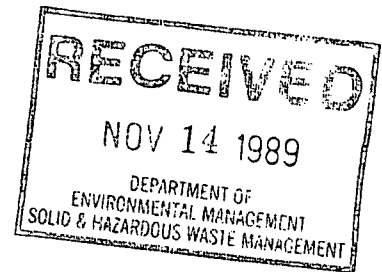


Bendix

JND005461165

GROUNDWATER MONITORING REPORT
4TH QUARTER 1988
ALLIED-SIGNAL CORPORATION
SOUTH BEND COMPLEX
SOUTH BEND, INDIANA



PROJECT # ALCMPX SBIN 017

27 February 1989

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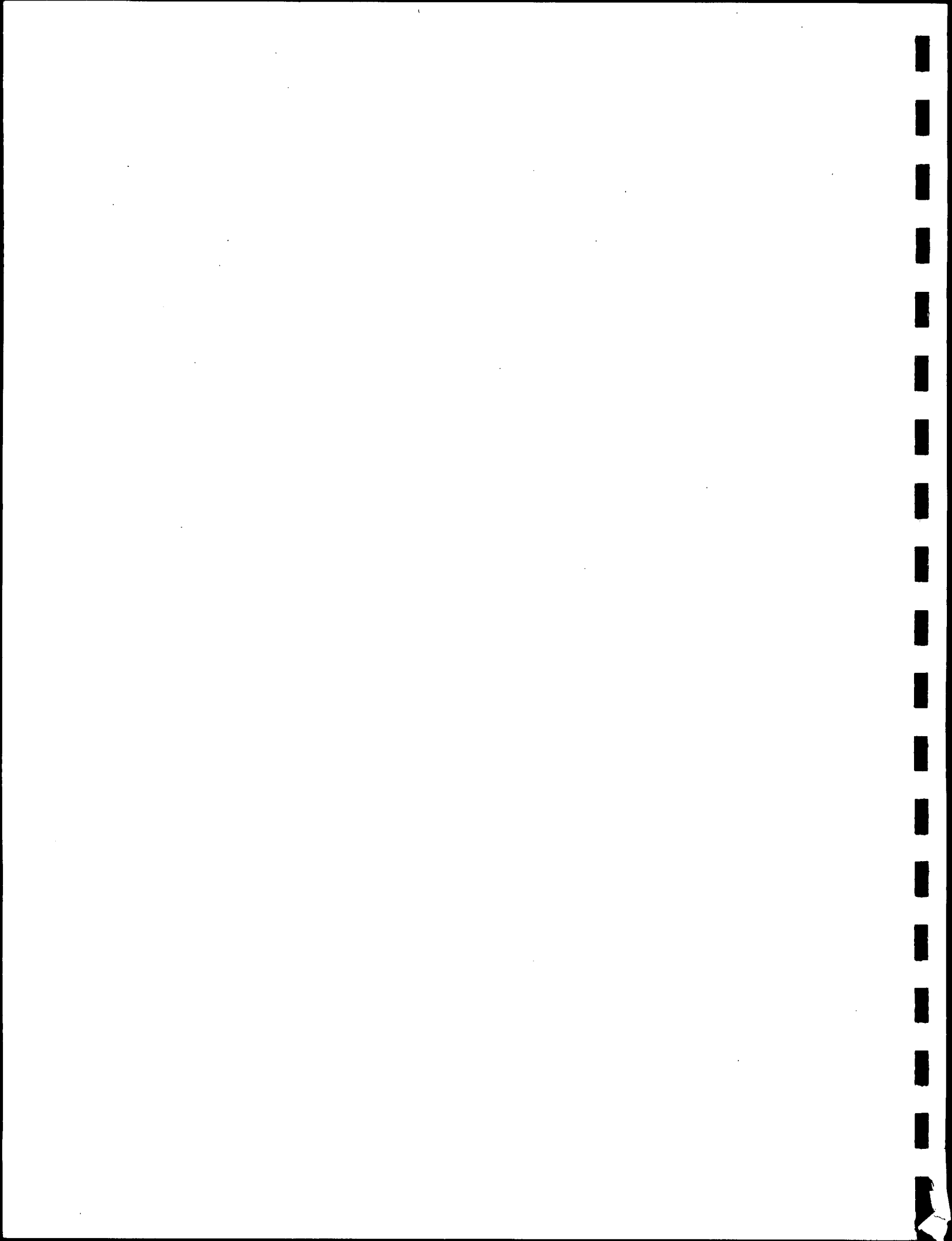


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1.0 INTRODUCTION AND BACKGROUND

This report presents the results of the most recent groundwater sampling and groundwater elevation measurements performed at the Allied-Signal Corporation, South Bend 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 26 monitor wells, 5 naptha recovery wells and 21 VOC recovery wells listed in Table 1. The locations of the wells are shown in Figure 2.

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 dedicated bladder pumps were used to purge the low yielding wells. The naptha recovery well taps were allowed to run approximately five minutes before samples were collected. The VOC recovery wells were discharging and did not require additional purging, but were allowed to discharge through the sample tap for 5 minutes prior to sample collection.



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 Well S-16 was sampled with a dedicated PVC bailer which was carefully lowered into and withdrawn from the well to avoid agitating the samples.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 naptha recovery wells were collected directly from a tap. Samples from the VOC recovery wells were collected at five locations along the recovery system. Each of the five points were representative of the recovery wells as listed on Table 1. The samples were collected from a sample tap on the outlet side of the recovery pumps.

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 48 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 2-D and D-7. 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 December 1988 sampling are presented in Tables 3 to Table 8. Tables 3 and 4 present the inorganic results of monitor wells and naptha recovery wells respectively. Tables 5 and 6 present the organic analysis of monitor wells and naptha recovery wells respectively. Tables 7 and 8 present the inorganic and organic analysis of the VOC recovery well samples. The laboratory results, QA/QC data, and sample data sheets are maintained in our files and are available upon request.



TABLE 1 - SAMPLE SUMMARY
4TH QUARTER 1988

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

<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
2-D Duplicate	RW 13	RW 13
D-7 Duplicate	RW 17	RW 14, 15, 16, 17
	RW 18-19	RW 18, 19

* Duplicate Sample Taken

** Not Sampled This Episode



12/06-07/88
(1)

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	WATER ELEVATION	WATER DEPTH	WATER ELEVATION	NOTES
S-1	728.09	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 NM = NOT MEASURED THIS DATE
S-2	721.82	NM		20.38	701.44	20.60	701.22	20.62	701.20	
S-3	716.65	20.15	696.50	19.40	697.25	19.92	696.73	19.95	696.70	
S-5	712.83	14.75	698.08	10.30	702.53	14.19	698.64	14.18	698.65	
S-6	713.08	NM		NM		NM		NM		
S-7	716.16	17.75	698.41	17.89	698.27	17.43	698.73	17.70	698.44	
S-8	714.65	18.61	696.04	18.36	696.29	17.93	696.72	18.39	696.26	
S-9	714.17	17.83	696.34	17.35	696.82	17.28	696.89	17.28	696.89	
S-10	715.40 *	NM		NM		NM		NM		
S-11	715.64 *	NM		NM		NM		NM		
S-12	721.45	19.93	701.52	20.34	701.11	19.87	701.58	20.12	701.33	
S-13	721.10 *	NM		NM		NM		NM		
S-14	711.86	15.83	696.03	15.55	696.31	15.03	696.83	15.40	696.46	
S-15	714.37	18.62	695.75	18.35	696.02	17.83	696.54	18.28	696.10	
S-16	716.18	19.72	696.46	18.84	697.34	17.88	698.30	18.61	697.57	
S-17	716.97	19.69	697.28	NM		18.11	698.86	NM		
S-18	715.41	17.47	697.94	17.43	697.98	15.90	699.51	16.95	698.46	
S-19	723.38	19.98	703.40	20.74	702.64	20.09	703.29	20.44	702.95	
S-20	709.97	14.57	695.40	14.85	695.12	14.83	695.14	15.08	694.88	
S-21	711.33	NM		NM		NM		NM		
S-22	709.33	NM		NM		NM		NM		
S-23	710.24	16.18	694.06	16.04	694.20	15.41	694.83	15.90	694.34	
S-24	713.03	NM		NM		15.12	697.91	NM		
S-25	710.60	14.93	695.67	15.31	695.29	14.94	695.66	15.30	695.30	
S-26	714.50	18.16	696.34	17.42	697.08	16.82	697.68	17.53	696.98	
S-27	715.40	19.13	696.27	18.92	696.48	18.40	697.00	18.92	696.53	

TABLE 2

WATER LEVEL MEASUREMENTS

PAGE 1 OF 3

GROUNDWATER INVESTIGATIONS

ALLIED COMPLEX

SOUTH BEND, INDIANA

PROJECT # ALCMPX 017

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 DEPTH	WATER DEPTH	WATER DEPTH	WATER DEPTH	OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.
		ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION	
D-1	720.73 *	NM	NM	NM	NM	NM	
D-1A	721.69 *	NM	NM	NM	NM	NM	1 = SURVEYED BY LANG, FEENEY & ASSOC., INC. 9/87.
D-3	714.51	18.88	695.63	17.52	696.45	18.06	WATER ELEVATIONS PRIOR TO JULY 1987 ARE BASED ON FORMER REFERENCE ELEVATIONS.
D-4	717.85	22.12	695.73	20.26	697.15	20.70	
D-5	712.14	16.01	696.13	14.94	696.84	15.31	
D-7	713.83	17.15	696.68	16.00	697.83	16.42	
D-8	717.04	21.61	695.43	19.01	697.43	19.50	
D-9	717.00 *	NM	NM	NM	NM	NM	
D-10	716.53	18.65	697.88	17.12	698.55	18.00	* = FORMER REFERENCE ELEVATIONS
D-11	723.47	20.07	703.40	20.14	702.95	20.53	
D-12	710.29	22.90	687.39	21.47	688.82	22.30	
1-1	711.52	16.85	694.67	16.38	694.83	16.76	NM = NOT MEASURED THIS DATE
1-0	714.17	17.35	696.82	15.84	697.82	16.32	
2-0	715.36	19.11	696.25	17.23	697.60	17.75	
3-0	713.29	NM	693.89	17.81	695.09	18.22	
4-0	712.10	NM	688.54	22.01	689.62	22.56	
5-0	712.01	NM	686.96	22.81	688.91	23.53	
6-0	711.41	23.96	687.45	22.79	688.22	23.39	
7-0	714.85	21.98	692.87	17.55	697.30	17.85	
8-0	714.56	20.78	693.78	16.80	697.76	17.17	

TABLE 2

WATER LEVEL MEASUREMENTS

PAGE 2 OF 3

GROUNDWATER INVESTIGATIONS
ALLIED COMPLEX
SOUTH BEND, INDIANA
PROJECT # ALCMPX 017

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:
	(1)	WATER DEPTH	WATER DEPTH	WATER DEPTH	WATER DEPTH	WATER DEPTH	
		ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION	
86-1	715.70 *	NM	NM	NM	NM	NM	OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.
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	
86-6	***	NM	NM	NM	NM	NM	
86-7	714.15	16.27	697.88	697.34	698.61	698.03	
86-8	714.62 *	17.20	697.42	697.40	698.03	698.03	WATER ELEVATIONS PRIOR TO JULY 1987 ARE BASED ON FORMER REFERENCE ELEVATIONS.
86-9	715.25 *	17.91	697.34	697.39	697.31	697.63	
86-10	715.06	18.02	697.04	697.31	698.57	697.63	
86-11	715.14 *	18.17	696.97	696.25	698.57	697.63	
86-12	715.71 *	18.72	696.99	697.29	698.57	697.63	
86-13	714.75	17.47	697.28	697.31	698.57	697.63	
86-14	715.05 *	17.95	697.10	697.50	698.57	697.63	* = FORMER REFERENCE ELEVATIONS
86-15	715.06 *	17.96	697.10	697.82	697.15	696.62	*** = NO REFERENCE ELEVATION
86-18	714.84	NM	18.53	696.31	697.15	696.62	
86-19	714.33	NM	NM	NM	697.15	696.62	
86-20	713.07 *	NM	NM	NM	697.15	696.62	
86-21	713.76 *	NM	NM	NM	697.15	696.62	NM = NOT MEASURED THIS DATE
7-25	720.47	NM	NM	20.31	700.16	699.63	
7-50	719.83	20.12	699.71	19.97	699.86	699.59	
8-27	715.45 *	NM	11.24	708.59	699.62	699.59	
9-33	716.69	18.20	698.49	698.14	698.7	698.31	TABLE 2
OW-1	***	15.05	14.89	NM	NM	14.36	WATER LEVEL MEASUREMENTS
OW-2	***	15.12	14.95	NM	NM	14.40	
S4-A	***	15.42	14.87	13.9	NM	14.21	PAGE 3 OF 3
RWB-6	715.80	NM	19.59	696.21	697.15	696.80	GROUNDWATER INVESTIGATIONS
RWB-16	715.30	18.92	696.38	17.78	697.52	696.99	ALLIED COMPLEX
RWB-21	717.62	21.96	695.66	20.82	696.8	696.52	SOUTH BEND, INDIANA
RWB-22	715.11	NM	22.13	692.98	697.1	696.67	PROJECT # ALCMPX 017
RWE-3	714.50	NM	19.92	694.58	695.29	694.99	T A GLEASON ASSOCIATES



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
				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	
1-0	13	01/09/87	AQUA				<1	<8	<0.4	3	40	<4	240	<0.3	12	<4	<4	<1	44			METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER
	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	BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
	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	
																						TABLE 3
	33	12/11/88	AQUA	1523		14					<30		<5						<20	<0.01	0.01	GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS
																						PAGE 1 OF 28 MONITOR WELLS
																						GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCPX SBIN 017
																						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	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	UG/L	MG/L	MG/L		
2-D	2	12/18/86	AQUA						<6	7	<1	<1	<10	16	<0.3	<8	<9	<4	<8	<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	
	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	BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
	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	TABLE 3
	28	12/10/88	AQUA	2060		14.5						<30			<5							<20	<0.01	<0.01	GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS
																									PAGE 2 OF 28
																									MONITOR WELLS
																									GROUNDWATER INVESTIGATIONS
																									ALLIED CORPORATION
																									SOUTH BEND, INDIANA
																									PROJECT ALCHPX SBIN 017
																									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
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			
	14	06/06/87	AQUA			7.67		16			<5		<3						20	0.030	0.016	
	21	01/14/88	AQUA			6.86		12			<20		<30						10	<0.02	0.02	
	17	02/09/88	AQUA			7.50		13			<20		<3						<10	<0.01	2.55	
	12	05/18/88	AQUA			7.43		14			<30		<5						23	<0.01	<0.01	
	16	09/24/88	AQUA			6.81		15.5			<30		<6						<20	<0.01	0.02	
	34	12/11/88	AQUA					15			<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 MICRON FILTER</p> <p>BLANK SPACE INDICATES ANALYSIS NOT PERFORMED</p> <p>TABLE 3</p> <p>GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS PAGE 3 OF 28 MONITOR WELLS</p> <p>GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCPX SBIN 017</p> <p>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
				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
5-0	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
	14	05/18/88	AQUA	1000	7.18	14					<30		<5						<20	<0.01	0.02
	15	09/23/88	AQUA	1215	6.80	13					<30		<6						<20	<0.01	0.04
TABLE 3																					
9	12/08/88	AQUA	2190			12.5					<30		<5						<20	<0.01	<0.01
GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS																					
PAGE 4 OF 28																					
MONITOR WELLS																					
GROUNDWATER INVESTIGATIONS																					
ALLIED CORPORATION																					
SOUTH BEND, INDIANA																					
PROJECT ALCPX SBIN 017																					
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 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	
-7-D	29	09/01/87	AQUA	1100	7.17	16																	
	30	01/15/88	AQUA	1380	7.07	14																	
	15	02/09/88	AQUA	1975	7.33	13																	
	22	05/19/88	AQUA	1530	7.24	16																	
	18	09/24/88	AQUA	995	7.05	17																	
	31	12/10/88	AQUA	2390		14.5																	
<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 5 OF 28</p> <p>MONITOR WELLS</p> <p>GROUNDWATER INVESTIGATIONS</p> <p>ALLIED CORPORATION</p> <p>SOUTH BEND, INDIANA</p> <p>PROJECT ALCMPX S81N 017</p> <p>T A GLEASON ASSOCIATES</p> <p>Environmental and Geotechnical Services</p>																							



WELL NO.	SAMPLE #	DATE	LAB	SPECIFIC CONDUCTANCE	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	09/04/87	AQUA	1300	7.29	16							<3						28	0.014	<0.010	
	28	01/15/88	AQUA	2200	6.84	11							<30						10	<0.02	0.01	
	29	01/15/88	AQUA	2200	6.84	11							<30						10	<0.02	0.01	
	13	02/09/88	AQUA	2700	7.40	13							<3						20	0.14	0.089	
	14	02/09/88	AQUA	2700	7.40	13							<3						10	0.14	0.034	
	23	05/19/88	AQUA	2100	7.32	15							<5						<20	<0.01	0.04	
	19	09/24/88	AQUA	1480	6.90	17.5							<6						<20	0.01	0.08	
	32	12/10/88	AQUA	2180		14							<5						<20	0.03	0.02	

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 6 OF 28
MONITOR WELLS
GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT ALCPX SBIN 017
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
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	0.72	
	2	05/18/88	AQUA	900	7.13	12					<30			<5						<20	<0.01	<0.01	
	2	09/22/88	AQUA	640	7.10	14					<30			<6						<20	<0.01	0.01	
TABLE 3																							
GROUNDWATER QUALITY ANALYSIS																							
METALS, CYANIDE																							
AND PHENOLS																							
PAGE 7 OF 28																							
MONITOR WELLS																							
GROUNDWATER INVESTIGATIONS																							
ALLIED CORPORATION																							
SOUTH BEND, INDIANA																							
PROJECT ALCHPX S81N 017																							
T A GLEASON ASSOCIATES																							
Environmental and Geotechnical Services																							

NOTES:

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

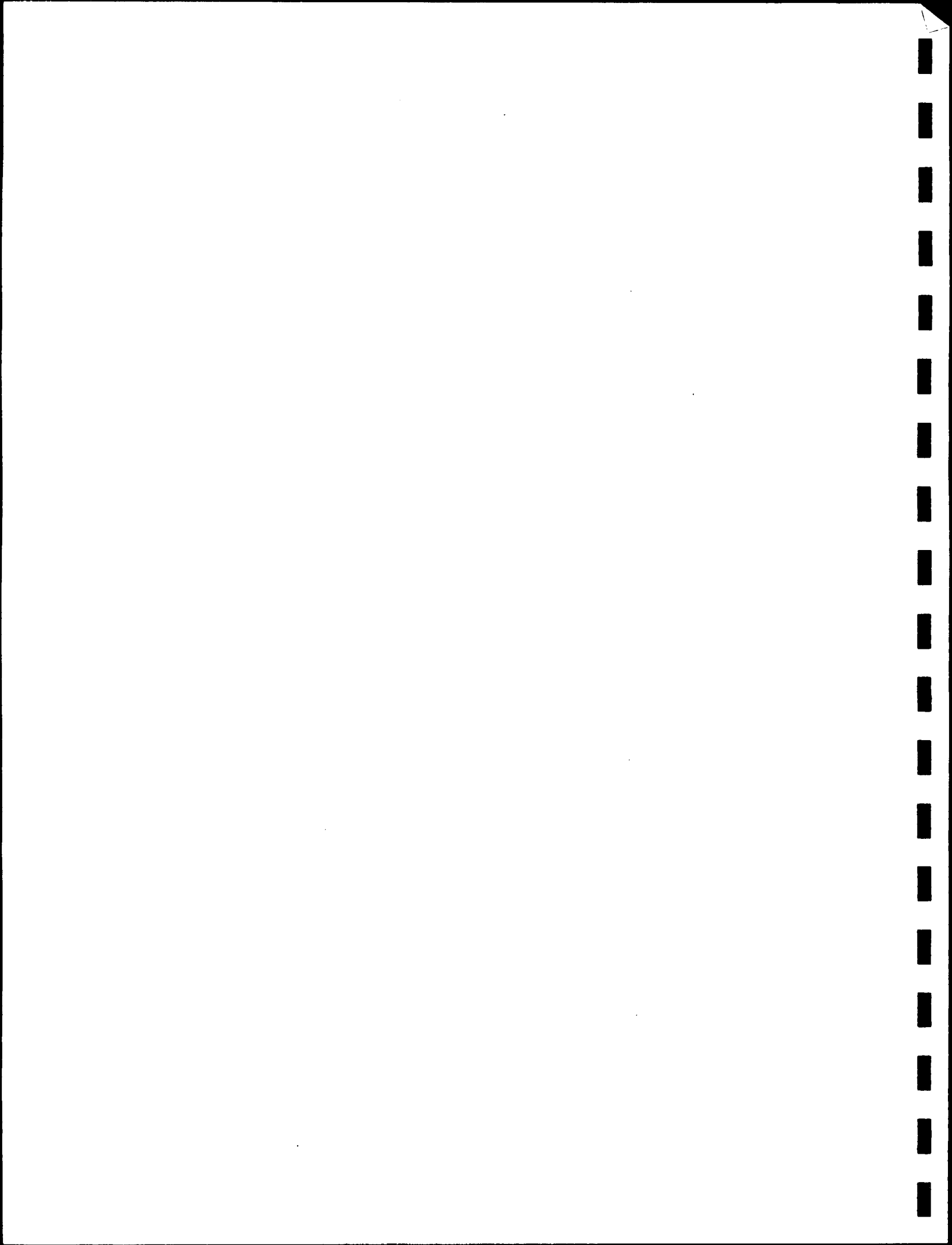
< = LESS THAN

*METAL FILTERED THRU .45 MICRON FILTER

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 7 OF 28
MONITOR WELLS
GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
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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	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	MG/L	MG/L	
9-33	11	01/08/87	AQUA	<50	11	6	2	170	160	69	0.6	220	<80	<4	<1	840							OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.
	19A	02/12/87	AQUA					844		125						210							
	19B	02/12/87	AQUA					<10*		<3*						12*							< = LESS THAN
	3	06/05/87	AQUA					<5		4						10	0.014	<0.010					*METAL FILTERED THRU .45 MICRON FILTER
	3	09/03/87	AQUA					<10		<3						<4	<0.005	<0.100					METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER
	3	01/13/88	AQUA					<20		<30						<10	<0.02	0.03					BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
	31	02/10/88	AQUA					<20		<3						<10	<0.01	<0.010					
	3	05/18/88	AQUA					30		<5						<20	<0.01	<0.01					
	3	09/22/88	AQUA					<30		<6						<20	<0.01	0.04					TABLE 3
																							GROUNDWATER QUALITY ANALYSIS
																							METALS, CYANIDE AND PHENOLS
	15	12/09/88	AQUA					<30		<5						<20	<0.01	<0.01					PAGE 8 OF 28
																							MONITOR WELLS
																							GROUNDWATER INVESTIGATIONS
																							ALLIED CORPORATION
																							SOUTH BEND, INDIANA
																							PROJECT ALCPX SBIN 017
																							T A GLEASON ASSOCIATES
																							Environmental and Geotechnical Services



WELL NO.	SAMPLE #	DATE	LAB	SPECIFIC CONDUCTANCE	PH	TEMP C	SU	ANTHONY	ARSENIC	BERYLLIUM	CADMIUM	CHROMIUM	COPPER	LEAD	MERCURY	NICKEL	SELENIUM	SILVER	THALLIUM	ZINC	CYANIDE	PHENOLS	
				UMHOS/CH				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
D-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			
	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	
	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	
	10	05/18/88	AQUA	850	7.77	14						<30		<5						<20	<0.01	0.14	
	10	09/23/88	AQUA	850	7.45	15						<30		<6						<20	<0.01	0.01	
	3	12/08/88	AQUA	1320	8.75	14						<30		<5						<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 9 OF 28 MONITOR WELLS

GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCHPX SBIM 017

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	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	MG/L	OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.
D-7	108	10/01/86	AQUA	1110																				< = LESS THAN
	208	10/01/86	AQUA				<6	4	<1	<1	<1	<1	20	10	11	<0.3	<20	<4	<10		320			METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER
	26	11/06/87	AQUA				<3	4	<1	<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	BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
	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	0.4	
	14	01/14/88	AQUA	860	6.89	13						<20		<30							10	<0.02	0.16	
	10	02/08/88	AQUA	1080	7.94	13						20		<3							<10	<0.01	0.5	TABLE 3
	20	5/18/88	AQUA	900	7.76	14						<30		<5							<20	<0.01	<0.01	GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS
	29	09/25/88	AQUA	1245	7.10	16						<30		<6							<20	<0.01	0.02	PAGE 10 OF 28 MONITOR WELLS
	16	12/09/88	AQUA	1332		13						<30		<5							<20	<0.01	<0.01	GROUNDWATER INVESTIGATIONS
	17	12/09/88	AQUA	1332		13						<30		<5							<20	<0.01	<0.01	ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCHMPX SBIN 017
																								T A GLEASON ASSOCIATES Environmental and Geotechnical Services



WELL NO.	SAMPLE #	DATE	LAB	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	
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	METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER
	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	BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
	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	
	1	5/18/88	AQUA	1000	7.17	13					<30		<5						<10	<0.01	<0.01	
	1	09/22/88	AQUA	620	7.10	13					<30		<6						<20	<0.01	0.04	
TABLE 3																						
	12	12/09/88	AQUA	1140		12.5					<30		<5						<20	<0.01	<0.01	GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS
PAGE 11 OF 28																						
MONITOR WELLS																						
GROUNDWATER INVESTIGATIONS																						
ALLIED CORPORATION																						
SOUTH BEND, INDIANA																						
PROJECT ALCHPX SBIN 017																						
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	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 SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .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	0.04	0.01		
	4	09/03/87	AQUA	1500	7.43	14					<10	<3								12	<0.005	<0.010		BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
	26	01/15/88	AQUA	2100	6.86	9					<20	<30								10	<0.02	0.04		
	3	02/08/88	AQUA	2400	7.29	12					<20	<3								10	<0.01	0.913		
	4	5/18/88	AQUA	2300	7.33	14					<30	<5								24	<0.01	0.04		
	4	09/23/88	AQUA	1395	7.05	14.5					<30	<6								<20	<0.01	0.07		
TABLE 3																								
	14	12/09/88	AQUA	2130		12.5					<30	<5								<20	<0.01	0.07		GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS
PAGE 12 OF 28																								
MONITOR WELLS																								
GROUNDWATER INVESTIGATIONS																								
ALLIED CORPORATION																								
SOUTH BEND, INDIANA																								
PROJECT ALCHPX SBIN 017																								
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:	
					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	
																							METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER
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	<40	4		920				
S-4A	22	06/05/87	AQUA	1600		7.48	16						<3						30	0.028	>0.010		BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
	27	09/04/87	AQUA	1700		6.94	15						3						24	0.008	0.035		
	25	01/14/88	AQUA	2000		6.49	13						<30						10	0.02	0.08		
	6	02/08/88	AQUA	2500		7.20	13						<3						60	0.01	7.6		
	7	5/18/88	AQUA	1700		7.27	14						<5						48	<0.01	<0.01		
	8	5/18/88	AQUA										<5						43	<0.01	<0.01		TABLE 3
	7	09/22/88	AQUA	1655		6.95	16.5						<6						<20	<0.01	0.07		GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS
	8	09/22/88	AQUA										<6						<20	<0.01	0.04		PAGE 13 OF 28 MONITOR WELLS
	26	12/10/88	AQUA	2960			14.5						<5						<20	<0.01	0.01		GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCMPX SR1H 017
																							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	
S-9	110	10/01/86	AQUA	1775																		
	130	10/01/86	AQUA				<6	<4	<1	1	<20	130	33	<0.3	<20	<4	<10	930				
	4	11/01/86	AQUA				<3	<4	<1	<1	20							<3	500	<0.010	<0.010	
	20	12/18/86	AQUA				<3	<4	2	2	<10		<3					<24	120	<0.010	<0.010	
	30	12/18/86	CCL				<3	<4	<1	<1	<10		3					<18	8	<0.010	<0.010	
	7	06/05/87	AQUA	1800	7.68	16					<5		<30					10	0.014	0.049		
	9	09/03/87	AQUA	1725	7.55	15					<10							12	<0.005	<0.010		
	6	01/13/88	AQUA	1750	6.75	12					<20		<30					10	<0.02	<0.010		
	9	02/08/88	AQUA	3000	7.35	12					<20		<3					20	<0.01	0.202		
	9	5/18/88	AQUA	1600	7.41	15					<30		<5					28	<0.01	<0.01	<0.01	
	9	09/23/88	AQUA	1350	7.15	18.5					<30		<6					<20	<0.01	0.04		
	4	12/08/88	AQUA	853	8.35	14					<30		<5					<20	<0.01	0.07		

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

CCL=COMPUCHEN LABORATORIES

TABLE 3

GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS PAGE 14 OF 28 MONITOR WELLS

GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCMPX SBIN 017

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
S-14	21	11/06/86	AQUA					<3	<4	<1	1	<10	40	16	<0.3	16	<8	<4	<3	370	<0.01	<0.01	
	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	5/18/88	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	

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 15 OF 28
MONITOR WELLS
GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT ALCPX SBIN 017
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	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	MG/L	MG/L	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
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	
																								TABLE 3
																								GROUNDWATER QUALITY ANALYSIS
																								METALS, CYANIDE AND PHENOLS
	24	12/10/88	AQUA	3060		14							<30		<5						<20	<0.01	0.08	PAGE 16 OF 28
																								MONITOR WELLS
																								GROUNDWATER INVESTIGATIONS
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																								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	
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	OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.
	19	12/18/86	AQUA				<6	<4	<1	<10	<10	<10	<10	<0.3	12	<8	4	<9	52	<0.010	<0.010	< = LESS THAN
	29	12/18/86	ECL				<3	<4	<1	<10	<10	<9	<9	0.4	<10	<8	4	<9	4	<0.010	<0.010	METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER
	11	02/12/87	AQUA	1450		15				<10		13							40			BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
	12	06/05/87	AQUA	1150	7.57	19				<5			7						20	0.07	<0.010	CCL-COMPUCHEM LABORATORY
	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	0.01	
	12	02/09/88	AQUA	2100	7.62	12				<20		<3							10	0.04	<0.010	
	25	5/19/88	AQUA	1450	7.49	14				<30		<5							<20	<0.01	0.02	TABLE 3
	14	09/23/88	AQUA	1110	7.20	16.5				<30		<6							<20	<0.01	0.07	GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS
	29	12/10/88	AQUA	2320		14				<30		<5							<20	<0.01	<0.01	PAGE 17 OF 28 MONITOR WELLS
																						GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCHPX SBIN 017
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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-17	16	11/06/86	AQUA				<3	<4	<1	<1	<10	12	23	<0.3	20	<24	<4	<3	150	<0.010	0.025	METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER
	15	06/05/87	AQUA	1350	7.55	15				<5	<10		<3						<10	0.024	<0.010	
	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	0.01	BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
	33	02/10/88	AQUA	2100	7.25	12				30			<3						<10	0.01	<0.010	
	26	5/19/88	AQUA	1400	7.17	13				<30			<5						<20	<0.01	<0.01	
	12	09/23/88	AQUA	1120	7.10	17				<30			<6						<20	<0.01	<0.01	
	11	12/09/88	AQUA	2350		15				<30			<5						<20	<0.01	<0.01	TABLE 3
GROUNDWATER QUALITY ANALYSIS																						
METALS, CYANIDE AND PHENOLS																						
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T A GLEASON ASSOCIATES																						
Environmental and Geotechnical Services																						



WELL NO.	SAMPLE #	DATE	LAB	SPECIFIC CONDUCTANCE	PH	TEMP	ANTHONY	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-20	30	11/07/86	AQUA				<3	<4	<1	<1	16	16	25	<0.3	<10	<8	<4	<6	64	0.02	<0.010	METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER
	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	BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
	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	
=====																						
TABLE 3																						
=====																						
5	12/05/88	AQUA	1593	8.75	12.5						<30		<5						<20	<0.01	0.02	GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS
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MONITOR WELLS																						
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GROUNDWATER INVESTIGATIONS																						
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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	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-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	
	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	
	11	01/14/88	AQUA	1450	6.53	10						<20		<30						<10	<0.05	0.06	
	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	
TABLE 3																							
	10	12/08/88	AQUA	2480		12.5						<30		<5						<20	<0.01	<0.01	
GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCHPX SBIN 017 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

GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS
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MONITOR WELLS



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-22	18	11/06/86	AQUA				<3	<4	<1	<1	12	<4	12	<0.3	<10	<40	4	<3	28	<0.01	<0.010	METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER
	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	BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
	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	
																						TABLE 3
	6	12/08/88	AQUA	1688	8.40	12.5					<30		<5						<20	<0.01	<0.01	GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS
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																						MONITOR WELLS
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																						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	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	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	
GROUNDWATER QUALITY ANALYSIS																								
METALS, CYANIDE AND PHENOLS																								
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MONITOR WELLS																								
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PROJECT ALCPX S81N 017																								
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	
S-24	25	09/04/87	AQUA	1350	6.96	14					<10		25										METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER
	28	05/19/88	AQUA	1600	7.32	11					<30		<5										
	26	09/25/88	AQUA	1920	6.60	13					<30		<6										
	1	12/08/88	AQUA	1464	7.4	13.5					<30		<5										BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
<p>TABLE 3</p> <p>GROUNDWATER QUALITY ANALYSIS</p> <p>METALS, CYANIDE AND PHENOLS</p> <p>PAGE 23 OF 28</p> <p>MONITOR WELLS</p> <p>GROUNDWATER INVESTIGATIONS</p> <p>ALLIED CORPORATION</p> <p>SOUTH BEND, INDIANA</p> <p>PROJECT ALCHPX SBIN 017</p> <p>T A GLEASON ASSOCIATES</p> <p>Environmental and Geotechnical Services</p>																							



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
S-25	11	09/03/87	AQUA	1100	7.17	16									<3						12	<0.005	<0.010
	32	01/15/88	AQUA	1660	6.87	13									<30						10	<0.02	0.06
	20	02/09/88	AQUA	2600	7.15	11									<3						10	<0.01	0.122
	18	05/18/88	AQUA	1440	7.08	14									<5						330	<0.01	<0.01
	25	09/25/88	AQUA	1430	6.70	17									<6						<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>																							
<p>TABLE 3</p> <p>GROUNDWATER QUALITY ANALYSIS</p> <p>METALS, CYANIDE AND PHENOLS</p> <p>PAGE 24 OF 28</p> <p>MONITOR WELLS</p> <p>GROUNDWATER INVESTIGATIONS</p> <p>ALLIED CORPORATION</p> <p>SOUTH BEND, INDIANA</p> <p>PROJECT ALCHPX SBIN 013</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	NOTES
S-26	16	09/03/87	AQUA	1100	7.22	16					<10		<3						4	<0.005	<0.010	METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER
	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	BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
	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	
TABLE 3																						
GROUNDWATER QUALITY ANALYSIS																						
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MONITOR WELLS																						
GROUNDWATER INVESTIGATIONS																						
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SOUTH BEND, INDIANA																						
PROJECT ALCMPX SBIN 017																						
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-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

TABLE 3

GROUNDWATER QUALITY ANALYSIS
METALS, CYANIDE
AND PHENOLS
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GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT ALCHPX S81N 017
T A GLEASON ASSOCIATES
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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 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	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		<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	
	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

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ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT ALCHPX SBIN 017
T A GLEASON ASSOCIATES
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WELL NO.	SAMPLE #	DATE	LAB	SPECIFIC CONDUCTANCE	PH	TEMP	SU	C	ANTHONY	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
BLANK	30	12/10/88	AQUA	58	7.00								<30		<5						<20	<0.01	<0.01
	35	12/11/88	AQUA	65		9						<30			<5						<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

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T A GLEASON ASSOCIATES
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RUEZIN
30-Jan-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	OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.
				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	< = LESS THAN
E-3	7	03/25/87	AQUA																			METAL SAMPLES COLLECTED SINCE 1/14/88 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER
	19	01/14/88	AQUA																			
	29	02/10/88	AQUA	2600	7.10	16																
	34	05/19/88	AQUA	1420	7.16	16																BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
	32	09/25/88	AQUA	3010	6.95	18																
	21	12/09/88	AQUA	3140		14																
TABLE 4																						
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Environmental and Geotechnical Services																						



RJ061N
30-Jan-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	NOTES	
RWB-6	10	03/25/87	AQUA																					
	11	03/25/87	AQUA																					OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.
	16	01/14/88	AQUA																					< = LESS THAN
	26	02/10/88	AQUA	2400	7.50	13																		METAL SAMPLES COLLECTED SINCE 1/14/88 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER
	31	05/19/88	AQUA	1380	7.55	14																		BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
	31	09/25/88	AQUA	2500	6.80	16.5																		
	19	12/09/88	AQUA	2620		15																		
																								TABLE 4
																								GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS
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																								Environmental and Geotechnical Services



RV161N
30-Jan-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	NOTES
RWB-16	8	03/25/87	AQUA										<3						10	0.07	0.017	METAL SAMPLES COLLECTED SINCE 1/14/88 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER
	20	01/14/88	AQUA										<30						10	0.03	0.020	
	30	02/10/88	AQUA	2500	7.35	15							<3						20	0.02	<0.010	
	35	05/19/88	AQUA	1400	7.29	15							<5						<20	<0.01	<0.02	BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
	33	09/25/88	AQUA	2800	6.70	19							<6						<20	<0.01	0.03	
	22	12/09/88	AQUA	2680		14							<5						<20	<0.01	<0.01	
=====																						
TABLE 4																						
=====																						
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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]	[ANTHONY ARSENIC]	[BERYLLIUM]	[CADMIUM]	[CHROMIUM]	[COPPER]	[LEAD]	[MERCURY]	[NICKEL]	[SELENIUM]	[SILVER]	[THALLIUM]	[ZINC]	[CYANIDE]	[PHENOLS]	NOTES:
RWB-21	12	03/25/87	AQUA							<20		<3						10	0.05	0.015	METAL SAMPLES COLLECTED SINCE 1/14/88 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER
	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	BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
	18	12/09/88	AQUA	8300		15				<30		<5						<20	<0.01	<0.01	
TABLE 4																					
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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	NOTES
				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	
RVB-22	9	03/25/87	AQUA								<20								10	0.07	0.012	
	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	
	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	
TABLE 4																						
	20	12/09/88	AQUA	2680		15					<30		<5						<20	<0.01	<0.01	
GROUNDWATER QUALITY ANALYSIS METALS, CYANIDE AND PHENOLS PAGE 5 OF 5 NAPHA RECOVERY WELLS																						
GROUNDWATER INVESTIGATIONS ALLIED CORPORATION SOUTH BEND, INDIANA PROJECT ALCHPX SBIN 017 T A GLEASON ASSOCIATES Environmental and Geotechnical Services																						

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 MICROM FILTER

BLANK SPACE INDICATES ANALYSIS NOT PERFORMED





WELL NO.	DATE	SAMPLE #	LAB	PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC)													OTHER ORGANIC COMPOUNDS										
				1,1-DI-1,2-DI-1,1-DI-1,1,2-DI-1,2,3-TRI-1,2,3,4-TETRA-1,2-DI-2,4-DI-1,2,3,4-TETRA-1,2,3,4-TETRA-1,2,3,4-TETRA	ETHANE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE						
2-0	12/18/86	2	AQUA	ND	20.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	06/05/87	11	AQUA	ND	25.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	09/03/87	19	AQUA	ND	24.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	01/15/88	34	AQUA	ND	34.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	02/09/88	11	AQUA	ND	25.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	05/19/88	24	AQUA	ND	34.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	09/24/88	20	AQUA	ND	26.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	12/10/88	27	AQUA	ND	22.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	12/10/88	28	AQUA	ND	21.4	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
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GROUNDWATER INVESTIGATIONS
ALLIED-SIGNAL CORPORATION
SOUTH BEND, INDIANA
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WELL NO.	DATE	PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC)										OTHER ORGANIC COMPOUNDS			NOTES			
		1,1-DI-1,2-DI-1,1-DI-1,1-DI-	1,1-DI-1,1-DI-1,1-DI-	TRI-1,2-DI-	TRI-1,2-DI-	CHLORO-ETHYLENE	ETHYLENE	ETHANE	ETHYLENE	CHLORO-ETHYLENE	CHLORO-ETHYLENE	FORM	ETHYLENE	CHLORO-ETHYLENE		ETHYLENE		
4-D	10/14/86	ND	ND	ND	11.4	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. **NOTE: TOLUENE WAS NOT DETECTED IN 6 PREVIOUS SAMPLINGS. A RESAMPLING ON 3/14/88 DETECTED NO TOLUENE. BASED ON PREVIOUS DATA & THE RETEST, WE CONCLUDE THAT THE 2/9/88 SAMPLING DATA IS AN ANOMOLY. 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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	02/11/87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	06/05/87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.8	ND		
	09/04/87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	01/14/88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.8	ND	ND		
	02/09/88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.3**	8.0	ND		
	03/14/88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.0	ND	ND		
	05/18/88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33.4	ND	ND		
	09/24/88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.2	ND	ND		
	12/11/88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.5	ND	ND		

TABLE 5

GROUNDWATER QUALITY ANALYSIS
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GROUNDWATER INVESTIGATIONS
ALLIED-SIGNAL CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCHPX SBIN 017

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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	1,1,1-TRI-CHLORO-ETHANE	1,1,2-TRI-CHLORO-ETHANE	1,2-DI-CHLORO-ETHANE	1,1-DI-CHLORO-ETHYLENE	1,2-DI-CHLORO-ETHANE	1,1,1,2-TETRA-CHLORO-ETHANE	PERCHLOROETHYLENE	STYRENE	BENZENE	TOLUENE	XYLENE	ETHYLENE	PROPYLENE	BUTYLENE			
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	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
8-D	10/7/87	5	AQUA	ND	ND	ND	27.0	ND	ND	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	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	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	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	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	ND	ND	ND	ND	ND	ND	630.0
	05/19/88	23	AQUA	ND	ND	ND	24.0	ND	ND	ND	ND	67.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1600.0
	09/24/88	19	AQUA	ND	ND	ND	32.0	20.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	420.0

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.

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GROUNDWATER INVESTIGATIONS
ALLIED-SIGNAL CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCMPX SBIN 017

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WELL NO.	DATE	SAMPLE #	LAB	OTHER ORGANIC COMPOUNDS																	
				PRIORITY									OTHER ORGANIC COMPOUNDS								
1,1-DI- [CHLORO- ETHANE UG/L	1,1-DI- [CHLORO- ETHANE UG/L	1,2-DI- [CHLORO- ETHANE UG/L	1,2,1,1- [CHLORO- ETHANE UG/L	1,2,1,1- [CHLORO- ETHANE UG/L	1,2-DI- [CHLORO- ETHANE UG/L	1,2-DI- [CHLORO- ETHANE UG/L	1,2-DI- [CHLORO- ETHANE UG/L	1,2-DI- [CHLORO- ETHANE UG/L	1,2-DI- [CHLORO- ETHANE UG/L	1,2-DI- [CHLORO- ETHANE UG/L	1,2-DI- [CHLORO- ETHANE UG/L	1,2-DI- [CHLORO- ETHANE UG/L	1,2-DI- [CHLORO- ETHANE UG/L	1,2-DI- [CHLORO- ETHANE UG/L	1,2-DI- [CHLORO- ETHANE UG/L	1,2-DI- [CHLORO- ETHANE UG/L	1,2-DI- [CHLORO- ETHANE UG/L	1,2-DI- [CHLORO- ETHANE 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		
	06/05/87	2	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	09/06/87	2	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	01/13/88	2	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	02/08/88	2	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	05/18/88	2	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	09/22/88	2	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	12/09/88	13	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
TABLE 5 GROUNDWATER QUALITY ANALYSIS																					
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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.



9330CHW
28-Feb-89

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- TRI- ETHYLENE	1,1,2-DI- CHLORO- ETHANE	1,2,2-DI- CHLORO- PROPANE	1,1,2-DI- TRI- CHLORO- PROPANE	VINYL CHLORO- FORM	CHLORO- ETHYLENE	1,2,4- TRI- TRICHLORO- ETHYLENE	CIS-1,2- DICHLORO- ETHENE			
9-33	01/08/87	11	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	06/05/87	3	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	09/03/87	3	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	01/13/88	3	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	02/10/88	31	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	05/18/88	3	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	09/22/88	3	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	12/09/88	15	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

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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.

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GROUNDWATER INVESTIGATIONS
ALLIED-SIGNAL CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCMPX SBIN 017

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WELL NO.	DATE	SAMPLE #	LAB	PRIORITY POLLUTANTS												OTHER ORGANIC COMPOUNDS	NOTES
				VOLATILE ORGANIC COMPOUNDS (VOC)													
D-4	10/01/86	11	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	CIS-1,2-DICHLOROETHENE	OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.	
	02/12/87	13	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS.	
	06/05/87	8	AQUA	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.	
	09/03/87	8	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
	01/13/88	4	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
	01/13/88	5	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
	02/08/88	7	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
	02/08/88	8	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
	05/18/88	10	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		TABLE 5	
	09/22/88	10	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		GROUNDWATER QUALITY ANALYSIS ORGANIC COMPOUNDS	
																PAGE 9 OF 28 MONITOR WELLS	
	12/08/88	3	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		GROUNDWATER INVESTIGATIONS ALLIED-SIGNAL CORPORATION SOUTH BEND, INDIANA PROJECT # ALCMPX SBIN 017	
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		PRIORITY POLLUTANTS															OTHER ORGANIC COMPOUNDS	
		VOLATILE ORGANIC COMPOUNDS (VOC)																
WELL NO.	DATE	SAMPLE #	LAB	1,1-DI-1,2-DI-1,1-DI-	CHLORO-CHLORO-ETHANE	ETHYLENE	ETHYLENE	DI-1,2-DI-	TRI-CHLORO-ETHANE	CHLORO-ETHANE	1,2-DI-1,2-DI-1,1-DI-	TRI-CHLORO-ETHANE	CHLORO-ETHANE	FORM	TOLENE	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	UG/L		
D-7	10/01/86	10	AQUA	ND	689.0	ND	20.2	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	
	01/07/87	9	AQUA	ND	902.0	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		
	06/05/87	9	AQUA	ND	890.0	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	31.0		
	09/03/87	17	AQUA	ND	800.0	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		
	01/14/88	14	AQUA	ND	710.0	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		
	05/18/88	20	AQUA	ND	1165.0	ND	ND	ND	ND	ND	19.1	ND	ND	ND	ND	48.2		
	09/24/88	29	AQUA	ND	780.0	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	10.0	ND	ND	ND	ND	22.1		
	12/09/88	17	AQUA	ND	435.0	ND	ND	ND	ND	ND	10.0	ND	ND	ND	ND	21.9		

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GROUNDWATER INVESTIGATIONS
ALLIED-SIGNAL CORPORATION
SOUTH BEND, INDIANA
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28-Feb-89

PRIORITY POLLUTANTS		VOLATILE ORGANIC COMPOUNDS (VOC)												OTHER ORGANIC COMPOUNDS					NOTES:							
WELL NO.	DATE	SAMPLE #	LAB	1,1-DI- ETHANE	UG/L	1,1-DI- ETHYLENE	UG/L	1,1-DI- ETHYLENE	UG/L	1,1-DI- ETHYLENE	UG/L	1,1-DI- ETHYLENE	UG/L	1,1-DI- ETHYLENE	UG/L	1,1-DI- ETHYLENE	UG/L	1,1-DI- ETHYLENE		UG/L	1,1-DI- ETHYLENE	UG/L	1,1-DI- ETHYLENE	UG/L	1,1-DI- ETHYLENE	UG/L
S-1	11/05/86	1	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/17/86	18	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.6
	06/05/87	1	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.0
	09/03/87	1	AQUA	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	1	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/18/88	1	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/22/88	1	AQUA	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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GROUNDWATER INVESTIGATIONS
ALLIED-SIGNAL CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCMPX SBIN 017

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PRIORITY POLLUTANTS																
WELL NO.	DATE	SAMPLE #	LAB	VOLATILE ORGANIC COMPOUNDS (VOC)						OTHER ORGANIC COMPOUNDS						
				1,1-DI- CHLORO- ETHANE UG/L	1,1-DI- 1,1-DI- CHLORO- ETHYLENE UG/L	1,1-DI- 2-DI- 1,1-DI- CHLORO- ETHANE UG/L	1,2-DI- 1,2-DI- CHLORO- ETHYLENE UG/L	TRI- 1,2-DI- CHLORO- ETHYLENE UG/L	TRI- 1,2-DI- CHLORO- PROPANE UG/L	1,2-DI- 1,2-DI- CHLORO- VINYL FORM UG/L	1,2-DI- 1,2-DI- CHLORO- ETHYLENE UG/L	1,2-DI- 1,2-DI- CHLORO- ETHYLENE UG/L	1,2-DI- 1,2-DI- CHLORO- ETHYLENE UG/L	1,2-DI- 1,2-DI- CHLORO- ETHYLENE UG/L		
S-4A	06/05/87	22	AQUA	1100.0	ND	200.0	110.0	200.0	120.0	ND	ND	ND	820.0			
		27	AQUA	1100.0	ND	80.0	170.0	ND	17.0	ND	790.0	ND	2000.0			
		25	AQUA	1600.0	ND	180.0	112.0	ND	ND	700.0	ND	ND	1800.0			
		2	AQUA	1500.0	ND	165.0	160.0	ND	ND	900.0	ND	ND	1770.0			
		7	AQUA	1700.0	ND	165.0	ND	ND	ND	437.0	ND	ND	2800.0			
		8	AQUA	1640.0	ND	200.0	ND	ND	ND	373.0	ND	ND	2750.0			
		7	AQUA	1810.0	7.0	292.0	154.0	11.0	40.0	ND	1570.0	ND	940.0			
		8	AQUA	1820.0	7.3	281.0	155.0	10.0	39.0	ND	1620.0	ND	920.0			
														TABLE 5		
		26	AQUA	970.0	ND	114.0	135.0	ND	23.7	ND	633.0	ND	1600.0	GROUNDWATER QUALITY ANALYSIS ORGANIC COMPOUNDS PAGE 13 OF 28 MONITOR WELLS		
														GROUNDWATER INVESTIGATIONS ALLIED-SIGNAL CORPORATION SOUTH BEND, INDIANA PROJECT # ALCPX SBIN 017 T A GLEASON ASSOCIATES Environmental and Geotechnical Services		

NOTES:
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GROUNDWATER INVESTIGATIONS
 ALLIED-SIGNAL CORPORATION
 SOUTH BEND, INDIANA
 PROJECT # ALCPX SBIN 017
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 Environmental and Geotechnical Services



WELL NO.	DATE	SAMPLE #	LAB	PRIORITY POLLUTANTS																						NOTES	
				VOLATILE ORGANIC COMPOUNDS (VOC)											OTHER ORGANIC COMPOUNDS												
				1,1-DI- [CHLORO- ETHANE]	1,2-DI- [CHLORO- ETHANE]	1,1,1- TRI- [CHLORO- ETHANE]	1,1,2- DI- [CHLORO- ETHANE]	1,2,2- TRI- [CHLORO- ETHANE]	1,2,3- TRI- [CHLORO- ETHANE]	1,1,1,2- TETRA- [CHLORO- ETHANE]	1,1,1,2,2- PENTA- [CHLORO- ETHANE]	1,1,2,2- DI- [CHLORO- ETHYLENE]	1,1,2,2- DI- [CHLORO- ETHYLENE]	1,1,2- TRI- [CHLORO- ETHYLENE]	1,2,2- TRI- [CHLORO- ETHYLENE]	1,2,3- TRI- [CHLORO- ETHYLENE]	1,2,3,4- TETRA- [CHLORO- ETHYLENE]	1,2,3,4- TETRA- [CHLORO- ETHYLENE]	1,2,3,4- TETRA- [CHLORO- ETHYLENE]	1,2,3,4- TETRA- [CHLORO- ETHYLENE]	1,2,3,4- TETRA- [CHLORO- ETHYLENE]	1,2,3,4- TETRA- [CHLORO- ETHYLENE]	1,2,3,4- TETRA- [CHLORO- ETHYLENE]				
S-9	10/01/86	12	AQUA	ND	81.3	ND	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	11/05/86	4	AQUA	ND	29.0	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.6	
	12/18/86	20	AQUA	ND	210.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.0	
	12/18/86	30	AQUA	ND	43.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	02/12/87	12	AQUA	ND	313.0	ND	23.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	06/05/87	7	AQUA	ND	460.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.0	
	09/03/87	9	AQUA	ND	170.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.0	
	01/13/88	6	AQUA	ND	810.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	43.0	
	02/08/88	9	AQUA	ND	440.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	05/18/88	9	AQUA	ND	440.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	47.6	
	09/23/88	9	AQUA	ND	240.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	12/08/88	4	AQUA	ND	12.3	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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PRIORITY POLLUTANTS

WELL NO.	DATE	SAMPLE #	LAB	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	1,2,3-TRI-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								
S-15	11/06/86	27	AQUA	ND	1.2	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.5						
	12/18/86	22	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	06/05/87	6	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	6	AQUA	ND	ND	ND	ND	ND	76.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	06/03/87	5	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	01/14/88	24	AQUA	22.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	02/08/88	4	AQUA	19.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	05/18/88	6	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	09/23/88	6	AQUA	5.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	12/10/88	24	AQUA	ND	ND	ND	ND	ND	10.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	121.0					

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GROUNDWATER INVESTIGATIONS
ALLIED-SIGNAL CORPORATION
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		PRIORITY POLLUTANTS												OTHER ORGANIC COMPOUNDS		NOTES:	
		VOLATILE ORGANIC COMPOUNDS (VOC)															
WELL NO.	DATE	SAMPLE #	LAB	1,1-DI-CHLORO-ETHANE	1,1-DI-CHLORO-ETHYLENE	1,1,1,1-TETRACHLOROETHANE	1,1,2-DI-CHLOROETHANE	1,2-DI-CHLOROETHANE	1,2-DICHLOROETHANE	1,2-DICHLOROETHANE	1,2-DICHLOROETHANE	1,2-DICHLOROETHANE	1,2-DICHLOROETHANE	1,2-DICHLOROETHANE	1,2-DICHLOROETHANE	1,2-DICHLOROETHANE	1,2-DICHLOROETHANE
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-16	11/16/86	11	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1
	12/18/86	19	AQUA	ND	ND	ND	22.5	70.1	ND	ND	ND	ND	ND	ND	ND	ND	
	12/18/86	29	AQUA	ND	ND	ND	21.5	63.8	ND	ND	ND	ND	ND	ND	ND	ND	
	02/12/87	11	AQUA	ND	ND	ND	4.4	23.3	95.0	ND	ND	ND	ND	ND	ND	ND	
	06/05/87	12	AQUA	ND	ND	ND	5.6	18.0	57.0	ND	ND	ND	ND	ND	ND	5.6	
	09/04/87	28	AQUA	ND	ND	ND	ND	ND	65.0	ND	ND	ND	ND	ND	ND	ND	
	01/15/88	27	AQUA	ND	ND	ND	ND	15.0	58.0	ND	ND	ND	ND	ND	ND	ND	
	02/09/88	12	AQUA	ND	ND	ND	ND	13.5	53.0	ND	ND	ND	ND	ND	ND	ND	
	05/19/88	25	AQUA	ND	ND	ND	ND	10.9	52.0	ND	ND	ND	ND	ND	ND	6.8	
	09/23/88	14	AQUA	ND	ND	ND	ND	20.0	76.0	ND	ND	ND	ND	ND	ND	ND	
	12/10/88	29	AQUA	ND	ND	ND	ND	18.7	62.1	ND	ND	ND	ND	ND	ND	6.2	

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ALLIED-SIGNAL CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCMPX SBIN 017

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Environmental and Geotechnical Services

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										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		
S-17	11/16/86	16	AQUA	4.3	ND	1.5	ND	ND	12.0	ND	ND	ND	ND	ND	ND	
	01/07/87	4	AQUA	ND	ND	ND	ND	ND	94.8	ND	ND	ND	ND	ND	ND	
	02/12/87	3	AQUA	ND	ND	ND	7.9	ND	116.0	ND	ND	ND	ND	ND	ND	
	06/05/87	15	AQUA	ND	ND	ND	ND	ND	80.0	ND	ND	ND	ND	ND	5.6	
	09/03/87	20	AQUA	ND	ND	ND	ND	ND	86.0	ND	ND	ND	ND	ND	ND	
	01/14/88	22	AQUA	ND	ND	ND	ND	ND	68.0	ND	ND	ND	ND	ND	8.8	
	02/10/88	33	AQUA	ND	ND	ND	ND	ND	75.0	ND	ND	ND	ND	ND	5.8	
	05/19/88	26	AQUA	ND	ND	ND	ND	ND	60.7	ND	ND	ND	ND	ND	ND	
	09/23/88	12	AQUA	ND	ND	ND	ND	ND	78.0	ND	ND	ND	ND	ND	ND	

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GROUNDWATER QUALITY ANALYSIS
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GROUNDWATER INVESTIGATIONS
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SOUTH BEND, INDIANA
PROJECT # ALCHPX SBIN 013

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WELL NO.	DATE	SAMPLE #	LAB	PRIORITY POLLUTANTS										OTHER ORGANIC COMPOUNDS				
				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-DI- CHLORO- ETHANE	1,1,1,2-TETRA- CHLORO- ETHANE	1,1,2,2-TETRA- CHLORO- ETHANE	1,2,3,4-TETRA- CHLORO- ETHANE	1,1-DI- CHLORO- ETHYLENE	1,2-DI- CHLORO- ETHYLENE		1,1,1,2-TETRA- CHLORO- ETHYLENE	1,1,2,2-TETRA- CHLORO- ETHYLENE		
S-20	11/07/86	30	AQUA	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
	06/05/87	16	AQUA	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
	01/13/88	7	AQUA	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
	05/19/88	19	AQUA	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
	09/25/88	24	AQUA	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

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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.

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GROUNDWATER INVESTIGATIONS
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WELL NO.	DATE	SAMPLE #	LAB	PRIORITY POLLUTANTS													OTHER ORGANIC COMPOUNDS	NOTES		
				VOLATILE ORGANIC COMPOUNDS (VOC)																
S-21	11/06/86	17	AQUA	ND	ND	ND	116.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	CIS-1,2-DICHLOROETHYLENE	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	69.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		TOLUENE
				ND	ND	ND	88.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		UG/L
				ND	ND	ND	30.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ND		UG/L
				ND	ND	ND	34.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.6	ND		UG/L
				ND	ND	ND	13.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.0	ND		UG/L
				ND	ND	ND	20.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	53.2	ND		UG/L
				ND	ND	ND	33.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	60.0	ND		UG/L
				ND	ND	ND	11.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	137.0	ND		UG/L
				ND	ND	ND	49.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	58.0	ND		UG/L
				ND	ND	ND	32.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	66.0	ND		UG/L
				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		UG/L
				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		UG/L

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PRIORITY POLLUTANTS			PRIORITY POLLUTANTS									
WELL NO.	DATE	SAMPLE #	VOLATILE ORGANIC COMPOUNDS (VOC)			OTHER ORGANIC COMPOUNDS						
			UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L			
S-22	11/06/86	18	ND	ND	164.0	ND	ND	ND	ND			
	01/07/87	6	ND	ND	75.8	ND	ND	ND	ND	50.0		
	01/07/87	7	ND	ND	73.6	ND	ND	ND	ND	50.0		
	02/12/87	6	ND	ND	132.0	ND	ND	ND	ND			
	02/12/87	7	ND	ND	109.0	ND	ND	ND	ND			
	06/05/87	20	ND	ND	69.0	ND	ND	ND	ND	41.0		
	09/03/87	12	ND	ND	41.0	ND	ND	ND	ND	57.0		
	01/13/88	8	ND	ND	ND	ND	ND	ND	ND	41.5		
	02/09/88	23	ND	ND	61.0	ND	ND	ND	ND	48.0		
	05/18/88	15	ND	ND	27.7	ND	ND	ND	ND	77.5		
	05/18/88	16	ND	ND	25.2	ND	ND	ND	ND	82.0		
	09/25/88	22	ND	ND	45.0	ND	ND	ND	ND	21.0		

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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.

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WELL NO.	DATE	SAMPLE #	LAB	PRIORITY POLLUTANTS												OTHER ORGANIC COMPOUNDS																					
				VOLATILE ORGANIC COMPOUNDS (VOC)						PRIORITY POLLUTANTS						OTHER ORGANIC COMPOUNDS						OTHER ORGANIC COMPOUNDS															
S-24	07/10/87	2	AQUA	ND	ND	ND	145.0	ND	150.0	ND	ND	ND	ND	ND	ND	170.0																					
	09/04/87	25	AQUA	ND	ND	ND	140.0	ND	170.0	ND	ND	ND	ND	ND	ND	150.0																					
	05/19/88	28	AQUA	ND	ND	ND	230.0	ND	105.0	ND	ND	ND	ND	ND	ND	277.0																					
	09/25/88	26	AQUA	ND	ND	ND	124.0	ND	85.0	ND	ND	ND	ND	ND	ND	75.0																					
	12/08/88	1	AQUA	ND	ND	ND	129.0	ND	66.0	ND	ND	ND	ND	ND	ND	119.0																					

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GROUNDWATER QUALITY ANALYSIS
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WELL NO.	DATE	SAMPLE #	LAB	PRIORITY POLLUTANTS										OTHER ORGANIC COMPOUNDS	NOTES:		
				VOLATILE ORGANIC COMPOUNDS (VOC)													
S-25	07/10/87	1	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<p>OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.</p> <p>ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS.</p> <p>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>	
	09/03/87	11	AQUA	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		
	02/09/88	20	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	05/18/88	18	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.3	ND		
	09/25/88	25	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	12/08/88	8	AQUA	25.2	38.0	ND	5.9	6.5	9.6	ND	ND	ND	ND	ND	79.0		

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WELL NO.	DATE	SAMPLE #	PRIORITY POLLUTANTS										OTHER ORGANIC COMPOUNDS					
			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	1,1,1,2-TETRA- CHLORO- ETHANE	1,1,2,2-TETRA- CHLORO- ETHANE	1,2-DI- CHLORO- ETHYLENE	1,1-DI- CHLORO- ETHYLENE	1,1,2- TRI- CHLORO- ETHYLENE	1,2-DI- CHLORO- ETHYLENE	1,1,2- TRI- CHLORO- ETHYLENE	1,2-DI- CHLORO- ETHYLENE	1,1,2- TRI- CHLORO- ETHYLENE	1,1,2,2- TETRA- CHLORO- ETHYLENE	1,1,1,2- TETRA- CHLORO- ETHYLENE	1,1,2,2- TETRA- 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
S-26	07/10/87	7	ND	ND	ND	ND	ND	16.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/03/87	16	ND	ND	ND	ND	ND	14.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	01/15/88	31	ND	ND	ND	ND	ND	17.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/09/88	18	ND	ND	ND	ND	ND	18.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/19/88	29	ND	ND	ND	ND	ND	15.6	ND	ND	ND	ND	ND	ND	ND	ND	5.1	ND
	09/24/88	21	ND	ND	ND	ND	ND	17.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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

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GROUNDWATER QUALITY ANALYSIS
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GROUNDWATER INVESTIGATIONS
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WELL NO.	DATE	SAMPLE #	LAB	PRIORITY POLLUTANTS										OTHER ORGANIC COMPOUNDS										
				VOLATILE ORGANIC COMPOUNDS (VOC)																				
				1,1-DI- CHLORO- ETHANE	1,1-DI- CHLORO- ETHYLENE	1,2-DI- CHLORO- ETHANE	1,2-DI- CHLORO- ETHYLENE	1,1,1- TRI- CHLORO- ETHANE	1,1,2- TRI- CHLORO- ETHANE	1,1,2- TRI- CHLORO- ETHYLENE	1,2-DI- CHLORO- PROPANE	1,2-DI- CHLORO- PROPANE	1,2-DI- CHLORO- ETHYLENE	1,2-DI- CHLORO- ETHYLENE	1,2-DI- CHLORO- ETHYLENE	1,2-DI- CHLORO- ETHYLENE	1,2-DI- CHLORO- ETHYLENE	1,2-DI- CHLORO- ETHYLENE	1,2-DI- CHLORO- ETHYLENE	1,2-DI- CHLORO- ETHYLENE	1,2-DI- CHLORO- ETHYLENE	1,2-DI- CHLORO- 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	UG/L	UG/L
S-27	07/10/87	8	AQUA	ND	ND	ND	10.0	ND	90.0	ND	ND	ND	ND	ND	ND	ND	9.4	ND	ND	ND	ND	ND	ND	9.4
		26	AQUA	ND	ND	ND	8.0	ND	100.0	ND	ND	ND	ND	ND	ND	ND	7.5	ND	ND	ND	ND	ND	ND	7.5
		33	AQUA	ND	ND	ND	19.0	ND	96.0	ND	ND	ND	ND	ND	ND	ND	9.8	ND	ND	ND	ND	ND	ND	9.8
		32	AQUA	ND	ND	ND	16.0	ND	81.0	ND	ND	ND	ND	ND	ND	ND	12.0	ND	ND	ND	ND	ND	ND	12.0
		27	AQUA	ND	ND	ND	18.4	ND	74.6	ND	ND	ND	ND	ND	ND	ND	24.5	ND	ND	ND	ND	ND	ND	24.5
		27	AQUA	ND	ND	ND	26.0	ND	85.0	ND	ND	ND	ND	ND	ND	ND	11.0	ND	ND	ND	ND	ND	ND	11.0
		2	AQUA	ND	ND	ND	21.0	ND	80.0	ND	ND	ND	ND	ND	ND	ND	13.3	ND	ND	ND	ND	ND	ND	13.3

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		PRIORITY POLLUTANTS										OTHER ORGANIC COMPOUNDS			
		VOLATILE ORGANIC COMPOUNDS (VOC)													
WELL NO.	DATE	SAMPLE #	LAB	1,1-DI-CHLOROETHANE	1,1-DI-CHLOROETHYLENE	1,1-DI-CHLOROETHANE	1,1-DI-CHLOROETHYLENE	1,2-DI-CHLOROETHANE	1,2-DI-CHLOROETHYLENE	1,1,1-TRICHLOROETHANE	1,1,1-TRICHLOROETHYLENE	1,1,2-TRICHLOROETHANE	1,1,2-TRICHLOROETHYLENE	CIS-1,2-DICHLOROETHYLENE	
				UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	
BLANK	10/01/86	1,000	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	11/06/86	10	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	11/06/86	28	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	12/18/86	24	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	12/18/86	25	AQUA	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	
	02/12/87	23	AQUA	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	
	07/10/87	9	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	09/04/87	36	AQUA	ND	ND	ND	ND	ND	ND	ND	15.0	ND	ND	ND	
	01/13/88	10	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	01/13/88	35	AQUA	ND	ND	ND	ND	ND	ND	ND	21.0	ND	ND	7.7**	

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PRIORITY POLLUTANTS

		VOLATILE ORGANIC COMPOUNDS (VOC)												OTHER ORGANIC COMPOUNDS														
		TRANS-1,2-DI- CHLORO-ETHANE	TRANS-1,2-DI- ETHYLENE	DI- CHLORO-ETHANE	TRI- CHLORO-ETHANE	1,1,1- TRICHLORO-ETHANE	1,1,2-DI- CHLORO-ETHANE	1,2-DI- CHLORO-ETHANE	CHLORO- FORM	1,2-DI- CHLORO-ETHANE	VINYL CHLORIDE	1,1,1- TRICHLORO-ETHANE	1,1,2-DI- CHLORO-ETHANE	CIS-1,2- DICHLORO-ETHYLENE	OTHER ORGANIC COMPOUNDS													
		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	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L														
WELL NO.	DATE	SAMPLE #	LAB																									
BLANK	02/10/88	34	AQUA	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	5.0**													
	05/18/88	21	AQUA	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													
	09/25/88	28	AQUA	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													
	12/11/88	35	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.4	6.2**												
<p>TABLE 5</p> <p>GROUNDWATER QUALITY ANALYSIS</p> <p>ORGANIC COMPOUNDS</p> <p>PAGE 28 OF 28</p> <p>MONITOR WELLS</p> <p>GROUNDWATER INVESTIGATIONS</p> <p>ALLIED-SIGNAL CORPORATION</p> <p>SOUTH BEND, INDIANA</p> <p>PROJECT # ALMPX SBIN 017</p> <p>T A GLEASON ASSOCIATES</p> <p>Environmental and Geotechnical Services</p>																												



SAMPLE SOURCE	DATE	SAMPLE #	LAB	TRANS-1,2														NOTES:				
				1,1-DI-CHLORO-ETHANE	1,1-DI-CHLORO-ETHYLENE	BENZENE	ETHYL BENZENE	TOLUENE	DICHLORO-ETHYLENE	CHLORO-ETHYLENE	CIS-1,2-DICHLORO-ETHYLENE	TRANS-1,2-DICHLORO-ETHYLENE	TOTAL XYLENES	1,2-DICHLORO-ETHANE	CHLORO-ETHANE	TRI-CHLORO-ETHYLENE	VINYL CHLORIDE	OTHER VOC	OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.			
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	ND	ND	ND	ND		ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS.
	01/14/88	19	AQUA	60.0	25.0	ND	9.4	9.2	48.0	ND	19.0	ND	ND	ND	ND	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	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							
	09/25/88	32	AQUA	51.0	28.0	ND	5.6	ND	28.0	11.0	9.2	ND	ND	ND	ND	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						
TABLE 6																						
GROUNDWATER QUALITY ANALYSIS																						
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ALLIED CORPORATION																						
SOUTH BEND, INDIANA																						
PROJECT # ALCMPX SBIN 017																						
T A GLEASON ASSOCIATES																						
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RM060R
30-Jan-89

SAMPLE	SOURCE	DATE	LAB	SAMPLE #	TRANS-1,2										OTHER			NOTES		
					1,1-DI- CHLORO- ETHANE	1,1-DI- CHLORO- ETHYLENE	DICHLORO- ETHYLENE	CIS-1,2 DICHORO- ETHYLENE	DICHLORO- ETHYLENE	DI- CHLORO- ETHYLENE	TOTAL XYLENES	1,2 DI- CHLORO- ETHANE	1,2 DI- CHLORO- ETHYLENE	CHLORO- ETHANE	CHLORO- ETHYLENE	TRI- CHLORO- ETHYLENE	VINYL CHLORIDE		OTHER VOC	
RMB-6	10	03/25/87	AQUA	10	ND	300.0	8.7	50.0	ND	410.0	56.0	65.0	ND	ND	ND	ND	ND	ND		OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.
	11	03/25/87	AQUA	11	ND	300.0	12.0	50.0	ND	410.0	72.0	69.0	ND	ND	ND	ND	ND	ND		
	33	09/04/87	AQUA	33	ND	ND	ND	ND	ND	700.0	45.0	ND	290.0	ND	ND	ND	ND	ND		
	16	01/14/88	AQUA	16	ND	ND	ND	ND	ND	460.0	ND	ND	250.0	ND	ND	ND	ND	ND		
	26	02/10/88	AQUA	26	ND	ND	ND	ND	ND	550.0	55.0	57.0	230.0	ND	ND	ND	ND	ND		
	31	05/19/88	AQUA	31	ND	ND	ND	23.4	ND	672.0	41.8	ND	391.0	ND	ND	ND	ND	ND		
	31	09/25/88	AQUA	31	29.0	8.3	ND	30.0	ND	230.0	35.0	49.0	ND	ND	17.0	ND	ND	ND		
	19	12/09/88	AQUA	19	25.5	ND	ND	22.6	ND	305.0	27.5	40.0	133.0	ND	ND	23.7	443.0	ND		TABLE 6
	GROUNDWATER QUALITY ANALYSIS																			
	ORGANIC COMPOUNDS																			
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	T A GLEASON ASSOCIATES																			
	ENVIRONMENTAL AND GEOTECHNICAL SERVICES																			

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



RM160R
30-Jan-89

SAMPLE SOURCE	DATE	LAB	SAMPLE #	1,1-DI-ETHANE		1,1-DI-ETHYLENE		BENZENE	ETHYL		TOLUENE	DICHLORO-ETHYLENE		TRANS-1,2-DI-ETHYLENE		TOTAL XYLENES	1,2-DI-ETHANE		CHLORO-ETHANE	TRI-ETHYLENE		VINYL CHLORIDE	OTHER VOC	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			
RWB-16	03/25/87	AQUA	8	22.0	16.0	ND	ND	ND	ND	ND	ND	16.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND = NOT DETECTED. SEE LAB REPORT FOR DETECTION LIMITS.
	09/04/87	AQUA	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	01/14/88	AQUA	20	ND	ND	ND	ND	ND	ND	ND	ND	8.5	8.5	ND	220.0	ND	ND	ND	ND	ND	ND	ND	ND	
	02/10/88	AQUA	30	ND	ND	ND	ND	ND	ND	ND	ND	8.2	8.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	05/19/88	AQUA	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	149.0	22.5	ND	ND	ND	ND	ND	ND	ND	
	09/25/88	AQUA	33	152.0	ND	ND	ND	ND	ND	ND	ND	6.0	6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	12/09/88	AQUA	22	ND	ND	ND	ND	ND	ND	ND	5.4	5.4	ND	ND	140.0	ND	ND	ND	ND	ND	ND	15.0		

TABLE 6

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS
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NAPHTHA RECOVERY WELLS
GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALCMPX SBIN 017
T A GLEASON ASSOCIATES
ENVIRONMENTAL AND GEOTECHNICAL SERVICES



RW21OR
30-Jan-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	CIS-1,2 DICHLORO- 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	UG/L	UG/L		
RWB-21	103/25/87	12	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	109/04/87	32	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	101/14/88	15	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	102/10/88	25	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	105/19/88	30	AQUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	12/09/88	18	AQUA	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.

TABLE 6

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS

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NAPHTHA RECOVERY WELLS

GROUNDWATER INVESTIGATIONS

ALLIED CORPORATION

SOUTH BEND, INDIANA

PROJECT # ALCMPX SBIN 017

T A GLEASON ASSOCIATES

ENVIRONMENTAL AND GEOTECHNICAL SERVICES



RW220R
30-Jan-89

SAMPLE SOURCE	DATE	SAMPLE #	LAB	TRANS-1,2												NOTES:					
				1,1-DI- CHLORO- ETHANE	1,1-DI- CHLORO- ETHYLENE	ETHYL BENZENE	TOLUENE	DICHLORO- ETHANE	DICHLORO- ETHYLENE	CIS-1,2	TRANS-1,2	TOTAL XYLENES	1,2-DI- CHLORO- ETHANE	CHLORO- ETHANE	CHLORO- ETHYLENE	TRI- CHLORO- ETHENE	VINYL CHLORIDE	OTHER VOC	OUR INTERPRETATIONS OF THESE DATA ARE LIMITED TO OUR WRITTEN REPORTS.		
				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	UG/L	UG/L			
RWB-22	03/25/87	9	AQUA	184.0	124.0	ND	94.0	ND	ND	60.0	199.0	ND	ND	ND	ND	ND	ND	ND			
	09/04/87	34	AQUA	ND	ND	81.0	ND	ND	ND	ND	160.0	ND	420.0	ND	ND	ND	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	ND	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	ND	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	ND	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	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	ND	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	ND	ND	ND			
	09/25/88	30	AQUA	ND	8.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
TABLE 6																					
				GROUNDWATER QUALITY ANALYSIS																	
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				ALLIED CORPORATION																	
				SOUTH BEND, INDIANA																	
				PROJECT # ALCHPX SBIN 017																	
				T A GLEASON ASSOCIATES																	
				ENVIRONMENTAL AND GEOTECHNICAL SERVICES																	

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





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	
RW 8-12		12/11/88																					
<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 7</p> <p>GROUNDWATER QUALITY ANALYSIS</p> <p>METALS, CYANIDE AND PHENOLS</p> <p>PAGE 2 OF 5</p> <p>RECOVERY WELLS</p> <p>GROUNDWATER INVESTIGATIONS</p> <p>ALLIED CORPORATION</p> <p>SOUTH BEND, INDIANA</p> <p>PROJECT ALCMPX S81N 017</p> <p>T A GLEASON ASSOCIATES</p> <p>Environmental and Geotechnical Services</p>																							



RJ1113
30-Jan-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	
RW 13	NSM-5	12/11/88	AQUA	2610		17						<30		<5						60	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 7																							
GROUNDWATER QUALITY ANALYSIS																							
METALS, CYANIDE AND PHENOLS																							
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RECOVERY WELLS																							
GROUNDWATER INVESTIGATIONS																							
ALLIED CORPORATION																							
SOUTH BEND, INDIANA																							
PROJECT ALCMPX S81N 017																							
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	NOTES
				UMHDS/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	
RV 17	NSM-4	12/12/88	AQUA	2620		16					<30		<5						<20	<0.01	<0.01	METAL SAMPLES COLLECTED SINCE 6/05/87 WERE FILTERED IN THE FIELD THROUGH .45 MICRON FILTER
																						BLANK SPACE INDICATES ANALYSIS NOT PERFORMED
TABLE 7																						
GROUNDWATER QUALITY ANALYSIS																						
METALS, CYANIDE AND PHENOLS																						
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GROUNDWATER INVESTIGATIONS																						
ALLIED CORPORATION																						
SOUTH BEND, INDIANA																						
PROJECT ALCHPX SBIN 017																						
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	CADIUM 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				
RM 18-19	NSM-3	12/12/88	AQUA	2090		16					<30			<5												
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 7																										
GROUNDWATER QUALITY ANALYSIS																										
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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	1,2-DI- CHLORO- ETHANE UG/L	1,1,1-DI- CHLORO- ETHANE UG/L	1,1,2-DI- CHLORO- ETHANE UG/L	1,2,3-DI- CHLORO- ETHANE UG/L	1,2,4-DI- CHLORO- ETHANE UG/L	1,1,2-DI- CHLORO- PROPANE UG/L	1,1-DI- CHLORO- PROPANE UG/L	1,2-DI- CHLORO- PROPANE UG/L	1,1,2-DI- CHLORO- PROPANE UG/L	1,2,3-DI- CHLORO- PROPANE UG/L	1,1,1-TRI- CHLORO- ETHANE UG/L	1,1,2-TRI- CHLORO- ETHANE UG/L	1,2,3-TRI- CHLORO- ETHANE UG/L	1,1,2,3-TRI- CHLORO- ETHANE UG/L	1,1-DI- CHLORO- ETHYLENE UG/L	1,2-DI- CHLORO- ETHYLENE UG/L	1,1,1,2- TETRA- CHLORO- ETHYLENE UG/L	1,1,2,3- TETRA- CHLORO- ETHYLENE UG/L	1,1,2-TRI- CHLORO- ETHYLENE UG/L	1,1,1-TRI- CHLORO- ETHYLENE UG/L	1,1,2,3- TETRA- CHLORO- ETHYLENE UG/L	1,2-DI- CHLORO- ETHYLENE UG/L	1,1-DI- CHLORO- ETHYLENE UG/L	1,1,2-DI- CHLORO- ETHYLENE UG/L	1,1,1,2- TETRA- CHLORO- ETHYLENE UG/L																											
RM 1-7	10/04/88	NSM-1	AQUA	1450	ND	220	87	260	235	ND	136	ND	ND	770																																										
	10/06/88	NSM-5	AQUA	1100	ND	180	77	273	280	ND	125	ND	ND	731																																										
	12/11/88	NSM-1	AQUA	422	ND	53.6	45.6	211	374	ND	102	ND	ND	659																																										

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 GOMS SCAM FOR PRIORITY POLLUTANT VOLATILE ORGANIC COMPOUNDS FOR EACH LOCATION AND SAMPLING DATE. SEE LAB REPORT.

TABLE 8

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS

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RECOVERY WELLS

GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALAUBR SBIN 017

T A GLEASON ASSOCIATES
Environmental and Geotechnical Services





RW13
30-Jan-89

WELL NO.	DATE	SAMPLE #	LAB	PRIORITY POLLUTANTS VOLATILE ORGANIC COMPOUNDS (VOC)													OTHER ORGANIC COMPOUNDS
				1,1-DI-1,2-DI- CHLORO- ETHANE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE
RW13	10/06/88	NSM-9	AQUA	ND	27	ND	65	ND	ND	ND	84	ND	ND	328			
	12/11/88	NSM-5	AQUA	ND	33.4	81.4	93.3	ND	517								

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
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RECOVERY WELLS
GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALAUBR SB1N 017
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	1,1,1-TRI-CHLORO-ETHANE	1,1,2-TRI-CHLORO-ETHANE	1,1,2-TRI-CHLORO-ETHANE	1,2-DI-CHLORO-ETHANE	1,2-DI-CHLORO-ETHANE	1,1,1,2-TETRA-CHLORO-ETHANE	1,1,1,2-TETRA-CHLORO-ETHANE	1,1,1,2-TETRA-CHLORO-ETHANE	1,1-DI-CHLORO-ETHANE	1,2-DI-CHLORO-ETHANE	1,1-DI-CHLORO-ETHANE			
RW 18-19	10/04/88	NSM-3	AQUA	ND	ND	ND	ND	56	ND	47	ND	ND	ND	ND	19	ND	ND	ND	19		
	10/06/88	NSM-8	AQUA	ND	ND	ND	ND	57	ND	45	ND	ND	ND	ND	19	ND	ND	ND	19		
				ND	ND	ND	ND	217	ND	37.5	ND	ND	ND	ND	126	ND	ND	ND			
				ND	ND	ND	ND														
				ND	ND	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 8

GROUNDWATER QUALITY ANALYSIS
ORGANIC COMPOUNDS

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RECOVERY WELLS

GROUNDWATER INVESTIGATIONS
ALLIED CORPORATION
SOUTH BEND, INDIANA
PROJECT # ALAUBR SBIN 017

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