

Engineering & sciences applied to the earth & its environment

April 7, 1993

Mr. Douglas Salter P.O. Box 1970 Silverthorne, CO 80498

Subject: Groundwater Quality Monitoring Report

901 Jefferson Street Site, Oakland

Dear Mr. Salter:

This letter transmits the results of groundwater monitoring at the 901 Jefferson Street site in downtown Oakland. In accordance with your letter request of December 28, 1992 WCC has completed measurement, sampling, and analysis of groundwater from the three monitoring wells, MW-5, MW-18, and MW-19, on the site.

Groundwater measurements and sampling was performed on March 2, 1993 by Stephen Alton, an engineer with WCC. The depth to groundwater was measured at 22.93 feet from the top of the well casing (TOC) in MW-5, at 23.41 feet from TOC in MW-18, and at 23.50 feet from TOC in MW-19 (well locations shown in Attachment 1). Correlating these depths with the respective TOC elevations of the three wells allows evaluation of the groundwater gradient and flow direction. The groundwater gradient was calculated to be 0.0059 ft/ft and the flow direction was calculated to be approximately S38°E. Groundwater elevations and calculated gradients and flow directions for current and previous water level measurements are provided in Attachment 2.

Groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline and benzene, toluene, ethyl benzene, and xylenes (BTEX). The results of these analyses are summarized in Attachment 3, along with data from previous groundwater analyses. The analytical laboratory report of the data from the March 2, 1993 sampling are provided in Attachment 4, along with the chain-of-custody form and the sampling logs.

The current laboratory results show that the contaminants detected in the groundwater are at about the same concentrations in wells MW-5 and MW-18 as they were in February 1991. Contaminant concentrations measured in MW-19 are significantly higher than previous concentrations measured in the 1991 analysis. These higher concentrations are most likely due to free phase product, observed in MW-19 during sampling. The presence of free phase product may be due to a significant rise in the groundwater elevation.

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### **Woodward-Clyde Consultants**

Mr. Douglas Salter April 7, 1993 Page 2

If you have any questions, please call me at (510) 874-3192. We appreciate this opportunity to be of service.

Sincerely,

WOODWARD-CLYDE CONSULTANTS

William B. Copeland

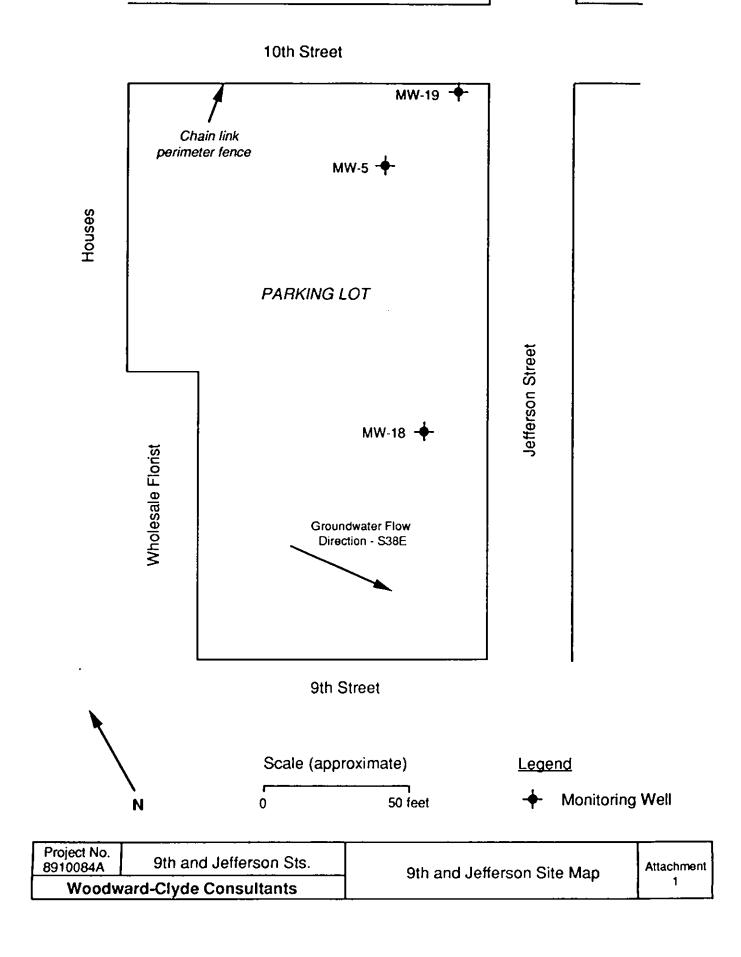
Assistant Project Geologist

- Attachments: 1. 9th and Jefferson Site Map
  - 2. Groundwater Elevations and Gradients
  - 3. TPH and BTEX Concentrations in Groundwater
  - 4. March 1993 Laboratory Analytical Report, Chain-of-Custody and Well Sampling Logs

cc: Mr. Norman Tuttle, Esq.

Crosby, Heafy, Roach and May





ATTACHMENT 2: GROUNDWATER ELEVATIONS AND GRADIENTS

|         | D     | epth to Water ( | ft)   | Relative G | roundwater Elev | vations* (ft) | Groundwater                    |
|---------|-------|-----------------|-------|------------|-----------------|---------------|--------------------------------|
| Date    | MW-5  | MW-18           | MW-19 | MW-5       | MW-18           | MW-19         | Gradient (ft/ft) and Direction |
| 8/14/89 | 24.95 | 25.26           | 25.23 | -25.42     | -25.53          | -25.23        | 0.0056, N84°W                  |
| 2/15/91 | 25.95 | 26.30           | 26.40 | -26.42     | -26.57          | -26.40        | 0.0018, S9°W                   |
| 3/27/91 | 25.29 | 25.66           | 25.55 | -25.76     | -25.93          | -25.55        | 0.0062, N90°W                  |
| 3/2/93  | 22.93 | 23.41           | 23.50 | -23.40     | -23.68          | -23.50        | 0.0059, \$38°E                 |

<sup>\*</sup> Groundwater elevations are calculated using the TOC of well MW-19 as a datum at 0.0 ft; well MW-5 TOC was measured at an elevation of -0.47 ft and well MW-18 TOC was measured at an elevation of -0.27 ft from this datum by WCC.

ATTACHMENT 3

TPH AND BTEX CONCENTRATIONS IN GROUNDWATER

| -                | Mo                 | onitoring Well |   |
|------------------|--------------------|----------------|---|
| Date             | MW-5 byb           | MW-18 ppb      | MW-19 pub   |
| TPH (mg/L) - gas | ( )                | 11             | <del>"                                     </del> |
| 04/24/89         | 24                 |                |   |
| 08/14/89         | 19                 | 7.6            | 26  |
| 02/15/91         | 13                 | 2.7            | 13  |
| 03/02/93 🗸       | 32 32,000/         | 3.2 3,200      | 46 46,000   |
| BENZENE (µg/L)   |                    |                |   |
| 04/24/89         | 7,500              |                |   |
| 08/14/89         | 5,400              | 160            | 4,300   |
| 02/15/91         | 7,500 <sup>1</sup> | 56             | 1,800   |
| 03/02/93         | 4,400 🗸            | 11 🗸           | 10,000  |
| TOLUENE (µg/L)   |                    |                |   |
| 04/24/89         | 220                |                | <b>-</b> -  |
| 08/14/89         | 210                | 21             | 690   |
| 02/15/91         | 250                | 22             | 640   |
| 03/02/93         | 170                | 26             | 1,100   |
| ETHYL BENZENE (μ | g/L)               |                |   |
| 04/24/89         | 990                |                |   |
| 08/14/89         | 770                | 210            | 980   |
| 02/15/91         | 1,000              | 94             | 510   |
| 03/02/93         | 620                | 17             | 1,700   |
| XYLENES (µg/L)   |                    |                |   |
| 04/24/89         | 730                |                |   |
| 08/14/89         | 44()               | 14             | 2,600   |
| 02/15/91         | 340                | 20             | 2,600   |
| 03/02/93         | 260                | 19             | 4,500   |

<sup>-- =</sup> well not installed at time of sampling

#### **ATTACHMENT 4**

## MARCH 2, 1993 LABORATORY ANALYTICAL RESULTS, CHAIN-OF-CUSTODY AND WELL SAMPLING LOGS

#### **ANAMETRIX** INC

Environmental & Analytical Chemistry

Part of Incheape Environmental



MR. WILLIAM COPELAND WOODWARD-CLYDE CONSULTANTS 500 12TH STREET, SUITE 100 OAKLAND, CA 94607-4014

Workorder # : 9303031 Date Received: 03/02/93 Project ID : 8910084A

Purchase Order: N/A

The following samples were received at Anametrix, Inc. for analysis:

| ANAMETRIX ID | CLIENT SAMPLE ID |
|--------------|------------------|
| 9303031- 1   | MW-18            |
| 9303031- 2   | MW-19            |
| 9303031- 3   | MW-5             |

This report consists of 4 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Sarah Schoen, PhiD

Laboratory Director

#### REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

MR. WILLIAM COPELAND WOODWARD-CLYDE CONSULTANTS 500 12TH STREET, SUITE 100 OAKLAND, CA 94607-4014

Workorder # : 9303031
Date Received : 03/02/93
Project ID : 8910084A
Purchase Order: N/A
Department : GC

Sub-Department: TPH

#### SAMPLE INFORMATION:

| ANAMETRIX<br>SAMPLE ID | CLIENT<br>SAMPLE ID | MATRIX | DATE<br>SAMPLED | METHOD    |
|------------------------|---------------------|--------|-----------------|-----------|
| 9303031- 1             | MW-18               | WATER  | 03/02/93        | TPHg/BTEX |
| 9303031- 2             | MW-19               | WATER  | 03/02/93        | TPHg/BTEX |
| 9303031- 3             | MW-5                | WATER  | 03/02/93        | TPHg/BTEX |

#### REPORT SUMMARY ANAMETRIX, INC. (408) 432-8192

MR. WILLIAM COPELAND WOODWARD-CLYDE CONSULTANTS 500 12TH STREET, SUITE 100 OAKLAND, CA 94607-4014 Workorder # : 9303031
Date Received : 03/02/93
Project ID : 8910084A
Purchase Order: N/A

Department : GC Sub-Department: TPH

#### QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Luca Sher 3/11/43
Chemist Date

# ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9303031
Matrix : WATER

Project Number: 8910084A
Date Released: 03/10/93

Date Sampled : 03/02/93 /

|  | Reporting<br>Limit | Sample<br>I.D.#<br>MW-18                                | Sample<br>I.D.#<br>MW-19   | Sample<br>I.D.#<br>MW-5   | Sample<br>I.D.#<br>BM0501E3 |  |
|--|--------------------|---|--|---|-----------------------------|--|
| COMPOUNDS  | (ug/L)             | -01   | -02  | -03   | BLANK                       |  |
| Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline  % Surrogate Rec Instrument I. Date Analyzed RLMF | D                  | 11<br>26<br>17<br>19<br>3200<br>94%<br>HP21<br>03/05/93 | 10000<br>1100<br>1700<br>4500<br>46000<br>89%<br>HP21<br>03/05/93<br>250 | 4400<br>170<br>620<br>260<br>32000<br>105%<br>HP21<br>03/05/93<br>250 | 98%<br>HP21                 |  |

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 61-139%

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Analyst Shen 3/11/93
Date

Charles Balmon 3/11/53
Supervisor Date

## TOTAL VOLATILE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT EPA METHOD 5030 WITH GC/PID ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
Matrix : WATER
Date Sampled : N/A
Date Analyzed : 03/05/93

Anametrix I.D.: LCSW0305
Analyst : IS

Analyst : IS Supervisor : 0

Date Released: 03/11/93

Instrument ID: HP21

| COMPOUND  | SPIKE<br>AMT.<br>(ug/L)      | LCS<br>(ug/L)                | REC<br>LCS                   | %REC<br>LIMITS                       |
|---|------------------------------|------------------------------|------------------------------|--------------------------------------|
| Benzene<br>Toluene<br>Ethylbenzene<br>TOTAL Xylenes | 10.0<br>10.0<br>10.0<br>10.0 | 10.2<br>10.7<br>10.7<br>11.5 | 102%<br>107%<br>107%<br>115% | 52-133<br>57-136<br>56-139<br>61-139 |
| P-BFB   |                              |                              | 85%<br><b>-</b>              | 61-139                               |

<sup>\*</sup> Limits established by Anametrix, Inc.

|    | •                  | 500 121        | dward-Clyde C<br>h Street, Suite 100, Oakla<br>(510) 893-3600 | ind, CA 94607<br>)                  |  |            |            |                  |                      |       |     |          | 1 C | of C                                    | Zu        | stc                  | ody Record                                     |
|----|--------------------|----------------|---|-------------------------------------|--|------------|------------|------------------|----------------------|-------|-----|----------|-----|---|-----------|----------------------|--|
|    | SAMPI              | LERS:          | 8910084A  | (A)ir                               | -  |            |            | ₹<br>•           | ANA                  |       | SES |          |     |   |           | ontainers            | REMARKS<br>(Sample                             |
|    | DATE               | TIME           | SAMPLE NUMBE  | Sampta Matrix (S)o4, (W)stor, (A)ir | EPA Method                                       | EPA Method | EPA Mothod | EPA Mothod Q D/S | TP#-925              | B. B. |     |          |     | *************************************** |           | Number of Containers | preservation,<br>handling<br>procedures, etc.) |
| 7  | 3/2                | 2:35           | mw-18   | W                                   |  | <u> </u>   |            | V                | ~                    | -     |     |          |     |   |           | 3                    |  |
| のの | и                  | 1139           | mw-19   | •                                   | <del>                                     </del> |            |            | /                | V                    | V     |     |          |     |   |           | 3_                   |  |
| Ď  | 4                  | 1203           | Mω-18<br>Mω-19<br>Mω-5  | •                                   | _  |            |            | /                | •                    | ~     |     |          |     |   |           | 3                    |  |
|    |                    |                |   |                                     |  |            |            |                  |                      |       |     |          |     |   |           |                      |  |
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|    |                    |                |   |                                     |  | _          |            |                  |                      |       |     |          |     |   |           |                      | Results to<br>Bill Copeland<br>510/874-3192    |
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|    |                    | <u> </u>       |   |                                     |  |            |            |                  |                      |       |     |          |     |   |           |                      | 510/874  |
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|    |                    |                |   |                                     | ··   |            |            |                  |                      |       |     |          |     | TOTA<br>BER C<br>AINER                  | )F<br>IS  | 9                    |  |
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| Sample No.                            | i .                      |                        |              |               | LOG                                   |                    |               |  | MW-5   |
|---------------------------------------|--------------------------|------------------------|--------------|---------------|---------------------------------------|--------------------|---------------|--|--|
|                                       | Project Name             | 89                     | 1008         | 4 A           |                                       | 0                  | ate:          | 3/   | 2/93   |
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|                                       | Comments;                |                        |              |               |                                       | •                  |               | <u>-</u>   |  |
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|                                       | 173.5                    |                        |              | 21.5          | 650                                   |                    | BRN           |  | •  |
|                                       | 12:40                    |                        | 6.8          | 20.5          | 680                                   |                    | 1.            |  | 11   |
|                                       |                          | 10.3                   | +            | 21.0          | 690                                   | ļ                  | <u> </u>      |  | 4  |
|                                       | 1203                     | 14.0                   | 168          | 20.5          | 690                                   | ļ                  | <del> </del>  | ļ  | ···  |
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|                                       | Callocted                | by:                    | 5/4          | 2             |                                       | Wood<br>5∞ 12      | dward         | -Clyd<br>5ut = 100, (<br>(415) 893               | e Consultants<br>Dahland, CA 94607-4014<br>-3600 |
|                                       | <b>-</b>                 |                        |              |               |                                       |                    |               |  |  |

| Sample No.                            | WATER SAMPLE LOG Sample No. 18  |
|---------------------------------------|---|
|                                       | Project Name: 974   JEFFFESSW Date: 3/2/53  |
|                                       | Sample Location: 9Th & JEFFELDON NIW-18 GAST SIDE AF WE   |
|                                       | Well Description: 2" SCH TO PVL  Weather Conditions: SUNNY, COOL PARTY CLOSEY   |
|                                       | Observations / Comments:  |
|                                       | Quality Assurance   Sampling Method: (E) LON はAにして   Method to Measure Water Level:   このシーンテス   |
|                                       | Pump Lines: New / Cleaned Baller Lines: New / Cleaned Mothod of cleaning Pump / Baller: ALCOND X RISE   |
|                                       | pH Meter No.: 2(7256 Calibrated \$\frac{3}{2} \frac{7.3}{13.0}\$  Specific Conductance Meter No.: 13755 Calibrated \$\frac{7}{2} \frac{2}{2} \frac{13.755}{2} \fra |
|                                       | Specific Conductance Meter No.: 15 / Calibrated 7 /    |
|                                       |   |
|                                       | Sampling  Water Level (Delow MP) at Stant: 23.41 End: 23.73  Measurements  Water Level (Delow MP) at Stant: 23.41 End: 23.73  |
|                                       | Time Discharge pH Temp. Conductance (CC) Turbidity Color Comments   |
|                                       | 1:50 1 6.9 23 420 Ben SILTY   |
|                                       | 2:07 50 6.9 20 482 1  |
|                                       | 2:13 10.0 6.9 20.3 470  |
|                                       | 2:24 /3 6.4 20 470  |
|                                       | 2:30 15 6.9 20:3 550 -  |
|                                       | 2135 17 69 20 550 .   |
|                                       | <b>3</b>  |
|                                       | Total Discharge: 17 Casing Volumes Removed:   |
| · · · · · · · · · · · · · · · · · · · | Method of disposal of discharged water: 55 9AL D2Um   |
|                                       | Number and size of sample containers filled: 3 - 40 L VOAs  |
|                                       | Collucted by: 5 - A-2   Woodward-Clyde Consultants 500 12th Street, Sufe 100, Casiand, CA 94607-4014  |

| •                  | AIEH   | SA                                | ואוארו                                       | ELOG  | \ `   | samp                         | ie No        | ·M  | w                | -19            |
|--|--|-----------------------------------|--|---|---|------------------------------|--------------|---|------------------|----------------|
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| Sample Loca<br>Well Descrip                              | ulon:  | 1ω.                               | -19  | N.E C   | OZNE  | L OF                         | ٠4،          | بنبيع   | <del>9_ (_</del> | <u>ه ۲</u>     |
| Weather Cor  | nditions:  | 502                               | y y  | cost;   | PAL   | Ty (                         | دم           | <u>0 y                                   </u> |                  |                |
| Observations   | / Comment  | 18:                               | <u>.                                    </u> |   |   |                              |              |   |                  | <del>_</del> - |
| Quality  | / Assura   | ance                              |  | Method:   |   |                              |              |   |                  |                |
|  |  |                                   |  | o Measure Wate                                  |   |                              |              |   | _                |                |
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| pH Mater No  | ozning Pomp  | p / Ballet<br>/ 구 Z ご             | : <u>/ 1942</u><br>5 6                       |   |   | C:                           | ilibrateri   | <del>3</del> /z                               | 7.0              | 0/10           |
| Specific Con   | ductance Me  | iter No.:                         | 137  | 50  |   | ب  —ــ                       | alibrater    | . <u> </u>                                    | 25               | ۵۷۰۰۰          |
|  |  |                                   |  | 1/4"  |   |                              |              |   | · · ·            |                |
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| Sampl  |  | _                                 |  | wal (balow MP) :                                |   |                              |              |   |                  |                |
|  | ing<br>rement  | S                                 |  | eval (balow MP) :<br>ng Point (MP):             |   |                              |              |   |                  |                |
|  |  | S<br>pH                           |  |   |   | ACT                          |              | CAS   |                  | i              |
| Measu  | Discharge  | <u> </u>                          | Measurii<br>Temp.                            | Specific Conductance                            | Note4   | ACT                          |              | CAS   | Comm             | i              |
| Measu  | Discharge<br>(gallons)   | рH<br>8 · 1                       | Temp.  | Specific<br>Conductance<br>(jumhos / cm)        | Note4   | Color                        |              | CAS   | Comm             | nents          |
| Measu  | Discharge (gaffons)  2.5  5.0  9.0                               | рн<br>8.1<br>6.9<br>6.7           | Temp. (C)                                    | Specific Conductance (umhos / cm)               | Note4   | COIX 9ZN                     |              | Fee   | Comm             | nents          |
| Measu<br>10:53<br>, 1:0%<br>11:19                        | Discharge (gaffons)  2.5 5.0 9.0                                 | рн<br>8.1<br>6.9<br>6.7           | Temp. (C)                                    | Specific Conductance (umhos / cm)  420 439      | Note4   | Color<br>92N                 |              | Fee   | Comm             | nents P2a      |
| Measu<br>10:53<br>, (:0%                                 | Discharge (gaßons)  2.5  9.0                                     | рн<br>8.1<br>6.9<br>6.7           | Temp. (C)   1                                | Specific Conductance (umhos/cm) 420 439         | Note4   | Color 92N                    | 70 ox        | Fee   | Comm             | P2a            |
| Measu<br>/0:53<br>, ::0%<br>!!:19                        | Discharge (gaffons)  2.5 5.0 9.0                                 | рн<br>8.1<br>6.9<br>6.7           | Measuring (C) 19 22 20.5 20                  | Specific Conductance (umhos / cm)  420 439 468  | Note4   | Cobx 92N                     | 70 ox        | Fer<br>No                                     | Comm             | P.Za.          |
| Measu<br>10:53<br>, 1:0%<br>11:19                        | Discharge (gaffons)  2.5 5.0 9.0                                 | рн<br>8.1<br>6.9<br>6.7           | Measuring (C) 19 22 20.5 20                  | Specific Conductance (umhos / cm)  420 439 468  | Note4   | Cobx 92N                     | 70 ox        | Fer<br>No                                     | Comm             | P.Za.          |
| Measu<br>10:53<br>, 1:0%<br>11:30<br>11:30               | Discharge (gaRons)  2.5 5.0 9.0 11.5 15.0                        | рн<br>8.1<br>6.9<br>6.7           | Measuring (C) 19 22 20.5 20                  | Specific Conductance (umhos/cm)  420 439 468    | Note4   | Color 92N                    | Odor         | Fer<br>No                                     | Comm             | P.Za.          |
| Measu  Time  /0:53 , ::0% (1: 164 11:30 //:39            | Discharge (gaRons)  2.5 5.0 9.0 11.5 15.0                        | 8.1<br>6.9<br>6.7<br>6.8          | Measuring (C) 19 22 20.5 20 20               | Specific Conductance (umhos/cm)  420 439 468    | Turbidity   | Color 92N                    | Odor         | Fer<br>No                                     | Comm             | P.Za.          |
| Measu  Time  /0:53 , ;:0% (1:19 11:30 //:39  Total Disch | Discharge (gaRons)  2.5 0  9.0  11.5  /5.0                       | pH  8.1 6.9 6.8 6.8 6.8 discharge | Measurh  Temp. (C)  19  22  20.5  20  20     | Specific Conductance (umhos/cm) 420 439 465 460 | Turbidity   | Color 92/V                   | Odor  Oved:  | Fer<br>No                                     | Comm             | P.Za.          |
| Measu  Time  /0:53 , ;:0% (1:19 11:30 //:39  Total Disch | Discharge (gafons)  2.5 0  9.0  11.5  /5.0  disposal of comments | pH  8.1 6.9 6.8 6.8 6.8 discharge | Measurh  Temp. (C)  19  22  20.5  20  20     | Specific Conductance (umhos/cm) 420 439 465 460 | Turbidity  Turbidity  Lasing Volume  Lasing Volume | Cobx  92N  1  1  Ness Remove | Odor Oved:   | Fee   | Comm             | P2a            |
| Measu  Time  /0:53  / (:0%  //:30  //:39  Total Disch    | Discharge (gaRons)  2.5  5.0  9.0  11.5  15.0  arge: /a          | pH  8.1 6.9 6.8 6.8 6.8 discharge | Measurh  Temp. (C)  19  22  20.5  20  20     | Specific Conductance (umhos/cm) 420 439 465 460 | Turbidity  Turbidity  Easing Value  (O me, C  | Cobx  92N  1  1  Ness Remove | Odor Oved: _ | Fes No  | Comm             | PRO            |