

Bendix Engine Controls Division
717 North Bendix Drive
South Bend, IN 46620



IND 005461165

2 Maps Removed

November 7, 1988

Mr. Glenn Pratt
Office of Environmental
Management
105 South Meridian Street
P. O. Box 6015
Indianapolis, Indiana 46206-6015

Subject: Hydro-Geological Monitoring Applicable to the South Bend,
Indiana Divisions of Allied-Signal Inc.

Dear Mr. Pratt:

Enclosed is a copy of the Groundwater Monitoring Quarterly Report for 3rd Quarter 1988, submitted by T. A. Gleason Associates. Allied-Signal has also submitted copies of the report to the City of South Bend, the United States Environmental Protection Agency and the St. Joseph County Health Department.

If we can be of assistance with respect to the report, please advise the undersigned.

Sincerely,

A handwritten signature in cursive script, appearing to read 'T. L. Moore'.

T. L. Moore
President

TLM/ed

Enclosure

NOV 10 12 33 PM '88
DEPARTMENT
OF
ENVIRONMENTAL
MANAGEMENT

GROUNDWATER MONITORING REPORT
3RD QUARTER 1988
ALLIED CORPORATION
BENDIX DIVISION
SOUTH BEND, INDIANA

PROJECT # ALCMPX SBIN 013

3 November 1988

COPY # 11

Nov 10 12 33 PM '88

DEPARTMENT
OF
ENVIRONMENTAL
MANAGEMENT



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1.0 INTRODUCTION AND BACKGROUND

This report presents the results of the most recent groundwater sampling and groundwater elevation measurement performed at the Allied Corporation, Bendix Complex, South Bend, Indiana (see Figure 1). These results are a continuation of the groundwater monitoring program initiated by Allied in 1981.

2.0 GROUNDWATER MONITORING PROGRAM

Included in the monitoring program are the 26 monitor wells and 5 recovery wells listed in Table 1. The locations of the 31 wells are shown in Figure 2. Recovery well #RWB-21 was inoperative and could not be sampled during this episode.

3.0 SAMPLING METHODOLOGY

3.1 PURGING

All monitor wells were purged a total of three to five well volumes before samples were collected. The wells were purged using a centrifugal pump connected to the water outlet side of the dedicated bladder pumps. The bladder pump was used to purge the low yielding wells. The recovery well taps were allowed to run approximately five minutes before samples were collected.



3.2 SAMPLE COLLECTION

All monitor wells except S-16 were sampled using a dedicated bladder pump. Samples from these wells were collected from the tap on the bladder pump outlet pipe. Well S-16 was sampled with a dedicated PVC bailer which was carefully lowered into and withdrawn from the well to avoid agitating the samples. Samples from the recovery wells were also collected directly from a tap.

3.3 SAMPLE HANDLING AND FIELD MEASUREMENTS

3.3.1 Water Quality

Samples were measured in the field for pH, specific conductivity, and temperature immediately upon collection; the data were recorded on the sample data sheets. All samples analyzed for metals were filtered in the field through a 0.45 micron filter before being placed in the pre-preserved, EPA-approved sample containers. All samples were placed in insulated coolers with ice packs and shipped to Aqua Tech Laboratories, Melmore, Ohio, under the appropriate chain-of-custody. Samples were analyzed for the following parameters:

- o VOC (method 624)
- o phenols (method 420.2)
- o lead* (method 239.2)
- o cyanide (method 335.3)
- o chromium* (method 218.2)
- o zinc* (method 289.2)

* Samples collected for this parameter were filtered in the field through a 0.45 micron filter.



3.3.2 Water Level Measurements

Water elevations were measured from 51 groundwater wells in and around the Bendix Complex (see Figure 2). Elevations were measured to the nearest 0.01 ft using an electronic water level indicator manufactured by Solinst Inc., Ontario, Canada. The new monitor wells and most of the existing monitor wells were surveyed by Lang, Feeney & Assoc., Inc. during September 1987 to verify the reference elevations.

Water level measurements and the calculated water elevations are presented in Table 2.

4.0 QA/QC

As part of our quality assurance procedures, duplicate samples were taken at monitor wells S4-A and S-20. Two field blanks were prepared and submitted for analysis along with the other samples as a QA/QC check.

5.0 ANALYTICAL RESULTS

The analytical results of the September 1988 sampling are presented in Tables 3 to Table 6. Tables 3 and 4 present the inorganic results of monitor wells and recovery wells respectively. Tables 5 and 6 present the organic analysis of monitor wells and recovery wells respectively. The laboratory results, QA/QC data, and sample data sheets are maintained in our files and are available upon request.



GROUNDWATER MONITORING REPORT
1ST QUARTER 1988
ALLIED CORPORATION
BENDIX DIVISION
SOUTH BEND, INDIANA

ALCMPX SBIN 011

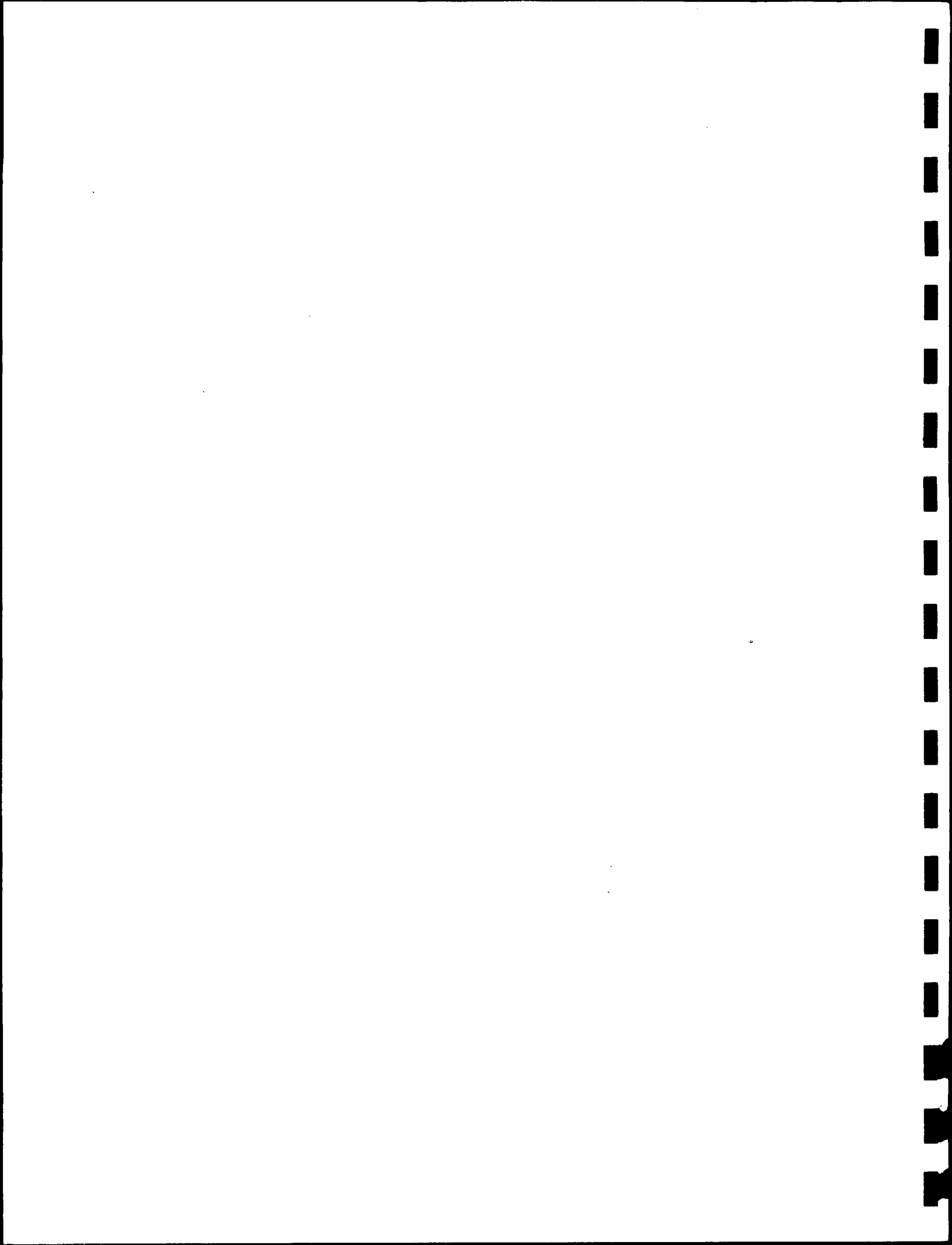
APRIL 8, 1988

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1.0 INTRODUCTION AND BACKGROUND

Presented herein are the results of the most recent groundwater sampling and groundwater elevation measurements performed at the Allied Corporation, Bendix Complex, South Bend, Indiana (Figure 1). These results are a continuation of the groundwater monitoring program initiated by Allied in 1981.

2.0 WATER LEVEL MEASUREMENTS

Water elevations were measured from 51 groundwater wells in and around the Bendix Complex on February 3, 1988 (see Figure 2). The measurements were made with an electronic water level indicator manufactured by Solinst Inc., Ontario Canada. All measurements were taken to the nearest .01 foot to a point on the well casings which have been surveyed to obtain a reference elevation. The new monitor wells and most of the existing monitor wells were surveyed by Lang, Feeney & Assoc., Inc. during September 1987 to verify the reference elevations.

Water level measurements and the calculated water elevations are presented in Table 1.

3.0 WELL SAMPLING

Thirty (30) wells were sampled on February 8 through 10, 1988. Table 2 presents a summary of the wells sampled and the parameters for which they were analyzed. As shown in Table 2, twenty-five (25) monitor wells and five (5) recovery wells were sampled. Well S-24 was not sampled this episode but will be sampled during the next quarterly sampling.



3.1 PURGING

Prior to sampling, the water level and total well depth were measured and the well volume was calculated. Three (3) to five (5) well volumes were then removed from each monitor well using a centrifugal pump connected to the water outlet side of the dedicated bladder pumps. The bladder pump was used to purge the low yielding wells. The recovery well taps were allowed to run approximately five minutes prior to sample collection.

3.2 SAMPLING

Monitor well samples were obtained from each well using either a dedicated bladder pump or PVC bailer. The bailer was carefully lowered into and withdrawn from the well to avoid agitation of the samples. Well samples were collected directly from a tap on the outlet pipe from the wells in which a bladder pump had been installed, and on the recovery wells.

In addition, as part of our Quality Assurance Procedures, duplicate samples were taken at monitor wells D-4, 8D and RWB-22 and two (2) field blanks were prepared and submitted for analysis with the samples collected. Samples were measured in the field for pH, Specific Conductivity and Temperature.

3.3 SAMPLE HANDLING

Appropriate EPA-approved containers for the above mentioned parameters were obtained from Aqua Tech Environmental Consultants, Inc., Melmore, Ohio. In addition, the containers for metals, cyanide and phenols contained the required preservatives. All samples for metals analysis including the



field blanks were filtered through a .45 micron cellulose filter prior to being placed in the sample containers. All samples were placed in insulated coolers with ice packs immediately after collection and shipped directly to Aqua Tech with the completed chain of custody forms.

4.0 ANALYTICAL PROCEDURES AND RESULTS

Aqua Tech Laboratories performed analysis on all samples in accordance with USEPA analytical protocols.

The results of the analyses for metals (chromium, lead and zinc), cyanide and phenols are presented in Table 3 and 4. The results of the analyses for volatile organic compounds are summarized in Tables 5 and 6.

The laboratory results are maintained in our files and are available upon request.



| WLM1 | | 02/03/88 | | 01/12/88 | | 09/01/87 | | NOTES: |
|----------|-------------------------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|---|
| WELL NO. | (1) REFERENCE ELEVATION | WATER DEPTH | WATER ELEVATION | WATER DEPTH | WATER ELEVATION | WATER DEPTH | WATER ELEVATION | |
| S-1 | 728.09 | NM | | NM | | 25.61 | 702.48 | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. 1 = SURVEYED BY LANG, FEENEY & ASSOC., INC. 9/87. WATER ELEVATIONS PRIOR TO JULY 1987 ARE BASED ON FORMER REFERENCE ELEVATIONS. * = FORMER REFERENCE ELEVATIONS |
| S-2 | 721.82 | 20.60 | 701.22 | 20.62 | 701.20 | 20.90 | 700.92 | |
| S-3 | 716.65 | 19.92 | 696.73 | 19.95 | 696.70 | 20.16 | 696.49 | |
| S-5 | 712.83 | 14.19 | 698.64 | 14.18 | 698.65 | 14.30 | 698.53 | |
| S-6 | 713.08 | NM | | NM | | 16.24 | 696.84 | |
| S-7 | 716.16 | 17.70 | 698.46 | 17.72 | 698.44 | 17.92 | 698.24 | |
| S-8 | 714.65 | 18.39 | 696.26 | 18.39 | 696.26 | 18.56 | 696.09 | |
| S-9 | 714.17 | 17.28 | 696.89 | 17.28 | 696.89 | 17.51 | 696.66 | |
| S-10 | *715.40 | NM | | NM | | NM | | |
| S-11 | *715.64 | NM | | NM | | NM | | |
| S-12 | 721.45 | 20.12 | 701.33 | 20.15 | 701.30 | 20.43 | 701.02 | |
| S-13 | *721.10 | NM | | NM | | NM | | |
| S-14 | 711.86 | 15.40 | 696.46 | 15.42 | 696.44 | 15.60 | 696.26 | |
| S-15 | 714.37 | 18.28 | 696.09 | 18.27 | 696.10 | 18.47 | 695.90 | |
| S-16 | 716.18 | 18.61 | 697.57 | 18.62 | 697.56 | 18.73 | 697.45 | |
| S-17 | 716.97 | NM | | NM | | 19.11 | 697.86 | |
| S-18 | 715.41 | 16.95 | 698.46 | 17.00 | 698.41 | 16.91 | 698.50 | |
| S-19 | 723.38 | 20.44 | 702.94 | 20.43 | 702.95 | 20.79 | 702.59 | |
| S-20 | 709.97 | 15.08 | 694.89 | 15.09 | 694.88 | 14.32 | 695.65 | |
| S-21 | 711.33 | NM | | NM | | 15.53 | 695.80 | |
| S-22 | 709.33 | NM | | NM | | 14.06 | 695.27 | |
| S-23 | 710.24 | 15.90 | 694.34 | 15.95 | 694.29 | 15.93 | 694.31 | |
| S-24 | 713.03 | NM | | NM | | 16.19 | 696.84 | |
| S-25 | 710.60 | 15.30 | 695.30 | 15.30 | 695.30 | 15.37 | 695.23 | |
| S-26 | 714.50 | 17.53 | 696.97 | 17.52 | 696.98 | 17.53 | 696.97 | |
| S-27 | 715.40 | 18.92 | 696.48 | 18.87 | 696.53 | 18.58 | 696.82 | |
| D-1 | *720.73 | NM | | NM | | NM | | |
| D-1A | *721.69 | NM | | NM | | NM | | |
| D-3 | 714.51 | 18.06 | 696.45 | 18.06 | 696.45 | 18.50 | 696.01 | |
| D-4 | 717.85 | 20.70 | 697.15 | 20.70 | 697.15 | 21.07 | 696.78 | |
| D-5 | 712.14 | 15.30 | 696.84 | 15.31 | 696.83 | 15.75 | 696.39 | |
| D-7 | 713.83 | 16.40 | 697.43 | 16.42 | 697.41 | 16.83 | 697.00 | |
| D-8 | 717.04 | 19.48 | 697.56 | 19.50 | 697.54 | 19.91 | 697.13 | |
| D-9 | *717.00 | NM | | NM | | NM | | |
| D-10 | 716.53 | 17.98 | 698.55 | 18.00 | 698.53 | 18.17 | 698.36 | |
| D-11 | 723.47 | 20.52 | 702.95 | 20.53 | 702.94 | 20.91 | 702.56 | |
| D-12 | 710.29 | 21.99 | 688.30 | 22.30 | 687.99 | 23.04 | 687.25 | |
| 1-1 | 711.52 | 16.69 | 694.83 | 16.76 | 694.76 | 16.25 | 695.27 | |
| 1-D | 714.17 | 16.35 | 697.82 | 16.32 | 697.85 | 16.67 | 697.50 | |
| 2-D | 715.36 | 17.74 | 697.60 | 17.75 | 697.61 | NM | | |
| 3-D | 713.29 | 18.20 | 695.09 | 18.22 | 695.07 | NM | | |
| 4-D | 712.10 | 22.48 | 689.62 | 22.56 | 689.54 | 22.90 | 689.20 | |
| 5-D | 712.01 | 23.10 | 688.91 | 23.53 | 688.48 | 24.35 | 687.66 | |
| 6-D | 711.41 | 23.19 | 688.22 | 23.39 | 688.02 | 24.12 | 687.29 | |
| 7-D | 714.85 | 17.84 | 697.01 | 17.85 | 697.00 | 18.25 | 696.60 | |
| 8-D | 714.56 | 17.17 | 697.39 | 17.17 | 697.39 | 17.59 | 696.97 | |

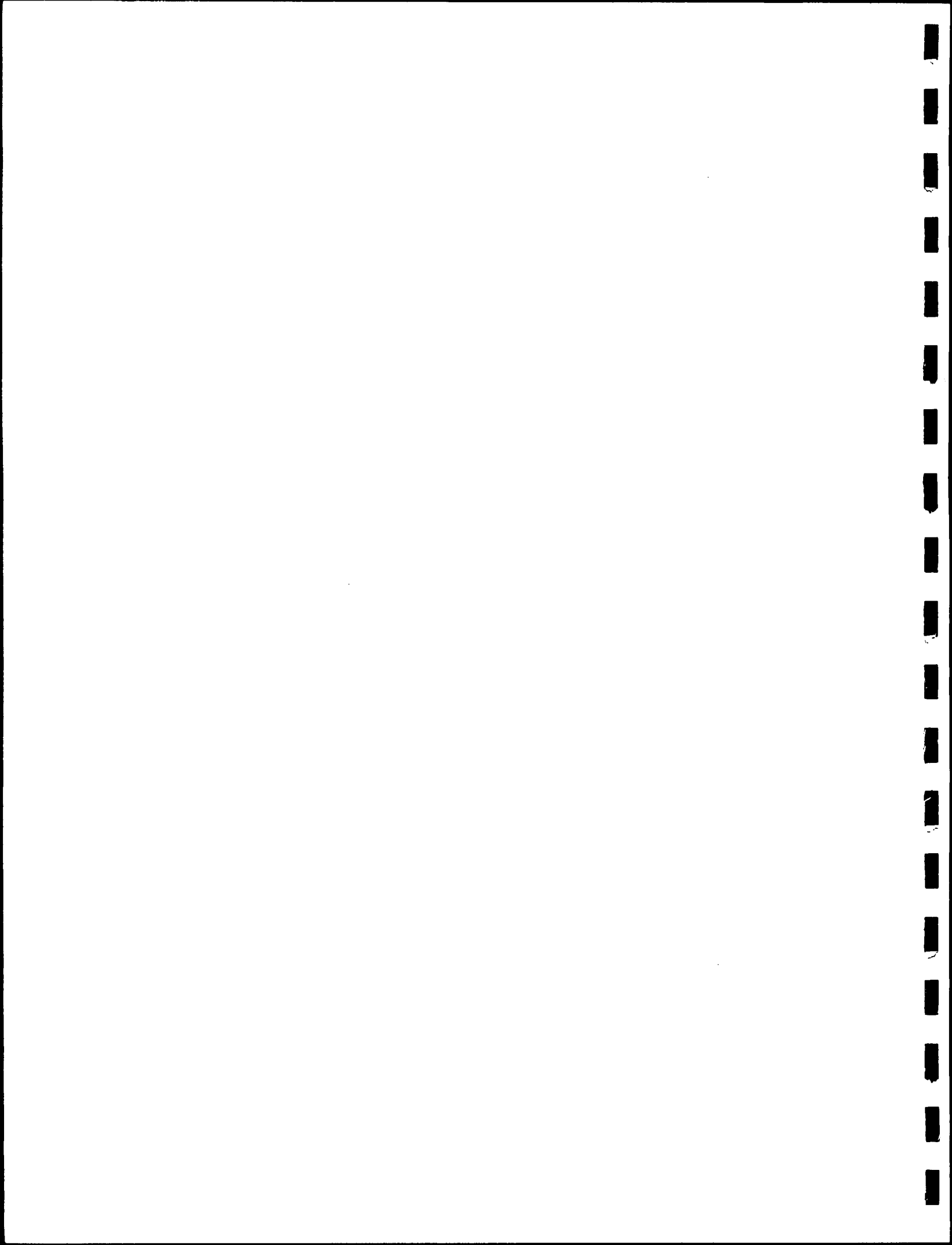
TABLE 1

WATER LEVEL MEASUREMENTS

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GROUNDWATER INVESTIGATIONS
 ALLIED COMPLEX
 SOUTH BEND, INDIANA
 PROJECT # ALCMPX

T A GLEASON ASSOCIATES
 ENVIRONMENTAL AND
 GEOTECHNICAL SERVICES



| WLM2 | | 02/03/88 | | 01/12/88 | | 09/01/87 | | NOTES: |
|----------|-------------------------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|---|
| WELL NO. | (1) REFERENCE ELEVATION | WATER DEPTH | WATER ELEVATION | WATER DEPTH | WATER ELEVATION | WATER DEPTH | WATER ELEVATION | |
| 86-1 | *715.70 | NM | | NM | | NM | | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. 1 = SURVEYED BY LANG, FEENEY & ASSOC., INC. 9/87. WATER ELEVATIONS PRIOR TO JULY 1987 ARE BASED ON FORMER REFERENCE ELEVATIONS. * = FORMER REFERENCE ELEVATIONS *** = NO REFERENCE ELEVATION |
| 86-2 | *714.98 | NM | | NM | | NM | | |
| 86-4 | *715.09 | NM | | NM | | NM | | |
| 86-5 | *715.04 | NM | | NM | | NM | | |
| 86-6 | *** | NM | | NM | | NM | | |
| 86-7 | 714.15 | 16.12 | 698.03 | 16.12 | 698.03 | 16.57 | 697.58 | |
| 86-8 | *714.62 | NM | | NM | | | | |
| 86-9 | *715.25 | NM | | NM | | | | |
| 86-10 | 715.06 | 17.10 | 697.96 | 17.43 | 697.63 | 17.43 | 697.63 | |
| 86-11 | *715.14 | NM | | NM | | NM | | |
| 86-12 | *715.71 | NM | | NM | | NM | | |
| 86-13 | 714.75 | NM | | NM | | 17.25 | 697.50 | |
| 86-14 | *715.05 | NM | | NM | | NM | | |
| 86-15 | *715.06 | 17.10 | 697.63 | NM | | NM | | |
| 86-18 | 714.84 | 18.21 | 696.63 | 18.22 | 696.62 | 18.43 | 696.41 | |
| 86-19 | 714.33 | NM | | NM | | 16.62 | 697.71 | |
| 86-20 | *713.07 | NM | | NM | | NM | | |
| 86-21 | *713.76 | NM | | NM | | NM | | |
| 7-25 | 720.47 | 20.80 | 699.67 | 20.84 | 699.63 | 21.09 | 699.38 | |
| 7-50 | 719.83 | 20.21 | 699.62 | 20.24 | 699.59 | 20.52 | 699.31 | |
| 8-27 | *715.45 | NM | | NM | | NM | | |
| 9-33 | 716.69 | 18.37 | 698.32 | 18.38 | 698.31 | 18.67 | 698.02 | |
| OW-1 | *** | | | 14.36 | | | | |
| OW-2 | *** | | | 14.40 | | | | |
| S4-A | *** | | | 14.21 | | | | |
| RWB-6 | 715.80 | 19.02 | 696.78 | 19.00 | 696.80 | 19.30 | 696.50 | |
| RWB-16 | 715.30 | 18.29 | 697.01 | 18.31 | 696.99 | 18.41 | 696.89 | |
| RWB-21 | 717.62 | 21.14 | 696.48 | 21.10 | 696.52 | 21.42 | 696.20 | |
| RWB-22 | 715.11 | 18.43 | 696.68 | 18.44 | 696.67 | 18.70 | 696.41 | |
| RWE-3 | 714.50 | 19.52 | 694.98 | 19.51 | 694.99 | 18.06 | 696.44 | |

TABLE 1

WATER LEVEL MEASUREMENTS

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GROUNDWATER INVESTIGATIONS
 ALLIED COMPLEX
 SOUTH BEND, INDIANA
 PROJECT # ALCMPX

T A GLEASON ASSOCIATES
 ENVIRONMENTAL AND
 GEOTECHNICAL SERVICES

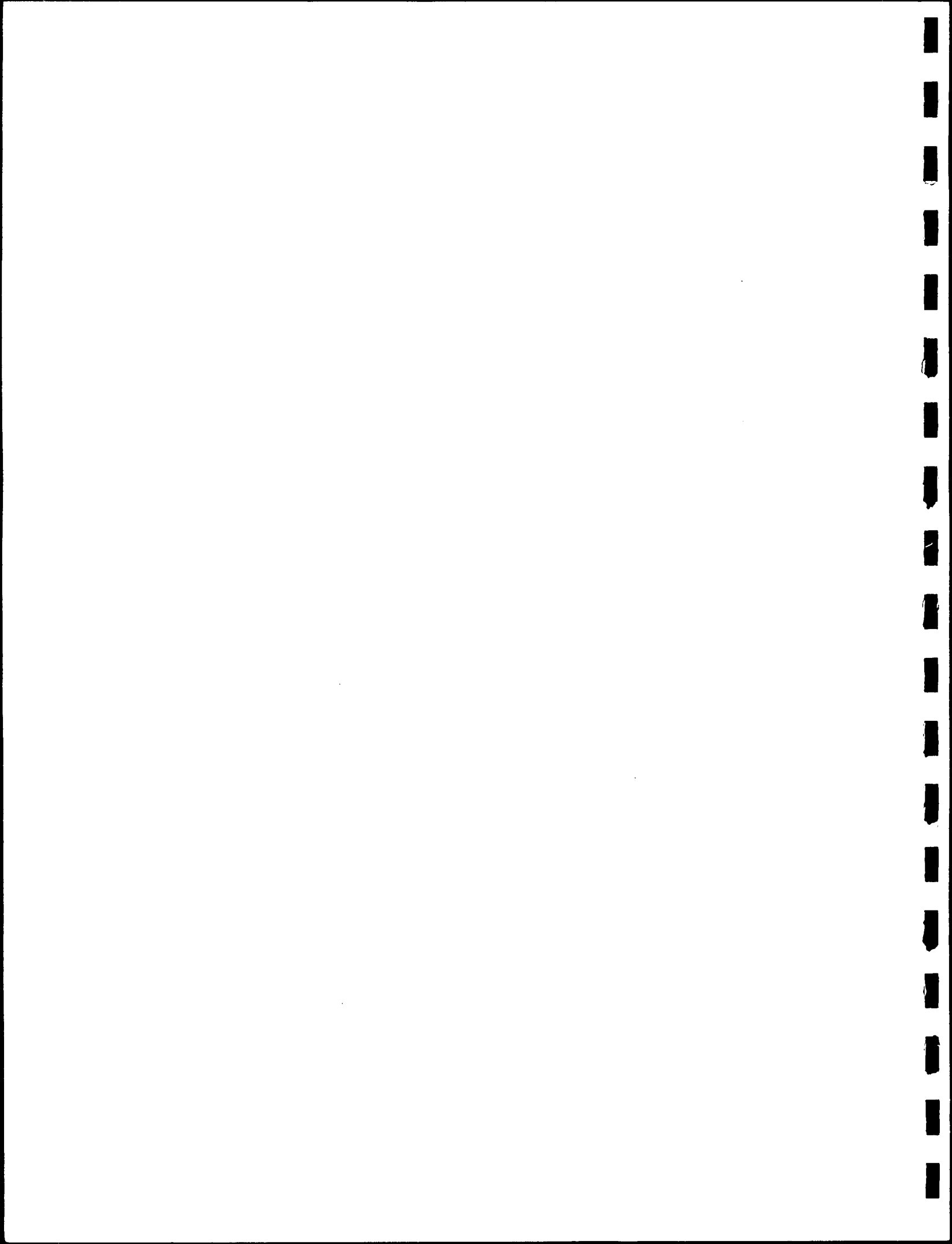


TABLE 2 - SAMPLE SUMMARY
1ST QUARTER 1988

| <u>Quarterly Sampling Wells</u> | <u>Existing Naptha Recovery Wells</u> |
|-------------------------------------|---|
| S-1 1D | RWB-21 |
| S-3 2D | RWB-6 |
| S-9 4D | RWB-22 |
| S-14 5D | RWB-16 |
| S-15 7-25 | E-3 |
| S-16 9-23 | |
| S-17 S-4A | |
| S-20 7D | |
| S-21 8D | |
| S-22 S-25 | |
| S-23 S-26 | |
| D-4 S-27 | |
| D-7 S-24* | |

Parameters

VOC (624)
 Cyanide
 Phenols
 Chrome **
 Lead **
 Zinc **

* Well S-24 not sampled this episode. Bladder pump not installed.

** Field filtered through .45 micron filter.







| WELL NO. | SAMPLE # | DATE | LAB | PH | TEMP | SU | CONDUC- TANCE | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | NOTES: | |
|----------|----------|----------|------|----|------|------|------------------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|---|---|
| | | | | | C | CM | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. | |
| | | | | | | | | | | | | | | | | | | | | | | | < = | LESS THAN |
| 4-D | 129 | 10/14/86 | AQUA | | | | | | | | | | | | | | | | | | | | | |
| | 329 | 10/14/86 | AQUA | | | | | <6 | 4 | <1 | 2 | <20 | 30 | 7 | <0.3 | 30 | <4 | <10 | <3 | 30 | | | | *METAL FILTERED THRU .45 MICRON FILTER |
| | 14 | 06/06/87 | AQUA | | | 7.67 | | | | | | <5* | | <3* | | | | | | 20* | 0.030 | 0.016 | | |
| | 21 | 01/14/88 | AQUA | | | 6.86 | | | | | | <20* | | <30* | | | | | | 10* | <0.02 | 0.020 | | BLANK SPACE INDICATES NOT ANALYZED FOR |
| | 17 | 02/09/88 | AQUA | | | 7.50 | | | | | | <20* | | <3* | | | | | | <10* | <0.01 | 2.55 | | |

TABLE 3

GROUNDWATER QUALITY ANALYSIS
METALS, CYANIDE
AND PHENOLS
PAGE 3 OF 28
MONITOR WELLS
GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT ALCHPX SBIN 011
T A GLEASON ASSOCIATES
Environmental and
Geotechnical Services



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L |
|----------|----------|----------|------|----------------------|------|--------|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|
| 5-D | 4 | 12/18/86 | AQUA | | | | <6 | <4 | <1 | <1 | <10 | 8 | <6 | <0.3 | <10 | <16 | 4 | <12 | 52 | | |
| | 5 | 12/18/86 | AQUA | | | | <6 | <1 | <1 | 2 | <10 | 8 | <6 | <0.3 | <10 | <16 | <4 | <9 | 40 | | |
| | 19 | 06/15/87 | AQUA | 1000 | 7.90 | 14 | | | | | <5* | | <3* | | | | | | 10* | 0.013 | <0.010 |
| | 15 | 09/06/87 | AQUA | 950 | 7.81 | 13 | | | | | <10 | | <3* | | | | | | 16* | <0.005 | <0.010 |
| | 12 | 01/14/88 | AQUA | 1240 | 6.71 | 9 | | | | | <20* | | <30* | | | | | | 10* | <0.02 | <0.010 |
| | 21 | 02/09/88 | AQUA | 2050 | 6.95 | 13 | | | | | 20* | | <3* | | | | | | <10* | <0.01 | 0.039 |

TABLE 3

GROUNDWATER QUALITY ANALYSIS
METALS, CYANIDE
AND PHENOLS
PAGE 4 OF 28
MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT ALCHPX SBIN 011

T A GLEASON ASSOCIATES

Environmental and
Geotechnical Services

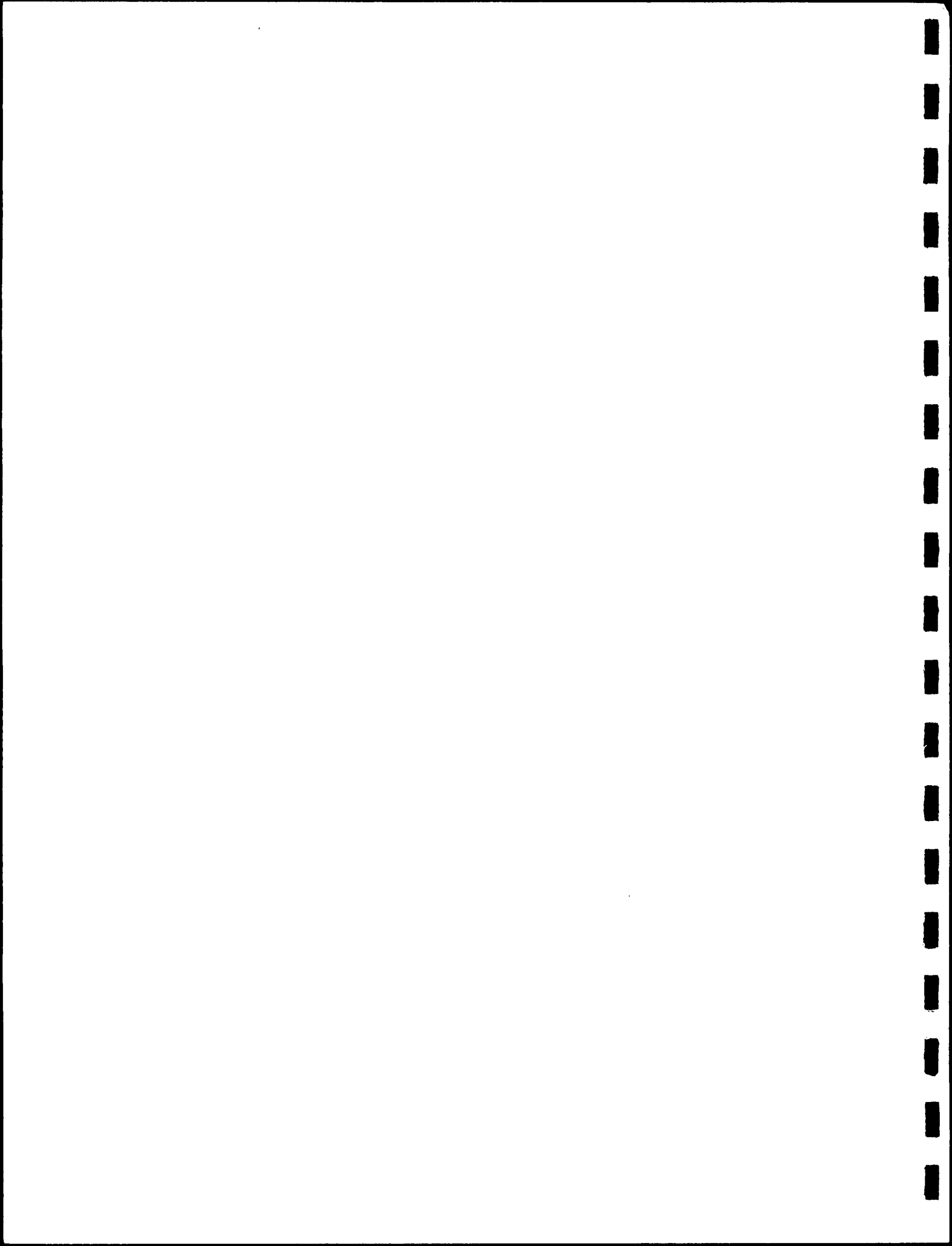
NOTES:

OUR INTERPRETATIONS OF
THESE DATA ARE LIMITED TO
OUR WRITTEN REPORTS.

< = LESS THAN

*METAL FILTERED THRU
.45 MICRON FILTER

BLANK SPACE INDICATES
NOT ANALYZED FOR



NOTES:
OUR INTERPRETATIONS OF
THESE DATA ARE LIMITED TO
OUR WRITTEN REPORTS.
< = LESS THAN

| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CAESIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L | |
|----------|----------|----------|------|-------------------------|------|-----------|------------------|-----------------|-------------------|-----------------|------------------|----------------|--------------|-----------------|----------------|------------------|----------------|------------------|--------------|-----------------|-----------------|--|
| 7-D | 29 | 09/01/87 | AQUA | 1100 | 7.17 | 16 | | | | | <10* | | <3* | | | | | | 24* | <0.01 | <0.01 | |
| | 30 | 01/15/88 | AQUA | 1380 | 7.07 | 14 | | | | | <20* | | <30* | | | | | | 10* | <0.02 | 0.050 | |
| | 15 | 02/09/88 | AQUA | 1975 | 7.33 | 13 | | | | | 40* | | <3* | | | | | | 40* | <0.01 | 0.031 | |
| | | | | | | | | | | | | | | | | | | | | | | |
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*METAL FILTERED THRU
.45 MICRON FILTER

BLANK SPACE INDICATES
NOT ANALYZED FOR

TABLE 3

GROUNDWATER QUALITY ANALYS
METALS, CYANIDE
AND PHENOLS
PAGE 5 OF 28
MONITOR WELLS
GROUNDWATER INVESTIGATION
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT ALCHPX S81N 011
T A GLEASON ASSOCIATES
Environmental and
Geotechnical Services



NOTES:
OUR INTERPRETATIONS OF
THESE DATA ARE LIMITED TO
OUR WRITTEN REPORTS.
< = LESS THAN

| WELL NO. | SAMPLE # | DATE | LAB | PH | TEMP | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | |
|----------|----------|----------|------|------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|--------|
| | | | | SU | C | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L |
| 8-0 | 30 | 09/06/87 | AQUA | 7.29 | 16 | | | | | | | <3* | | | | | | | 28* | 0.14 | <0.010 |
| | 28 | 01/15/88 | AQUA | 6.84 | 11 | | | | | | | <20* | | | | | | | 10* | <0.02 | 0.010 |
| | 29 | 01/15/88 | AQUA | 6.84 | 11 | | | | | | | <20* | | | | | | | 10* | <0.02 | 0.010 |
| | 13 | 02/09/88 | AQUA | 7.40 | 13 | | | | | | | <20* | | | | | | | 20* | 0.14 | 0.089 |
| | 14 | 02/09/88 | AQUA | 7.40 | 13 | | | | | | | <20* | | | | | | | 10* | 0.14 | 0.034 |

*METAL FILTERED THRU
.45 MICRON FILTER

BLANK SPACE INDICATES
NOT ANALYZED FOR

TABLE 3

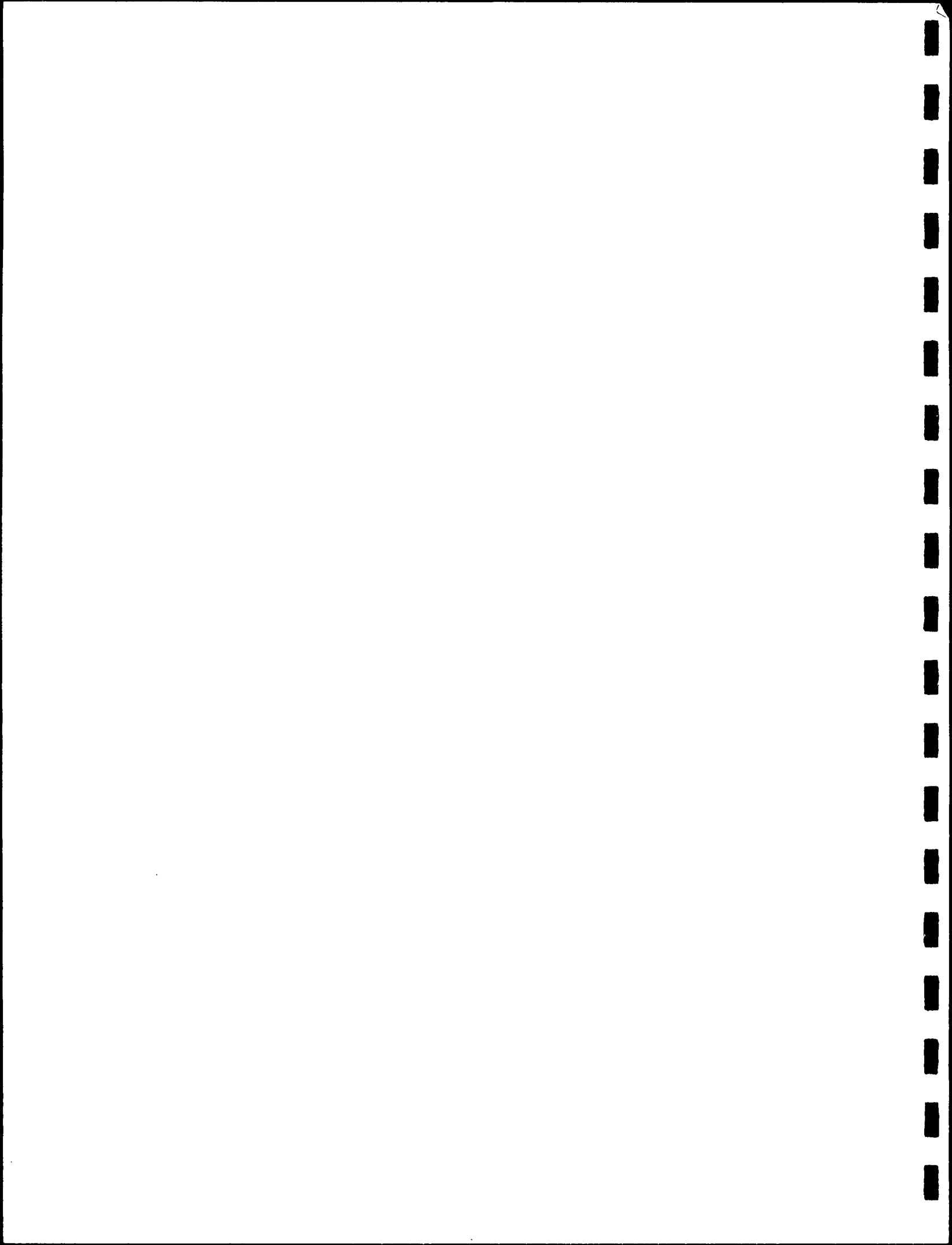
GROUNDWATER QUALITY ANALYSIS
METALS, CYANIDE
AND PHENOLS
PAGE 6 OF 28
MONITOR WELLS

GROUNDWATER INVESTIGATION:
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT ALCMPX S81N 011

T A GLEASON ASSOCIATES
Environmental and
Geotechnical Services



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTHONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | |
|---|----------|----------|------|----------------------|------|--------|---------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|------|
| | | | | UMHOS/CM | SU | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L | MG/L |
| 7-25 | 31 | 11/07/86 | AQUA | | | | <6 | 5 | <1 | 2 | 12 | 40 | 66 | <0.3 | 24 | <12 | <4 | <6 | 120 | 0.01 | <0.010 | |
| | 20A | 02/12/87 | AQUA | 700 | | 10 | | | | 16 | | | 300 | | | | | | 170 | | | |
| | 20B | 02/12/87 | AQUA | | | | | | | <10* | | | 3* | | | | | | 12* | | | |
| | 2 | 06/05/87 | AQUA | 600 | 7.31 | 12 | | | | <5* | | | <3* | | | | | | 10* | 0.026 | <0.010 | |
| | 2 | 09/03/87 | AQUA | 600 | 7.51 | 13 | | | | <10* | | | <3* | | | | | | <4* | <0.005 | <0.010 | |
| | 2 | 01/13/88 | AQUA | 740 | 7.09 | 9 | | | | <20* | | | <30* | | | | | | <10* | 0.02 | <0.010 | |
| | 2 | 02/08/88 | AQUA | 1160 | 7.10 | 9 | | | | <20* | | | <3* | | | | | | 10* | <0.010 | 0.720 | |
| <p>NOTES:</p> <p>OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.</p> <p>< = LESS THAN</p> <p>*METAL FILTERED THRU .45 MICRON FILTER</p> <p>BLANK SPACE INDICATES NOT ANALYZED FOR</p> | | | | | | | | | | | | | | | | | | | | | | |
| <p>TABLE 3</p> <p>GROUNDWATER QUALITY ANALYSIS</p> <p>METALS, CYANIDE AND PHENOLS</p> <p>PAGE 7 OF 28</p> <p>MONITOR WELLS</p> <p>GROUNDWATER INVESTIGATIONS</p> <p>ALLIED CORPORATION</p> <p>SOUTH BEND, INDIANA</p> <p>PROJECT ALCHPX SBIN 011</p> <p>T A GLEASON ASSOCIATES</p> <p>Environmental and Geotechnical Services</p> | | | | | | | | | | | | | | | | | | | | | | |



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L |
|--|----------|----------|------|----------------------|------|--------|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|
| 9-33 | 11 | 01/08/87 | AQUA | | | | <50 | 11 | 6 | 2 | 170 | 160 | 69 | 0.6 | 220 | <80 | <4 | <1 | 840 | | |
| | 19A | 02/12/87 | AQUA | | | | | | | | 844 | | 125 | | | | | | 210 | | |
| | 19B | 02/12/87 | AQUA | | | | | | | | <10* | | <3* | | | | | | 12* | | |
| | 3 | 06/05/87 | AQUA | 1250 | 7.88 | 14 | | | | | <5* | | 4* | | | | | | 10* | 0.014 | <0.010 |
| | 3 | 09/03/87 | AQUA | 1150 | 7.22 | 15 | | | | | <10* | | <3* | | | | | | <4* | <0.005 | <0.100 |
| | 3 | 01/13/88 | AQUA | 1030 | 7.15 | 13 | | | | | <20* | | <30* | | | | | | <10* | <0.02 | 0.030 |
| | 31 | 02/10/88 | AQUA | 2000 | 7.40 | 12 | | | | | <20* | | <3* | | | | | | <10* | <0.01 | <0.010 |
| <p>NOTES:</p> <p>OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.</p> <p>< = LESS THAN</p> <p>*METAL FILTERED THRU .45 MICROM FILTER</p> <p>BLANK SPACE INDICATES NOT ANALYZED FOR</p> | | | | | | | | | | | | | | | | | | | | | |
| <p>TABLE 3</p> <p>GROUNDWATER QUALITY ANALYSIS</p> <p>METALS, CYANIDE AND PHENOLS</p> <p>PAGE 8 OF 28</p> <p>MONITOR WELLS</p> <p>GROUNDWATER INVESTIGATIONS</p> <p>ALLIED CORPORATION</p> <p>SOUTH BEND, INDIANA</p> <p>PROJECT ALCHPX SBRIN 011</p> <p>T A GLEASON ASSOCIATES</p> <p>Environmental and Geotechnical Services</p> | | | | | | | | | | | | | | | | | | | | | |



R594CPHU
09-Mar-88

| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | | PH | TEMP | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | NOTES: | |
|----------|----------|----------|------|----------------------|------|----|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|--------|--|
| | | | | UMHOS/CH | SU | | | | | | | | | | | | | | | | | | | C |
| R-59 | 31 | 09/04/87 | AQUA | 2500 | 7.22 | 17 | | | | | | | | | | | | | | | | | | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. < = LESS THAN |
| | | | | | | | | | | | | | | | | | | | | | | | | *METAL FILTERED THRU .45 MICRON FILTER |
| | | | | | | | | | | | | | | | | | | | | | | | | BLANK SPACE INDICATES NOT ANALYZED FOR |
| | | | | | | | | | | | | | | | | | | | | | | | | TABLE 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | GROUNDWATER QUALITY ANALYSIS |
| | | | | | | | | | | | | | | | | | | | | | | | | METALS, CYANIDE AND PHENOLS |
| | | | | | | | | | | | | | | | | | | | | | | | | PAGE 9 OF 28 |
| | | | | | | | | | | | | | | | | | | | | | | | | MONITOR WELLS |
| | | | | | | | | | | | | | | | | | | | | | | | | GROUNDWATER INVESTIGATIONS |
| | | | | | | | | | | | | | | | | | | | | | | | | ALLIED CORPORATION |
| | | | | | | | | | | | | | | | | | | | | | | | | SOUTH BEND, INDIANA |
| | | | | | | | | | | | | | | | | | | | | | | | | PROJECT ALCMPX SB1W 011 |
| | | | | | | | | | | | | | | | | | | | | | | | | T A GLEASON ASSOCIATES |
| | | | | | | | | | | | | | | | | | | | | | | | | Environmental and Geotechnical Services |



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L | NOTES | |
|---|----------|----------|------|----------------------|------|--------|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|-------|---|
| 0-4 | 109 | 10/01/86 | AQUA | 870 | | | | | | | | | | | | | | | | | | | |
| | 309 | 10/01/86 | AQUA | | | | <6 | <4 | <1 | <1 | <10 | 4 | 30 | <0.3 | <10 | 10 | <4 | | 9280 | | | | *METAL FILTERED THRU .45 MICRON FILTER |
| | 13 | 02/12/87 | AQUA | 600 | | 11 | | | | | <10 | | 53 | | | | | | 5280 | | | | |
| | 8 | 05/05/87 | AQUA | 750 | 8.18 | 16 | | | | | <5* | | 26* | | | | | | 20* | 0.098 | 1.33 | | BLANK SPACE INDICATES NOT ANALYZED FOR |
| | 8 | 09/03/87 | AQUA | 725 | 8.15 | 15 | | | | | <10* | | <3* | | | | | | 44* | <0.005 | 0.729 | | |
| | 4 | 01/13/88 | AQUA | 840 | 7.06 | 12 | | | | | <20* | | <30* | | | | | | 10* | <0.02 | <0.010 | | |
| | 5 | 01/13/88 | AQUA | 830 | 7.06 | 12 | | | | | <20* | | <30* | | | | | | <10* | <0.02 | <0.010 | | |
| | 7 | 02/08/88 | AQUA | 1390 | 7.70 | 12 | | | | | 30* | | 3* | | | | | | 10* | <0.01 | 0.179 | | |
| | 8 | 02/08/88 | AQUA | 1380 | 7.68 | 12 | | | | | <20* | | <3* | | | | | | 10* | <0.01 | 0.056 | | TABLE 3 |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE AND PHENOLS | | | | | | | | | | | | | | | | | | | | | | | |
| PAGE 10 OF 28 | | | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCMPX S8IN 011 | | | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | | |
| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | | |



D7MCPM
09-Mar-88

| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | SU | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L | NOTES | | | |
|----------|----------|----------|------|----------------------|------|--------|----|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|-------|---|------------------------------|---|
| D-7 | 108 | 10/01/86 | AQUA | 1110 | | | | | | | | | | | | | | | | | | | | | | |
| | 208 | 10/01/86 | AQUA | | | | | <6 | 4 | <1 | <1 | 20 | 10 | 11 | <0.3 | <20 | <4 | <10 | | 320 | | | | *METAL FILTERED THRU .45 MICRON FILTER | | |
| | 26 | 11/06/87 | AQUA | | | | | <3 | 4 | <1 | <1 | <10 | 4 | 3 | <0.3 | <0.3 | <8 | <4 | | 28 | <0.01 | 0.011 | | | | |
| | 9 | 06/05/87 | AQUA | 800 | 8.31 | 16 | | | | | | <5* | | 9* | | | | | | 10* | 0.031 | 0.233 | | | | |
| | 10 | 06/05/87 | AQUA | 800 | 8.31 | 16 | | | | | | <5* | | <3* | | | | | | <10* | 0.041 | 0.228 | | | | |
| | 17 | 09/03/87 | AQUA | 850 | 7.97 | 15 | | | | | | <10* | | <3* | | | | | | <8* | <0.005 | 0.369 | | | | |
| | 18 | 09/03/87 | AQUA | 850 | 7.97 | 15 | | | | | | <10* | | <3* | | | | | | 4* | <0.005 | 0.400 | | | | |
| | 14 | 01/14/88 | AQUA | 860 | 6.89 | 13 | | | | | | <20* | | <30* | | | | | | 10* | <0.02 | 0.160 | | | | |
| | 10 | 02/08/88 | AQUA | 1080 | 7.94 | 13 | | | | | | 20* | | <3* | | | | | | <10* | <0.01 | 0.500 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | TABLE 3 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | GROUNDWATER QUALITY ANALYSIS | |
| | | | | | | | | | | | | | | | | | | | | | | | | | METALS, CYANIDE AND PHENOLS | |
| | | | | | | | | | | | | | | | | | | | | | | | | | PAGE 11 OF 28 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | MONITOR WELLS |
| | | | | | | | | | | | | | | | | | | | | | | | | | | GROUNDWATER INVESTIGATIONS |
| | | | | | | | | | | | | | | | | | | | | | | | | | | ALLIED CORPORATION |
| | | | | | | | | | | | | | | | | | | | | | | | | | | SOUTH BEND, INDIANA |
| | | | | | | | | | | | | | | | | | | | | | | | | | | PROJECT ALCHPX SBN 011 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | T A GLEASON ASSOCIATES |
| | | | | | | | | | | | | | | | | | | | | | | | | | | Environmental and Geotechnical Services |

< = LESS THAN

BLANK SPACE INDICATES NOT ANALYZED FOR



SYMCPHM
09-Mar-88

| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. |
|--|----------|----------|------|----------------------|------|--------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|---|
| | | | | | | | | | | | | | | | | | | | | | | |
| S-1 | 1 | 11/05/86 | AQUA | | | | <3 | <4 | <1 | <1 | <10 | 24 | 15 | <0.3 | <10 | <12 | <4 | 3 | 20 | <0.010 | 0.02 | |
| | 18 | 12/17/86 | AQUA | | | | <3 | <4 | <1 | <1 | <10 | 44 | <9 | 0.3 | <10 | <8 | <10 | <6 | 100 | <0.010 | <0.010 | |
| | 1 | 06/05/87 | AQUA | 625 | 7.15 | 14 | | | | | <5* | | <3* | | | | | | <10* | 0.042 | 0.02 | |
| | 1 | 09/03/87 | AQUA | 625 | 7.01 | 15 | | | | | <10* | | <3* | | | | | | <8* | <0.005 | 0.126 | |
| | 1 | 01/13/88 | AQUA | 690 | 6.80 | 10 | | | | | <20* | | <30* | | | | | | <10* | <0.02 | <0.010 | |
| | 1 | 02/08/88 | AQUA | 1840 | 7.22 | 10 | | | | | 20* | | <3* | | | | | | 10* | <0.01 | 0.046 | |
| <p>*****</p> <p>TABLE 3</p> <p>*****</p> <p>GROUNDWATER QUALITY ANALYSIS</p> <p>METALS, CYANIDE AND PHENOLS</p> <p>PAGE 12 OF 28</p> <p>MONITOR WELLS</p> <p>*****</p> <p>GROUNDWATER INVESTIGATIONS</p> <p>ALLIED CORPORATION</p> <p>SOUTH BEND, INDIANA</p> <p>PROJECT ALCHPX S81N 011</p> <p>*****</p> <p>T A GLEASON ASSOCIATES</p> <p>*****</p> <p>Environmental and Geotechnical Services</p> <p>*****</p> | | | | | | | | | | | | | | | | | | | | | | |

NOTES:

*METAL FILTERED THRU .45 MICRON FILTER

BLANK SPACE INDICATES NOT ANALYZED FOR

< = LESS THAN



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | NOTES: |
|------------------------------|----------|----------|------|----------------------|------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|---|
| | | | | | | | | | | | | | | | | | | | | | | |
| S-3 | 9 | 11/05/86 | AQUA | | | | <15 | <4 | <1 | <1 | 18 | 52 | 86 | <0.3 | <10 | <300 | <4 | <6 | 415 | <0.010 | <0.010 | *METAL FILTERED THRU .45 MICRON FILTER |
| | 18 | 12/12/87 | AQUA | 1600 | | 12 | | | | 16 | | 110 | | | | | | | 380 | | | |
| | 4 | 06/05/87 | AQUA | 1600 | 7.52 | 14 | | | | <5* | | <3* | | | | | | | 30* | 0.040 | 0.010 | |
| | 4 | 09/03/87 | AQUA | 1500 | 7.43 | 14 | | | | <10* | | <3* | | | | | | | 12* | <0.005 | <0.010 | BLANK SPACE INDICATES NOT ANALYZED FOR |
| | 26 | 01/15/88 | AQUA | 2100 | 6.86 | 9 | | | | <20* | | <30* | | | | | | | 10* | <0.02 | 0.040 | |
| | 3 | 02/08/88 | AQUA | 2400 | 7.29 | 12 | | | | <20* | | <3* | | | | | | | 10* | <0.01 | .913 | |
| ===== | | | | | | | | | | | | | | | | | | | | | | |
| TABLE 3 | | | | | | | | | | | | | | | | | | | | | | |
| ===== | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE | | | | | | | | | | | | | | | | | | | | | | |
| AND PHENOLS | | | | | | | | | | | | | | | | | | | | | | |
| PAGE 13 OF 28 | | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | | |
| ===== | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCMPX SBIN 011 | | | | | | | | | | | | | | | | | | | | | | |
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| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | |
| Environmental and | | | | | | | | | | | | | | | | | | | | | | |
| Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | |
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OUR INTERPRETATIONS OF
THESE DATA ARE LIMITED TO
OUR WRITTEN REPORTS.

< = LESS THAN



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L | NOTES | |
|---|----------|----------|------|----------------------|------|--------|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|--|--|
| S-4 | 107 | 09/28/86 | AQUA | 1930 | 6.88 | | | | | | | | | | | | | | | | | | |
| | 307 | 09/28/86 | AQUA | | | | <20 | 44 | <2 | <4 | 24 | 200 | 68 | <0.3 | 44 | <60 | 4 | | 920 | | | | *METAL FILTERED THRU .45 MICRON FILTER |
| S-4A | 22 | 06/05/87 | AQUA | 1600 | 7.48 | 16 | | | | | <5* | | <3* | | | | | | 30* | 0.028 | >0.010 | BLANK SPACE INDICATES NOT ANALYZED FOR | |
| | 27 | 09/04/87 | AQUA | 1700 | 6.94 | 15 | | | | | <10* | | 3* | | | | | | 24* | 0.008 | 0.035 | | |
| | 25 | 01/14/88 | AQUA | 2000 | 6.49 | 13 | | | | | <20* | | <30* | | | | | | 10* | 0.02 | 0.080 | | |
| | 6 | 02/08/88 | AQUA | 2500 | 7.20 | 13 | | | | | <20* | | <3* | | | | | | 60* | 0.01 | 7.60 | | |
| ===== | | | | | | | | | | | | | | | | | | | | | | | |
| TABLE 3 | | | | | | | | | | | | | | | | | | | | | | | |
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| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE AND PHENOLS | | | | | | | | | | | | | | | | | | | | | | | |
| PAGE 14 OF 28 | | | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | | | |
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| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCPM SBIN 011 | | | | | | | | | | | | | | | | | | | | | | | |
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| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | | |
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| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | | |



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP | SU | C | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS |
|---|----------|----------|------|----------------------|------|------|------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|
| | | | | | | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L |
| S-9 | 110 | 10/01/86 | AQUA | 1775 | | | | | | | | | | | | | | | | | | | |
| | 130 | 10/01/86 | AQUA | | | | <6 | <4 | <1 | 1 | <20 | 130 | <0.3 | <20 | <4 | <10 | | | | | 930 | | |
| | 4 | 11/01/86 | AQUA | | | | <3 | <4 | <1 | <1 | 20 | | | | | | | | | | | | |
| | 20 | 12/18/86 | AQUA | | | | <3 | <4 | 2 | 2 | <10 | | | | <3* | | | | | | | | |
| | 30 | 12/18/86 | AQUA | | | | <3 | <4 | <1 | <1 | <10 | | | | 3* | | | | | | | | |
| | 7 | 06/05/87 | AQUA | 1800 | 7.68 | 16 | | | | | <5* | | | | <30 | | | | | | | | |
| | 9 | 09/03/87 | AQUA | 1725 | 7.55 | 15 | | | | | <10* | | | | | | | | | | | | |
| | 6 | 01/13/88 | AQUA | 1750 | 6.75 | 12 | | | | | <20* | | | | | | | | | | | | |
| | 9 | 02/08/88 | AQUA | 3000 | 7.35 | 12 | | | | | <20* | | | | | | | | | | | | |
| <p>NOTES:</p> <p>OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.</p> <p>< = LESS THAN</p> <p>*METAL FILTERED THRU .45 MICRON FILTER</p> <p>BLANK SPACE INDICATES NOT ANALYZED FOR</p> <p>TABLE 3</p> <p>GROUNDWATER QUALITY ANALYSIS</p> <p>METALS, CYANIDE AND PHENOLS</p> <p>PAGE 15 OF 28</p> <p>MONITOR WELLS</p> <p>GROUNDWATER INVESTIGATIONS</p> <p>ALLIED CORPORATION</p> <p>SOUTH BEND, INDIANA</p> <p>PROJECT ALCHPX SBIN 011</p> <p>T A GLEASON ASSOCIATES</p> <p>Environmental and Geotechnical Services</p> | | | | | | | | | | | | | | | | | | | | | | | |



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | SU | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | |
|---|----------|----------|------|----------------------|------|--------|----|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|------|
| | | | | | | | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L |
| S-14 | 21 | 11/06/86 | AQUA | | | | | <3 | <4 | <1 | <1 | <10 | 40 | 16 | <0.3 | 16 | <8 | <4 | <3 | 370 | <0.010 | <0.010 | |
| | 5 | 06/05/87 | AQUA | 1400 | 7.39 | 15 | | <3* | | <3* | | <3* | | | | | | | | 10* | 0.048 | <0.010 | |
| | 7 | 09/03/87 | AQUA | 1400 | 7.28 | 14 | | | | <10* | | <10* | | <3* | | | | | | 48* | <0.005 | <0.010 | |
| | 23 | 01/14/88 | AQUA | 2300 | 6.77 | 11 | | | | <20* | | <20* | | <20* | | | | | | 20* | <0.02 | <0.010 | |
| | 5 | 02/08/88 | AQUA | 3000 | 7.41 | 12 | | | | <20* | | <20* | | <3* | | | | | | 70* | <0.01 | <0.010 | |
| <p>NOTES:</p> <p>OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.</p> <p>< = LESS THAN</p> <p>*METAL FILTERED THRU .45 MICRON FILTER</p> <p>BLANK SPACE INDICATES NOT ANALYZED FOR</p> | | | | | | | | | | | | | | | | | | | | | | | |
| <p>TABLE 3</p> <p>GROUNDWATER QUALITY ANALYSIS</p> <p>METALS, CYANIDE AND PHENOLS</p> <p>PAGE 16 OF 28</p> <p>MONITOR WELLS</p> <p>GROUNDWATER INVESTIGATIONS</p> <p>ALLIED CORPORATION</p> <p>SOUTH BEND, INDIANA</p> <p>PROJECT ALMPX SBIN 011</p> <p>T A GLEASON ASSOCIATES</p> <p>Environmental and Geotechnical Services</p> | | | | | | | | | | | | | | | | | | | | | | | |



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09-Mar-88

| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS |
|------------------------------|----------|----------|------|----------------------|------|--------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|
| | | | | UMHOS/CH | SU | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L |
| S-15 | 27 | 11/06/86 | AQUA | | | | <6 | <4 | <1 | <1 | 16 | 48 | 16 | <0.3 | 16 | <12 | <4 | <3 | 120 | <0.010 | <0.010 |
| | 23 | 12/18/86 | AQUA | | | | <3 | <4 | <1 | <1 | <10 | 20 | <15 | <0.3 | 16 | <4 | 8 | <15 | 48 | <0.010 | <0.010 |
| | 6 | 06/05/87 | AQUA | 1700 | 7.27 | 16 | | | | | <5* | | <3* | | | | | | 10* | 0.041 | 0.010 |
| | 5 | 09/03/87 | AQUA | 1625 | 7.18 | 15 | | | | | <10* | | <3* | | | | | | 4* | <0.005 | <0.010 |
| | 6 | 09/03/87 | AQUA | 1625 | 7.18 | 15 | | | | | <10* | | <3* | | | | | | 12* | <0.005 | <0.010 |
| | 24 | 01/14/88 | AQUA | 2300 | 6.42 | 12 | | | | | <20* | | <30* | | | | | | 10* | <0.02 | 0.010 |
| | 4 | 02/08/88 | AQUA | 2650 | 7.30 | 12 | | | | | <20* | | <3* | | | | | | 10* | <0.01 | 0.034 |
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| TABLE 3 | | | | | | | | | | | | | | | | | | | | | |
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| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE | | | | | | | | | | | | | | | | | | | | | |
| AND PHENOLS | | | | | | | | | | | | | | | | | | | | | |
| PAGE 17 OF 28 | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | |
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| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCHPX S8IN 011 | | | | | | | | | | | | | | | | | | | | | |
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| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | |
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| Environmental and | | | | | | | | | | | | | | | | | | | | | |
| Geotechnical Services | | | | | | | | | | | | | | | | | | | | | |
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NOTES:
OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.

< = LESS THAN

*METAL FILTERED THRU -45 MICRON FILTER

BLANK SPACE INDICATES NOT ANALYZED FOR



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L |
|---|----------|----------|------|----------------------|------|--------|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|
| S-16 | 11 | 11/06/86 | AQUA | | | | <6 | <4 | <1 | <1 | <10 | 310 | 65 | <0.3 | 12 | <16 | <4 | <3 | 220 | <0.010 | 0.060 |
| | 19 | 12/18/86 | AQUA | | | | <6 | <4 | <1 | <10 | <10 | <10 | <10 | <0.3 | 12 | <8 | 4 | <9 | 52 | <0.010 | <0.010 |
| | 29 | 12/18/86 | AQUA | | | | <3 | <4 | <1 | <10 | <10 | <10 | <9 | 0.4 | <10 | <8 | 4 | <9 | 4 | <0.010 | <0.010 |
| | 11 | 02/12/87 | AQUA | 1450 | | 15 | | | | | <10 | | 13 | | | | | | 40 | | |
| | 12 | 06/05/87 | AQUA | 1150 | 7.57 | 19 | | | | <5* | | | 7* | | | | | | 20* | 0.070 | <0.010 |
| | 28 | 09/04/87 | AQUA | 1100 | 7.44 | 15 | | | | <10* | | | <4* | | | | | | 40* | 0.012 | 0.017 |
| | 27 | 01/15/88 | AQUA | 1700 | 6.92 | 11 | | | | <20* | | | <30* | | | | | | 10* | <0.02 | 0.010 |
| | 12 | 02/09/88 | AQUA | 2100 | 7.62 | 12 | | | | <20* | | | <3* | | | | | | 10* | 0.04 | <0.010 |
| TABLE 3 | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE AND PHENOLS | | | | | | | | | | | | | | | | | | | | | |
| PAGE 18 OF 28 | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCMPX SBIN 011 | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | |
| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | |

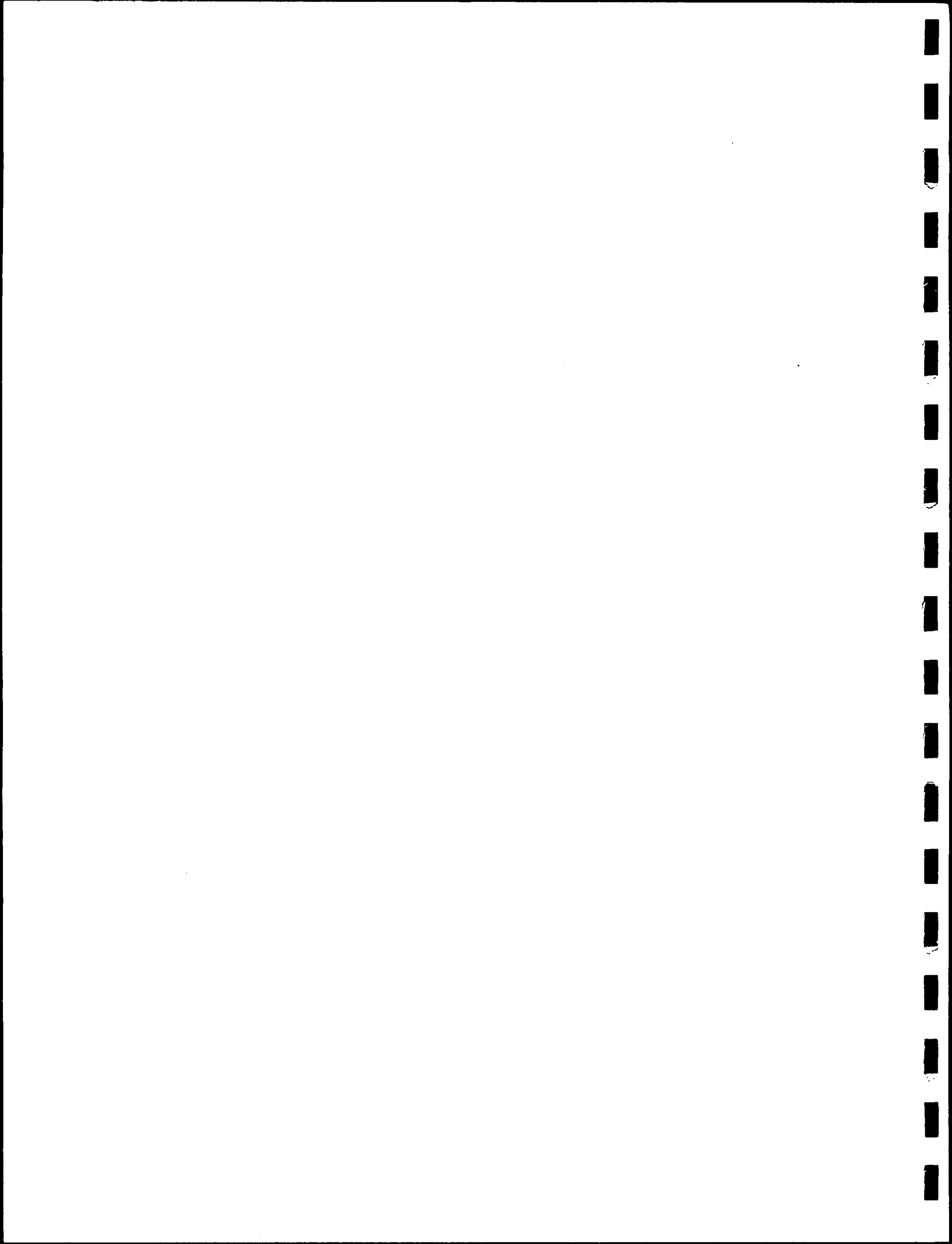
NOTES:

OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.

< = LESS THAN

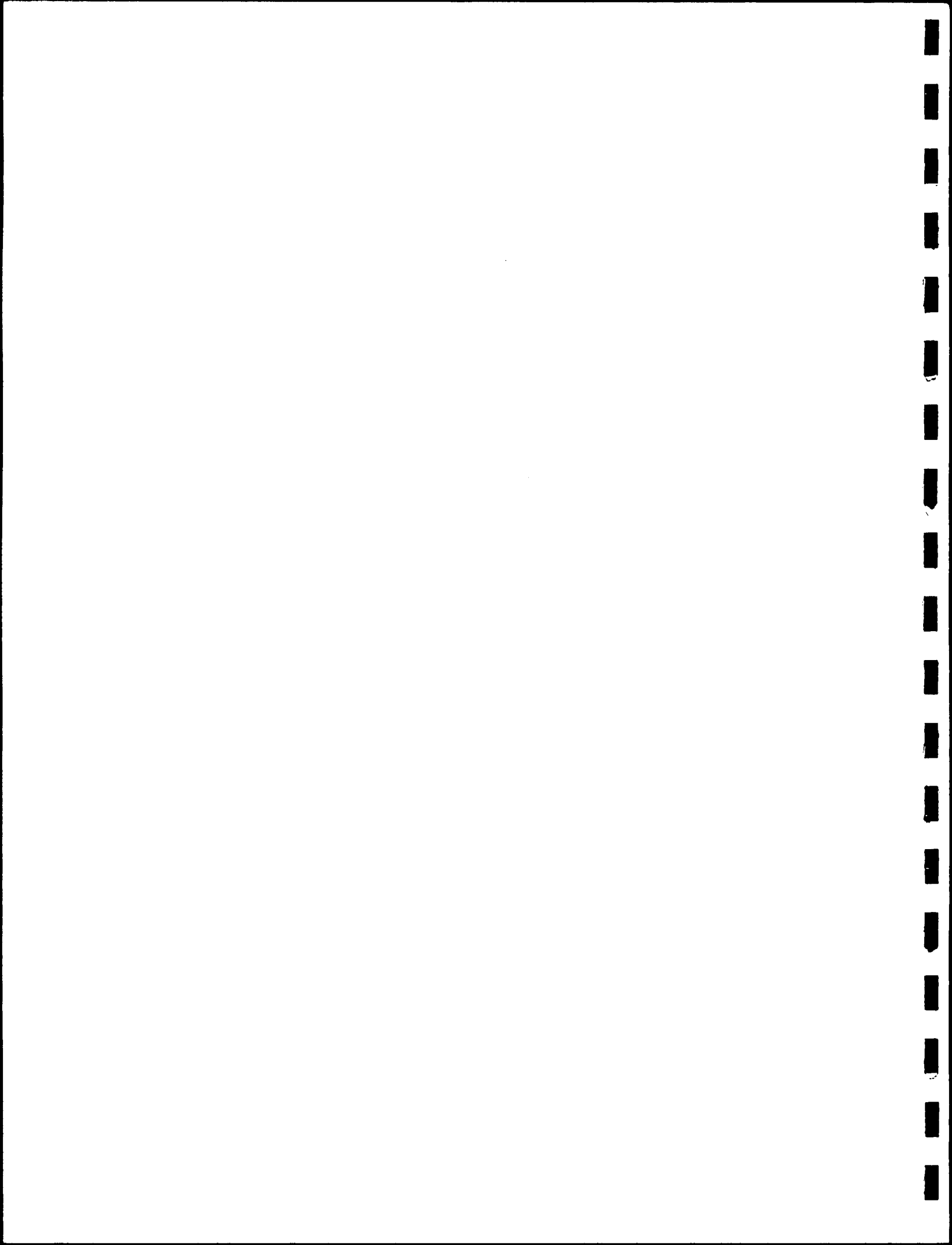
*METAL FILTERED THRU .45 MICRON FILTER

BLANK SPACE INDICATES NOT ANALYZED FOR



S17MCPHU
09-Mar-88

| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L |
|---|----------|----------|------|-------------------------|------|-----------|------------------|-----------------|-------------------|-----------------|------------------|----------------|--------------|-----------------|----------------|------------------|----------------|------------------|--------------|-----------------|-----------------|
| S-17 | 16 | 11/06/86 | AQUA | | | | <3 | <4 | <1 | <10 | 12 | 23 | <0.3 | 20 | <24 | <4 | <3 | 150 | <0.010 | 0.025 | |
| | 15 | 06/05/87 | AQUA | 1350 | 7.55 | 15 | | | | <5* | | <3* | | | | | | | | | |
| | 20 | 09/03/87 | AQUA | 1275 | 7.62 | 15 | | | | <10* | | <3* | | | | | | | 4* | <0.005 | 0.426 |
| | 22 | 01/14/88 | AQUA | 1475 | 6.57 | 13 | | | | <20* | | <20* | | | | | | | 10* | <0.02 | 0.010 |
| | 33 | 02/10/88 | AQUA | 2100 | 7.25 | 12 | | | | 30* | | <3* | | | | | | | <10* | 0.01 | <0.010 |
| <p>NOTES: OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. < = LESS THAN *METAL FILTERED THRU .45 MICRON FILTER BLANK SPACE INDICATES NOT ANALYZED FOR</p> | | | | | | | | | | | | | | | | | | | | | |
| <p>TABLE 3 GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS PAGE 19 OF 28 MONITOR WELLS GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCPX SBIN 011 T A GLEASON ASSOCIATES Environmental and Geotechnical Services</p> | | | | | | | | | | | | | | | | | | | | | |



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTHONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | NOTES |
|--|----------|----------|------|----------------------|------|--------|---------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|---|
| | | | | UNHOS/CM | SU | C | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L | |
| S-20 | 30 | 11/07/86 | AQUA | | | | <3 | <4 | <1 | <1 | 16 | 16 | 25 | <0.3 | <10 | <8 | <4 | <6 | 64 | 0.02 | <0.010 | |
| | 16 | 06/05/87 | AQUA | 1200 | 7.41 | 13 | | | <5* | | | | <3* | | | | | | 10* | 0.026 | <0.010 | *METAL FILTERED THRU .45 MICRON FILTER |
| | 10 | 09/03/87 | AQUA | 1250 | 7.33 | 14 | | | <10* | | | | <3* | | | | | | 12* | <0.005 | 0.011 | |
| | 7 | 01/13/88 | AQUA | 1830 | 6.78 | 12 | | | <20* | | | | <30* | | | | | | 10* | <0.02 | 0.070 | BLANK SPACE INDICATES NOT ANALYZED FOR |
| | 19 | 02/09/88 | AQUA | 3100 | 7.10 | 12 | | | <20* | | | | <3* | | | | | | 10* | <0.01 | 1.48 | |
| ===== | | | | | | | | | | | | | | | | | | | | | | |
| TABLE 3 | | | | | | | | | | | | | | | | | | | | | | |
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| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE | | | | | | | | | | | | | | | | | | | | | | |
| AND PHENOLS | | | | | | | | | | | | | | | | | | | | | | |
| PAGE 20 OF 28 | | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | | |
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| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCHPX SBIN 011 | | | | | | | | | | | | | | | | | | | | | | |
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| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | |
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| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | |



| WELL NO. | SAMPLE # | DATE | LAB | CONDUC- | PH | TEMP | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | NOTES: |
|------------------------------|----------|----------|------|------------|------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|---|
| | | | | (UMHOS/CM) | SU | C | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. |
| S-21 | 17 | 11/06/86 | AQUA | | | | <6 | <4 | <1 | <1 | 20 | 20 | 33 | <0.3 | 20 | <100 | <4 | <3 | 160 | <0.01 | <0.010 | |
| | 17 | 06/05/87 | AQUA | 1150 | 7.80 | 13 | | | | | <5* | | <3* | | | | | | <10* | 0.023 | 0.080 | *METAL FILTERED THRU .45 MICRON FILTER |
| | 18 | 06/05/87 | AQUA | 1150 | 7.80 | 13 | | | | | <5* | | <3* | | | | | | 10* | 0.031 | 0.114 | |
| | 14 | 09/03/87 | AQUA | 1100 | 7.72 | 14 | | | | | <10* | | <3* | | | | | | 4* | <0.005 | <0.010 | BLANK SPACE INDICATES NOT ANALYZED FOR |
| | 11 | 01/14/88 | AQUA | 1450 | 6.53 | 10 | | | | | <20* | | <30* | | | | | | <10* | <0.05 | 0.060 | |
| | 22 | 02/09/88 | AQUA | 2350 | 6.95 | 12 | | | | | 20* | | <3* | | | | | | <10* | <0.01 | 0.055 | |
| ===== | | | | | | | | | | | | | | | | | | | | | | |
| TABLE 3 | | | | | | | | | | | | | | | | | | | | | | |
| ===== | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE | | | | | | | | | | | | | | | | | | | | | | |
| AND PHENOLS | | | | | | | | | | | | | | | | | | | | | | |
| PAGE 21 OF 28 | | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | | |
| ===== | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCHPK SBIN 011 | | | | | | | | | | | | | | | | | | | | | | |
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| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | |
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| Environmental and | | | | | | | | | | | | | | | | | | | | | | |
| Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | |
| ===== | | | | | | | | | | | | | | | | | | | | | | |



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L | |
|----------|----------|----------|------|----------------------|------|--------|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|--|
| S-22 | 18 | 11/06/86 | AQUA | | | | <3 | <4 | <1 | <1 | 12 | <4 | 12 | <0.3 | <10 | <40 | 4 | <3 | 28 | <0.01 | <0.010 | |
| | 20 | 06/05/87 | AQUA | 1000 | 7.64 | 13 | | | | | <5* | | <3* | | | | | | 10* | 0.063 | 0.018 | |
| | 12 | 09/03/87 | AQUA | 1050 | 7.51 | 14 | | | | | <10* | | <3* | | | | | | 8* | <0.005 | 0.133 | |
| | 8 | 01/14/88 | AQUA | 1180 | 6.79 | 9 | | | | | <20* | | <30* | | | | | | 10* | <0.02 | 0.030 | |
| | 23 | 02/09/88 | AQUA | 2000 | 6.49 | 12 | | | | | <20* | | <3* | | | | | | <10* | <0.01 | 0.024 | |
| | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | |

TABLE 3

GROUNDWATER QUALITY ANALYSIS
 METALS, CYANIDE
 AND PHENOLS
 PAGE 22 OF 28
 MONITOR WELLS
 GROUNDWATER INVESTIGATIONS
 ALLIED CORPORATION
 SOUTH BEND, INDIANA
 PROJECT ALCHPX SBIN 011
 T A GLEASON ASSOCIATES
 Environmental and
 Geotechnical Services

NOTES:
 OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.
 < = LESS THAN

*METAL FILTERED THRU .45 MICRON FILTER
 BLANK SPACE INDICATES NOT ANALYZED FOR



S23MCPHU
09-Mar-88

| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | NOTES: | |
|---|----------|----------|------|----------------------|------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|--------|--|
| | | | | UMHOS/CM | SU | C | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. < = LESS THAN |
| S-23 | 19 | 11/06/86 | AQUA | | | | <3 | <4 | <1 | 1 | 12 | 8 | 34 | <0.3 | <10 | <16 | 4 | <3 | 120 | <0.01 | <0.010 | | *METAL FILTERED THRU .45 MICRON FILTER |
| | 21 | 06/05/87 | AQUA | 1000 | 7.59 | 13 | | | | | <5* | | <3* | | | | | | 10* | 0.032 | 0.242 | | |
| | 13 | 09/03/87 | AQUA | 1000 | 7.27 | 14 | | | | | <10* | | <3* | | | | | | 8* | 0.009 | 0.640 | | |
| | 9 | 01/13/88 | AQUA | 1175 | 6.89 | 11 | | | | | <20* | | <30* | | | | | | 10* | <0.02 | <0.010 | | BLANK SPACE INDICATES NOT ANALYZED FOR |
| | 24 | 02/09/88 | AQUA | 2050 | 7.31 | 12 | | | | | <20* | | <3* | | | | | | <10* | 0.01 | 0.108 | | |
| TABLE 3 | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE | | | | | | | | | | | | | | | | | | | | | | | |
| AND PHENOLS | | | | | | | | | | | | | | | | | | | | | | | |
| PAGE 23 OF 28 | | | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCHPX SBIN 011 | | | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | | |
| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | | |



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS |
|--|----------|----------|------|----------------------|------|--------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|
| | | | | UMHOS/CM | SU | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L |
| S-24 | 25 | 09/04/87 | AQUA | 1350 | 6.96 | 14 | <10* | | | | | | 25* | | | | | | 88* | <0.005 | 0.017 |
| NOTES: OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. < = LESS THAN *METAL FILTERED THRU .45 MICRON FILTER BLANK SPACE INDICATES NOT ANALYZED FOR | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS PAGE 24 OF 28 MONITOR WELLS GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCHPX SBIN 011 T A GLEASON ASSOCIATES Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | |



S25MCPHW
09-Mar-88

| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE UG/L | PHENOLS UG/L |
|--|----------|----------|------|----------------------|------|--------|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|
| S-25 | 11 | 09/03/87 | AQUA | 1100 | 7.17 | 16 | | | | | <10* | | <3* | | | | | | 12* | <0.005 | <0.010 |
| | 32 | 01/15/88 | AQUA | 1660 | 6.87 | 13 | | | | <20* | | | <30* | | | | | | 10* | <0.02 | 0.060 |
| | 20 | 02/09/88 | AQUA | 2600 | 7.15 | 11 | | | | <20* | | | <3* | | | | | | 10* | <0.01 | 0.122 |
| NOTES: OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. < = LESS THAN *METAL FILTERED THRU .45 MICRON FILTER BLANK SPACE INDICATES NOT ANALYZED FOR | | | | | | | | | | | | | | | | | | | | | |
| TABLE 3 | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE AND PHENOLS | | | | | | | | | | | | | | | | | | | | | |
| PAGE 25 OF 28 | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCPX S81N 011 | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | |
| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | |



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTHONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | |
|--|----------|----------|------|----------------------|------|--------|---------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|------|
| | | | | UMHOS/CM | SU | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L | MG/L |
| S-26 | 16 | 09/03/87 | AQUA | 1100 | 7.22 | 16 | | | | | <10* | | <3* | | | | | | 4* | <0.005 | <0.010 | |
| | 31 | 01/15/88 | AQUA | 2200 | 7.03 | 14 | | | | <20* | | | <30* | | | | | | 10* | <0.02 | 0.130 | |
| | 18 | 02/09/88 | AQUA | 3100 | 6.80 | 12 | | | | <20* | | | <3* | | | | | | 20* | <0.01 | 0.106 | |
| NOTES: OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. < = LESS THAN *METAL FILTERED THRU .45 MICRON FILTER BLANK SPACE INDICATES NOT ANALYZED FOR | | | | | | | | | | | | | | | | | | | | | | |
| TABLE 3 | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE AND PHENOLS | | | | | | | | | | | | | | | | | | | | | | |
| PAGE 26 OF 28 | | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCPX SBIN 011 | | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | |
| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | |



SZ7MCPHW
09-Mar-88

| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | SU | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | NOTES: | |
|----------|----------|----------|------|----------------------|------|--------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|--------|---|
| | | | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L | |
| S-27 | 26 | 09/04/87 | AQUA | 1350 | 6.97 | 14 | | | | <10* | | | | 4* | | | | | | | | | | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. |
| | 33 | 01/15/88 | AQUA | 1530 | 6.98 | 11 | | | | <20 | | | | <30 | | | | | | | | | | < = LESS THAN |
| | 32 | 02/10/88 | AQUA | 2600 | 7.20 | 12 | | | | <20* | | | | <3* | | | | | | | | | | *METAL FILTERED THRU .45 MICRON FILTER |
| | | | | | | | | | | | | | | | | | | | | | | | | BLANK SPACE INDICATES NOT ANALYZED FOR |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | TABLE 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | GROUNDWATER QUALITY ANALYSIS |
| | | | | | | | | | | | | | | | | | | | | | | | | METALS, CYANIDE AND PHENOLS |
| | | | | | | | | | | | | | | | | | | | | | | | | PAGE 27 OF 28 |
| | | | | | | | | | | | | | | | | | | | | | | | | MONITOR WELLS |
| | | | | | | | | | | | | | | | | | | | | | | | | GROUNDWATER INVESTIGATIONS |
| | | | | | | | | | | | | | | | | | | | | | | | | ALLIED CORPORATION |
| | | | | | | | | | | | | | | | | | | | | | | | | SOUTH BEND, INDIANA |
| | | | | | | | | | | | | | | | | | | | | | | | | PROJECT ALCHPX SBIN 011 |
| | | | | | | | | | | | | | | | | | | | | | | | | T A GLEASON ASSOCIATES |
| | | | | | | | | | | | | | | | | | | | | | | | | Environmental and Geotechnical Services |



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | SU | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | |
|----------|----------|----------|------|----------------------|------|--------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|------|
| | | | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L |
| BLANK | 28 | 11/06/86 | AQUA | <3 | <4 | <1 | <1 | <10 | 88 | <3 | <0.3 | 12 | <4 | <4 | <3 | 4 | <0.01 | 0.023 | | | | | |
| | 25 | 12/18/86 | AQUA | <3 | <4 | <1 | <1 | <10 | 4 | <0.3 | <10 | <4 | <4 | <4 | <3 | 6 | 0.035 | <0.010 | | | | | |
| | 24 | 12/18/86 | AQUA | <3 | <4 | <1 | 5 | <10 | 4 | 0.3 | 4 | <4 | <4 | <4 | <5 | 4 | <0.010 | | | | | | |
| | 12 | 01/08/87 | AQUA | <1 | <4 | <0.4 | <1 | <10 | <4 | <0.3 | <10 | 4 | <4 | <4 | <1 | <4 | | | | | | | |
| | 23 | 02/12/87 | AQUA | | | | | <10 | | <3 | | | | | | 8 | | | | | | | |
| | | 02/12/87 | AQUA | | | | | <10 | | <3 | | | | | | 4 | | | | | | | |
| | 23 | 06/05/87 | AQUA | | | | | <5* | | <3* | | | | | | <10* | 0.029 | <0.010 | | | | | |
| | 36 | 09/04/87 | AQUA | | | | | <10* | | <3* | | | | | | 4 | <0.005 | <0.010 | | | | | |
| | 10 | 01/13/88 | AQUA | | | | | 20* | | <30* | | | | | | 10* | <0.02 | <0.010 | | | | | |
| | 35 | 01/15/88 | AQUA | | | | | <20* | | <30* | | | | | | <10* | <0.02 | <0.010 | | | | | |
| | 34 | 02/10/88 | AQUA | | | | | <20* | | <3* | | | | | | <10* | <0.01 | <0.010 | | | | | |
| | 35 | 02/10/88 | AQUA | | | | | <20* | | <3* | | | | | | <10* | <0.01 | <0.010 | | | | | |

NOTES:

OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.

< = LESS THAN

*METAL FILTERED THRU .45 MICRON FILTER

BLANK SPACE INDICATES NOT ANALYZED FOR

TABLE 3

GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS
PAGE 28 OF 28
MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT ALCMPX SBIN 011

T A GLEASON ASSOCIATES
Environmental and Geotechnical Services



MCPRV1
09-Mar-88

| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP | SU | C | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS |
|--|----------|----------|------|----------------------|------|------|----|---|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|
| | | | | | | | | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L |
| E-3 | 7 | 03/25/87 | AQUA | | | | | | | | | | <20 | | <3 | | | | | | .080 | 0.07 | 0.012 |
| | 19 | 01/14/88 | AQUA | | | | | | | | | | <20 | | <30 | | | | | | 10 | <0.02 | 0.020 |
| | 29 | 02/10/88 | AQUA | 2600 | 7.10 | 16 | | | | | | | <20* | | <3* | | | | | | <10* | <0.01 | <0.010 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| RMB-6 | 10 | 03/25/87 | AQUA | | | | | | | | | | <20 | | <3 | | | | | | 10 | 0.05 | 0.131 |
| | 11 | 03/25/87 | AQUA | | | | | | | | | | <20 | | <3 | | | | | | 10 | 0.05 | <.01 |
| | 16 | 01/14/88 | AQUA | | | | | | | | | | <20 | | <30 | | | | | | 10 | <0.02 | 0.010 |
| | 26 | 02/10/88 | AQUA | 2400 | 7.50 | 13 | | | | | | | 20* | | <3* | | | | | | 20* | <0.01 | <0.010 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS RECOVERY WELLS GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCMPX SBIN 011 T A GLEASON ASSOCIATES Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | | |

TABLE 4

*METAL FILTERED THRU
.45 MICRON FILTER

BLANK SPACE INDICATES
NOT ANALYZED FOR

NOTES:

OUR INTERPRETATIONS OF
THESE DATA ARE LIMITED TO
OUR WRITTEN REPORTS.

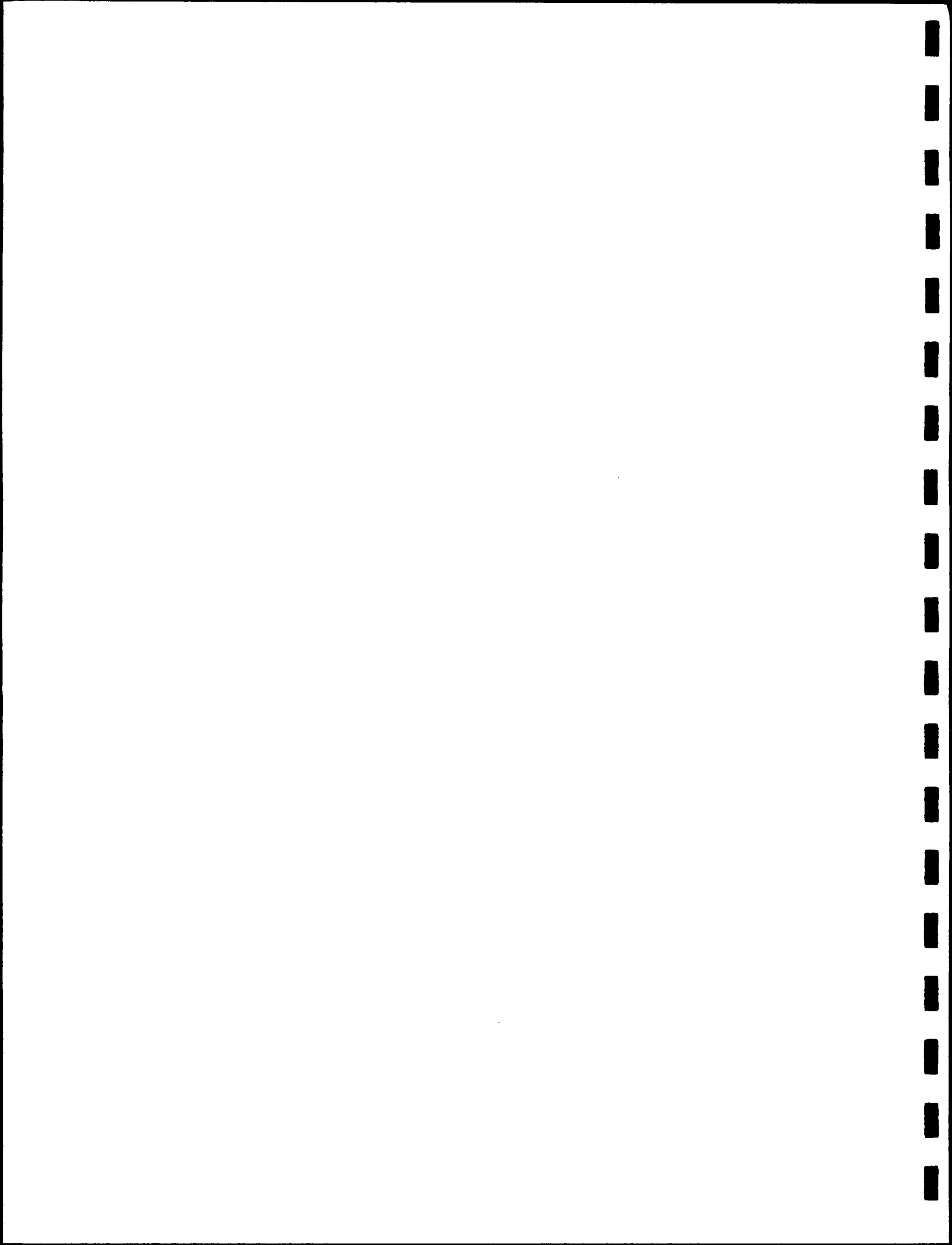
< = LESS THAN

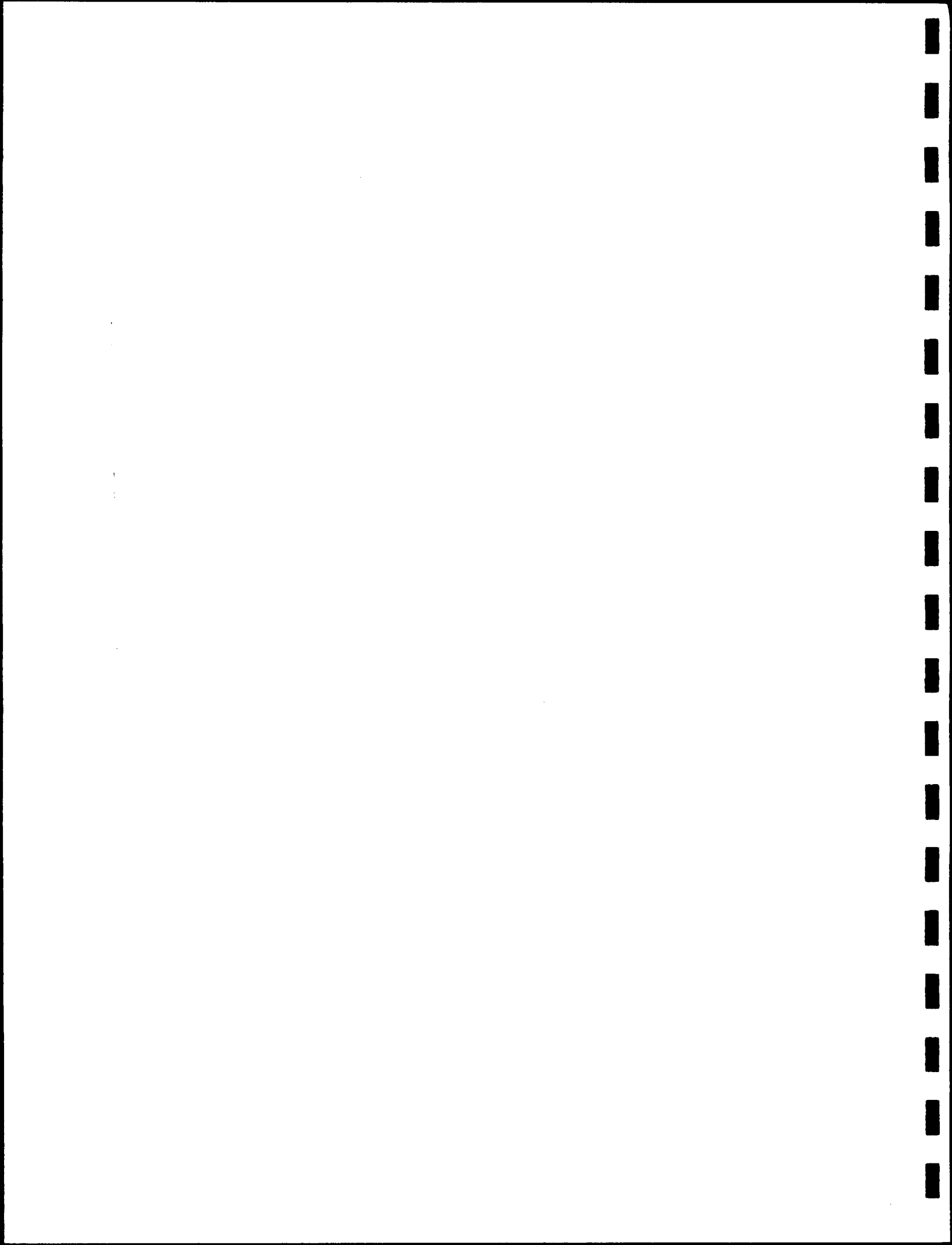


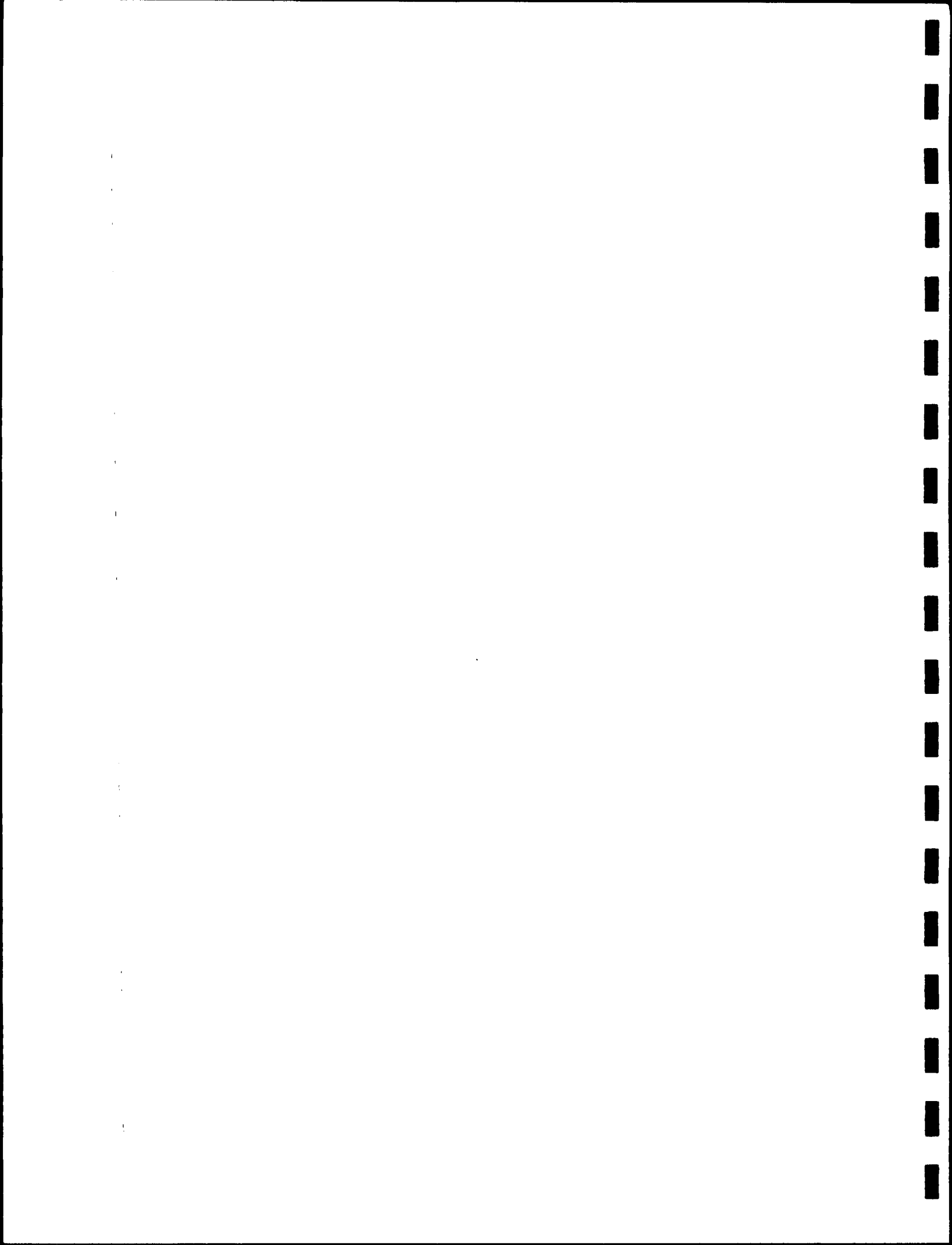
MCPR42
09-Mar-88

| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L | NOTES |
|----------|----------|----------|------|----------------------|------|--------|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|--|
| RUB-16 | 8 | 03/25/87 | AQUA | | | | | | | | <20 | | <3 | | | | | | 10 | 0.07 | 0.017 | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. < = LESS THAN |
| | 20 | 01/14/88 | AQUA | | | | | | | | <20 | | <30 | | | | | | 10 | 0.03 | 0.020 | |
| | 30 | 02/10/88 | AQUA | 2500 | 7.35 | 15 | | | | | <20* | | <3* | | | | | | 20* | 0.02 | <0.010 | |
| | | | | | | | | | | | | | | | | | | | | | | BLANK SPACE INDICATES NOT ANALYZED FOR |
| RUB-21 | 12 | 03/25/87 | AQUA | | | | | | | | <20 | | <3 | | | | | | 10 | 0.05 | 0.015 | *METAL FILTERED THRU .45 MICRON FILTER |
| | 15 | 01/14/88 | AQUA | | | | | | | | <20 | | <30 | | | | | | 10 | <0.02 | 0.010 | |
| | 25 | 02/10/88 | AQUA | 1825 | 7.40 | 12 | | | | | <20* | | <3* | | | | | | <10* | <0.01 | <0.010 | |
| | | | | | | | | | | | | | | | | | | | | | | TABLE 4 |
| | | | | | | | | | | | | | | | | | | | | | | GROUNDWATER QUALITY ANALYSIS |
| | | | | | | | | | | | | | | | | | | | | | | METALS, CYANIDE |
| | | | | | | | | | | | | | | | | | | | | | | AND PHENOLS |
| | | | | | | | | | | | | | | | | | | | | | | PAGE 2 OF 3 |
| | | | | | | | | | | | | | | | | | | | | | | RECOVERY WELLS |
| | | | | | | | | | | | | | | | | | | | | | | GROUNDWATER INVESTIGATIONS |
| | | | | | | | | | | | | | | | | | | | | | | ALLIED CORPORATION |
| | | | | | | | | | | | | | | | | | | | | | | SOUTH BEND, INDIANA |
| | | | | | | | | | | | | | | | | | | | | | | PROJECT ALCMPX SBIN 011 |
| | | | | | | | | | | | | | | | | | | | | | | T A GLEASON ASSOCIATES |
| | | | | | | | | | | | | | | | | | | | | | | Environmental and Geotechnical Services |

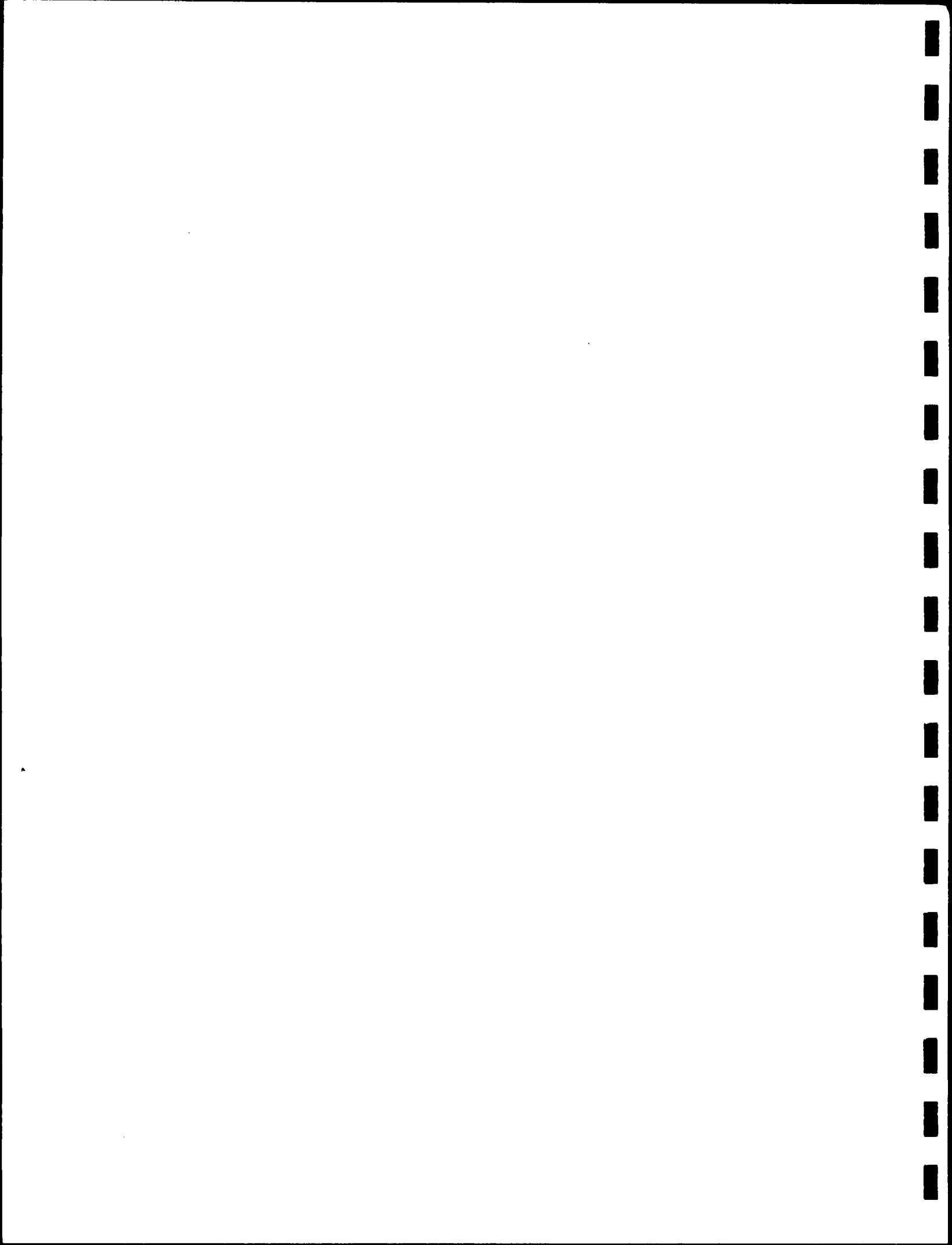






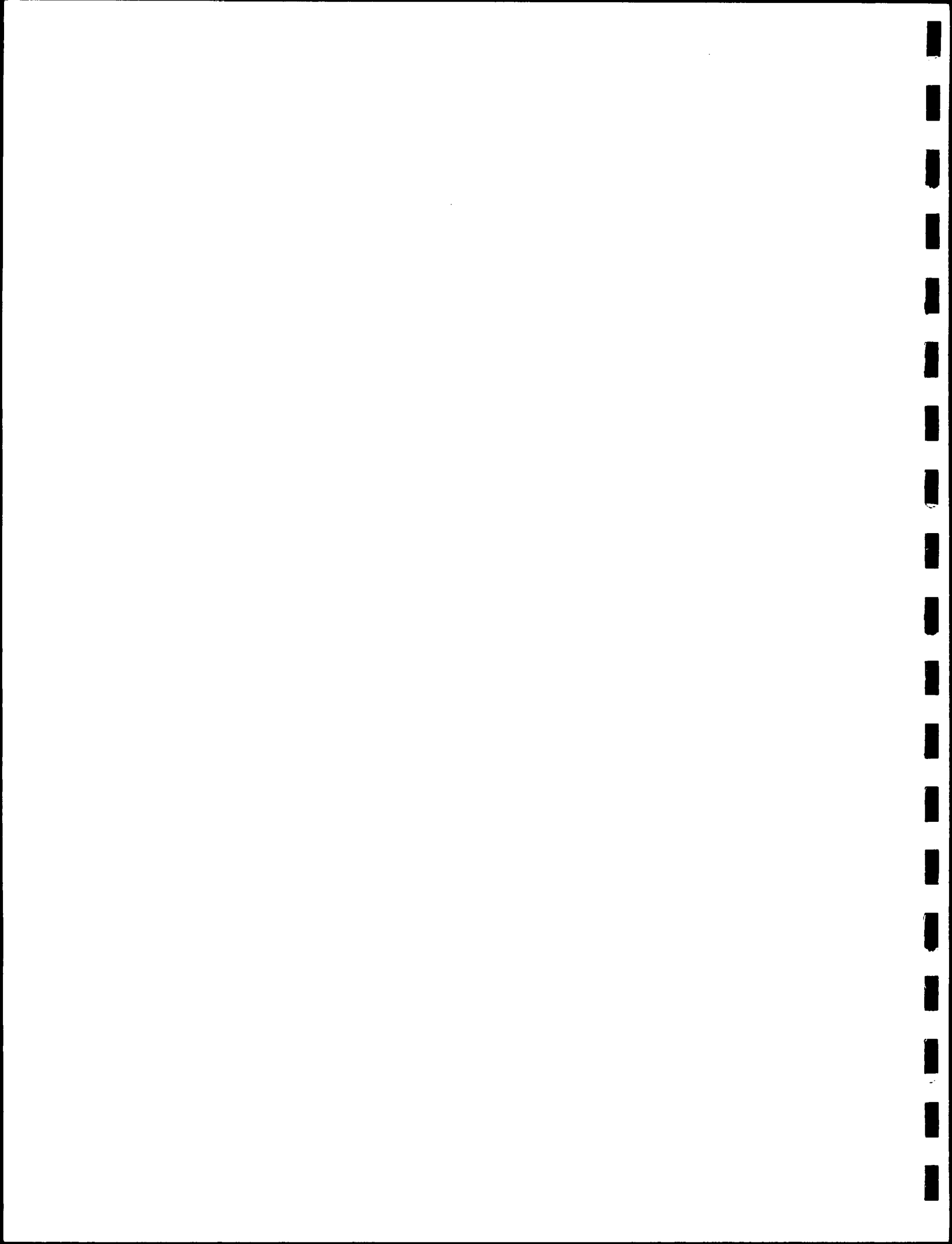






| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | | | NOTES: | | | | | | | | | | | | | | | |
|---|----------|----------|------|--|--------------------------------------|--|-----------------------------------|---------------------------------------|---------------------------------------|------------------------------------|-------------|---------------|----|----|----|----|----|-------------------------|----|--|---|--------|--|-------------------|--|--|--|--|--|--|--|---------|--|---|--|--|--|
| | | | | 1,1-DI- CHLORO- ETHANE UG/L | 1,2-DI- CHLORO- ETHANE UG/L | 1,1,1-DI- CHLORO- ETHANE UG/L | TRI- CHLORO- ETHANE UG/L | 1,2-DI- CHLORO- PROPANE UG/L | 1,2-DI- CHLORO- PROPANE UG/L | TRI- CHLORO- PROPANE UG/L | 3,6 UG/L | 4,2,2 UG/L | ND | ND | ND | ND | ND | ND | ND | BIS (2-ETHYLHEXYL) PHTHALATE UG/L | CIS-1,2- DICHLORO- ETHENE UG/L | | | | | | | | | | | | | | | | |
| S-14 | 11/06/86 | 21 | AQUA | ND | 120 | ND | 42.2 | ND | 3.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | | | | | | | | | | | | VOC RESULTS ARE A SUMMARY OF A GCHS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT. | | | |
| | 02/12/87 | 15 | AQUA | 77 | 217 | 20 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 150 | | | | | | | | | | | | | | | |
| | 06/05/87 | 5 | AQUA | 58 | 180 | ND | 12 | ND | 8.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 120 | | | | | | | | | | | | | | | |
| | 09/03/87 | 7 | AQUA | ND | 140 | ND | ND | ND | 8.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 240 | | | | | | | | | | | | | | | |
| | 01/14/88 | 23 | AQUA | 113 | 108 | 15 | ND | 21 | 14 | ND | 55 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 250 | | | | | | | | | | | | | | | |
| | 02/08/88 | 5 | AQUA | 120 | 115 | ND | 16 | 15 | 11 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | | | | ORGANIC COMPOUNDS | | | | | | | | TABLE 5 | | | | | |
| PAGE 28 OF 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT # ALCPX SBIN 011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |





| WELL NO. | DATE | SAMPLE # | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | OTHER ORGANIC COMPOUNDS | | | | | NOTES |
|----------|----------|----------|--|--------------------------------|------------------------------|--------------------------------|-------------------------------|-------------------|------|-------------------------|-----------------|------------------------------------|------------------|----------------------------------|--|
| | | | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHYLENE | 1,1-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHYLENE | 1,2-DI- CHLORO- PROPANE | VINYL CHLORIDE | FORM | TOLUENE COMPOUNDS | BASE NEUTRAL | BIS (2-ETHYLHEXYL) PHTHALATE | ACID FRACTION | (CIS-1,2- DICHLORO) ETHENE | |
| | | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | |
| S-16 | 11/16/86 | 11 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 6.1 | ND | FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT. |
| | 12/18/86 | 19 | ND | ND | 22.5 | 70.1 | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 12/18/86 | 29 | ND | ND | ND | 21.5 | 63.8 | ND | ND | ND | ND | ND | ND | ND | |
| | 02/12/87 | 11 | ND | ND | 4.4 | 23.3 | 95 | ND | ND | ND | ND | ND | ND | ND | |
| | 06/05/87 | 12 | ND | ND | 5.6 | 18 | 57 | ND | ND | ND | ND | ND | 5.6 | ND | |
| | 09/04/87 | 28 | ND | ND | ND | ND | 65 | ND | ND | ND | ND | ND | ND | ND | |
| | 01/15/88 | 27 | ND | ND | ND | 15 | 58 | ND | ND | ND | ND | ND | ND | ND | |
| | 02/09/88 | 12 | ND | ND | ND | 13.5 | 53 | ND | ND | ND | ND | ND | ND | ND | |

TABLE 5

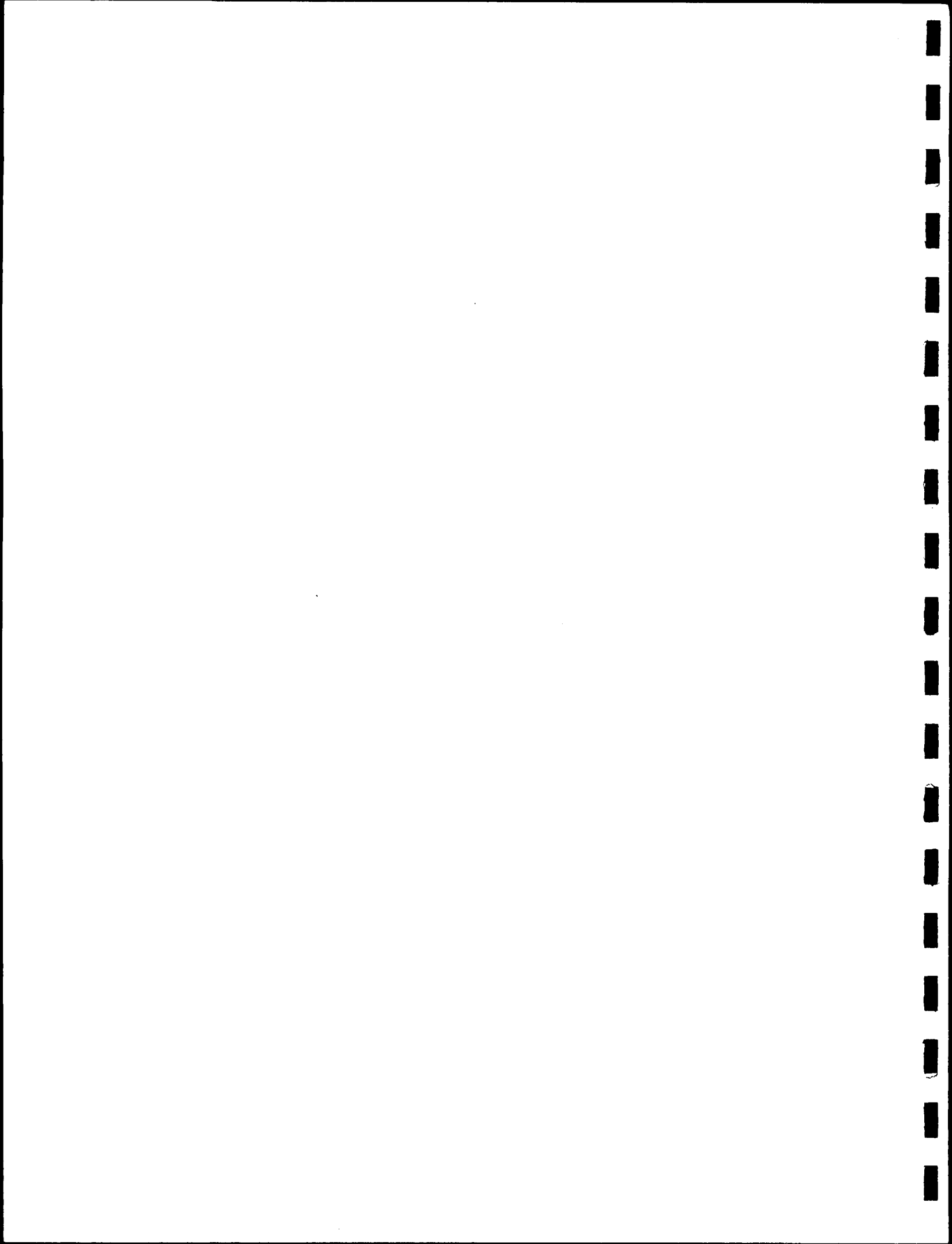
GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
PAGE 30 OF 42
MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCMPX SBIN 011

T A GLEASON ASSOCIATES
Environmental and Geotechnical Services



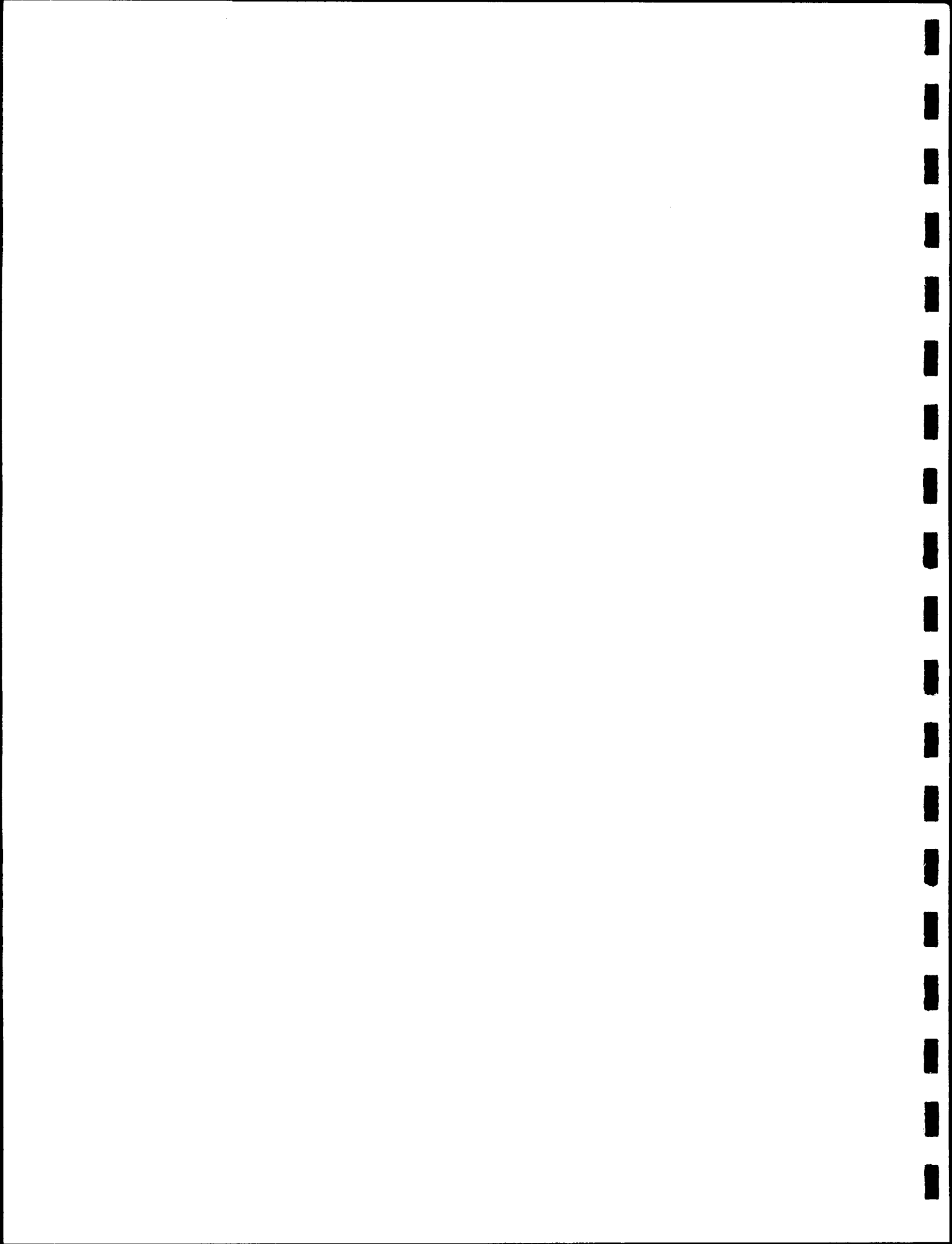
| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | | | NOTES: | | | | | | | | | | |
|--|----------|----------|------|--|------------------------------|-------------------------------------|------------------------------------|------------------------------|---|---|------------------------------|-------------------------------------|------------------------------|---|------------------------------|-------------------------------------|------------------------------------|---------------------------------|----|----|--------|----|----|----|----|----|----|----|----|----|--|
| | | | | 1,1-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,1,1- TRI- CHLORO- ETHANE | 1,1,2- DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,1,1,2- TETRA- CHLORO- ETHANE | 1,1,1,2- TETRA- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,1,2- TRI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,1,1,2- TETRA- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,1,2- TRI- CHLORO- ETHANE | BIS (2-ETHYLHEXYL) PHTHALATE | CIS-1,2- DICHLORO- ETHENE | | | | | | | | | | | | | |
| S-17 | 11/16/86 | 16 | AQUA | 4.3 | ND | 1.5 | ND | 12.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT. |
| | 01/07/87 | 4 | AQUA | ND | ND | ND | ND | 94.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 02/12/87 | 3 | AQUA | ND | ND | ND | 7.9 | ND | 116 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 06/05/87 | 15 | AQUA | ND | ND | ND | ND | 80 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 09/03/87 | 20 | AQUA | ND | ND | ND | ND | 86 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 01/14/88 | 22 | AQUA | ND | ND | ND | ND | 68 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 02/10/88 | 33 | AQUA | ND | ND | ND | ND | 75 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| TABLE 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS ORGANIC COMPOUNDS PAGE 31 OF 42 MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT # ALCHPX SBIN 011 T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |







| PRIORITY POLLUTANTS | | VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | OTHER ORGANIC COMPOUNDS | | | | | | | | |
|---|----------|----------------------------------|------|------------------------------|----------|--------|----------|-------------------------|----------|--------|----------|--------|----------|--------|----------|--------|
| WELL NO. | DATE | SAMPLE # | LAB | 1,1-DI-1,2-DI-1,1-DI-1,1-DI- | ETHYLENE | ETHANE | ETHYLENE | ETHANE | ETHYLENE | ETHANE | ETHYLENE | ETHANE | ETHYLENE | ETHANE | ETHYLENE | ETHANE |
| UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| S-20 | 11/07/86 | 30 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 02/12/87 | 9 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 06/05/87 | 16 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 09/03/87 | 10 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 01/13/88 | 7 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 02/09/88 | 19 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| <p>NOTES: OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS. VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT.</p> | | | | | | | | | | | | | | | | |
| TABLE 5 | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS ORGANIC COMPOUNDS | | | | | | | | | | | | | | | | |
| PAGE 34 OF 42 MONITOR WELLS | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT # ALCMPX S81N 011 T A GLEASON ASSOCIATES Environmental and Geotechnical Services | | | | | | | | | | | | | | | | |



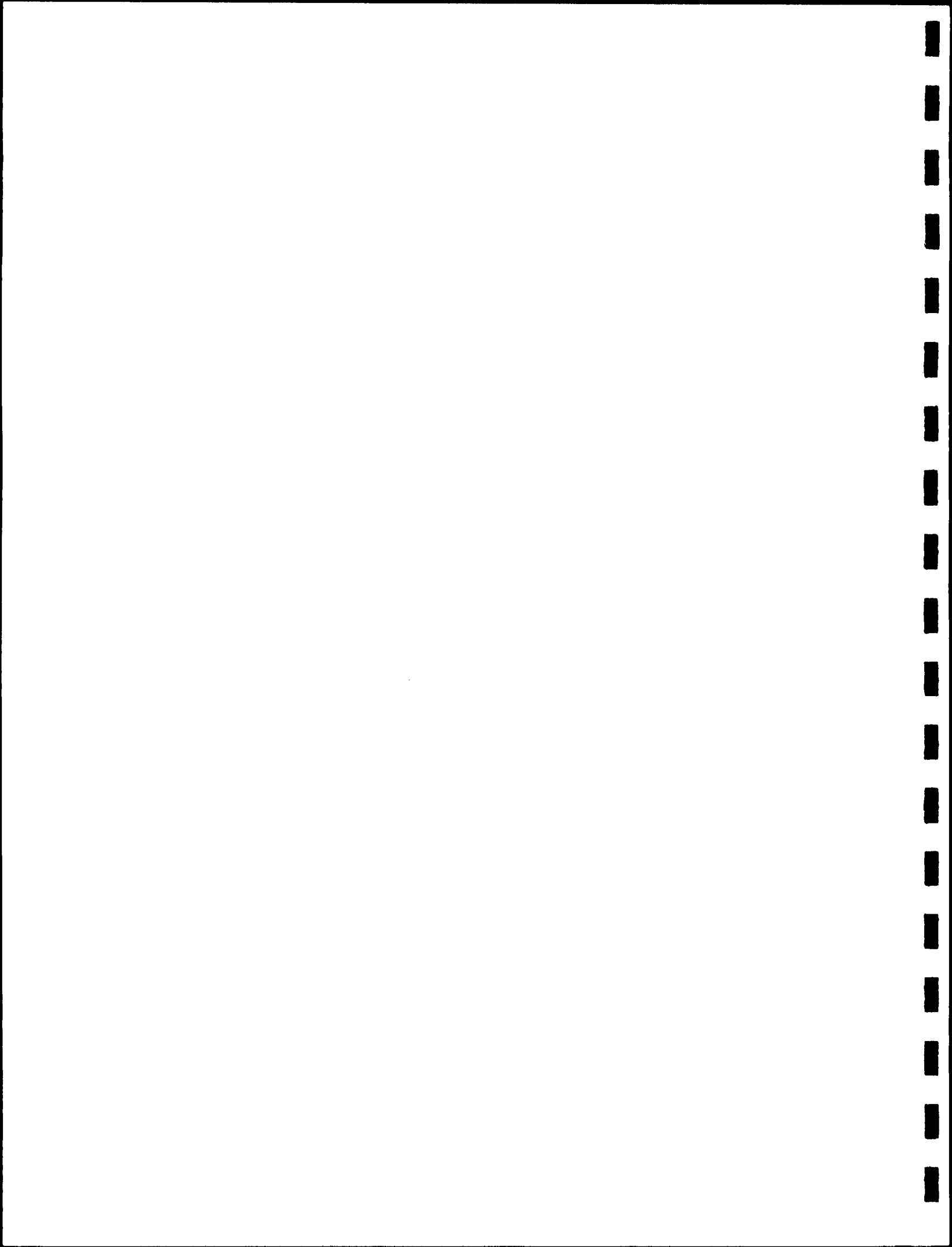
| PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | OTHER ORGANIC COMPOUNDS | | | | | | | | | | | | | | | |
|--|----------|----------|-------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------------|--------------------------------|-------------------|-------------------|---------|------------------------------------|---------|-------------------------------|----|
| WELL NO. | DATE | SAMPLE # | LAB | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,1,1- TRI- CHLORO- ETHANE | 1,1,2-DI- CHLORO- ETHANE | VINYL CHLORIDE | FORM PHthalate | TOLUENE | BIS (2-ETHYLHEXYL) PHthalate | STYRENE | OTHER ORGANIC COMPOUNDS | |
| S-21 | 11/06/86 | 17 | AQUA | ND | ND | 116 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 12/17/86 | 13 | AQUA | ND | ND | 69.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 10/21/87 | 5 | AQUA | ND | ND | 88.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 10/05/87 | 17 | AQUA | ND | ND | 30 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 10/05/87 | 18 | AQUA | ND | ND | 34 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 10/03/87 | 14 | AQUA | ND | ND | 13 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 10/14/88 | 11 | AQUA | ND | ND | 20.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 10/29/88 | 22 | AQUA | ND | ND | 33 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

NOTES:
OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.
ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS.

IVOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT.

TABLE 5

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
PAGE 35 OF 42
MONITOR WELLS
GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCMPX SBIT 011
T A GLEASON ASSOCIATES
Environmental and Geotechnical Services



S220CHU
08-Apr-88

| | | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | NOTES: | |
|--|----------|--|------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------------|---------------------------------|--------|---|
| WELL NO. | DATE | SAMPLE # | LAB | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | BIS (2-ETHYLHEXYL) PHTHALATE | CIS-1,2- DICHLORO- ETHENE | | |
| S-22 | 11/06/86 | 18 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. |
| | 01/07/87 | 6 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 50 | | |
| | 01/07/87 | 7 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 50 | | |
| | 02/12/87 | 6 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | |
| | 02/12/87 | 7 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | |
| | 06/05/87 | 20 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 41 | | |
| | 09/03/87 | 12 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 57 | | |
| | 01/13/88 | 8 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 41.5 | | |
| | 02/09/88 | 23 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 48 | | |
| TABLE 5 | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS ORGANIC COMPOUNDS PAGE 36 OF 42 MONITOR WELLS | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT # ALCMPX SBIN 011 T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | |
| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | |

ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS.

VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT.



S230CHM
08-Apr-88

| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | | | NOTES: | | |
|---|----------|----------|------|--|--------------------------------|--|----------------------------|---------------------------------------|-------------------------------|-------------------|-------------------------------------|---------|------------------------------------|-----------------------------------|-------------------------|-----|---|--|--------|--|--|
| | | | | 1,1-DI- CHLORO- ETHANE | 1,1,2-DI- CHLORO- ETHANE | TRANS-1,2- DI- CHLORO- ETHYLENE | 1,1,1- TRI- ETHYLENE | 1,1,2- TRI- CHLORO- ETHYLENE | 1,2-DI- CHLORO- PROPANE | VINYL CHLORIDE | 1,1,1- TRI- CHLORO- ETHANE | TOLUENE | BIS (2-ETHYLHEXYL) PHTHALATE | CIS-1,2- DICHLORO- ETHYLENE | | | | | | | |
| S-23 | 11/06/86 | 19 | AQUA | ND | ND | ND | ND | 4,5 | ND | ND | ND | ND | ND | ND | ND | 3-4 | VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT. | | | | |
| | 01/07/87 | 8 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | | |
| | 02/11/87 | 8 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | | |
| | 06/05/87 | 21 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | | |
| | 09/03/87 | 13 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | | |
| | 01/13/88 | 9 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | | |
| | 02/09/88 | 24 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | | |
| TABLE 5 | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | |
| ORGANIC COMPOUNDS | | | | | | | | | | | | | | | | | | | | | |
| PAGE 37 OF 42 | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | |
| PROJECT # ALCMPX SBIN 011 | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | |
| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | |



| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | OTHER ORGANIC COMPOUNDS | | | | NOTES: | | |
|----------|----------|----------|------|--|------------------------------|--|------------------------------|---------------------------|--------------------------|---------------------------|--------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|--------|------------------------------|---|
| | | | | 1,1-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | TRANS-1,2- DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | TRI- CHLORO- ETHANE | DI- CHLORO- ETHANE | TRI- CHLORO- ETHANE | DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | | 1,2-DI- CHLORO- ETHANE | |
| S-24 | 07/10/87 | 2 | AQUA | ND | ND | 145 | ND | 150 | ND | ND | ND | ND | ND | ND | 170 | | | | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. |
| | 09/04/87 | 25 | AQUA | ND | ND | 140 | ND | 170 | ND | ND | ND | ND | ND | 150 | | | | | ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS. |
| | | | | | | | | | | | | | | | | | | | VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT. |
| | | | | | | | | | | | | | | | | | | | |

TABLE 5

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
PAGE 38 OF 42
MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCMPX SBIN 011

T A GLEASON ASSOCIATES
Environmental and Geotechnical Services



SZ50CHW
08-Apr-88

| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | | | OTHER ORGANIC COMPOUNDS | NOTES | | | | | | |
|----------|----------|----------|------|--|-----------------------|-------------------|------|------|------|-----|------|---------|---------|-------|---------|------|-------------------------|-------|----------|--------|-------|------|------|------|
| | | | | 1,1-DI-1,1-DI-1,1-DI- | CHLORO-CHLORO-CHLORO- | ETHANE [ETHYLENE] | UG/L | UG/L | UG/L | DI- | TRI- | 1,2 DI- | CHLORO- | VINYL | CHLORO- | FORM | | | ETHYLENE | ETHANE | THENE | UG/L | UG/L | UG/L |
| S-25 | 07/10/87 | 1 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 09/03/87 | 11 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 01/15/88 | 32 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 02/09/88 | 20 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
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TABLE 5
GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
PAGE 39 OF 42
MONITOR WELLS
GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCHPX SBIN 011
T A GLEASON ASSOCIATES
Environmental and Geotechnical Services





| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | OTHER ORGANIC COMPOUNDS | | | | NOTES: | | | | | | | | | | | | |
|----------|----------|----------|------|--|----------------------|-------------------------|------------------------|----------------------|----------------|------|----------------------|----------------------|-------------------------|----------------------|----------------------|----------------------|--------|----------------------|----|----|----|----|----|----|----|----|----|---|---|
| | | | | 1,1-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,1,1-TRI-CHLORO-ETHANE | 1,1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | VINYL CHLORIDE | FORM | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | | 1,2-DI-CHLORO-ETHANE | | | | | | | | | | | |
| 1-0 | 01/08/87 | 13 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 02/12/87 | 1 | AQUA | ND | ND | ND | ND | 19.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. |
| | 06/05/87 | 13 | AQUA | ND | ND | ND | ND | 12 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS. | |
| | 06/04/87 | 22 | AQUA | ND | ND | ND | ND | 29 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT. | |
| | 01/14/88 | 13 | AQUA | ND | ND | ND | ND | 5.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 02/09/88 | 16 | AQUA | ND | ND | ND | ND | 11 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
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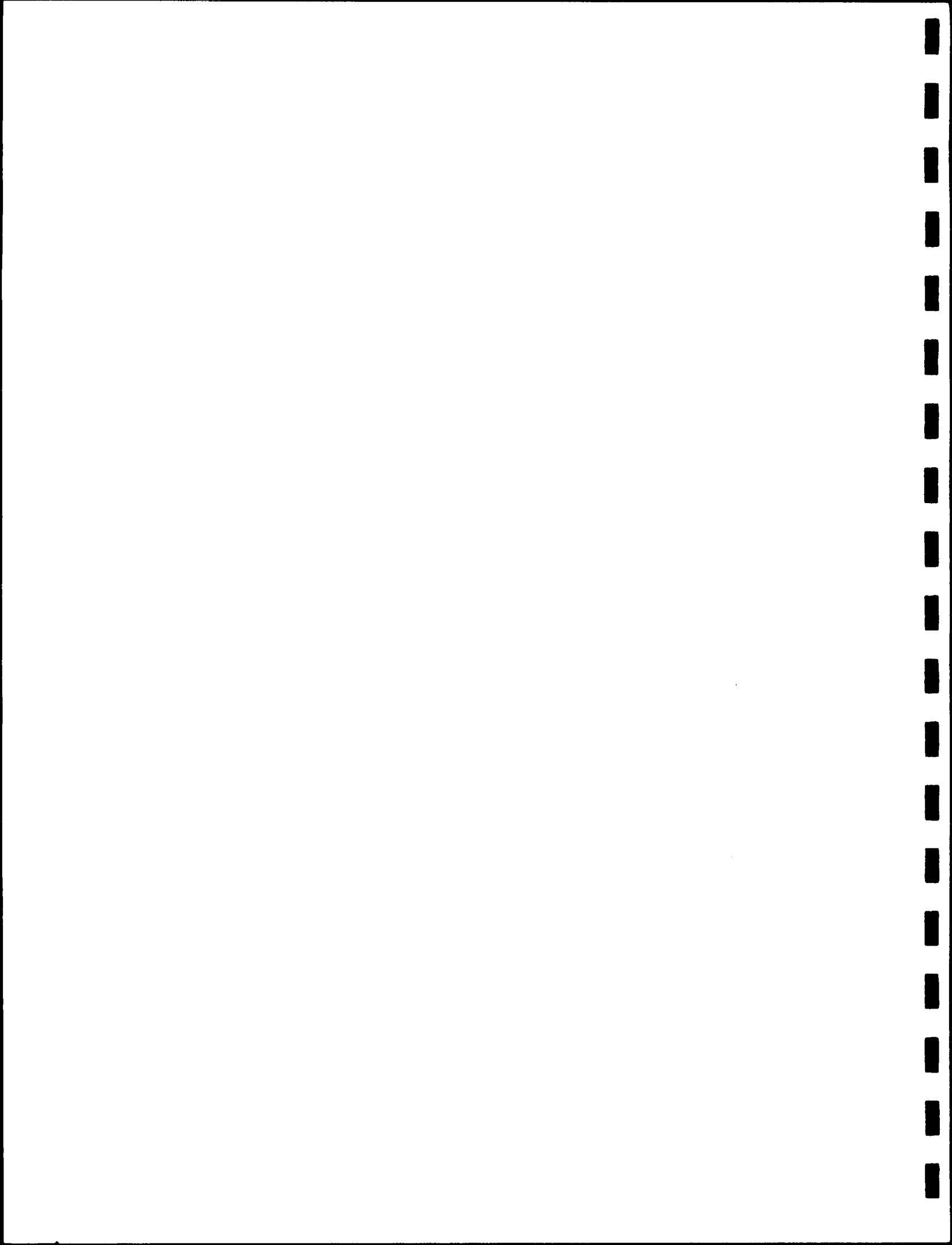
TABLE 5

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
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MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCBPX SBIN 011

T A GLEASON ASSOCIATES

Environmental and Geotechnical Services





| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | | | | | | OTHER ORGANIC COMPOUNDS | NOTES |
|----------|----------|----------|------|--|----------------------------------|------------------------------------|------------------------------------|--------------------------------------|-------------------------------|-------------------------------|----------------------------------|---------------------------------|-------------------|------|------|------|------|------|------|-------------------------|-------|
| | | | | 1,1-DI- [CHLORO-] [ETHANE] | 1,2-DI- [CHLORO-] [ETHANE] | 1,1,1-DI- [CHLORO-] [ETHANE] | 1,1,2-DI- [CHLORO-] [ETHANE] | TRANS-1,2- [DIBROMO-] [ETHANE] | TRI- [CHLORO-] [ETHANE] | TRI- [CHLORO-] [ETHANE] | 1,2-DI- [CHLORO-] [ETHANE] | CHLORO- [VINYL] [TOLUENE] | CHLORO- [FORM] | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | | |
| 3-0 | 12/18/86 | 3 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 8.9 | | | | | |
| | 02/12/87 | 10 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | | | |
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TABLE 5

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
PAGE 3 OF 42
MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCPX SBIN 011

T A GLEASON ASSOCIATES
Environmental and Geotechnical Services



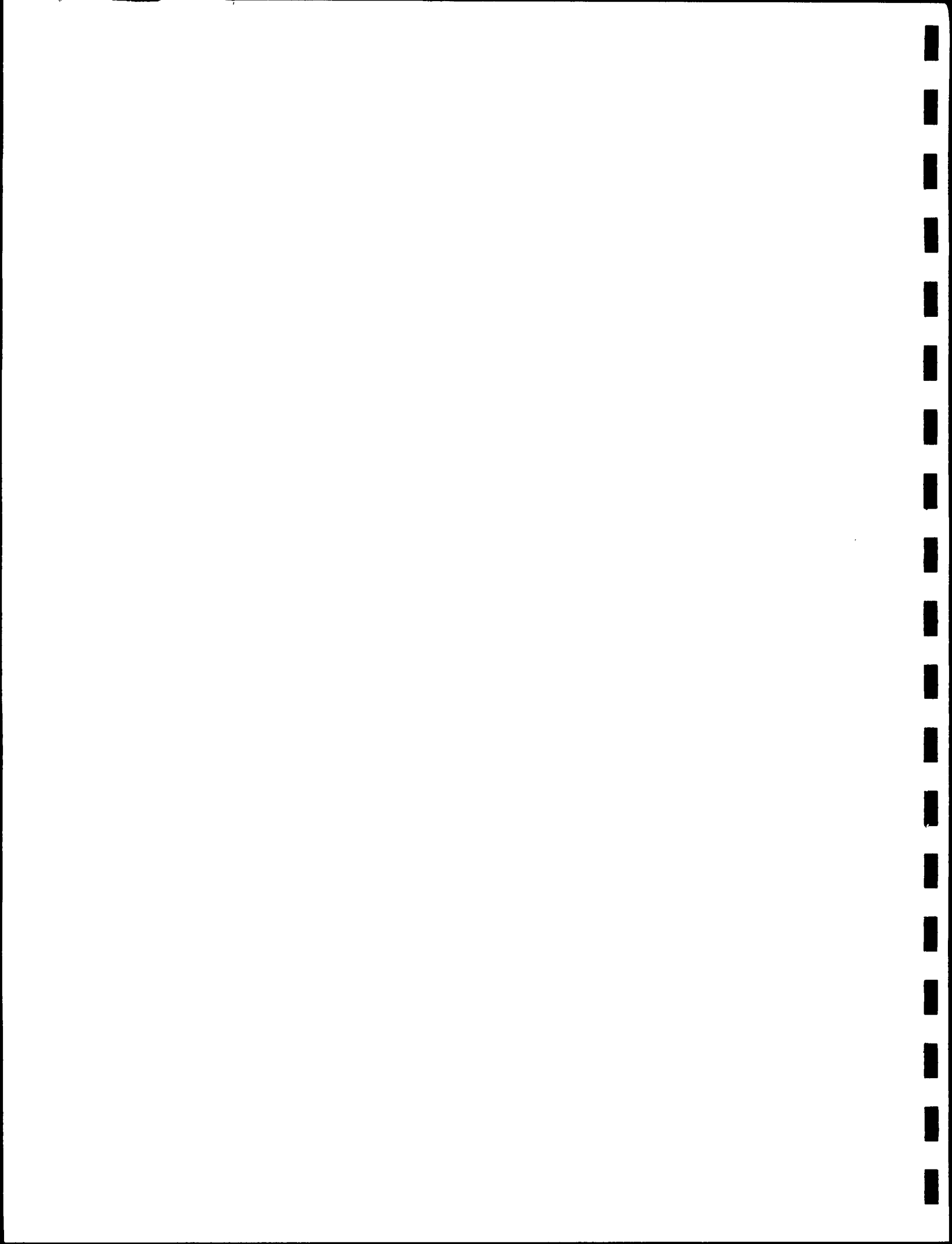
| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY | | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | NOTES | | | | | | | |
|----------|----------|----------|------|------------------------------|------------------------------|--------------------|------|------|-------------------------------------|------|-------------------------------|------|-------------------|------|-------------------------|------|-------|------|------|------|--------------------------------|----|--|---|
| | | | | 1,1-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | ETHYLENE ETHANE | UG/L | UG/L | 1,1,1- TRI- CHLORO- ETHANE | UG/L | 1,2 DI- CHLORO- PROPANE | UG/L | VINYL CHLORIDE | UG/L | FORM TOLUENE | UG/L | | UG/L | UG/L | UG/L | CIS-1,2- DICHORO- ETHENE | | | |
| 4-D | 10/14/86 | 31 | AQUA | ND | ND | ND | 11.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | NOTES: OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS. |
| | 01/07/87 | 5 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | **NOTE: TOLUENE WAS NOT DETECTED IN 6 PREVIOUS SAMPLINGS. A RESAMPLING C 3/14/88 DETECTED NO TOLUENE. BASED ON PREVIOUS DATA & THE RETEST, WE CONCLUDE THAT THE 2/9/88 SAMPLING DATA IS AN ANOMOLY. |
| | 02/11/87 | 2 | AQUA | ND | ND | ND | 1.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 06/05/87 | 14 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 09/04/87 | 21 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 01/14/88 | 21 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 02/09/88 | 17 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 03/14/88 | 1 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |

TABLE 5
GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
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MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCHPX SBIN 011
T A GLEASON ASSOCIATES
Environmental and Geotechnical Services







7DOCHW
08-Apr-88

| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | OTHER ORGANIC COMPOUNDS | | | NOTES: | | |
|----------|----------|----------|------|--|----------------------------------|----------------------------------|-----------------------------|-----------------------------|-----------------------------|--------|-----|--|
| | | | | TRANS-1,2-DI- CHLORO-ETHANE UG/L | 1,1-DI- CHLORO-ETHANE UG/L | 1,1-DI- CHLORO-ETHANE UG/L | TRICHO- ETHYLENE UG/L | TRICHO- ETHYLENE UG/L | TRICHO- ETHYLENE UG/L | | | |
| 7-0 | 07/10/87 | 3 | AQUA | ND | ND | 17 | ND | 19 | ND | ND | 250 | |
| | 07/10/87 | 4 | AQUA | ND | ND | 16 | ND | 17 | ND | ND | 250 | |
| | 09/04/87 | 29 | AQUA | ND | ND | ND | 20 | 14 | ND | ND | 220 | |
| | 01/15/88 | 30 | AQUA | ND | ND | 10 | ND | 17 | ND | ND | 142 | |
| | 02/09/88 | 15 | AQUA | ND | ND | 20 | ND | 14 | ND | ND | 148 | |
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TABLE 5

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
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MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCHPX SBIN 011

T A GLEASON ASSOCIATES

Environmental and Geotechnical Services



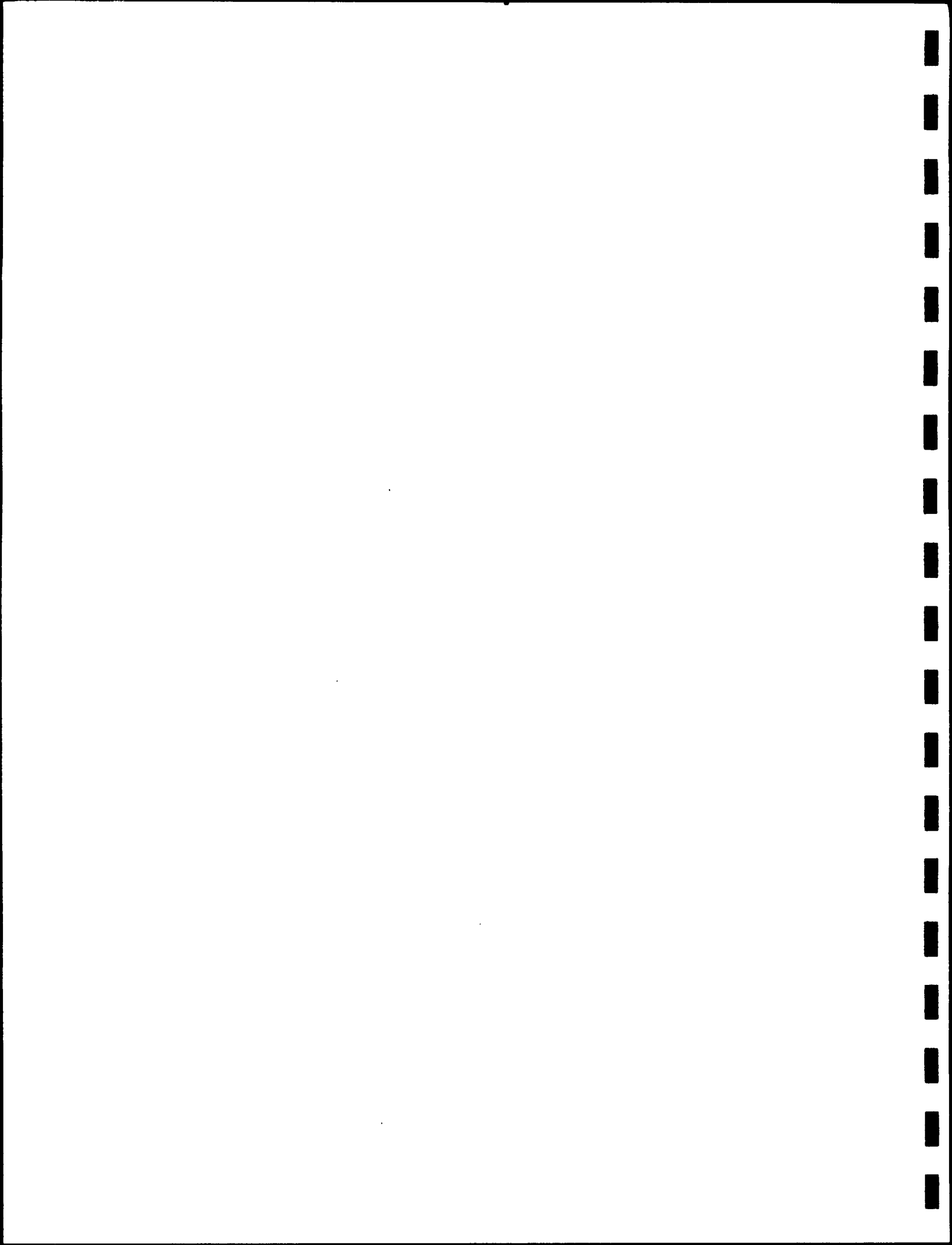
| WELL NO. | DATE | SAMPLE # | LAB | OTHER ORGANIC COMPOUNDS | | | | | | | | | | | | | | | NOTES | | | | | |
|----------|-----------|----------|------|------------------------------|------------------------------|-------------------------------------|---------------------------------------|-------------------------------|--------------------------------|----------------------------|-----------------------------|---------------------------------|-----------------|-------------------|------|------|------|------|-------|------|------|------|--|---|
| | | | | 1,1-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,1,1- TRI- CHLORO- ETHANE | 1,1,1,1- TRI- CHLORO- ETHANE | 1,2-DI- CHLORO- PROPANE | 1,2-DI- CHLORO- ETHYLENE | DI- CHLORO- ETHYLENE | DI-N- OCTYL PHTHALATE | CIS-1,2- DICHLORO- ETHENE | CHLORO- FORM | VINYL CHLORIDE | UG/L | UG/L | UG/L | UG/L | | UG/L | UG/L | UG/L | | |
| 7-25 | 11/07/86 | 31 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS. |
| | 106/05/87 | 2 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | IVOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT. |
| | 109/06/87 | 2 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 101/13/88 | 2 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 102/08/88 | 2 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
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TABLE 5

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
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MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCMPX SBIN 011

T A GLEASON ASSOCIATES
Environmental and Geotechnical Services



7500CHW
08-Apr-88

| | | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | OTHER ORGANIC COMPOUNDS | | NOTES: | | | | | | | | | | | | |
|----------|----------|--|------|---|---|-----------------|--------|---------------|---------------|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----|----|----|--|--|
| WELL NO. | DATE | SAMPLE # | LAB | TRANS-1,2-DI-1,1-DI-1,1-DI-1,1-DI-1,1-DI-1,1-DI-1,1-DI-1,1-DI-1,1-DI-1,1-DI | TRI-1,2-DI-1,2-DI-1,2-DI-1,2-DI-1,2-DI-1,2-DI-1,2-DI-1,2-DI | CHLORO-ETHYLENE | ETHANE | CHLORO-ETHANE | CHLORO-ETHANE | ETHYLENE | ETHYLENE | ETHYLENE | ETHYLENE | ETHYLENE | ETHYLENE | ETHYLENE | ETHYLENE | ETHYLENE | ETHYLENE | | | | | |
| | | | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | | | | | |
| 7-50 | 11/07/86 | 32 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS.

VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT.

TABLE 5

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
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MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCHPX SBIN 011

T A GLEASON ASSOCIATES
Environmental and Geotechnical Services



800CHW
08-Apr-88

| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | | |
|--|----------|----------|------|--|----------------------------------|------------------------------------|------------------------------------|--|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------|
| | | | | 1,1-DI- [CHLORO-] [ETHANE] | 1,2-DI- [CHLORO-] [ETHANE] | 1,1,1-DI- [CHLORO-] [ETHANE] | 1,1,1-DI- [CHLORO-] [ETHANE] | 1,1,1,1- [TETRACHLORO-] [ETHANE] | 1,1,2-DI- [CHLORO-] [ETHANE] | 1,1,2-DI- [CHLORO-] [ETHANE] | 1,1,2-DI- [CHLORO-] [ETHANE] | 1,1,2-DI- [CHLORO-] [ETHANE] | 1,1,2-DI- [CHLORO-] [ETHANE] | 1,1,2-DI- [CHLORO-] [ETHANE] | 1,1,2-DI- [CHLORO-] [ETHANE] | 1,1,2-DI- [CHLORO-] [ETHANE] | 1,1,2-DI- [CHLORO-] [ETHANE] | 1,1,2-DI- [CHLORO-] [ETHANE] | 1,1,2-DI- [CHLORO-] [ETHANE] | 1,1,2-DI- [CHLORO-] [ETHANE] | 1,1,2-DI- [CHLORO-] [ETHANE] | |
| | | | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| 8-D | 07/10/87 | 5 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 720 | |
| | 09/04/87 | 30 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 900 | |
| | 01/15/88 | 28 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 840 | |
| | 01/15/88 | 29 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 855 | |
| | 02/09/88 | 13 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 770 | |
| | 02/09/88 | 14 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 630 | |
| TABLE 5 | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS ORGANIC COMPOUNDS PAGE 10 OF 42 MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT # ALCPX SBIN 011 T A GLEASON ASSOCIATES Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | |

NOTES:
OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.
ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS.
VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT.











D70CHM
08-Apr-88

| | | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | | | | | |
|----------|----------|--|------|--------------------------------|--------------------------------|-------------------------------------|-------------------------|-------------------------|----------------|--------------|------------------------|------------------------|-------------------------|-----------------|--------|------|--|--|--|
| WELL NO. | DATE | SAMPLE # | LAB | 1,1-DI-1,1,1-TRI-CHLORO-ETHANE | 1,2-DI-1,1,2-TRI-CHLORO-ETHANE | TRANS-1,2-DI-1,1-DI-CHLORO-ETHYLENE | 1,1,1-TRI-CHLORO-ETHANE | 1,1,2-TRI-CHLORO-ETHANE | VINYL CHLORIDE | FORMALDEHYDE | METHYLENE DIISOCYANATE | PERMETHYL METHYL ETHER | DI-N-OCTYL ETHER | DICHLORO-ETHANE | NOTES: | | | | |
| | | | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | | | |
| D-7 | 10/01/86 | 10 | AQUA | ND | 689 | ND | 20.2 | ND | ND | ND | ND | ND | ND | | | | FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT. | | |
| | 11/06/86 | 26 | AQUA | ND | 437 | ND | 15.7 | ND | ND | ND | ND | ND | ND | | | | | | |
| | 10/07/87 | 9 | AQUA | ND | 902 | ND | ND | ND | ND | ND | ND | ND | ND | | | | ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS. | | |
| | 02/12/87 | 14 | AQUA | ND | 812 | ND | 30 | ND | ND | ND | ND | ND | ND | | | | VOC RESULTS ARE A SUMMARY OF A GCMS SCAN | | |
| | 06/05/87 | 9 | AQUA | ND | 890 | ND | ND | ND | ND | ND | ND | ND | ND | | | | FOR PRIORITY POLLUTANT VOLATILE ORGANIC | | |
| | 06/05/87 | 10 | AQUA | ND | 900 | ND | ND | ND | ND | ND | ND | ND | ND | | | | COMPOUNDS FOR EACH LOCATION AND SAMPLING | | |
| | 09/03/87 | 17 | AQUA | ND | 800 | ND | ND | ND | ND | ND | ND | ND | ND | | | | DATE. SEE LAB REPORT. | | |
| | 09/03/87 | 18 | AQUA | ND | 750 | ND | ND | ND | ND | ND | ND | ND | ND | | | | | | |
| | 01/14/88 | 14 | AQUA | ND | 710 | ND | ND | ND | ND | ND | ND | ND | ND | | | | TABLE 5 | | |
| | 02/08/88 | 10 | AQUA | ND | 680 | ND | ND | ND | ND | ND | ND | ND | ND | | | | GROUNDWATER QUALITY ANALYSIS | | |
| | | | | | | | | | | | | | | | | | ORGANIC COMPOUNDS | | |
| | | | | | | | | | | | | | | | | | PAGE 15 OF 42 | | |
| | | | | | | | | | | | | | | | | | MONITOR WELLS | | |
| | | | | | | | | | | | | | | | | | GROUNDWATER INVESTIGATIONS | | |
| | | | | | | | | | | | | | | | | | ALLIED CORPORATION | | |
| | | | | | | | | | | | | | | | | | SOUTH BEND, INDIANA | | |
| | | | | | | | | | | | | | | | | | PROJECT # ALCMPX SBIN 011 | | |
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PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC)

OTHER ORGANIC COMPOUNDS

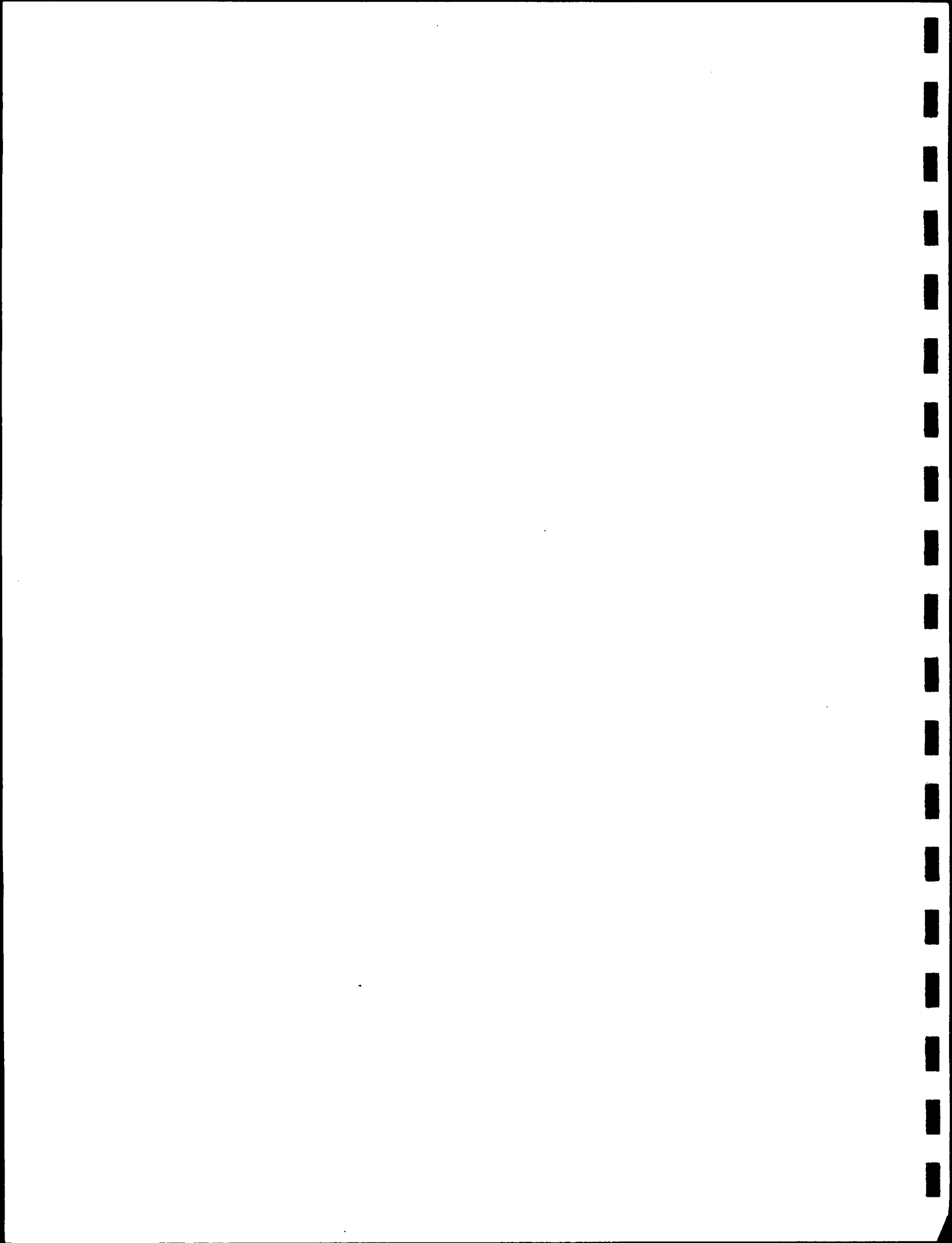
| WELL NO. | DATE | SAMPLE # | LAB | 1,1-DI- [CHLORO-] [ETHANE] | 1,2-DI- [CHLORO-] [ETHANE] | 1,1-DI- [CHLORO-] [ETHANE] | 1,2-DI- [CHLORO-] [ETHANE] | 1,1,1- [TRI-CHLORO-] [ETHANE] | 1,1,2-DI- [TRI-CHLORO-] [ETHANE] | 1,2-DI- [CHLORO-] [PROPANE] | 1,2-DI- [CHLORO-] [PROPANE] | VINYL [CHLORO-] [FORM] | TOLUENE [COMPOUNDS] | PHTHALATE | BASE [NEUTRAL] [COMPOUNDS] | BIS [2-ETHYLHEXYL] [ACID] | CIS-1,2- [DICHLORO-] [ETHENE] | NOTES: |
|----------|----------|----------|------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------------|--|-----------------------------------|-----------------------------------|------------------------------|------------------------|-----------|----------------------------------|---------------------------------|-------------------------------------|--|
| S-1 | 11/05/86 | 1 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 15.6 | ND | FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT. |
| | 12/17/86 | 18 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | 7.0 | 7.0 | ND | ND | | FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT. |
| | 06/05/87 | 1 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | |
| | 09/03/87 | 1 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | |
| | 01/13/88 | 1 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | |
| | 02/08/88 | 1 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | |

VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT.

ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS.

TABLE 5

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
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MONITOR WELLS
GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCHPX SBIN 011
T A GLEASON ASSOCIATES
Environmental and Geotechnical Services





S30CNU
08-Apr-88

| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | | NOTES | | | |
|----------|----------|----------|------|--|-----------------|-----------------|---------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------------|------------------------|-------------------------|-------|-----|----|---|
| | | | | 1,1-DI-CHLOROETHANE | 1,1-DI-ETHYLENE | 1,1-DI-ETHYLENE | 1,2-DI-CHLOROETHANE | 1,2-DI-ETHYLENE | 1,2-DI-ETHYLENE | 1,2-DI-ETHYLENE | 1,2-DI-ETHYLENE | 1,2-DI-ETHYLENE | 1,2-DI-ETHYLENE | 1,2-DI-ETHYLENE | 1,2-DI-ETHYLENE | 1,2-DI-ETHYLENE | BIS-PHTHALATE | CIS-1,2-DICHLOROETHENE | OTHER ORGANIC COMPOUNDS | | | | |
| S-3 | 11/05/86 | 9 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.6 | ND | VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT. |
| | 06/05/87 | 4 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 09/03/87 | 4 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 01/14/88 | 26 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 02/08/88 | 3 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | | | | | | | | | | | | | | | | | | | | | | | |
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TABLE 5

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
PAGE 21 OF 42
MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCMPX SBIN 011

T A GLEASON ASSOCIATES
Environmental and Geotechnical Services



| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | NOTES | |
|----------|----------|----------|------|--|------------------------------|------------------------------|------------------------------|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------|--|
| | | | | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,2,2- TRI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | | 1,2-DI- CHLORO- ETHANE |
| S-4A | 06/05/87 | 22 | AQUA | 1100 | ND | 200 | 110 | 120 | ND | ND | ND | ND | ND | 820 | | | FOUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS. VOC RESULTS ARE A SUMMARY OF A GCHS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT. |
| | 09/04/87 | 27 | AQUA | 1100 | ND | 80 | 170 | 17 | ND | 790 | ND | ND | 2,000 | | | | |
| | 01/14/88 | 25 | AQUA | 1600 | ND | 180 | 112 | ND | ND | 700 | ND | ND | 1,800 | | | | |
| | 02/08/88 | 6 | AQUA | 1500 | ND | 165 | 160 | ND | ND | 900 | ND | ND | 1,770 | | | | |

TABLE 5

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
PAGE 22 OF 42
MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCMPX SBIN 011

T A GLEASON ASSOCIATES
Environmental and Geotechnical Services



| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | | | | | | |
|----------|----------|----------|------|--|------------------------|-------------------------|---------------------------|-----------------------|---------------------|---------------------------|-----------------------------|--------------------------|-----------------------|---------------------|-------------------------|-----------------------|-----------------------------|-----|----------------------|-------------------------|------|----|-----|--|--|--|--|
| | | | | 1,1-DI-CHLORO-ETHANE | 1,1-DI-CHLORO-ETHYLENE | 1,1,1-TRI-CHLORO-ETHANE | 1,1,1,2-TETRACHLOROETHANE | 1,1,2-DI-CHLOROETHANE | 1,2-DI-CHLOROETHANE | 1,1,2,2-TETRACHLOROETHANE | 1,1,1,2,2-PENTACHLOROETHANE | 1,1,1-TRI-CHLOROETHYLENE | 1,1-DI-CHLOROETHYLENE | 1,1-DI-CHLOROETHANE | 1,1,2-DI-CHLOROETHYLENE | 1,2-DI-CHLOROETHYLENE | 1,1,2,2-TETRACHLOROETHYLENE | BIS | DI-N-OCTYL PHTHALATE | ND | UG/L | | | | | | |
| S-5 | 11/07/86 | 29 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 10.6 | 7.9 | ND | 7.9 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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NOTES:
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ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS.
VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT.

TABLE 5

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
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MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCMPX SBIN 011

T A GLEASON ASSOCIATES

Environmental and Geotechnical Services







| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | | | |
|----------|----------|----------|------|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|----------------------|----------------------|----------------------|----------------------|
| | | | | 1,1-DI-CHLORO-ETHANE | 1,1-DI-CHLORO-ETHANE | 1,1-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE |
| 8-D | 07/10/87 | 5 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 720.0 | |
| | 09/04/87 | 30 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 900.0 | |
| | 01/15/88 | 28 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 840.0 | |
| | 01/15/88 | 29 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 855.0 | |
| | 02/09/88 | 13 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 770.0 | |
| | 02/09/88 | 14 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 630.0 | |
| | 05/19/88 | 23 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | 67.9 | ND | ND | ND | ND | ND | 1600.0 | |
| | 09/24/88 | 19 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | 20.0 | ND | ND | ND | ND | ND | 420.0 | |
| | 12/10/88 | 32 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |

TABLE 5

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
PAGE 5 OF 27
MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED-SIGNAL CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCPX SBIN 020

T A GLEASON ASSOCIATES

Environmental and Geotechnical Services

NOTES:

OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.

ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS.

VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT.



| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | | |
|----------|-----------|----------|------|--|----------------------------|---------------------------------|-----------------------------------|---------------------------------|--------------------------------|-------------------|------|---------|----------|-------------------------|-----------------------------------|--------------|--|
| | | | | 1,1-DI- CHLORO-ETHANE | 1,1-DI- CHLORO-ETHYLENE | 1,1,1- TRI- CHLORO-ETHANE | 1,1,1- TRI- CHLORO-ETHYLENE | 1,1,2-DI- CHLORO- PROPANE | 1,2-DI- CHLORO- ETHYLENE | VINYL CHLORIDE | FORM | TOLUENE | ETHYLENE | OTHER VOC | CIS-1,2- DICHLORO- ETHYLENE | OTHER VOC | |
| 7-0 | 107/10/87 | 3 | AQUA | ND | ND | 17.0 | ND | 19.0 | ND | ND | ND | ND | ND | 250.0 | | | |
| | 107/10/87 | 4 | AQUA | ND | ND | 16.0 | ND | 17.0 | ND | ND | ND | ND | ND | 250.0 | | | |
| | 109/04/87 | 29 | AQUA | ND | ND | ND | ND | 20.0 | 14.0 | ND | ND | ND | ND | 220.0 | | | |
| | 101/15/88 | 30 | AQUA | ND | ND | 10.0 | ND | 17.0 | ND | ND | ND | ND | ND | 142.0 | | | |
| | 102/09/88 | 15 | AQUA | ND | ND | 20.0 | ND | 14.0 | ND | ND | ND | ND | ND | 148.0 | | | |
| | 105/19/88 | 22 | AQUA | ND | ND | ND | ND | 16.6 | ND | ND | ND | ND | ND | 210.0 | | | |
| | 109/24/88 | 18 | AQUA | ND | ND | 7.6 | ND | 9.2 | ND | ND | ND | ND | ND | 52.0 | | | |
| | 12/10/88 | 31 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | |
| TABLE 5 | | | | | | | | | | | | | | | | | |
| | 102/25/89 | 34 | AQUA | ND | ND | 7.0 | ND | ND | 12.6 | ND | ND | ND | ND | 106.0 | ND | | |

NOTES:

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VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT.

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
PAGE 4 OF 27
MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED-SIGNAL CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCHPX SB1N 020

T A GLEASON ASSOCIATES

Environmental and Geotechnical Services





| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | | | | | | | | | | | | | | | | |
|----------|----------|----------|------|--|------------------------|----------------------|----------------------|------------------------|-------------------------|---------------------------|-----------------------|-------------------------|-------------------------|---------------------------|-------------------------|---------------------------|-----------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | | | 1,1-DI-CHLORO-ETHANE | 1,1-DI-CHLORO-ETHYLENE | 1,1-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHANE | 1,2-DI-CHLORO-ETHYLENE | 1,1,1-TRI-CHLORO-ETHANE | 1,1,1-TRI-CHLORO-ETHYLENE | 1,2-TRI-CHLORO-ETHANE | 1,2-TRI-CHLORO-ETHYLENE | 1,1,2-TRI-CHLORO-ETHANE | 1,1,2-TRI-CHLORO-ETHYLENE | CIS-1,2-DICHLORO-ETHANE | CIS-1,2-DICHLORO-ETHYLENE | OTHER VOC | OTHER | | | | | | | | | | | | | | |
| 86-10 | 08/02/86 | 7 | AQUA | ND | ND | ND | 85.4 | ND | 308.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 10/10/86 | 18 | AQUA | 5.7 | ND | ND | 130.0 | 99.7 | 440.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 02/24/89 | 22 | AQUA | ND | ND | ND | 41.0 | ND | 340.0 | ND | 19.8 | ND | ND | 100.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

NOTES:
OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.
ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS.

VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT.

TABLE 5

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
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MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED-SIGNAL CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCHPX SBIN 020

T A GLEASON ASSOCIATES
Environmental and Geotechnical Services



| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | OTHER ORGANIC COMPOUNDS | | | | | | | | | | | |
|----------|----------|----------|------|--|-----------|----------------|-------------|-----------|--------|-----------|-------------------------|-----------|-----------|---------|-----------|------------|--------|------------|-----------|----------|--------|--------|
| | | | | [1,1-DI-] | [1,2-DI-] | [1,1,1,1-TRI-] | [1,1,2-DI-] | [1,2-DI-] | [TRI-] | [CHLORO-] | [CHLORO-] | [CHLORO-] | [VINYLO-] | [FORM-] | [TOLUENE] | [ETHYLENE] | [VOC-] | [CIS-1,2-] | [CHLORO-] | [OTHER-] | [VOC-] | |
| | | | | [UG/L] | [UG/L] | [UG/L] | [UG/L] | [UG/L] | [UG/L] | [UG/L] | [UG/L] | [UG/L] | [UG/L] | [UG/L] | [UG/L] | [UG/L] | [UG/L] | [UG/L] | [UG/L] | [UG/L] | [UG/L] | [UG/L] |
| 86-15 | 08/02/86 | 4 | AQUA | ND | ND | 48.1 | 66.9 | 1620.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 10/10/86 | 13 | AQUA | ND | ND | 33.7 | 38.0 | 1280.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 02/24/89 | 24 | AQUA | ND | ND | 9.2 | 9.1 | 400.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

NOTES:
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VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT.

TABLE 5

GROUNDWATER QUALITY ANALYSIS
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GROUNDWATER INVESTIGATIONS
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SOUTH BEND, INDIANA
PROJECT # ALCMPX SBIN 020
T A GLEASON ASSOCIATES
Environmental and Geotechnical Services





| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | | | | | | |
|----------|----------|----------|------|----------------------------------|----------------------------------|----------------------------|---------------------------------------|---------------------------|-----------------------------|---|--------------------------------|--------------------------------|-----------------|-------------------------|-----------------|---------|-----------------------|-----------------------|--------------|------|----|
| | | | | VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | | | | | | | |
| | | | | 1,1-DI- CHLORO- ETHANE | 1,1,1-DI- CHLORO- ETHYLENE | DI- CHLORO- ETHYLENE | TRANS-1,2 DI- CHLORO- ETHANE | TRI- CHLORO- ETHANE | TRI- CHLORO- ETHYLENE | 1,1,1,1- TETRA- CHLORO- ETHANE | 1,1,2-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHYLENE | CHLORO- FORM | VINYL CHLORIDE | CHLORO- FORM | TOLUENE | ETHYLENE DIBROMIDE | CIS-1,2- DIBROMIDE | OTHER VOC | | |
| | | | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | |
| 0-7 | 10/01/86 | 10 | AQUA | ND | 689.0 | ND | 20.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 11/06/86 | 26 | AQUA | ND | 437.0 | ND | 15.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 01/07/87 | 9 | AQUA | ND | 902.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 40.0 | |
| | 02/12/87 | 14 | AQUA | ND | 812.0 | ND | 30.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 06/05/87 | 9 | AQUA | ND | 890.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 33.0 | |
| | 06/05/87 | 10 | AQUA | ND | 900.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 31.0 | |
| | 09/03/87 | 17 | AQUA | ND | 800.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 09/03/87 | 18 | AQUA | ND | 750.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 01/14/88 | 14 | AQUA | ND | 710.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 30.0 | |
| | 02/08/88 | 10 | AQUA | ND | 680.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 05/18/88 | 20 | AQUA | ND | 1165.0 | ND | ND | ND | ND | ND | ND | ND | ND | 19.1 | ND | ND | ND | ND | ND | 48.2 | |
| | 09/24/88 | 29 | AQUA | ND | 780.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 26.0 | |
| | 12/09/88 | 16 | AQUA | ND | 483.0 | ND | ND | ND | ND | ND | ND | ND | ND | 10.0 | ND | ND | ND | ND | ND | 22.1 | |
| | 12/09/88 | 17 | AQUA | ND | 435.0 | ND | ND | ND | ND | ND | ND | ND | ND | 10.0 | ND | ND | ND | ND | ND | 21.9 | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | 10/24/89 | 21 | AQUA | ND | 360.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 16.4 | ND |

NOTES:

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ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS.

VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT.

TABLE 5

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
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MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED-SIGNAL CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCMPX SBIM 020

T A GLEASON ASSOCIATES

Environmental and Geotechnical Services















| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS | | | | | | | | | | | OTHER ORGANIC COMPOUNDS | NOTES: | | | | |
|----------|----------|----------|------|----------------------------------|------------------------------|-------------------------------------|--------------------------------|------------------------------|-------------------------------------|---|---|--------------------------------------|--------------------------------|--------------------------------|-------------------------|--------|--------------------------------|--------------------------------|-----------------------------------|---|
| | | | | VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | | | | | | |
| | | | | 1,1-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,1,1- TRI- CHLORO- ETHANE | 1,1,2-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,2,3- TRI- CHLORO- ETHANE | 1,1,1,2- TETRA- CHLORO- ETHANE | 1,1,2,2- TETRA- CHLORO- ETHANE | 1,1,1,2,2- PENTACHLORO- ETHANE | 1,1-DI- CHLORO- ETHYLENE | 1,2-DI- CHLORO- ETHYLENE | | | 1,1-DI- CHLORO- ETHYLENE | 1,2-DI- CHLORO- ETHYLENE | 1,1,2- TRICHLORO- ETHYLENE | 1,2-DI- CHLORO- ETHYLENE |
| UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | | |
| S-17 | 11/16/86 | 16 | AQUA | 4.3 | ND | 1.5 | ND | ND | 12.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | CIS-1,2- DICHLORO- ETHYLENE | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. |
| | 01/07/87 | 4 | AQUA | ND | ND | ND | ND | 94.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS. |
| | 02/12/87 | 3 | AQUA | ND | ND | ND | 7.9 | ND | 116.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | | VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT. |
| | 06/05/87 | 15 | AQUA | ND | ND | ND | ND | 80.0 | ND | ND | ND | ND | ND | ND | ND | ND | 5.6 | ND | | |
| | 09/03/87 | 20 | AQUA | ND | ND | ND | ND | 86.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 01/14/88 | 22 | AQUA | ND | ND | ND | ND | 68.0 | ND | ND | ND | ND | ND | ND | ND | ND | 8.8 | ND | | |
| | 02/10/88 | 33 | AQUA | ND | ND | ND | ND | 75.0 | ND | ND | ND | ND | ND | ND | ND | ND | 5.8 | ND | | |
| | 05/19/88 | 26 | AQUA | ND | ND | ND | ND | 60.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 09/23/88 | 12 | AQUA | ND | ND | ND | ND | 78.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |

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GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
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MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED-SIGNAL CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCMPX SBIN 020

T A GLEASON ASSOCIATES
Environmental and Geotechnical Services



| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | NOTES: | | | | | | | | | | | | |
|----------|----------|----------|------|----------------------------------|-------------------|-------------------|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------------|--------------------------------|---------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---|---|--|--------------|----|--|
| | | | | VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 1,1-DI- ETHANE | 1,1-DI- ETHANE | 1,2-DI- ETHANE | 1,2-DI- ETHANE | 1,1,1- TRI- ETHANE | 1,1,2- TRI- ETHANE | 1,2,3- TRI- ETHANE | 1,2,4- TRI- ETHANE | 1,1,1,2- TETRA- ETHANE | 1,1,1,2,2- PENTA- ETHANE | 1,1,1,2,2,2- HEXA- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,1,1- TRI- CHLORO- ETHANE | 1,1,2- TRI- CHLORO- ETHANE | 1,2,3- TRI- CHLORO- ETHANE | 1,2,4- TRI- CHLORO- ETHANE | 1,1,1,2- TETRA- CHLORO- ETHANE | 1,1,1,2,2- PENTA- CHLORO- ETHANE | 1,1,1,2,2,2- HEXA- CHLORO- ETHANE | OTHER VOC | | |
| S-20 | 11/07/86 | 30 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 02/12/87 | 9 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 06/05/87 | 16 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 09/03/87 | 10 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 01/13/88 | 7 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 02/09/88 | 19 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 05/19/88 | 19 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 09/25/88 | 23 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 09/25/88 | 24 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 12/08/88 | 5 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 02/22/89 | 9 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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GROUNDWATER QUALITY ANALYSIS
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MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED-SIGNAL CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCMPX SBIN 020

T A GLEASON ASSOCIATES

Environmental and Geotechnical Services



| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | | | |
|---|----------|----------|------|----------------------------------|------------------------------|----------------------------|------------------------------|----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| | | | | VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | | | | |
| | | | | 1,1-DI- [CHLORO-ETHANE] | 1,1-DI- [CHLORO-ETHYLENE] | 1,1-DI- [CHLORO-ETHANE] | 1,1-DI- [CHLORO-ETHYLENE] | 1,1-DI- [CHLORO-ETHANE] | 1,1-DI- [CHLORO-ETHYLENE] | 1,1-DI- [CHLORO-ETHYLENE] | 1,1-DI- [CHLORO-ETHYLENE] | 1,1-DI- [CHLORO-ETHYLENE] | 1,1-DI- [CHLORO-ETHYLENE] | 1,1-DI- [CHLORO-ETHYLENE] | 1,1-DI- [CHLORO-ETHYLENE] | 1,1-DI- [CHLORO-ETHYLENE] | 1,1-DI- [CHLORO-ETHYLENE] | 1,1-DI- [CHLORO-ETHYLENE] |
| S-21 | 11/06/86 | 17 | AQUA | ND | ND | ND | 116.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 12/17/86 | 13 | AQUA | ND | ND | ND | 69.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 02/11/87 | 5 | AQUA | ND | ND | ND | 88.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 06/05/87 | 17 | AQUA | ND | ND | ND | 30.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.0 |
| | 06/05/87 | 18 | AQUA | ND | ND | ND | 34.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.6 |
| | 09/03/87 | 14 | AQUA | ND | ND | ND | 13.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 50.0 |
| | 10/14/88 | 11 | AQUA | ND | ND | ND | 20.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 53.2 |
| | 02/09/88 | 22 | AQUA | ND | ND | ND | 33.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 60.0 |
| | 05/18/88 | 13 | AQUA | ND | ND | ND | 11.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 137.0 |
| | 09/23/88 | 13 | AQUA | ND | ND | ND | 49.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 58.0 |
| | 12/08/88 | 10 | AQUA | ND | ND | ND | 32.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 66.0 |
| TABLE 5 | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS ORGANIC COMPOUNDS PAGE 19 OF 27 MONITOR WELLS | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS ALLIED-SIGNAL CORPORATION SOUTH BEND, INDIANA PROJECT # ALMPX SBIN 020 T A GLEASON ASSOCIATES Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | |

NOTES:

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ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS.

VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT.











| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | | | NOTES: | |
|----------|-----------|----------|------|----------------------------------|--------------------------------|----------------------------------|----------------------------------|----------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---|
| | | | | VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | | | | | |
| | | | | 1,1-DI- [CHLORO- ETHANE] | 1,2-DI- [CHLORO- ETHANE] | 1,1,1-DI- [CHLORO- ETHANE] | 1,1,2-DI- [CHLORO- ETHANE] | 1,2,2-DI- [CHLORO- ETHANE] | 1,1,2,2-TETRA- [CHLORO- ETHANE] | 1,1,1,2-TETRA- [CHLORO- ETHANE] | 1,1,2,2-TETRA- [CHLORO- ETHANE] | 1,1,2,2-TETRA- [CHLORO- ETHANE] | 1,1,2,2-TETRA- [CHLORO- ETHANE] | 1,1,2,2-TETRA- [CHLORO- ETHANE] | 1,1,2,2-TETRA- [CHLORO- ETHANE] | 1,1,2,2-TETRA- [CHLORO- ETHANE] | 1,1,2,2-TETRA- [CHLORO- ETHANE] | 1,1,2,2-TETRA- [CHLORO- ETHANE] | |
| S-26 | 107/10/87 | 7 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS. VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT. |
| | 109/03/87 | 16 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 101/15/88 | 31 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 102/09/88 | 18 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 105/19/88 | 29 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 109/24/88 | 21 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | 102/23/89 | 18 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |

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GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
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MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED-SIGNAL CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCMPX SBIN 020

T A GLEASON ASSOCIATES
Environmental and Geotechnical Services



| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS | | | | | | | | | | | | NOTES |
|----------|----------|----------|------|----------------------------------|-------------------|---------------------|---|---|-------------------------------------|--------------------------------|------------------------------|--------------------------------------|--|---|--|-------|
| | | | | VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | OTHER ORGANIC COMPOUNDS | | | | | | |
| | | | | 1,1-DI- ETHANE | 1,2-DI- ETHANE | 1,2,2-DI- ETHANE | 1,1,1,2- TETRA- CHLORO- ETHANE | 1,1,1,2- TETRA- CHLORO- ETHANE | 1,1,1- TRI- CHLORO- ETHANE | 1,1,2-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | 1,2,4- TRI- CHLORO- BENZENE | 1,2,3,4- TETRA- CHLORO- BENZENE | 1,2,3,4- TETRA- CHLORO- BENZENE | 1,2,3,4- TETRA- CHLORO- BENZENE | |
| S-27 | 07/10/87 | 8 | AQUA | ND | ND | ND | 10.0 | ND | 90.0 | ND | ND | ND | 9.4 | NOTES: OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS. VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT. | | |
| | | | | ND | ND | ND | 8.0 | ND | 100.0 | ND | ND | ND | 7.5 | | | |
| | 09/04/87 | 26 | AQUA | ND | ND | ND | 19.0 | ND | 96.0 | ND | ND | ND | 9.8 | | | |
| | 01/15/88 | 33 | AQUA | ND | ND | ND | 16.0 | ND | 81.0 | ND | ND | ND | 12.0 | | | |
| | 02/10/88 | 32 | AQUA | ND | ND | ND | 18.4 | ND | 74.6 | ND | ND | ND | 24.5 | | | |
| | 05/19/88 | 27 | AQUA | ND | ND | ND | 26.0 | ND | 85.0 | ND | ND | ND | 11.0 | | | |
| | 09/25/88 | 27 | AQUA | ND | ND | ND | 21.0 | ND | 80.0 | ND | ND | ND | 13.3 | | | |
| | 12/08/88 | 2 | AQUA | ND | ND | ND | 17.0 | ND | 97.1 | ND | ND | ND | 11.1 | | | |
| | 02/23/89 | 12 | AQUA | ND | ND | ND | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

TABLE 5

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
PAGE 25 OF 27
MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED-SIGNAL CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCHPX S81N 020

T A GLEASON ASSOCIATES
Environmental and Geotechnical Services



| SAMPLE SOURCE | DATE | SAMPLE # | LAB | TRANS-1,2 | | | | | | | | | | | NOTES: | | | |
|---|----------|----------|------|------------------------------|--------------------------------|------------------|---------|-----------------------|----------|-------------------|------------------------------|-------------------|-----------------------------|-------------------|--------------|--|--|--|
| | | | | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHYLENE | ETHYL BENZENE | TOLUENE | DICHLORO- ETHYLENE | ETHYLENE | CHLORO- ETHANE | 1,2 DI- CHLORO- ETHANE | CHLORO- ETHANE | TRI- CHLORO- ETHYLENE | VINYL CHLORIDE | OTHER VOC | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. | | |
| | | | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | | |
| E-3 | 03/25/87 | 7 | AQUA | 72.0 | 56.0 | ND | 10.0 | 10.0 | 53.0 | ND | 23.0 | ND | ND | ND | ND | ND | | |
| | 01/14/88 | 19 | AQUA | 60.0 | 25.0 | ND | 9.4 | 9.2 | 48.0 | ND | 19.0 | ND | ND | ND | ND | ND | | |
| | 02/10/88 | 29 | AQUA | 60.0 | 26.0 | ND | 11.0 | 8.5 | 61.0 | 70.0 | 21.0 | ND | ND | ND | ND | ND | | |
| | 05/19/88 | 34 | AQUA | 43.0 | 26.6 | ND | 7.8 | ND | 86.0 | ND | 15.0 | ND | 29.5 | 22.9 | 18.3 | ND | | |
| | 09/25/88 | 32 | AQUA | 51.0 | 28.0 | ND | 5.6 | ND | 28.0 | 11.0 | 9.2 | ND | ND | ND | ND | ND | | |
| | 12/09/88 | 21 | AQUA | 30.4 | 21.6 | ND | ND | ND | 64.2 | ND | ND | ND | 41.7 | ND | 26.7 | 489.0 | | |
| | 02/24/89 | 28 | AQUA | 42.7 | 26.8 | ND | ND | ND | 74.0 | 7.2 | ND | ND | 49.5 | ND | 26.3 | 520.0 | | |
| TABLE 6 | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS ORGANIC COMPOUNDS PAGE 1 OF 5 NAPHTHA RECOVERY WELLS GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT # ALCHPX SB1H 020 T A GLEASON ASSOCIATES ENVIRONMENTAL AND GEOTECHNICAL SERVICES | | | | | | | | | | | | | | | | | | |

ND = NOT DETECTED.
SEE LAB REPORT FOR DETECTION
LIMITS.



R4060R
24-Mar-89

| SAMPLE SOURCE | DATE | SAMPLE # | LAB | NOTES: | | | | | | | | | | | | | |
|---|----------|----------|------|---|--------------------------------|---------|------------------|---------|-----------------------|----------|--|------------------|------------------------------|-------------------|---------------------------|-------------------|--------------|
| | | | | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. | | | | | | | | | | | | | |
| | | | | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHYLENE | BENZENE | ETHYL BENZENE | TOLUENE | DICHLORO- ETHYLENE | ETHYLENE | (TRANS-1,2 DI- CHLORO- ETHANE | TOTAL XYLENES | 1,2 DI- CHLORO- ETHANE | CHLORO- ETHANE | TRI- CHLORO- ETHANE | VINYL CHLORIDE | OTHER VOC |
| | | | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L |
| RMB-6 | 03/25/87 | 10 | AQUA | ND | 300.0 | 8.7 | 50.0 | ND | 410.0 | 54.0 | 65.0 | ND | ND | ND | ND | ND | |
| | 03/25/87 | 11 | AQUA | ND | 300.0 | 12.0 | 50.0 | ND | 410.0 | 72.0 | 69.0 | ND | ND | ND | ND | ND | |
| | 09/04/87 | 33 | AQUA | ND | ND | ND | ND | ND | 700.0 | 45.0 | ND | 290.0 | ND | ND | ND | ND | |
| | 01/14/88 | 16 | AQUA | ND | ND | ND | ND | ND | 460.0 | ND | ND | 250.0 | ND | ND | ND | ND | |
| | 02/10/88 | 26 | AQUA | ND | ND | ND | ND | ND | 550.0 | 55.0 | 57.0 | 230.0 | ND | ND | ND | ND | |
| | 05/19/88 | 31 | AQUA | ND | ND | ND | 23.4 | ND | 672.0 | 41.8 | ND | 391.0 | ND | ND | ND | ND | |
| | 09/25/88 | 31 | AQUA | 29.0 | 8.3 | ND | 30.0 | ND | 230.0 | 35.0 | 49.0 | ND | ND | ND | 17.0 | ND | |
| | 12/09/88 | 19 | AQUA | 25.5 | ND | ND | 22.6 | ND | 305.0 | 27.5 | 40.0 | 133.0 | ND | ND | 23.7 | 443.0 | |
| TABLE 6 | | | | | | | | | | | | | | | | | |
| | 02/24/89 | 26 | AQUA | 30.3 | 6.2 | ND | 22.5 | ND | 370.0 | 32.9 | 35.5 | 180.0 | 13.4 | ND | 30.1 | 400.0 | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | |
| ORGANIC COMPOUNDS | | | | | | | | | | | | | | | | | |
| PAGE 2 OF 5 | | | | | | | | | | | | | | | | | |
| NAPHTHA RECOVERY WELLS | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | |
| PROJECT # ALDMPX SBIN 020 | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | |
| ENVIRONMENTAL AND GEOTECHNICAL SERVICES | | | | | | | | | | | | | | | | | |

ND = NOT DETECTED.
SEE LAB REPORT FOR DETECTION
LIMITS.



| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS | | | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | | |
|----------|----------|----------|------|----------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------|--|
| | | | | VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | | | | | |
| | | | | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHANE | | |
| BLANK | 02/10/88 | 34 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.6** | |
| | 02/10/88 | 35 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.0** | |
| | 05/18/88 | 21 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 05/19/88 | 36 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 09/25/88 | 28 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 12/10/88 | 30 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 12/11/88 | 35 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 6.2** | |
| | | | | | | | | | | | | | | | | | | | |
| | 02/22/89 | 3 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 6.7** | |
| | 02/23/89 | 11 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 7.2** | |
| | 02/26/89 | 36 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |

TABLE 5

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
PAGE 27 OF 27
MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED-SIGNAL CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCMPX SB1N 020

T A GLEASON ASSOCIATES

Environmental and Geotechnical Services

NOTES:

OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.

ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS.

VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT.

** - DICHLOROBROMOMETHANE



PRIORITY POLLUTANTS

| WELL NO. | DATE | SAMPLE # | LAB | VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | | OTHER ORGANIC COMPOUNDS | NOTES: | | | |
|----------|----------|----------|------|----------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------------|--------|---------------------|----|---|
| | | | | 1,1-DI- ETHANE | 1,1-DI- ETHYLENE | 1,1-DI- ETHYLENE | 1,1-DI- ETHYLENE | 1,1-DI- ETHYLENE | 1,1-DI- ETHYLENE | 1,1-DI- ETHYLENE | 1,1-DI- ETHYLENE | 1,1-DI- ETHYLENE | 1,1-DI- ETHYLENE | 1,1-DI- ETHYLENE | | | 1,1-DI- ETHYLENE | | |
| BLANK | 10/01/86 | 1,000 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. |
| | 11/06/86 | 10 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS. |
| | 11/06/86 | 28 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT. |
| | 12/18/86 | 24 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ** - OTHER VOC; DICHLOROBROMOMETHANE |
| | 12/18/86 | 25 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 01/07/87 | 10 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 02/12/87 | 23 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 06/05/87 | 23 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 07/10/87 | 9 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | TABLE 5 |
| | 09/04/87 | 36 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 15.0 | ND | ND | ND | ND | GROUNDWATER QUALITY ANALYSIS ORGANIC COMPOUNDS PAGE 26 OF 27 MONITOR WELLS |
| | 01/13/88 | 10 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 01/13/88 | 35 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 21.0 | ND | ND | ND | ND | GROUNDWATER INVESTIGATIONS ALLIED-SIGNAL CORPORATION SOUTH BEND, INDIANA PROJECT # ALMPX SBIN 020 |
| | | | | | | | | | | | | | | | | | | | T A GLEASON ASSOCIATES |
| | | | | | | | | | | | | | | | | | | | Environmental and Geotechnical Services |



| SAMPLE SOURCE | DATE | SAMPLE # | LAB | TRANS-1,2 | | | | | | | | | | | | | NOTES | | | |
|---|----------|----------|------|------------------------------|--------------------------------|------------------------------|------------------------------|------------------|----------------------------------|----------------------------|------------------------------|-----------------------------|-------------------|---------------------|--------------|----|-------|----|-------|--|
| | | | | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHYLENE | 1,1-DI- CHLORO- ETHANE | 1,2-DI- CHLORO- ETHANE | TOTAL XYLENES | CIS-1,2 DICHLORO- ETHYLENE | DI- CHLORO- ETHYLENE | 1,2-DI- CHLORO- ETHANE | TRI- CHLORO- ETHYLENE | CHLORO- ETHANE | CHLORO- ETHYLENE | OTHER VOC | | | | | |
| RUB-16 | 03/25/87 | 8 | AQUA | 22.0 | 16.0 | ND | ND | ND | 16.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 09/04/87 | 35 | AQUA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 01/14/88 | 20 | AQUA | ND | ND | ND | ND | 8.5 | ND | 220.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 02/10/88 | 30 | AQUA | ND | ND | ND | ND | 8.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 05/19/88 | 35 | AQUA | ND | ND | ND | ND | ND | ND | 149.0 | 22.5 | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 09/25/88 | 33 | AQUA | 152.0 | ND | ND | ND | 6.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 12/09/88 | 22 | AQUA | ND | ND | ND | ND | 5.4 | ND | 140.0 | ND | ND | ND | ND | ND | ND | ND | ND | 15.0 | |
| | 02/24/89 | 29 | AQUA | 100.0 | ND | ND | ND | ND | ND | 170.0 | ND | ND | ND | ND | ND | ND | ND | ND | 140.0 | |
| TABLE 6 | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | |
| ORGANIC COMPOUNDS | | | | | | | | | | | | | | | | | | | | |
| PAGE 3 OF 5 | | | | | | | | | | | | | | | | | | | | |
| NAPHTHA RECOVERY WELLS | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | |
| PROJECT # ALCPX S81N 020 | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | |
| ENVIRONMENTAL AND GEOTECHNICAL SERVICES | | | | | | | | | | | | | | | | | | | | |

ND = NOT DETECTED.
SEE LAB REPORT FOR DETECTION
LIMITS.

OUR INTERPRETATIONS OF THESE DATA
ARE LIMITED TO OUR WRITTEN REPORTS.



RM210R
24-Mar-89

| SAMPLE SOURCE | DATE | LAB | SAMPLE # | NOTES: | | | | | | | | | | | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. | | | |
|---------------|----------|------|----------|----------------------|------------------------|---------|---------------|---------------------------|------------------------------|---------------|----------------------|---------------|------------------------------|----------------|---|-----------|--|--|
| | | | | 1,1-DI-CHLORO-ETHANE | 1,1-DI-CHLORO-ETHYLENE | BENZENE | ETHYL TOLUENE | CIS-1,2-DICHLORO-ETHYLENE | TRANS-1,2-DI-CHLORO-ETHYLENE | TOTAL XYLENES | 1,2-DI-CHLORO-ETHANE | CHLORO-ETHANE | TRI-CHLORO-ETHENE | VINYL CHLORIDE | | OTHER VOC | | |
| RMB-21 | 03/25/87 | AQUA | 12 | 15.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 09/04/87 | AQUA | 32 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 01/14/88 | AQUA | 15 | 7.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 02/10/88 | AQUA | 25 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 05/19/88 | AQUA | 30 | 5.9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 12/09/88 | AQUA | 18 | 5.9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | | | | | | | | | | | | | | | | | | |
| | 02/24/89 | AQUA | 25 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 77.0 | | |
| | | | | | | | | | | | | | TABLE 6 | | | | | |
| | | | | | | | | | | | | | GROUNDWATER QUALITY ANALYSIS | | ORGANIC COMPOUNDS | | | |
| | | | | | | | | | | | | | | | PAGE 4 OF 5 | | | |
| | | | | | | | | | | | | | | | NAPHTHA RECOVERY WELLS | | | |
| | | | | | | | | | | | | | | | GROUNDWATER INVESTIGATIONS | | | |
| | | | | | | | | | | | | | | | ALLIED CORPORATION | | | |
| | | | | | | | | | | | | | | | SOUTH BEND, INDIANA | | | |
| | | | | | | | | | | | | | | | PROJECT # ALCHPX SBIN 020 | | | |
| | | | | | | | | | | | | | | | T A GLEASON ASSOCIATES | | | |
| | | | | | | | | | | | | | | | ENVIRONMENTAL AND GEOTECHNICAL SERVICES | | | |

ND = NOT DETECTED.
SEE LAB REPORT FOR DETECTION LIMITS.



R4220R
24-Mar-89

| SAMPLE SOURCE | DATE | SAMPLE # | LAB | NOTES: | | | | | | | | | | | | | | | |
|---|----------|----------|------|---|--------------------------------|------------------|---------|-----------------------|---------------------------------|---|------------------|------------------------------|-------------------|-----------------------------|-------------------|--------------|--|--|--|
| | | | | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. | | | | | | | | | | | | | | | |
| | | | | 1,1-DI- CHLORO- ETHANE | 1,1-DI- CHLORO- ETHYLENE | ETHYL BENZENE | TOLUENE | DICHLORO- ETHYLENE | CIS-1,2 DICHORO- ETHYLENE | TRANS-1,2 DI- CHLORO- ETHYLENE | TOTAL XYLENES | 1,2 DI- CHLORO- ETHANE | CHLORO- ETHANE | TRI- CHLORO- ETHYLENE | VINYL CHLORIDE | OTHER VOC | | | |
| | | | | UG/L | UG/L | MG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | | | |
| RMB-22 | 03/25/87 | 9 | AQUA | 184.0 | 124.0 | ND | 94.0 | ND | ND | 60.0 | 199.0 | ND | ND | ND | ND | | | | |
| | | 34 | AQUA | ND | ND | 81.0 | ND | ND | ND | ND | 160.0 | ND | 420.0 | ND | ND | | | | |
| | 01/14/88 | 17 | AQUA | 117.0 | 48.0 | ND | 47.0 | 22.0 | 36.0 | ND | 85.0 | ND | 70.0 | ND | ND | | | | |
| | 01/14/88 | 18 | AQUA | 122.0 | 53.0 | ND | 51.0 | 24.0 | 38.0 | ND | 91.0 | ND | 90.0 | ND | ND | | | | |
| | 02/10/88 | 27 | AQUA | 170.0 | 59.0 | ND | 73.0 | 61.0 | 44.0 | 14.0 | 140.0 | ND | 110.0 | ND | ND | | | | |
| | 02/10/88 | 28 | AQUA | 151.0 | 51.0 | ND | 70.0 | 50.0 | 46.0 | 11.0 | 140.0 | ND | ND | ND | ND | | | | |
| | 05/19/88 | 32 | AQUA | 119.0 | 48.2 | ND | 103.0 | 79.5 | 92.5 | ND | 133.0 | ND | 33.6 | ND | ND | | | | |
| | 05/19/88 | 33 | AQUA | 118.0 | 47.9 | ND | 58.8 | 34.7 | 113.0 | ND | 113.0 | ND | 35.7 | 29.1 | ND | | | | |
| | 09/25/88 | 30 | AQUA | ND | 8.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | |
| | 12/09/88 | 20 | AQUA | 65.6 | 29.7 | ND | 41.0 | 16.4 | 55.7 | 12.5 | 90.0 | ND | ND | ND | ND | 641.0 | | | |
| | 02/24/89 | 27 | AQUA | 110.0 | 29.9 | ND | 52.9 | 34.4 | 62.5 | 13.6 | 100.0 | ND | 52.6 | ND | ND | 720.0 | | | |
| GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT # ALCHPX SBIN 020 T A GLEASON ASSOCIATES ENVIRONMENTAL AND GEOTECHNICAL SERVICES | | | | | | | | | | | | | | | | | | | |

ND = NOT DETECTED.
SEE LAB REPORT FOR DETECTION LIMITS.

TABLE 6

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
PAGE 5 OF 5
NAPHTHA RECOVERY WELLS



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | SU | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L | |
|--|----------|----------|------|----------------------|------|--------|----|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|-------|
| RV 1-7 | NSM-1 | 12/11/88 | AQUA | 2380 | | 16 | | | | | | <30 | | <5 | | | | | | <20 | 0.01 | 0.01 | 0.01 |
| | 37 | 02/26/89 | AQUA | 1197 | 6.95 | 13 | | | | | | <30 | | <10 | | | | | | | <20 | <0.01 | <0.01 |
| <p>NOTES:</p> <p>OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.</p> <p>< = LESS THAN</p> <p>METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER</p> <p>BLANK SPACE INDICATES ANALYSIS NOT PERFORMED</p> | | | | | | | | | | | | | | | | | | | | | | | |
| TABLE 7 | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE AND PHENOLS | | | | | | | | | | | | | | | | | | | | | | | |
| PAGE 1 OF 5 | | | | | | | | | | | | | | | | | | | | | | | |
| RECOVERY WELLS | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCHPX SBIN 020 | | | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | | |
| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | | |



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L | NOTES | |
|---|----------|----------|------|----------------------|------|--------|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|-------|--|
| RV 8-12 | | 12/11/88 | | | | | | | | | | | | | | | | | | | | | METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER |
| | 38 | 12/26/89 | AQUA | 1754 | 6.95 | 12 | | | | <30 | | | <10 | | | | | | <20 | <0.01 | <0.01 | | BLANK SPACE INDICATES ANALYSIS NOT PERFORMED |
| <p>GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS PAGE 2 OF 5 RECOVERY WELLS</p> <p>GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCHMPX SBIN 020</p> <p>T A GLEASON ASSOCIATES Environmental and Geotechnical Services</p> | | | | | | | | | | | | | | | | | | | | | | | |





| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | SU | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L | |
|--|----------|----------|------|----------------------|------|--------|----|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|--|
| RV 17 | NSM-4 | 12/12/88 | AQUA | 2620 | | 16 | | | | | | <30 | | <5 | | | | | | <20 | <0.01 | <0.01 | |
| | 40 | 02/24/89 | AQUA | 2430 | 7.15 | 14 | | | | | | <30 | | <10 | | | | | | <20 | <0.01 | <0.01 | |
| <p>NOTES:</p> <p>OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.</p> <p>< = LESS THAN</p> <p>METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER</p> <p>BLANK SPACE INDICATES ANALYSIS NOT PERFORMED</p> | | | | | | | | | | | | | | | | | | | | | | | |
| TABLE 7 | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE AND PHENOLS | | | | | | | | | | | | | | | | | | | | | | | |
| PAGE 4 OF 5 | | | | | | | | | | | | | | | | | | | | | | | |
| RECOVERY WELLS | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCHPX S81N 020 | | | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | | |
| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | | |



RW18-19
24-Mar-89

| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | NOTES |
|---|----------|----------|------|----------------------|------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|--|
| | | | | | | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L | |
| RW 18-19 | NSW-3 | 12/12/88 | AQUA | 2090 | | 16 | | | | | <30 | | <5 | | | | | | <20 | <0.01 | 0.07 | METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER |
| | 41 | 02/26/89 | AQUA | 1356 | 7.00 | 14 | | | | | <30 | | <5 | | | | | | <20 | <0.01 | <0.01 | BLANK SPACE INDICATES ANALYSIS NOT PERFORMED |
| | 42 | 02/26/89 | AQUA | 1310 | 7.10 | 14 | | | | | <30 | | <5 | | | | | | <20 | <0.01 | <0.01 | |
| TABLE 7 | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE AND PHENOLS | | | | | | | | | | | | | | | | | | | | | | |
| PAGE 5 OF 5 | | | | | | | | | | | | | | | | | | | | | | |
| RECOVERY WELLS | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCHPX SBIN 020 | | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | |
| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | |



| WELL NO. | DATE | SAMPLE # | LAB | PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC) | | | | | | | | | | OTHER ORGANIC COMPOUNDS | | |
|----------|----------|----------|------|--|--|--------------------------------------|------------------------------------|---|---|--|--|--|--|--|--|--------------------------------------|
| | | | | 1,1-DI- CHLORO- ETHANE UG/L | 1,1-DI- CHLORO- ETHYLENE UG/L | 1,1-DI- CHLORO- ETHANE UG/L | 1,1,1- TRI- ETHYLENE UG/L | 1,1,2-DI- CHLORO- PROPANE UG/L | 1,2-DI- CHLORO- VINYL CHLORIDE UG/L | 1,2-DI- CHLORO- ETHYLENE UG/L | 1,2,4- TRI- CHLORO- BENZENE UG/L | 1,1,1,2- TETRACHLORO- ETHANE UG/L | 1,1,2,2- TETRACHLORO- ETHYLENE UG/L | 1,1,2,2- TETRACHLORO- ETHANE UG/L | 1,2-DI- CHLORO- ETHYLENE UG/L | 1,2-DI- CHLORO- ETHANE UG/L |
| RW 1-7 | 10/04/88 | NSM-1 | AQUA | 1450.0 | ND | 220.0 | 87.0 | 260.0 | 235.0 | ND | 136.0 | ND | ND | 770.0 | | |
| | 10/06/88 | NSM-5 | AQUA | 1100.0 | ND | 180.0 | 77.0 | 273.0 | 280.0 | ND | 125.0 | ND | ND | 731.0 | | |
| | 12/11/88 | NSM-1 | AQUA | 422.0 | ND | 53.6 | 45.6 | 211.0 | 374.0 | ND | 102.0 | ND | ND | 659.0 | | |
| | 02/26/89 | 37 | AQUA | 394.0 | ND | 63.4 | 53.0 | 240.0 | 390.0 | ND | 80.0 | ND | ND | 500.0 | | |

NOTES:

OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.

ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS.

VOC RESULTS ARE A SUMMARY OF A GCMS SCAN FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT.

TABLE 8

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS

PAGE 1 OF 5
RECOVERY WELLS

GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALAUBR SBIN 020

T A GLEASON ASSOCIATES

Environmental and Geotechnical Services











TABLE 1 - SAMPLE SUMMARY
1ST QUARTER 1989

| <u>Monitor Wells</u> | | Naptha | <u>Recovery Wells</u> |
|----------------------|-------|--------|-----------------------|
| 1-D | S-14 | | E-3 |
| 2-D | S-15 | | RWB-6 |
| 5-D | S-16 | | RWB-16 |
| 7-D | S-17 | | RWB-21 |
| 8-D | S-20 | | RWB-22 |
| 9-33 | S-21 | | |
| 86-10 | S-22* | | |
| 86-15 | S-23 | | |
| D-4 | S-24 | | |
| D-7 | S-25* | | |
| S-1* | S-26 | | |
| S-4A | S-27 | | |
| S-9 | | | |

| <u>VOC Recovery Wells</u> | | |
|---------------------------|------------------------|----------------------------|
| <u>QA/QC Samples</u> | <u>Sample Location</u> | <u>Recovery Well(s)</u> |
| Field Blank 1 | RW 1-7 | RW 1, 2, 3, 3A, 4, 5, 6, 7 |
| Field Blank 2 | RW 8-12 | RW 8, 9, 9A, 10, 11, 12 |
| Field Blank 3 | RW 13 | RW 13 |
| S-1 Duplicate | RW 17 | RW 14, 15, 16, 17 |
| S-22 Duplicate | RW 18-19 | RW 18, 19 |
| S-25 Duplicate | | |

*Duplicate Sample Taken



02/21/89

NOTES:

(1)

| WELL NO. | REFERENCE ELEVATION | WATER DEPTH | WATER ELEVATION | WATER DEPTH | WATER ELEVATION | WATER DEPTH | WATER ELEVATION | WATER DEPTH | WATER ELEVATION |
|----------|---------------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| S-1 | 728.09 | | | 25.39 | 702.70 | | | | |
| S-2 | 721.82 | | | NM | | | | | |
| S-3 | 716.65 | | | 20.91 | 695.74 | | | | |
| S-5 | 712.83 | | | 14.81 | 698.02 | | | | |
| S-6 | 713.08 | | | NM | | | | | |
| S-7 | 716.16 | | | NM | | | | | |
| S-8 | 714.65 | | | 18.96 | 695.69 | | | | |
| S-9 | 714.17 | | | 18.19 | 695.98 | | | | |
| S-10 | 715.40 * | | | NM | | | | | |
| S-11 | 715.64 * | | | NM | | | | | |
| S-12 | 721.45 | | | 19.97 | 701.48 | | | | |
| S-13 | 721.10 * | | | NM | | | | | |
| S-14 | 711.86 | | | 16.03 | 695.83 | | | | |
| S-15 | 714.37 | | | 18.86 | 695.51 | | | | |
| S-16 | 716.18 | | | 19.87 | 696.31 | | | | |
| S-17 | 716.97 | | | 20.64 | 696.33 | | | | |
| S-18 | 715.41 | | | 17.62 | 697.79 | | | | |
| S-19 | 723.38 | | | 20.56 | 702.82 | | | | |
| S-20 | 709.97 | | | 15.03 | 694.94 | | | | |
| S-21 | 711.33 | | | 14.67 | 696.66 | | | | |
| S-22 | 709.33 | | | 14.18 | 695.15 | | | | |
| S-23 | 710.24 | | | 15.02 | 695.22 | | | | |
| S-24 | 713.03 | | | 17.76 | 695.27 | | | | |
| S-25 | 710.60 | | | 15.42 | 695.18 | | | | |
| S-26 | 714.50 | | | 18.46 | 696.04 | | | | |
| S-27 | 715.40 | | | 19.73 | 695.67 | | | | |

OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.

1 = SURVEYED BY LANG, FEENEY & ASSOC., INC. 9/87.
 WATER ELEVATIONS PRIOR TO JULY 1987 ARE BASED ON FORMER REFERENCE ELEVATIONS.

* = FORMER REFERENCE ELEVATIONS

NM = NOT MEASURED THIS DATE

TABLE 2

WATER LEVEL MEASUREMENTS

PAGE 1 OF 6

GROUNDWATER INVESTIGATIONS
 ALLIED COMPLEX
 SOUTH BEND, INDIANA
 PROJECT # ALCMPX 020
 T A GLEASON ASSOCIATES
 Environmental and Geotechnical Services



| | | 12/06-07/88 | 09/21-25/88 | 05/17/88 | 02/03/88 | 01/2/88 | NOTES: |
|----------|---------------------|-------------|-----------------|-------------|-----------------|-------------|---|
| WELL NO. | REFERENCE ELEVATION | WATER DEPTH | WATER ELEVATION | WATER DEPTH | WATER ELEVATION | WATER DEPTH | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. |
| S-1 | 728.09 | NM | | NM | | NM | |
| S-2 | 721.82 | NM | | 20.38 | 701.44 | 20.60 | |
| S-3 | 716.65 | 20.15 | 696.50 | 19.40 | 697.25 | 19.92 | 1 = SURVEYED BY LANG, FEENEY & ASSOC., INC. 9/87. |
| S-5 | 712.83 | 14.75 | 698.08 | 13.77 | 699.06 | 14.18 | WATER ELEVATIONS PRIOR TO JULY 1987 ARE BASED ON FORMER REFERENCE ELEVATIONS. |
| S-6 | 713.08 | NM | | NM | | NM | |
| S-7 | 716.16 | 17.75 | 698.41 | 17.43 | 698.73 | 17.70 | |
| S-8 | 714.65 | 18.61 | 696.04 | 17.93 | 696.72 | 18.39 | |
| S-9 | 714.17 | 17.83 | 696.34 | 16.90 | 697.27 | 17.28 | |
| S-10 | 715.40 * | NM | | NM | | NM | * = FORMER REFERENCE ELEVATIONS |
| S-11 | 715.64 * | NM | | NM | | NM | |
| S-12 | 721.45 | 19.93 | 701.52 | 19.87 | 701.58 | 20.12 | |
| S-13 | 721.10 * | NM | | NM | | NM | |
| S-14 | 711.86 | 15.83 | 696.03 | 15.03 | 696.83 | 15.40 | NM = NOT MEASURED THIS DATE |
| S-15 | 714.37 | 18.62 | 695.75 | 17.83 | 696.54 | 18.28 | |
| S-16 | 716.18 | 19.72 | 696.46 | 17.88 | 698.30 | 18.61 | |
| S-17 | 716.97 | 19.69 | 697.28 | 18.11 | 698.86 | 18.62 | |
| S-18 | 715.41 | 17.47 | 697.94 | 15.90 | 699.51 | 16.95 | |
| S-19 | 723.38 | 19.98 | 703.40 | 20.09 | 703.29 | 20.44 | |
| S-20 | 709.97 | 14.57 | 695.40 | 14.83 | 695.14 | 15.08 | |
| S-21 | 711.33 | NM | | NM | | NM | |
| S-22 | 709.33 | NM | | NM | | NM | |
| S-23 | 710.24 | 16.18 | 694.06 | 15.41 | 694.83 | 15.90 | TABLE 2 |
| S-24 | 713.03 | NM | | 15.12 | 697.91 | NM | |
| S-25 | 710.60 | 14.93 | 695.67 | 14.94 | 695.66 | 15.30 | WATER LEVEL MEASUREMENTS |
| S-26 | 714.50 | 18.16 | 696.34 | 16.82 | 697.68 | 17.53 | PAGE 2 OF 6 |
| S-27 | 715.40 | 19.13 | 696.27 | 18.40 | 697.00 | 18.87 | |

GROUNDWATER INVESTIGATIONS
 ALLIED COMPLEX
 SOUTH BEND, INDIANA
 PROJECT # ALCMPX 020
 T A GLEASON ASSOCIATES
 Environmental and Geotechnical Services



02/21/89

NOTES:

(1)

| WELL NO. | REFERENCE ELEVATION | WATER DEPTH | WATER ELEVATION | WATER DEPTH | WATER ELEVATION | WATER DEPTH | WATER ELEVATION | WATER DEPTH | WATER ELEVATION |
|----------|---------------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| D-1 | 720.73 * | | | | | | | | |
| D-1A | 721.69 * | | | | | | | | |
| D-3 | 714.51 | | | | | | | | |
| D-4 | 717.85 | | | | | | | | |
| D-5 | 712.14 | | | | | | | | |
| D-7 | 713.83 | | | | | | | | |
| D-8 | 717.04 | | | | | | | | |
| D-9 | 717.00 * | | | | | | | | |
| D-10 | 716.53 | | | | | | | | |
| D-11 | 723.47 | | | | | | | | |
| D-12 | 710.29 | | | | | | | | |

| WELL NO. | REFERENCE ELEVATION | WATER DEPTH | WATER ELEVATION | WATER DEPTH | WATER ELEVATION | WATER DEPTH | WATER ELEVATION |
|----------|---------------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| 1-1 | 711.52 | | | | | | |
| 1-0 | 714.17 | 17.44 | 696.73 | | | | |
| 2-0 | 715.36 | 19.31 | 697.61 | | | | |
| 3-0 | 713.29 | NM | | | | | |
| 4-0 | 712.10 | NM | | | | | |
| 5-0 | 712.01 | 25.03 | 686.98 | | | | |
| 6-0 | 711.41 | NM | | | | | |
| 7-0 | 714.85 | 22.04 | 692.81 | | | | |
| 8-0 | 714.56 | 20.90 | 693.66 | | | | |

NM = NOT MEASURED THIS DATE

OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.

1 = SURVEYED BY LANG, FEENEY & ASSOC., INC. 9/87. WATER ELEVATIONS PRIOR TO JULY 1987 ARE BASED ON FORMER REFERENCE ELEVATIONS.

* = FORMER REFERENCE ELEVATIONS

TABLE 2

WATER LEVEL MEASUREMENTS

PAGE 3 OF 6

GROUNDWATER INVESTIGATIONS
ALLIED COMPLEX
SOUTH BEND, INDIANA
PROJECT # ALCMPX 020

T A GLEASON ASSOCIATES
Environmental and Geotechnical Services



| WELL NO. | REFERENCE ELEVATION | 12/06-07/88 | | 09/21-25/88 | | 05/17/88 | | 02/03/88 | | 01/2/88 | | NOTES: |
|----------|---------------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|--|
| | | WATER DEPTH | WATER ELEVATION | WATER DEPTH | WATER ELEVATION | WATER DEPTH | WATER ELEVATION | WATER DEPTH | WATER ELEVATION | WATER DEPTH | WATER ELEVATION | |
| D-1 | 720.73 * | NM | | NM | | NM | | NM | | NM | | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. 1 = SURVEYED BY LANG, FEENEY & ASSOC., INC. 9/87. WATER ELEVATIONS PRIOR TO JULY 1987 ARE BASED ON FORMER REFERENCE ELEVATIONS. * = FORMER REFERENCE ELEVATIONS |
| D-1A | 721.69 * | NM | | NM | | NM | | NM | | NM | | |
| D-3 | 714.51 | 18.88 | 695.63 | 18.67 | 695.84 | 17.52 | 696.99 | 18.06 | 696.45 | 18.06 | 696.45 | |
| D-4 | 717.85 | 22.12 | 695.73 | 21.27 | 696.58 | 20.26 | 697.59 | 20.70 | 697.15 | 20.70 | 697.15 | |
| D-5 | 712.14 | 16.01 | 696.13 | 15.90 | 696.24 | 14.94 | 697.20 | 15.30 | 696.84 | 15.31 | 696.83 | |
| D-7 | 713.83 | 17.15 | 696.68 | 17.04 | 696.79 | 16.00 | 697.83 | 16.40 | 697.43 | 16.42 | 697.41 | |
| D-8 | 717.04 | 21.61 | 695.43 | 20.11 | 696.93 | 19.01 | 698.03 | 19.48 | 697.56 | 19.50 | 697.54 | |
| D-9 | 717.00 * | NM | | NM | | NM | | NM | | NM | | |
| D-10 | 716.53 | 18.65 | 697.88 | 18.76 | 697.77 | 17.12 | 699.41 | 17.98 | 698.55 | 18.00 | 698.53 | |
| D-11 | 723.47 | 20.07 | 703.40 | 20.83 | 702.64 | 20.14 | 703.33 | 20.52 | 702.95 | 20.53 | 702.94 | |
| D-12 | 710.29 | 22.90 | 687.39 | 23.93 | 686.36 | 21.47 | 688.82 | 21.99 | 688.30 | 22.30 | 687.99 | |
| I-1 | 711.52 | 16.85 | 694.67 | 17.34 | 694.18 | 16.38 | 695.14 | 16.69 | 694.83 | 16.76 | 694.76 | |
| 1-0 | 714.17 | 17.35 | 696.82 | | | 15.84 | 698.33 | 16.35 | 697.82 | 16.32 | 697.85 | |
| 2-0 | 715.36 | 19.11 | 696.25 | 18.35 | 697.01 | 17.23 | 698.13 | 17.74 | 697.60 | 17.75 | 697.61 | |
| 3-0 | 713.29 | NM | | 19.40 | 693.89 | 17.81 | 695.48 | 18.20 | 695.09 | 18.22 | 695.07 | |
| 4-0 | 712.10 | NM | | 23.56 | 688.54 | 22.01 | 690.09 | 22.48 | 689.62 | 22.56 | 689.54 | |
| 5-0 | 712.01 | NM | | 25.05 | 686.96 | 22.81 | 689.20 | 23.10 | 688.91 | 23.53 | 688.48 | |
| 6-0 | 711.41 | 23.96 | 687.45 | 24.95 | 686.46 | 22.79 | 688.62 | 23.19 | 688.22 | 23.39 | 688.02 | |
| 7-0 | 714.85 | 21.98 | 692.87 | 18.63 | 696.22 | 17.55 | 697.30 | 17.84 | 697.01 | 17.85 | 697.00 | |
| 8-0 | 714.56 | 20.78 | 693.78 | 17.88 | 696.68 | 16.80 | 697.76 | 17.17 | 697.39 | 17.17 | 697.39 | |

TABLE 2

WATER LEVEL MEASUREMENTS

PAGE 4 OF 6

GROUNDWATER INVESTIGATIONS
 ALLIED COMPLEX
 SOUTH BEND, INDIANA
 PROJECT # ALCMPX 020

T A GLEASON ASSOCIATES
 Environmental and Geotechnical
 Services





| WELL NO. | REFERENCE ELEVATION | 12/06-07/88 | 09/21-25/88 | 05/17/88 | 02/3/88 | 01/2/88 | NOTES: |
|----------|---------------------|-------------|-------------|-------------|-------------|-------------|---|
| | | WATER DEPTH | WATER DEPTH | WATER DEPTH | WATER DEPTH | WATER DEPTH | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. |
| | | ELEVATION | ELEVATION | ELEVATION | ELEVATION | ELEVATION | |
| 86-1 | 715.70 * | NM | NM | NM | NM | NM | |
| 86-2 | 714.98 * | NM | NM | NM | NM | NM | |
| 86-4 | 715.09 * | NM | NM | NM | NM | NM | |
| 86-5 | 715.04 * | NM | NM | NM | NM | NM | 1 = SURVEYED BY LANG, FEENEY & ASSOC., INC. 9/87. |
| 86-6 | *** | NM | NM | NM | NM | NM | WATER ELEVATIONS PRIOR TO JULY 1987 ARE BASED ON FORMER REFERENCE ELEVATIONS; |
| 86-7 | 714.15 | 16.27 | 697.88 | 15.54 | 698.61 | 16.12 | 698.03 |
| 86-8 | 714.62 * | 17.20 | 697.42 | NM | NM | NM | |
| 86-9 | 715.25 * | 17.91 | 697.34 | NM | 697.39 | NM | |
| 86-10 | 715.06 | 18.02 | 697.04 | 16.49 | 698.57 | 17.43 | 697.63 |
| 86-11 | 715.14 * | 18.17 | 696.97 | NM | NM | NM | |
| 86-12 | 715.71 * | 18.72 | 696.99 | NM | NM | NM | |
| 86-13 | 714.75 | 17.47 | 697.28 | NM | 697.31 | NM | |
| 86-14 | 715.05 * | 17.95 | 697.10 | NM | 697.50 | NM | * = FORMER REFERENCE ELEVATIONS |
| 86-15 | 715.06 * | 17.96 | 697.10 | 16.34 | 697.82 | 17.1 | 697.63 |
| 86-18 | 714.84 | NM | 18.53 | 17.69 | 697.15 | 18.21 | 696.63 |
| 86-19 | 714.33 | NM | NM | NM | NM | NM | 18.22 |
| 86-20 | 713.07 * | NM | NM | NM | NM | NM | 696.62 |
| 86-21 | 713.76 * | NM | NM | NM | NM | NM | *** = NO REFERENCE ELEVATION |
| 7-25 | 720.47 | NM | NM | 20.31 | 700.16 | 20.8 | 699.67 |
| 7-50 | 719.83 | 20.12 | 699.71 | 19.97 | 699.86 | 20.21 | 699.62 |
| 8-27 | 715.45 * | NM | NM | NM | NM | NM | 699.59 |
| 9-33 | 716.69 | 18.20 | 698.49 | 17.99 | 698.7 | 18.37 | 698.32 |
| OW-1 | *** | 15.05 | 14.89 | NM | NM | NM | 14.36 |
| OW-2 | *** | 15.12 | 14.95 | NM | NM | NM | 14.40 |
| S4-A | *** | 15.42 | 14.87 | 13.9 | NM | NM | 14.21 |
| RWB-6 | 715.80 | NM | 19.59 | 18.65 | 697.15 | 19.02 | 696.78 |
| RWB-16 | 715.30 | 18.92 | 696.38 | 17.78 | 697.52 | 18.29 | 697.01 |
| RWB-21 | 717.62 | 21.96 | 695.66 | 20.82 | 696.8 | 21.14 | 696.48 |
| RWB-22 | 715.11 | NM | 22.13 | 18.01 | 697.1 | 18.43 | 696.68 |
| RWE-3 | 714.50 | NM | 19.92 | 19.21 | 695.29 | 19.52 | 694.98 |

TABLE 2

WATER LEVEL MEASUREMENTS

PAGE 6 OF 6

GROUNDWATER INVESTIGATIONS

ALLIED COMPLEX

SOUTH BEND, INDIANA

PROJECT # ALCMPX 020

T A GLEASON ASSOCIATES

Environmental and Geotechnical Services



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | SU | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L | |
|------------------------------|----------|----------|------|----------------------|------|--------|----|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|--|
| 1-D | 13 | 01/09/87 | AQUA | | | | | <1 | <8 | <0.4 | 3 | 40 | <4 | 240 | <0.3 | 12 | <4 | <4 | <1 | 44 | | | |
| | 1 | 02/12/87 | AQUA | 1300 | | 11 | | | | | | 18 | | 52 | | | | | | 14 | | | |
| | 13 | 06/05/87 | AQUA | 1250 | 7.62 | 13 | | | | | | <5 | | 5 | | | | | | 20 | 0.022 | <0.010 | |
| | 22 | 09/04/87 | AQUA | 1200 | 7.71 | 14 | | | | | | 20 | | 39 | | | | | | 160 | 0.009 | 0.048 | |
| | 13 | 01/14/88 | AQUA | 1400 | 6.47 | 10 | | | | | | <20 | | <30 | | | | | | 10 | <0.02 | <0.010 | |
| | 16 | 02/09/88 | AQUA | 2200 | 7.32 | 13 | | | | | | 30 | | <3 | | | | | | <10 | <0.01 | <0.010 | |
| | 11 | 05/18/88 | AQUA | 1400 | 7.26 | 14 | | | | | | <30 | | <5 | | | | | | 21 | <0.01 | <0.01 | |
| | 11 | 09/23/88 | AQUA | 1380 | 6.95 | 13 | | | | | | <30 | | <6 | | | | | | <20 | <0.01 | 0.02 | |
| | 33 | 12/11/88 | AQUA | 1523 | | 14 | | | | | | <30 | | <5 | | | | | | <20 | <0.01 | 0.01 | |
| ===== | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE | | | | | | | | | | | | | | | | | | | | | | | |
| AND PHENOLS | | | | | | | | | | | | | | | | | | | | | | | |
| PAGE 1 OF 27 | | | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | | | |
| ===== | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCOMPX SBIN 020 | | | | | | | | | | | | | | | | | | | | | | | |
| ===== | | | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | | |
| ===== | | | | | | | | | | | | | | | | | | | | | | | |
| Environmental and | | | | | | | | | | | | | | | | | | | | | | | |
| Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | | |
| ===== | | | | | | | | | | | | | | | | | | | | | | | |

NOTES:

OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.

< = LESS THAN

METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER

BLANK SPACE INDICATES ANALYSIS NOT PERFORMED

TABLE 3



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L | NOTES |
|----------|----------|----------|------|----------------------|------|--------|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|--|
| 2-D | 2 | 12/18/86 | AQUA | | | | <6 | 7 | <1 | <1 | <10 | 16 | 20 | <0.3 | 16 | <8 | <4 | <9 | 120 | | | METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER |
| | 11 | 06/05/87 | AQUA | 1200 | 7.69 | 17 | | | | <5 | | | <3 | | | | | | 10 | 0.013 | <0.010 | |
| | 19 | 09/03/87 | AQUA | 1150 | 7.81 | 15 | | | | <10 | | | <3 | | | | | | 12 | <0.005 | 0.722 | |
| | 34 | 01/15/88 | AQUA | 1390 | 7.18 | 13 | | | | <20 | | | <30 | | | | | | 10 | <0.02 | 0.015 | BLANK SPACE INDICATES ANALYSIS NOT PERFORMED |
| | 11 | 02/09/88 | AQUA | 2550 | 7.39 | 13 | | | | <20 | | | <3 | | | | | | 10 | <0.01 | 2.8 | |
| | 24 | 05/19/88 | AQUA | 1470 | 7.39 | 15 | | | | <30 | | | <5 | | | | | | <20 | <0.01 | <0.01 | |
| | 20 | 09/24/88 | AQUA | 1005 | 7.10 | 16 | | | | <30 | | | <6 | | | | | | <20 | <0.01 | 0.02 | |
| | 27 | 12/10/88 | AQUA | 2060 | | 14.5 | | | | 30 | | | <5 | | | | | | <20 | <0.01 | 0.01 | |
| | 28 | 12/10/88 | AQUA | 2060 | | 14.5 | | | | <30 | | | <5 | | | | | | <20 | <0.01 | <0.01 | TABLE 3 |
| | 19 | 02/24/89 | AQUA | 1191 | 7.25 | 13 | | | | <30 | | | <5 | | | | | | <20 | <0.01 | 0.02 | GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS |
| | | | | | | | | | | | | | | | | | | | | | | PAGE 2 OF 27 |
| | | | | | | | | | | | | | | | | | | | | | | MONITOR WELLS |
| | | | | | | | | | | | | | | | | | | | | | | GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCHPX SBIN 020 |
| | | | | | | | | | | | | | | | | | | | | | | T A GLEASON ASSOCIATES Environmental and Geotechnical Services |



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC ION CONDUCTANCE | | | | | | | | | | | TEMP C | SU | PH | NOTES: | | | | | | | | | | |
|----------|----------|----------|------|--------------------------|-----------------|-------------------|-----------------|------------------|----------------|--------------|-----------------|----------------|------------------|----------------|-----------|-----|--------|------------------|--|-----------------|-----------------|---|---------------|--|--|--|--|--|
| | | | | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | | | | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. | < = LESS THAN | | | | | |
| 5-D | 4 | 12/18/86 | AQUA | <6 | <4 | <1 | <1 | <10 | 8 | <6 | <0.3 | <10 | <16 | 4 | <12 | 52 | | | METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER | | | | | | | | | |
| | 5 | 12/18/86 | AQUA | <6 | <1 | <1 | 2 | <10 | 8 | <6 | <0.3 | <10 | <16 | <4 | <9 | 40 | | | | | | | | | | | | |
| | 19 | 06/15/87 | AQUA | | | | | <5 | | <3 | | | | | | 10 | 0.013 | <0.010 | | | | | | | | | | |
| | 15 | 09/06/87 | AQUA | | | | | <10 | | <3 | | | | | | 16 | <0.005 | <0.010 | | | | | | | | | | |
| | 12 | 01/14/88 | AQUA | | | | | <20 | | <30 | | | | | | 10 | <0.02 | <0.010 | BLANK SPACE INDICATES ANALYSIS NOT PERFORMED | | | | | | | | | |
| | 21 | 02/09/88 | AQUA | | | | | 20 | | <3 | | | | | | <10 | <0.01 | 0.039 | | | | | | | | | | |
| | 14 | 05/18/88 | AQUA | | | | | <30 | | <5 | | | | | | <20 | <0.01 | 0.02 | | | | | | | | | | |
| | 15 | 09/23/88 | AQUA | | | | | <30 | | <6 | | | | | | <20 | <0.01 | 0.04 | | | | | | | | | | |
| | 9 | 12/08/88 | AQUA | | | | | <30 | | <5 | | | | | | <20 | <0.01 | <0.01 | TABLE 3 | | | | | | | | | |
| | 31 | 02/25/89 | AQUA | | | | | <30 | | <5 | | | | | | <20 | <0.01 | 0.02 | GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | PAGE 3 OF 27 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | MONITOR WELLS | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | GROUNDWATER INVESTIGATIONS | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | ALLIED CORPORATION | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | SOUTH BEND, INDIANA | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | PROJECT ALCPX SBIN 020 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | T A GLEASON ASSOCIATES | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | Environmental and Geotechnical Services | | | | | | | | | |



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP | ANTIMONY | ARSENIC | BERYLLIUM | CADIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | |
|---|----------|----------|------|----------------------|------|------|----------|---------|-----------|--------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|------|
| | | | | (UMHOS/CM) | SU | C | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L |
| 7-D | 29 | 09/01/87 | AQUA | 1100 | 7.17 | 16 | | | | <10 | | | <3 | | | | | | 24 | <0.01 | <0.01 | |
| | 30 | 01/15/88 | AQUA | 1380 | 7.07 | 14 | | | | <20 | | | <30 | | | | | | 10 | <0.02 | 0.05 | |
| | 15 | 02/09/88 | AQUA | 1975 | 7.33 | 13 | | | | 40 | | | <3 | | | | | | 40 | <0.01 | 0.031 | |
| | 22 | 05/19/88 | AQUA | 1530 | 7.24 | 16 | | | | <30 | | | <5 | | | | | | 30 | <0.01 | <0.01 | |
| | 18 | 09/24/88 | AQUA | 995 | 7.05 | 17 | | | | <30 | | | <6 | | | | | | <20 | <0.01 | 0.03 | |
| | 31 | 12/10/88 | AQUA | 2390 | | 14.5 | | | | 30 | | | <5 | | | | | | <20 | <0.01 | 0.01 | |
| | 34 | 02/25/89 | AQUA | 1655 | 7.25 | 14 | | | | <30 | | | <5 | | | | | | <20 | <0.01 | 0.02 | |
| TABLE 3 | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE | | | | | | | | | | | | | | | | | | | | | | |
| AND PHENOLS | | | | | | | | | | | | | | | | | | | | | | |
| PAGE 4 OF 27 | | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALMPX SBIN 020 | | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | |
| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | |

NOTES:

OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.

< = LESS THAN

METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER

BLANK SPACE INDICATES ANALYSIS NOT PERFORMED



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC | | | | | | | | | | | | | | NOTES: | | | |
|--|----------|----------|------|----------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|--------|---------|---------|--|
| | | | | PH | TEMP | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. |
| | | | | SU | C | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L | |
| 8-D | 30 | 09/04/87 | AQUA | 1300 | 7.29 | 16 | | | | <10 | | <3 | | | | | | 28 | 0.014 | <0.010 | METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER |
| | 28 | 01/15/88 | AQUA | 2200 | 6.84 | 11 | | | | <20 | | <30 | | | | | | 10 | <0.02 | 0.01 | |
| | 29 | 01/15/88 | AQUA | 2200 | 6.84 | 11 | | | | <20 | | <30 | | | | | | 10 | <0.02 | 0.01 | |
| | 13 | 02/09/88 | AQUA | 2700 | 7.40 | 13 | | | | <20 | | <3 | | | | | | 20 | 0.14 | 0.089 | BLANK SPACE INDICATES ANALYSIS NOT PERFORMED |
| | 14 | 02/09/88 | AQUA | 2700 | 7.40 | 13 | | | | <20 | | <3 | | | | | | 10 | 0.14 | 0.034 | |
| | 23 | 05/19/88 | AQUA | 2100 | 7.32 | 15 | | | | <30 | | <5 | | | | | | <20 | <0.01 | 0.04 | |
| | 19 | 09/24/88 | AQUA | 1480 | 6.90 | 17.5 | | | | <30 | | <6 | | | | | | <20 | 0.01 | 0.08 | |
| | 32 | 12/10/88 | AQUA | 2180 | | 14 | | | | <30 | | <5 | | | | | | <20 | 0.03 | 0.02 | |
| TABLE 3 | | | | | | | | | | | | | | | | | | | | | |
| | 35 | 02/25/89 | AQUA | 1822 | 7.10 | 14 | | | | <30 | | <10 | | | | | | <20 | 0.08 | 0.02 | GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS |
| PAGE 5 OF 27 MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCPX SBIN 020 T A GLEASON ASSOCIATES Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | |





| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L | | |
|----------|----------|----------|------|----------------------|------|--------|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|--|--|
| 86-10 | 8* | 08/02/86 | AQUA | 1620 | 6.62 | 20.4 | | | <5 | 30 | 68 | | | | | | | | | | | | |
| | 9 | 08/02/86 | AQUA | | | | | | | | | | | | | | | | | | | | |
| | 116 | 10/10/86 | AQUA | 1900 | | | | | | | | | | | | | | | | | | | |
| | 316 | 10/10/86 | AQUA | | | | <6 | <4 | <1 | 4 | <20 | 40 | 21 | <0.3 | 20 | <8 | <10 | <15 | 30 | | | | |
| | 22 | 02/24/89 | AQUA | 1413 | 7.25 | 14 | | | | <30 | <5 | | | | | | | | 20 | <0.01 | 0.03 | | |

NOTES:
OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.
< = LESS THAN

METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER
* = TIN <6

BLANK SPACE INDICATES ANALYSIS NOT PERFORMED

TABLE 3

GROUNDWATER QUALITY ANALYSIS
METALS, CYANIDE
AND PHENOLS
PAGE 7 OF 27
MONITOR WELLS
GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT ALCHPX SBIN 020
T A GLEASON ASSOCIATES
Environmental and Geotechnical Services











| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | NOTES: |
|----------|----------|----------|------|----------------------|------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|--|
| | | | | UMHOS/CM | SU | C | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. |
| | | | | | | | | | | | | | | | | | | | | | | < = LESS THAN |
| S-4 | 107 | 09/28/86 | AQUA | 1930 | 6.88 | | | | | | | | | | | | | | | | | METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER |
| | 307 | 09/28/86 | AQUA | | | | <20 | 44 | <2 | <4 | 24 | 200 | 68 | <0.3 | 44 | <40 | 4 | | 920 | | | |
| S-4A | 22 | 06/05/87 | AQUA | 1600 | 7.48 | 16 | | | | | <5 | | <3 | | | | | | 30 | 0.028 | >0.010 | BLANK SPACE INDICATES ANALYSIS NOT PERFORMED |
| | 27 | 09/04/87 | AQUA | 1700 | 6.94 | 15 | | | | | <10 | | 3 | | | | | | 24 | 0.008 | 0.035 | |
| | 25 | 01/14/88 | AQUA | 2000 | 6.49 | 13 | | | | | <20 | | <30 | | | | | | 10 | 0.02 | 0.08 | |
| | 6 | 02/08/88 | AQUA | 2500 | 7.20 | 13 | | | | | <20 | | <3 | | | | | | 60 | 0.01 | 7.6 | |
| | 7 | 5/18/88 | AQUA | 1700 | 7.27 | 14 | | | | | 44 | | <5 | | | | | | 48 | <0.01 | <0.01 | |
| | 8 | 5/18/88 | AQUA | | | | | | | | <30 | | <5 | | | | | | 43 | <0.01 | <0.01 | TABLE 3 |
| | 7 | 09/22/88 | AQUA | 1655 | 6.95 | 16.5 | | | | | <30 | | <6 | | | | | | <20 | <0.01 | 0.07 | GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS |
| | 8 | 09/22/88 | AQUA | | | | | | | | <30 | | <6 | | | | | | <20 | <0.01 | 0.04 | PAGE 12 OF 27 |
| | 26 | 12/10/88 | AQUA | 2960 | | 14.5 | | | | | <30 | | <5 | | | | | | <20 | <0.01 | 0.01 | MONITOR WELLS |
| | | | | | | | | | | | | | | | | | | | | | | GROUNDWATER INVESTIGATIONS |
| | 43 | 02/27/89 | AQUA | 1593 | 6.85 | 14 | | | | | <30 | | <10 | | | | | | 40 | <0.01 | 0.03 | ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCPX S81N 020 |
| | | | | | | | | | | | | | | | | | | | | | | T A GLEASON ASSOCIATES Environmental and Geotechnical Services |





S14MCPHU
23-Mar-89

| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | SU | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L | |
|--|----------|----------|------|----------------------|------|--------|----|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|--|
| S-14 | 21 | 11/06/86 | AQUA | | | | | <3 | <4 | <1 | 1 | <10 | 40 | 16 | <0.3 | 16 | <8 | <4 | <3 | 370 | <0.010 | <0.010 | |
| | 5 | 06/05/87 | AQUA | 1400 | 7.39 | 15 | | | | | | <5 | | <3 | | | | | | 10 | 0.048 | <0.010 | |
| | 7 | 09/03/87 | AQUA | 1400 | 7.28 | 14 | | | | | | <10 | | <3 | | | | | | 48 | <0.005 | <0.010 | |
| | 23 | 01/14/88 | AQUA | 2300 | 6.77 | 11 | | | | | | <20 | | <20 | | | | | | 20 | <0.02 | <0.010 | |
| | 5 | 02/08/88 | AQUA | 3000 | 7.41 | 12 | | | | | | <20 | | <3 | | | | | | 70 | <0.01 | <0.010 | |
| | 5 | 05/18/88 | AQUA | 2200 | 7.36 | 14 | | | | | | <30 | | <5 | | | | | | 71 | <0.01 | <0.01 | |
| | 5 | 09/23/88 | AQUA | 1320 | 6.95 | 18.5 | | | | | | <30 | | <6 | | | | | | 20 | <0.01 | 0.10 | |
| | 23 | 12/10/88 | AQUA | 1530 | | 14 | | | | | | <30 | | <5 | | | | | | <20 | <0.01 | 0.03 | |
| <p>NOTES:</p> <p>OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.</p> <p>< = LESS THAN</p> <p>METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICROM FILTER</p> <p>BLANK SPACE INDICATES ANALYSIS NOT PERFORMED</p> <p>TABLE 3</p> <p>GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS</p> <p>PAGE 14 OF 27</p> <p>MONITOR WELLS</p> <p>GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCPX S81N 020</p> <p>T A GLEASON ASSOCIATES</p> <p>Environmental and Geotechnical Services</p> | | | | | | | | | | | | | | | | | | | | | | | |



S15MCPM
23-Mar-89

| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | |
|---|----------|----------|------|----------------------|------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|------|
| | | | | UMHOS/CM | SU | C | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L |
| S-15 | 27 | 11/06/86 | AQUA | | | | <6 | <4 | <1 | <1 | 16 | 48 | 16 | <0.3 | 16 | <12 | <4 | <3 | 120 | <0.010 | <0.010 | |
| | 23 | 12/18/86 | AQUA | | | | <3 | <4 | <1 | <1 | <10 | 20 | <15 | <0.3 | 16 | <4 | 8 | <15 | 48 | <0.010 | <0.010 | |
| | 6 | 06/05/87 | AQUA | 1700 | 7.27 | 16 | | | | | <5 | | <3 | | | | | | 10 | 0.041 | 0.01 | |
| | 5 | 09/03/87 | AQUA | 1625 | 7.18 | 15 | | | | | <10 | | <3 | | | | | | 4 | <0.005 | <0.010 | |
| | 6 | 09/03/87 | AQUA | 1625 | 7.18 | 15 | | | | | <10 | | <3 | | | | | | 12 | <0.005 | <0.010 | |
| | 24 | 01/14/88 | AQUA | 2300 | 6.42 | 12 | | | | | <20 | | <30 | | | | | | 10 | <0.02 | 0.01 | |
| | 4 | 02/08/88 | AQUA | 2650 | 7.30 | 12 | | | | | <20 | | <3 | | | | | | 10 | <0.01 | 0.034 | |
| | 6 | 5/18/88 | AQUA | 2300 | 7.22 | 14 | | | | | <30 | | <5 | | | | | | 21 | <0.01 | 0.04 | |
| | 6 | 09/23/88 | AQUA | 1800 | 6.85 | 18.5 | | | | | <30 | | <6 | | | | | | <20 | <0.01 | 0.06 | |
| | 24 | 12/10/88 | AQUA | 3060 | | 14 | | | | | <30 | | <5 | | | | | | <20 | <0.01 | 0.08 | |
| METALS, CYANIDE AND PHENOLS | | | | | | | | | | | | | | | | | | | | | | |
| PAGE 15 OF 27 | | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCPX SBIN 020 | | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | |
| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | |

NOTES:
OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.
< = LESS THAN

METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER

BLANK SPACE INDICATES ANALYSIS NOT PERFORMED

TABLE 3

GROUNDWATER QUALITY ANALYSIS







| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP | SU | C | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS |
|--|----------|----------|------|----------------------|------|------|------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|--------|---------|---------|
| | | | | UMHOS/CM | | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L |
| S-20 | 30 | 11/07/86 | AQUA | | | | <3 | <4 | <1 | <1 | 16 | 16 | 25 | <0.3 | <10 | <8 | <4 | <6 | 64 | 0.02 | <0.010 | | |
| | 16 | 06/05/87 | AQUA | 1200 | 7.41 | 13 | | | | | <5 | | <3 | | | | | | | | 10 | 0.026 | <0.010 |
| | 10 | 09/03/87 | AQUA | 1250 | 7.33 | 14 | | | | | <10 | | <3 | | | | | | | | 12 | <0.005 | 0.011 |
| | 7 | 01/13/88 | AQUA | 1830 | 6.78 | 12 | | | | | <20 | | <30 | | | | | | | | 10 | <0.02 | 0.07 |
| | 19 | 02/09/88 | AQUA | 3100 | 7.10 | 12 | | | | | <20 | | <3 | | | | | | | | 10 | <0.01 | 1.48 |
| | 19 | 5/18/88 | AQUA | 1750 | 7.17 | 14 | | | | | <30 | | <5 | | | | | | | | 33 | <0.01 | <0.01 |
| | 23 | 09/25/88 | AQUA | 1890 | 6.50 | 14 | | | | | <30 | | <6 | | | | | | | | <20 | <0.01 | 0.16 |
| | 24 | 09/25/88 | AQUA | | | | | | | | <30 | | <6 | | | | | | | | <20 | <0.01 | 0.07 |
| | 5 | 12/08/88 | AQUA | 1593 | 8.75 | 12.5 | | | | | <30 | | <5 | | | | | | | | <20 | <0.01 | 0.02 |
| <p>NOTES:</p> <p>OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.</p> <p>< = LESS THAN</p> <p>METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER</p> <p>BLANK SPACE INDICATES ANALYSIS NOT PERFORMED</p> <p>TABLE 3</p> <p>GROUNDWATER QUALITY ANALYSIS</p> <p>METALS, CYANIDE AND PHENOLS</p> <p>PAGE 18 OF 27</p> <p>MONITOR WELLS</p> <p>GROUNDWATER INVESTIGATIONS</p> <p>ALLIED CORPORATION</p> <p>SOUTH BEND, INDIANA</p> <p>PROJECT ALCPX SBIN 020</p> <p>T A GLEASON ASSOCIATES</p> <p>Environmental and Geotechnical Services</p> | | | | | | | | | | | | | | | | | | | | | | | |



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | SU | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L | NOTES |
|----------|----------|----------|------|----------------------|------|--------|----|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|--|
| S-21 | 17 | 11/06/86 | AQUA | | | | | <6 | <4 | <1 | <1 | 20 | 20 | 33 | <0.3 | 20 | <100 | <4 | <3 | 160 | <0.01 | <0.010 | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. |
| | 17 | 06/05/87 | AQUA | 1150 | 7.80 | 13 | | | | | | <5 | | <3 | | | | | | <10 | 0.023 | 0.080 | < = LESS THAN |
| | 18 | 06/05/87 | AQUA | 1150 | 7.80 | 13 | | | | | | <5 | | <3 | | | | | | 10 | 0.031 | 0.114 | |
| | 14 | 09/03/87 | AQUA | 1100 | 7.72 | 14 | | | | | | <10 | | <3 | | | | | | 4 | <0.005 | <0.010 | METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER |
| | 11 | 01/14/88 | AQUA | 1450 | 6.53 | 10 | | | | | | <20 | | <30 | | | | | | <10 | <0.05 | 0.06 | BLANK SPACE INDICATES ANALYSIS NOT PERFORMED |
| | 22 | 02/09/88 | AQUA | 2350 | 6.95 | 12 | | | | | | 20 | | <3 | | | | | | <10 | <0.01 | 0.055 | |
| | 13 | 5/18/88 | AQUA | 1200 | 7.07 | 13 | | | | | | <30 | | <5 | | | | | | <20 | <0.01 | <0.01 | |
| | 13 | 09/23/88 | AQUA | 1650 | 6.90 | 13 | | | | | | <30 | | <6 | | | | | | <20 | <0.01 | 0.04 | |
| | 10 | 12/09/88 | AQUA | 2480 | | 12.5 | | | | | | <30 | | <5 | | | | | | <20 | <0.01 | <0.01 | TABLE 3 |
| | | | | | | | | | | | | | | | | | | | | | | | GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS |
| | 10 | 02/23/89 | AQUA | 1164 | 6.85 | 11 | | | | | | <30 | | <10 | | | | | | <20 | <0.01 | 0.05 | PAGE 19 OF 27 MONITOR WELLS |
| | | | | | | | | | | | | | | | | | | | | | | | GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCHPX SBIN 020 |
| | | | | | | | | | | | | | | | | | | | | | | | T A GLEASON ASSOCIATES Environmental and Geotechnical Services |



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS |
|------------------------------|----------|----------|------|----------------------|------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|
| | | | | U/RHDS/CM | SU | C | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L |
| S-22 | 18 | 11/06/86 | AQUA | | | | <3 | <4 | <1 | <1 | 12 | <4 | 12 | <0.3 | <10 | <40 | 4 | <3 | 28 | <0.01 | <0.010 |
| | 20 | 06/05/87 | AQUA | 1000 | 7.64 | 13 | | | | | <5 | | <3 | | | | | | 10 | 0.063 | 0.018 |
| | 12 | 09/03/87 | AQUA | 1050 | 7.51 | 14 | | | | | <10 | | <3 | | | | | | 8 | <0.005 | 0.133 |
| | 8 | 01/14/88 | AQUA | 1180 | 6.79 | 9 | | | | | <20 | | <30 | | | | | | 10 | <0.02 | 0.03 |
| | 23 | 02/09/88 | AQUA | 2000 | 6.49 | 12 | | | | | <20 | | <3 | | | | | | <10 | <0.01 | 0.024 |
| | 15 | 05/18/88 | AQUA | 1300 | 6.68 | 11 | | | | | <30 | | <5 | | | | | | <20 | <0.01 | 0.03 |
| | 16 | 05/18/88 | AQUA | | | | | | | | <30 | | <5 | | | | | | <20 | <0.01 | <0.01 |
| | 22 | 09/25/88 | AQUA | 1460 | 6.75 | 13 | | | | | <30 | | <6 | | | | | | <20 | <0.01 | 0.11 |
| | 6 | 12/08/88 | AQUA | 1688 | 8.40 | 12.5 | | | | | <30 | | <5 | | | | | | <20 | <0.01 | <0.01 |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE | | | | | | | | | | | | | | | | | | | | | |
| AND PHENOLS | | | | | | | | | | | | | | | | | | | | | |
| PAGE 20 OF 27 | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCHPX S81N 020 | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | |
| Environmental and | | | | | | | | | | | | | | | | | | | | | |
| Geotechnical Services | | | | | | | | | | | | | | | | | | | | | |

NOTES:

OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.

< = LESS THAN

METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER

BLANK SPACE INDICATES ANALYSIS NOT PERFORMED

TABLE 3



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | SU | ANTHRONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | NOTES: | |
|--|----------|----------|------|----------------------|------|--------|----|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|--|--|
| | | | | UMHOS/CM | | | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. < = LESS THAN |
| S-23 | 19 | 11/06/86 | AQUA | | | | | <3 | <4 | <1 | 1 | 12 | 8 | 34 | <0.3 | <10 | <16 | 4 | <3 | 120 | <0.01 | <0.010 | METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER | |
| | 21 | 06/05/87 | AQUA | 1000 | 7.59 | 13 | | | | | | <5 | | <3 | | | | | | 10 | 0.032 | 0.242 | | |
| | 13 | 09/03/87 | AQUA | 1000 | 7.27 | 14 | | | | | | <10 | | <3 | | | | | | 8 | 0.009 | 0.64 | | |
| | 9 | 01/13/88 | AQUA | 1175 | 6.89 | 11 | | | | | | <20 | | <30 | | | | | | 10 | <0.02 | <0.010 | BLANK SPACE INDICATES ANALYSIS NOT PERFORMED | |
| | 24 | 02/09/88 | AQUA | 2050 | 7.31 | 12 | | | | | | <20 | | <3 | | | | | | <10 | 0.01 | 0.108 | | |
| | 17 | 5/18/88 | AQUA | 1060 | 7.22 | 12 | | | | | | <30 | | <5 | | | | | | <20 | <0.01 | <0.01 | | |
| | 17 | 09/24/88 | AQUA | 620 | 6.95 | 14 | | | | | | <30 | | <6 | | | | | | <20 | <0.01 | 0.05 | | |
| | 7 | 12/08/88 | AQUA | 1832 | | 14 | | | | | | <30 | | <5 | | | | | | <20 | <0.01 | 0.02 | | |
| TABLE 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | 02/22/89 | AQUA | 927 | 7.35 | 13 | | | | | | <30 | | <5 | | | | | | 20 | <0.01 | <0.01 | GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS | |
| PAGE 21 OF 27 MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCHPX SBIN 020 | | | | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | | | |



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L |
|--|----------|----------|------|----------------------|------|--------|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|
| S-24 | 25 | 09/04/87 | AQUA | 1350 | 6.96 | 14 | | | | | <10 | | 25 | | | | | | 88 | <0.005 | 0.017 |
| | 28 | 05/19/88 | AQUA | 1600 | 7.32 | 11 | | | | | <30 | | <5 | | | | | | <20 | <0.01 | 0.02 |
| | 26 | 09/25/88 | AQUA | 1920 | 6.60 | 13 | | | | | <30 | | <6 | | | | | | <20 | <0.01 | <0.01 |
| | 1 | 12/08/88 | AQUA | 1464 | 7.4 | 13.5 | | | | | <30 | | <5 | | | | | | 20 | <0.01 | <0.01 |
| | 33 | 02/22/89 | AQUA | 1102 | 7.75 | 12 | | | | | <30 | | <5 | | | | | | <20 | <0.01 | 0.02 |
| <p>NOTES:</p> <p>OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.</p> <p>< = LESS THAN</p> <p>METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER</p> <p>BLANK SPACE INDICATES ANALYSIS NOT PERFORMED</p> | | | | | | | | | | | | | | | | | | | | | |
| <p>TABLE 3</p> <p>GROUNDWATER QUALITY ANALYSIS</p> <p>METALS, CYANIDE AND PHENOLS</p> <p>PAGE 22 OF 27</p> <p>MONITOR WELLS</p> <p>GROUNDWATER INVESTIGATIONS</p> <p>ALLIED CORPORATION</p> <p>SOUTH BEND, INDIANA</p> <p>PROJECT ALCMPX SBIN 020</p> <p>T A GLEASON ASSOCIATES</p> <p>Environmental and Geotechnical Services</p> | | | | | | | | | | | | | | | | | | | | | |





| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP | SU | CM | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | |
|---|----------|----------|------|----------------------|------|------|----|----|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|------|
| | | | | | | | | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L |
| S-26 | 16 | 09/03/87 | AQUA | 1100 | 7.22 | 16 | | | | | | | <10 | | <3 | | | | | | 4 | <0.005 | <0.010 | |
| | 31 | 01/15/88 | AQUA | 2200 | 7.03 | 14 | | | | | | | <20 | | <30 | | | | | | 10 | <0.02 | 0.13 | |
| | 18 | 02/09/88 | AQUA | 3100 | 6.80 | 12 | | | | | | | <20 | | <3 | | | | | | 20 | <0.01 | 0.106 | |
| | 29 | 05/19/88 | AQUA | 1900 | 6.92 | 14 | | | | | | | <30 | | <5 | | | | | | 2600 | <0.01 | 0.02 | |
| | 21 | 09/24/88 | AQUA | 1025 | 6.90 | 17 | | | | | | | <30 | | <6 | | | | | | <20 | <0.01 | 0.07 | |
| | 25 | 12/10/88 | AQUA | 1980 | | 14 | | | | | | | <30 | | <5 | | | | | | <20 | <0.01 | 0.05 | |
| | 18 | 02/23/89 | AQUA | 1370 | 6.90 | 13 | | | | | | | <30 | | <5 | | | | | | 20 | <0.01 | 0.04 | |
| TABLE 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE | | | | | | | | | | | | | | | | | | | | | | | | |
| AND PHENOLS | | | | | | | | | | | | | | | | | | | | | | | | |
| PAGE 24 OF 27 | | | | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCHPX SBIN 020 | | | | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | | | |
| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | | | |

NOTES:

OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.

< = LESS THAN

METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER

BLANK SPACE INDICATES ANALYSIS NOT PERFORMED



S27MCPM
24-Mar-89

| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L |
|----------|----------|----------|------|----------------------|------|--------|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|
| S-27 | 26 | 09/04/87 | AQUA | 1350 | 6.97 | 14 | | | | | <10 | | 4 | | | | | | 40 | <0.005 | <0.010 |
| | 33 | 01/15/88 | AQUA | 1530 | 6.98 | 11 | | | | | <20 | | <30 | | | | | | 10 | <0.02 | 0.06 |
| | 32 | 02/10/88 | AQUA | 2600 | 7.20 | 12 | | | | | <20 | | <3 | | | | | | 20 | <0.01 | 0.031 |
| | 27 | 05/19/88 | AQUA | 1450 | 7.26 | 12 | | | | | <30 | | <5 | | | | | | 38 | <0.01 | <0.01 |
| | 27 | 09/25/88 | AQUA | 1855 | 6.70 | 13 | | | | | <30 | | <6 | | | | | | 58 | <0.01 | 0.01 |
| | 2 | 12/08/88 | AQUA | 2386 | 7.5 | 13.5 | | | | | <30 | | <5 | | | | | | 60 | <0.01 | <0.01 |
| | 12 | 02/23/89 | AQUA | 1449 | 7.15 | 11 | | | | | <30 | | <5 | | | | | | 20 | <0.01 | <0.01 |

TABLE 3

NOTES:
OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.
< = LESS THAN

METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER

BLANK SPACE INDICATES ANALYSIS NOT PERFORMED

GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS
PAGE 25 OF 27
MONITOR WELLS

GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT ALCPX SBIN 020

T A GLEASON ASSOCIATES
Environmental and Geotechnical Services



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | |
|----------|----------|----------|------|----------------------|------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|------|
| | | | | UMHOS/CM | SU | C | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L |
| BLANK | 28 | 11/06/86 | AQUA | | | | <3 | <4 | <1 | <1 | <10 | 88 | <3 | <0.3 | 12 | <4 | <4 | <3 | 4 | <0.01 | 0.023 | |
| | 25 | 12/18/86 | AQUA | | | | <3 | <4 | <1 | <1 | <10 | 4 | 4 | <0.3 | <10 | <4 | <4 | <3 | 6 | 0.035 | <0.010 | |
| | 24 | 12/18/86 | AQUA | | | | <3 | <4 | <1 | 5 | <10 | 4 | <3 | 0.3 | 4 | <4 | <4 | <5 | 4 | <0.010 | | |
| | 12 | 01/08/87 | AQUA | | | | <1 | <4 | <0.4 | <1 | <10 | <4 | <3 | <0.3 | <10 | 4 | <4 | <1 | <4 | | | |
| | 23 | 02/12/87 | AQUA | | | | | | | | <10 | | <3 | | | | | | 8 | | | |
| | | 02/12/87 | AQUA | | | | | | | | <10 | | <3 | | | | | | 4 | | | |
| | 23 | 06/05/87 | AQUA | | | | | | | | <5 | | <3 | | | | | | <10 | 0.029 | <0.010 | |
| | 36 | 09/04/87 | AQUA | | | | | | | | <10 | | <3 | | | | | | 4 | <0.005 | <0.010 | |
| | 10 | 01/13/88 | AQUA | | | | | | | 20 | 20 | | <30 | | | | | | 10 | <0.02 | <0.010 | |
| | 35 | 01/15/88 | AQUA | | | | | | | <20 | <20 | | <30 | | | | | | <10 | <0.02 | <0.010 | |
| | 34 | 02/10/88 | AQUA | | | | | | | <20 | <20 | | <3 | | | | | | <10 | <0.01 | <0.010 | |
| | 35 | 02/10/88 | AQUA | | | | | | | <20 | <20 | | <3 | | | | | | <10 | <0.01 | <0.010 | |
| | 21 | 05/19/88 | AQUA | 40 | 6.59 | 22 | | | | | <30 | | <5 | | | | | | <20 | <0.01 | 0.09 | |
| | 36 | 05/19/88 | AQUA | | | | | | | | <30 | | <5 | | | | | | <20 | <0.01 | 0.01 | |
| | 28 | 09/25/88 | AQUA | 32 | 7.00 | | | | | | <30 | | <6 | | | | | | <20 | <0.01 | 0.01 | |

NOTES:

OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.

< = LESS THAN

METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER

BLANK SPACE INDICATES ANALYSIS NOT PERFORMED

TABLE 3

GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS PAGE 26 OF 27 MONITOR WELLS

GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCMPX SBIN 020

T A GLEASON ASSOCIATES Environmental and Geotechnical Services



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | NOTES: |
|---|----------|----------|------|----------------------|------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|--|
| | | | | (UMHOS/CM) | SU | C | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. < = LESS THAN |
| BLANK | 30 | 12/10/88 | AQUA | 58 | 7.00 | | | | | | | | <5 | | | | | | | | | METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER |
| | 35 | 12/11/88 | AQUA | 65 | | 9 | | | | | | | <5 | | | | | | | | | |
| | 3 | 02/22/89 | AQUA | 38 | 7.05 | 10 | | | | | | | <5 | | | | | | | | | BLANK SPACE INDICATES ANALYSIS NOT PERFORMED |
| | 11 | 02/23/89 | AQUA | 29 | 7.25 | 19 | | | | | | | <5 | | | | | | | | | |
| | 36 | 02/26/89 | AQUA | 57 | 7.15 | 15 | | | | | | | <5 | | | | | | | | | |
| TABLE 3 | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE AND PHENOLS | | | | | | | | | | | | | | | | | | | | | | |
| PAGE 27 OF 27 | | | | | | | | | | | | | | | | | | | | | | |
| MONITOR WELLS | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCMPX SBIN 020 | | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | |
| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | |



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC | | TEMP | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. | |
|---|----------|----------|------|----------|------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|---|------|
| | | | | SU | C | | | | | | | | | | | | | | | | | | UG/L |
| E-3 | 7 | 03/25/87 | AQUA | | | | | | | | | | | | | | | | | | | | |
| | 19 | 01/14/88 | AQUA | | | | | | | | | | | | | | | | | | | | |
| | 29 | 02/10/88 | AQUA | 2600 | 7.10 | 16 | | | | | | | | | | | | | | | | | |
| | 34 | 05/19/88 | AQUA | 1420 | 7.16 | 16 | | | | | | | | | | | | | | | | | |
| | 32 | 09/25/88 | AQUA | 3010 | 6.95 | 18 | | | | | | | | | | | | | | | | | |
| | 21 | 12/09/88 | AQUA | 3140 | | 14 | | | | | | | | | | | | | | | | | |
| | 28 | 02/24/89 | AQUA | 1518 | 7.30 | 13 | | | | | | | | | | | | | | | | | |
| <p>NOTES:</p> <p>< = LESS THAN</p> <p>METAL SAMPLES COLLECTED SINCE 1/14/88 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER</p> <p>BLANK SPACE INDICATES ANALYSIS NOT PERFORMED</p> | | | | | | | | | | | | | | | | | | | | | | | |
| <p>GROUNDWATER QUALITY ANALYSIS</p> <p>METALS, CYANIDE AND PHENOLS</p> <p>PAGE 1 OF 5</p> <p>NAPHTHA RECOVERY WELLS</p> <p>GROUNDWATER INVESTIGATIONS</p> <p>ALLIED CORPORATION</p> <p>SOUTH BEND, INDIANA</p> <p>PROJECT ALCOMPX SBIM 020</p> <p>T A GLEASON ASSOCIATES</p> <p>Environmental and Geotechnical Services</p> | | | | | | | | | | | | | | | | | | | | | | | |

TABLE 4



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP C | ANTIMONY UG/L | ARSENIC UG/L | BERYLLIUM UG/L | CADMIUM UG/L | CHROMIUM UG/L | COPPER UG/L | LEAD UG/L | MERCURY UG/L | NICKEL UG/L | SELENIUM UG/L | SILVER UG/L | THALLIUM UG/L | ZINC UG/L | CYANIDE MG/L | PHENOLS MG/L | |
|----------|----------|----------|------|----------------------|------|--------|---------------|--------------|----------------|--------------|---------------|-------------|-----------|--------------|-------------|---------------|-------------|---------------|-----------|--------------|--------------|--|
| RMB-6 | 10 | 03/25/87 | AQUA | | | | | | | | | | | | | | | | | | | |
| | 11 | 03/25/87 | AQUA | | | | | | | | | | | | | | | | | | | |
| | 16 | 01/14/88 | AQUA | | | | | | | | | | | | | | | | | | | |
| | 26 | 02/10/88 | AQUA | 2400 | 7.50 | 13 | | | | | | | | | | | | | | | | |
| | 31 | 05/19/88 | AQUA | 1380 | 7.55 | 14 | | | | | | | | | | | | | | | | |
| | 31 | 09/25/88 | AQUA | 2500 | 6.80 | 16.5 | | | | | | | | | | | | | | | | |
| | 19 | 12/09/88 | AQUA | 2620 | | 15 | | | | | | | | | | | | | | | | |
| | 26 | 02/24/89 | AQUA | 1456 | 7.35 | 14 | | | | | | | | | | | | | | | | |

NOTES:
OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.
< = LESS THAN

METAL SAMPLES COLLECTED SINCE 1/14/88 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER

BLANK SPACE INDICATES ANALYSIS NOT PERFORMED

TABLE 4

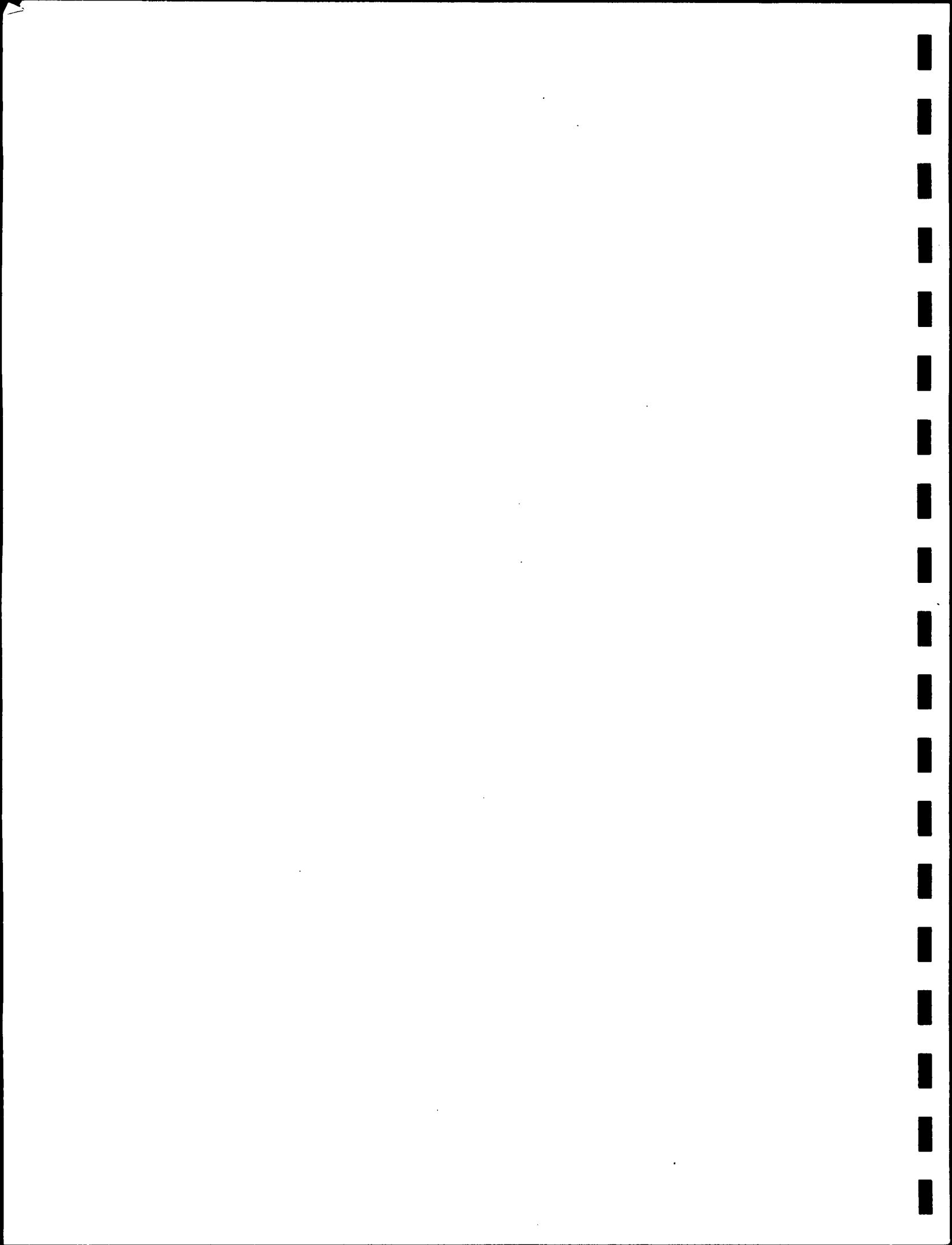
GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS
PAGE 2 OF 5
NAPHTHA RECOVERY WELLS

GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCMPX SBIN 020
T A GLEASON ASSOCIATES Environmental and Geotechnical Services



RW161N
24-Mar-89

| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | NOTES: |
|---|----------|----------|------|----------------------|------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|--|
| | | | | UMHOS/CM | SU | C | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L | |
| RWB-16 | 8 | 03/25/87 | AQUA | | | | | | | | <20 | | <3 | | | | | | 10 | 0.07 | 0.017 | OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS. |
| | 20 | 01/14/88 | AQUA | | | | | | | | <20 | | <30 | | | | | | 10 | 0.03 | 0.020 | METAL SAMPLES COLLECTED SINCE 1/14/88 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER |
| | 30 | 02/10/88 | AQUA | 2500 | 7.35 | 15 | | | | | <20 | | <3 | | | | | | 20 | 0.02 | <0.010 | |
| | 35 | 05/19/88 | AQUA | 1400 | 7.29 | 15 | | | | | <30 | | <5 | | | | | | <20 | <0.01 | <0.02 | BLANK SPACE INDICATES ANALYSIS NOT PERFORMED |
| | 33 | 09/25/88 | AQUA | 2800 | 6.70 | 19 | | | | | <30 | | <6 | | | | | | <20 | <0.01 | 0.03 | |
| | 22 | 12/09/88 | AQUA | 2680 | | 14 | | | | | <30 | | <5 | | | | | | <20 | <0.01 | <0.01 | |
| | 29 | 02/24/89 | AQUA | 1430 | 7.25 | 14 | | | | | <30 | | <5 | | | | | | <20 | <0.01 | 0.02 | |
| TABLE 4 | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER QUALITY ANALYSIS | | | | | | | | | | | | | | | | | | | | | | |
| METALS, CYANIDE AND PHENOLS | | | | | | | | | | | | | | | | | | | | | | |
| PAGE 3 OF 5 | | | | | | | | | | | | | | | | | | | | | | |
| NAPHTHA RECOVERY WELLS | | | | | | | | | | | | | | | | | | | | | | |
| GROUNDWATER INVESTIGATIONS | | | | | | | | | | | | | | | | | | | | | | |
| ALLIED CORPORATION | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH BEND, INDIANA | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT ALCHMPX S81N 020 | | | | | | | | | | | | | | | | | | | | | | |
| T A GLEASON ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | |
| Environmental and Geotechnical Services | | | | | | | | | | | | | | | | | | | | | | |



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP | SU | C | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS |
|----------|----------|----------|------|----------------------|------|------|----|---|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|
| | | | | [UMHOS/CM] | | | | | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | MG/L |
| RWB-21 | 12 | 03/25/87 | AQUA | | | | | | | | | | <20 | | <3 | | | | | | 10 | 0.05 | 0.015 |
| | 15 | 01/14/88 | AQUA | | | | | | | | | <20 | | | <30 | | | | | | 10 | <0.02 | 0.01 |
| | 25 | 02/10/88 | AQUA | 1825 | 7.40 | 12 | | | | | | <20 | | | <3 | | | | | | <10 | <0.01 | <0.010 |
| | 30 | 05/19/88 | AQUA | 1300 | 7.43 | 13 | | | | | | <30 | | | <5 | | | | | | 22 | <0.01 | <0.01 |
| | 18 | 12/09/88 | AQUA | 8300 | | 15 | | | | | | <30 | | | <5 | | | | | | <20 | <0.01 | <0.01 |
| | 25 | 02/24/89 | AQUA | 1079 | 7.30 | 14 | | | | | | <30 | | | <5 | | | | | | <20 | <0.01 | 0.02 |

NOTES:

OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.

< = LESS THAN

METAL SAMPLES COLLECTED SINCE 1/14/88 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER

BLANK SPACE INDICATES ANALYSIS NOT PERFORMED

TABLE 4

GROUNDWATER QUALITY ANALYSIS
METALS, CYANIDE AND PHENOLS
PAGE 4 OF 5
NAPHTHA RECOVERY WELLS
GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT ALCHPX SBIN 020
T A GLEASON ASSOCIATES
Environmental and Geotechnical Services



| WELL NO. | SAMPLE # | DATE | LAB | SPECIFIC CONDUCTANCE | PH | TEMP | ANTIMONY | ARSENIC | BERYLLIUM | CADMIUM | CHROMIUM | COPPER | LEAD | MERCURY | NICKEL | SELENIUM | SILVER | THALLIUM | ZINC | CYANIDE | PHENOLS | NOTES |
|----------|----------|----------|------|----------------------|------|------|----------|---------|-----------|---------|----------|--------|------|---------|--------|----------|--------|----------|------|---------|---------|--|
| | | | | (MUMHOS/CM) | SU | C | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | MG/L | |
| RMB-22 | 9 | 03/25/87 | AQUA | | | | | | | | <20 | | | | | | | | 10 | 0.07 | 0.012 | METAL SAMPLES COLLECTED SINCE 1/14/88 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER |
| | 17 | 01/14/88 | AQUA | | | | | | | 20 | | | <30 | | | | | | 10 | <0.02 | <0.010 | |
| | 18 | 01/14/88 | AQUA | | | | | | | 20 | | | <30 | | | | | | 10 | <0.02 | <0.010 | |
| | 27 | 02/10/88 | AQUA | 2500 | 7.20 | 15 | | | | 50 | | | <3 | | | | | | <10 | <0.01 | <0.010 | BLANK SPACE INDICATES ANALYSIS NOT PERFORMED |
| | 28 | 02/10/88 | AQUA | 2500 | 7.20 | 15 | | | | 30 | | | <3 | | | | | | <10 | <0.01 | <0.010 | |
| | 32 | 05/19/88 | AQUA | 1300 | 7.27 | 15 | | | | <30 | | | <5 | | | | | | <20 | <0.01 | <0.01 | |
| | 33 | 05/19/88 | AQUA | 1300 | 7.24 | 15 | | | | <30 | | | <5 | | | | | | <20 | <0.01 | <0.01 | |
| | 30 | 09/25/88 | AQUA | 1725 | 6.70 | 15 | | | | <30 | | | <6 | | | | | | <20 | <0.01 | 0.11 | |
| | 20 | 12/09/88 | AQUA | 2680 | | 15 | | | | <30 | | | <5 | | | | | | <20 | <0.01 | <0.01 | TABLE 4 |
| | | | | | | | | | | | | | | | | | | | | | | GROUNDWATER QUALITY ANALYSIS |
| | | | | | | | | | | | | | | | | | | | | | | METALS, CYANIDE AND PHENOLS |
| | 27 | 02/24/89 | AQUA | 1535 | 7.35 | 13 | | | | 30 | | | <10 | | | | | | <20 | <0.01 | 0.04 | PAGE 5 OF 5 |
| | | | | | | | | | | | | | | | | | | | | | | NAPHTHA RECOVERY WELLS |
| | | | | | | | | | | | | | | | | | | | | | | GROUNDWATER INVESTIGATIONS |
| | | | | | | | | | | | | | | | | | | | | | | ALLIED CORPORATION |
| | | | | | | | | | | | | | | | | | | | | | | SOUTH BEND, INDIANA |
| | | | | | | | | | | | | | | | | | | | | | | PROJECT ALCHMPX SBIN 020 |
| | | | | | | | | | | | | | | | | | | | | | | T A GLEASON ASSOCIATES |
| | | | | | | | | | | | | | | | | | | | | | | Environmental and Geotechnical Services |



