217/782-6761

US EPA RECORDS CENTER REGION 5
482057

Refer to: 0310300002 -- Cook County
Broadview/Allied Amphenol
Superfund/Technical Reports

March 10, 1986

Mr. Burton N. Fleischer
Director, Environmental Affairs
Allied Amphenol Products
4300 Commerce Court
Lisle, IL 60532

Dear Mr. Fleischer:

We are in receipt of your fourth quarter sampling results, and as you indicated in your letter, there are some changes in the metal concentrations. Cadmium levels in MW12 and copper levels in all six monitoring wells are above the permissible concentration as outlined in Section 302.208 of the General Use Water Quality Standards. The volatile organics, trans-1,2-Dichloroethylene, and vinyl chloride in MW16S, although noticeably decreased in concentration, remain to be above recommended levels.

The fact that sampling was performed closely following the remedial action on-site may have an impact on the data.

We look forward to the next quarter sampling data which may give needed clarification for the above referenced chemical constituents.

Please contact us with any concerns or questions.

Sincerely,

Mary E. Dinkel

Mary E. Dinkel
Immediate Removal Unit
Remedial Project Management Section
Division of Land Pollution Control

MED:cm:4/126

cc: Division File

GROUND WATER ELEVATIONS

WELL NO.	GROUND WATER ELEVATION MEASURED JUNE 5, 1985 (ft. MSL)	GROUND WATER ELEVATION MEASURED DECEMBER 17, 1985 (ft. MSL)
MW-1	617.35	617.77
MW-2	617.29	618.31
MW-12	617.41	618.68
MW-13	617.65	616.90
MW-15	617.49	618.66
MW-16D(a)	612.35	614.25
MW-16S	616.02	616.29

(a)MW-16D was not used in constructing the ground water contours shown in Figure 1. It is screened in a deeper sand lense than the remaining site wells.

TABLE 3

WATER ANALYSIS SUMMARY
OF VOLATILE NON-PRIORITY POLLUTANT COMPOUNDS
FOR ALLIED CORPORATION/BROADVIEW
PROJECT NO. 84-6756

PARAMETERS	CAS NUMBER[1]	SAMPLE IDENTIFICATION					
		MW-2	MW-12	MW-13	MW-15	MW-16D	MW-1
		Concentration μg/ℓ[2]					
Acetone	67-64-1	<20	<20	<20	<20	<20	<2
2-Butanone	78-93-3	26	<20	<20	<20	<20	<2
Carbon disulfide	75-15-0	<10	<10	<10	<10	<10	<1
2-Hexanone	591-78-6	<10	<10	<10	<10	<10	<1
4-Methyl-2-pentanone	108-10-1	<10	<10	<10	<10	<10	<1
Styrene	100-42-5	<1.0	<1.0	<1.0	<1.0	<1.0	<1
Vinyl acetate	108-05-4	<10	<10	<10	<10	<10	<1
Total xylenes	95-47-6	<1.0	<1.0	<1.0	<1.0	<1.0	<1

(1) The numbers presented in this column are the Chemical Abstracts Service (CAS) numbers used for cataloging the indicated compounds in the Chemical Abstracts Index.

(2) μg/ℓ = micrograms per liter or parts per billion.

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TABLE 2 FOOTNOTES

(1) The numbers presented in this column are the Chemical Abstracts Service (CAS) numbers used for cataloging the indicated compounds in the Chemical Abstracts Index.

(2) µg/ℓ = micrograms per liter or parts per billion.

(3) The indicated compound is incorrectly identified in Part C of NPDES Form 2C as 1,2-Dichloropropylene. However, the sample was screened for the presence of both compounds.

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PARAMETER	CAS NUMBER(1)	SAMPLE IDENTIFICATION MW-15	MW-16D	MW-16S
		Concentration µg/ℓ(2)		
Acrolein	107-02-8	<10	<10	<10
Acrylonitrile	107-13-1	<10	<10	<10
Benzene	71-43-2	<1.0	<1.0	<1.0
Bromoform	75-25-2	<1.0	<1.0	<1.0
Carbon Tetrachloride	56-23-5	<1.0	<1.0	<1.0
Chlorobenzene	108-90-7	<1.0	<1.0	<1.0
Chlorodibromomethane	124-48-1	<1.0	<1.0	<1.0
Chloroethane	75-00-3	<1.0	<1.0	<1.0
2-Chloroethylvinyl ether	110-75-8	<1.0	<1.0	<1.0
Chloroform	67-66-3	<1.0	<1.0	<1.0
Dichlorobromomethane	75-27-4	<1.0	<1.0	<1.0
1,1-Dichloroethane	75-34-3	<1.0	<1.0	1.4
1,2-Dichloroethane	107-06-2	<1.0	<1.0	<1.0
1,1-Dichloroethylene	75-35-4	<1.0	<1.0	14
1,2-Dichloropropane	78-87-5	<1.0	<1.0	<1.0
1,3-Dichloropropylene(3)	542-75-6	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	<1.0	<1.0	<1.0
Methyl bromide	74-83-9	<10	<10	<10
Methyl chloride	74-87-3	<10	<10	<10
Methylene chloride	75-09-2	<10	<10	<10
1,1,2,2-Tetrachloroethane	79-34-5	<1.0	<1.0	<1.0
Tetrachloroethylene	127-18-4	<1.0	<1.0	<1.0
Toluene	108-88-3	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene	156-60-5	<1.0	1.0	2000
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	79-00-5	<1.0	<1.0	<1.0
Trichloroethylene	79-01-6	<1.0	<1.0	2.5
Vinyl Chloride	75-01-4	<10	<10	850

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WATER ANALYSIS SUMMARY
OF VOLATILE PRIORITY POLLUTANTS
FOR ALLIED CORPORATION/BROADVIEW
PROJECT NO. 84-6756

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION MW-2	MW-12	MW-13
		Concentration µg/ℓ[2]		
Acrolein	107-02-8	<10	<10	<10
Acrylonitrile	107-13-1	<10	<10	<10
Benzene	71-43-2	<1.0	<1.0	<1.0
Bromoform	75-25-2	<1.0	<1.0	<1.0
Carbon Tetrachloride	56-23-5	<1.0	<1.0	<1.0
Chlorobenzene	108-90-7	<1.0	<1.0	<1.0
Chlorodibromomethane	124-48-1	<1.0	<1.0	<1.0
Chloroethane	75-00-3	<1.0	<1.0	<1.0
2-Chloroethylvinyl ether	110-75-8	<1.0	<1.0	<1.0
Chloroform	67-66-3	<1.0	<1.0	<1.0
Dichlorobromomethane	75-27-4	<1.0	<1.0	<1.0
1,1-Dichloroethane	75-34-3	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	<1.0	<1.0	<1.0
1,1-Dichloroethylene	75-35-4	<1.0	<1.0	<1.0
1,2-Dichloropropane	78-87-5	<1.0	<1.0	<1.0
1,3-Dichloropropylene[3]	542-75-6	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	<1.0	<1.0	<1.0
Methyl bromide	74-83-9	<10	<10	<10
Methyl chloride	74-87-3	<10	<10	<10
Methylene chloride	75-09-2	<10	<10	<10
1,1,2,2-Tetrachloroethane	79-34-5	<1.0	<1.0	<1.0
Tetrachloroethylene	127-18-4	<1.0	<1.0	<1.0
Toluene	108-88-3	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene	156-60-5	<1.0	6.7	<1.0
1,1,1-Trichloroethane	71-55-6	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	79-00-5	<1.0	<1.0	<1.0
Trichloroethylene	79-01-6	<1.0	<1.0	<1.0
Vinyl Chloride	75-01-4	<10	<10	<10

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TABLE 1

WATER QUALITY ANALYSIS SUMMARY
FOR ALLIED CORPORATION/BROADVIEW
PROJECT NO. 84-6756

PARAMETER	UNITS[1]	SAMPLE IDENTIFICATION MW-2	MW-12	MW-13	MW-15	MW-16D	MW-16S
General Chemistry:							
Cyanide, Total	mg/ℓ	<0.02	<0.02	<0.02	<0.02	<0.02/<0.02[2]	<0.02
Oil and Grease	mg/ℓ	4.0	8.6	3.2	2.0	2.0	2.5
Metals:							
Cadmium	mg/ℓ	0.043/0.047	0.12	<0.005	<0.005	<0.005	<0.005
Chromium	mg/ℓ	0.41	0.42	0.06	0.06	0.03	<0.01/<0
Copper	mg/ℓ	1.1	0.91	0.09	0.18	0.07	0.09/0.
Gold	mg/ℓ	<0.001/<0.001	0.003	<0.001	<0.001	<0.001	<0.00
Nickel	mg/ℓ	1.2	0.97	0.12	0.20	0.06	0.17/0.
Silver	mg/ℓ	0.002/0.003	0.007	<0.001	<0.001	<0.001	<0.00
Rhodium	mg/ℓ	<0.005/<0.005	<0.005	<0.005	<0.005	<0.005	<0.00

(1) mg/ℓ = milligrams per liter or parts per million.

(2) The indicated samples were analyzed in duplicate.

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