 1989. In the September 7th Report, the original laboratory Certified Analytical Report had the results for wells S-8 and S-9 reversed.

TABLE OF MONITORING DATA
GROUNDWATER WELL SAMPLING REPORT

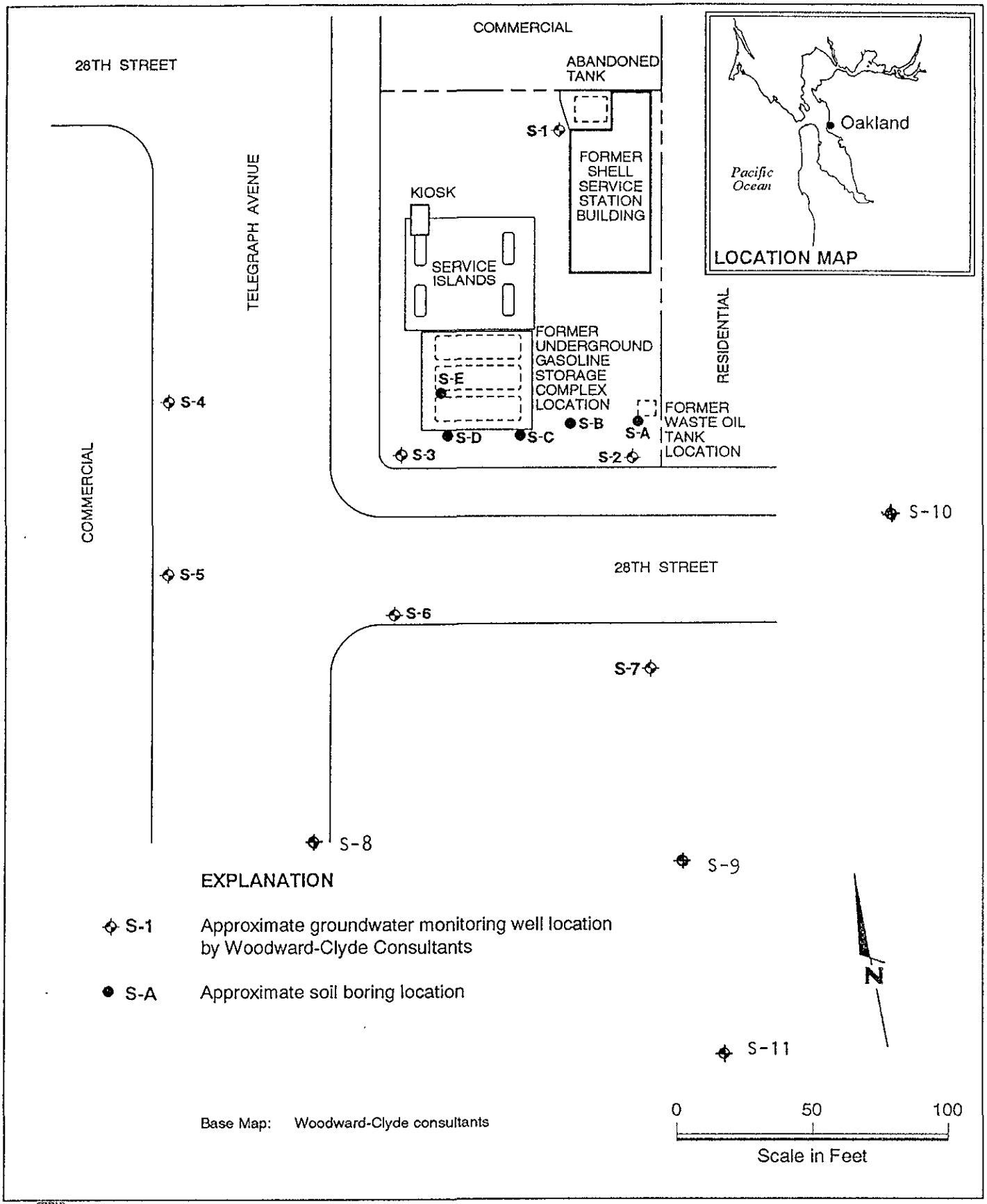
WELL I.D.	S-1 SD-1	S-2	S-3	S-4	S-5	S-6
Casing Diameter (inches)	3	3	3	3	3	3
Total Well Depth (feet)	28.00	25.50	----	29.10	30.58	22.10
Depth to Water (feet)	9.88	9.75	9.30	10.95	10.47	9.40
Free Product (feet)	none	none	0.03	none	none	none
Reason Not Sampled	----	----	free prod.	----	----	----
Calculated 4 Case Vol.(gal.)	27.5	24.0	----	27.6	30.5	19.2
Did Well Dewater?	no	no	----	yes	no	yes
Volume Evacuated (gal.)	37	37	----	21	39	15
Purging Device	Suction	Suction	----	Suction	Suction	Suction
Sampling Device	Bailer	Bailer	----	Bailer	Bailer	Bailer
Time	10:48	11:14	----	13:18	13:01	11:48
Temperature (F)*	66.6	66.0	----	70.2	69.8	71.2
pH*	6.38	6.55	----	6.36	6.56	6.55
Conductivity (umhos/cm)*	478	686	----	454	168	888

* Indicates Stabilized Value

TABLE OF MONITORING DATA
GROUNDWATER WELL SAMPLING REPORT

WELL I.D.	S-7	S-8	S-9	S-10
Casing Diameter (inches)	3	3	3	3
Total Well Depth (feet)	30.80	19.30	30.00	24.30
Depth to Water (feet)	11.04	10.22	10.42	8.25
Free Product (feet)	none	none	none	none
Reason Not Sampled	----	----	----	----
Calculated 4 Case Vol.(gal.)	30.0	13.7	29.8	24.4
Did Well Dewater?	no	no	no	yes
Volume Evacuated (gal.)	38	21	38	21
Purging Device	Suction	Suction	Suction	Suction
Sampling Device	Bailer	Bailer	Bailer	Bailer
Time	09:19	12:20	09:45	10:17
Temperature (F)*	69.5	73.3	70.0	69.3
pH*	6.60	6.76	6.55	6.82
Conductivity (umhos/cm)*	873	716	635	437

* Indicates Stabilized Value



GeoStrategies Inc.

Site Plan
Former Shell Service Station
2800 Telegraph Avenue
Oakland, California

PLATE 1

JOB NUMBER	REVIEWED BY RG/CEG	DATE	REVISED DATE	REVISED DATE
610		6/89		

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

Gettler-Ryan
1992 National Avenue
Hayward, CA 94545
ATTN: John Werfal

Date: October 13, 1989

Work Order Number: S9-08-060

P.O. Number: MOH 890501A

This is the Certificate of Analysis for the following samples:

Client Project ID:	GR #3610, Shell, 2800 Telegraph Ave./ 28th St., Oakland, CA, CORRECTED REPORT
Date Received by Lab:	8/4/89
Number of Samples:	12
Sample Type:	Water

The method of analysis for low boiling hydrocarbons is taken from EPA Methods 8015, 8020 and 5030. The sample is examined using the purge and trap technique. Final detection is by gas chromatography using a flame ionization detector as well as a photoionization detector. The result for total low boiling hydrocarbons is calculated as gasoline and includes benzene, toluene, ethyl benzene and xylenes.

This Corrected Report has been issued because the analytical results for wells S-8 and S-9 were reversed due to sample mislabeling by the laboratory in the original Certificate of Analysis dated August 23, 1989.

Reviewed and Approved

Fred Rouse
Group Leader

FR/an
2 Pages Following - Tables of Results

IT ANALYTICAL SERVICES
SAN JOSE, CA

Date: October 13, 1989
Client Project ID: GR #3610, Shell, 2800 Telegraph
Ave./28th St., Oakland, CORRECTED REPORT Work Order Number: S9-08-060

Lab Sample ID	Client Sample ID	Sample Date	Date Analysis Completed	Sample Condition on Receipt
S9-08-060-01	S-1	8/3/89	8/10/89	cool pH ≤2
S9-08-060-02	S-2	8/3/89	8/10/89	cool pH ≤2
S9-08-060-03	S-4	8/3/89	8/10/89	cool pH ≤2
S9-08-060-04	S-5	8/3/89	8/10/89	cool pH ≤2
S9-08-060-05	S-6	8/3/89	8/10/89	cool pH ≤2
S9-08-060-06	S-7	8/3/89	8/15/89	cool pH ≤2

Total Petroleum Hydrocarbons - Modified E.P.A. Methods 8015, 8020

ND = None Detected

Results - Milligrams per Liter

Lab Sample ID	Client Sample ID	Low Boiling Hydrocarbons (calculated as Gasoline)	Benzene	Toluene	Ethyl Benzene	Xylenes (total)
S9-08-060-01	S-1	ND	ND	ND	ND	ND
Detection Limit		0.05	0.0005	0.001	0.001	0.003
S9-08-060-02	S-2	0.43	0.073	0.001	0.014	0.007
Detection Limit		0.05	0.0005	0.001	0.001	0.003
S9-08-060-03	S-4	ND	ND	ND	ND	ND
Detection Limit		0.05	0.0005	0.001	0.001	0.003
S9-08-060-04	S-5	ND	ND	ND	ND	ND
Detection Limit		0.05	0.0005	0.001	0.001	0.003
S9-08-060-05	S-6	7.1	2.4	ND	0.07	ND
Detection Limit		2.5	0.02	0.05	0.05	0.2
S9-08-060-06	S-7	5.0	0.66	0.38	0.23	0.71
Detection Limit		0.5	0.005	0.01	0.01	0.03

Date: October 13, 1989
Client Project ID: GR #3610, Shell, 2800 Telegraph Ave./28th St., Oakland, CORRECTED REPORT

IT ANALYTICAL SERVICES
SAN JOSE, CA

Work Order Number: S9-08-060

Lab Sample ID	Client Sample ID	Sample Date	Date Analysis Completed	Sample Condition on Receipt
S9-08-060-07	S-8	8/3/89	8/10/89	cool pH ≤2
S9-08-060-08	S-9	8/3/89	8/10/89	cool pH ≤2
S9-08-060-09	S-10	8/3/89	8/15/89	cool pH ≤2
S9-08-060-10	SD-1	8/3/89	8/15/89	cool pH ≤2
S9-08-060-11	SF-4	8/3/89	8/10/89	cool pH ≤2
S9-08-060-12	Trip Blank		8/10/89	cool pH ≤2

Total Petroleum Hydrocarbons - Modified E.P.A. Methods 8015, 8020

ND = None Detected

Results - Milligrams per Liter

Lab Sample ID	Client Sample ID	Low Boiling Hydrocarbons (calculated as Gasoline)	Benzene	Toluene	Ethyl Benzene	Xylenes (total)
S9-08-060-07	S-8	1.6	0.032	0.12	0.052	0.25
Detection Limit		0.1	0.001	0.002	0.002	0.006
S9-08-060-08	S-9	ND	ND	ND	ND	ND
Detection Limit		0.05	0.0005	0.001	0.001	0.003
S9-08-060-09	S-10	ND	ND	ND	ND	ND
Detection Limit		0.05	0.0005	0.001	0.001	0.003
S9-08-060-10	SD-1	ND	ND	ND	ND	ND
Detection Limit		0.05	0.0005	0.001	0.001	0.003
S9-08-060-11	SF-4	ND	ND	ND	ND	ND
Detection Limit		0.05	0.0005	0.001	0.001	0.003
S9-08-060-12	Trip Blank	ND	ND	ND	ND	ND
Detection Limit		0.05	0.0005	0.001	0.001	0.003

Corrected

Geitler - Ryan Inc. 39-08-0060 ENVIRONMENTAL DIVISION

Chain of Custody

COMPANY Shell Oil Company JOB NO. 3610

JOB LOCATION 2800 Telegraph Ave / 28th Street

CITY Oakland, CA PHONE NO.

AUTHORIZED DATE 8-3-89 P.O. NO.

SAMPLE ID	NO. OF CONTAINERS	SAMPLE MATRIX	DATE/TIME SAMPLED	ANALYSIS REQUIRED	SAMPLE CONDITION LAB ID
S-1	3	liquid	8-3-89/10:48	THC(gas), BTXE	
S-2	3		11:01		
S-4	3		~~11:43~~ 13:[illegible]		
S-5	3		~~12:36~~ 13:01		
S-6	3		11:48		
S-7	3		9:19		
S-8	3		12:20		
S-9	3		9:45		
S-10	3		10:17		
SD-1	3				
SF-4	3		13:18		
Trip Blank	2		7-31-89		

RELINQUISHED BY: [signature] 8-4-89 10:30am

RECEIVED BY: [signature] 8-4-89 10:31am

RELINQUISHED BY: [signature] 8-4-89 16:00

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY LAB: A. Clifford 8/4/89 16:05

DESIGNATED LABORATORY: IT/SCV DHS #: 137

REMARKS: Normal TAT Results due 8-18-89

DATE COMPLETED 8-3-89 FOREMAN [signature] JPR GS

ORIGINAL