BASIC AMERICAN FOODS

MW-1 - Monthly Sampling

	Water Elev Feet	Ammonia (as N) Single MG/L	QLF	TKN (as N) Single MG/L	QLF	NITRATE (as N) Single MG/L	QLF	pH Single S.U.	TDS Single MG/L	Temp Single °F
Jan-01	1134.11	0.5	F	1.5	F	2.1		7.8	199	57.2
Feb-01	1133.37	0.5	F	1.5	F	1.9		7.9	217	57.7
Mar-01	1131.7	0.5	F	0.5	F	2.2		8.4	205	58.8
Apr-01	1122.32	0.5	F	1.5	F	1.8		7.7	213	58.6
May-01	1130.95	0.5	F	1.5	F	1.5		8	218	60.1
Jun-01	1130.55	0.5	F	1.5	F	2.2		8.1	213	60.6
Jul-01	1130.15	0.5	F	1.5	F	2.8		7.6	193	61.3
Aug-01	1130.29	0.6		1.5	F	2.8		9.3	203	60.1
Sep-01	1130.95	0.5		1.5	F	2.9		8.5	206	59.7
Oct-01	1131.57	0.5	F	1.5	F	2.2		7.6	207	59
Nov-01	1132.2	0.5	F	3.9		1.8		8.2	208	59
Dec-01	1132.34	0.5	F	1.5	F	2.1		7.9	198	57.9
Jan-02	1132	0.5	F	2		2		8.1	205	57.6
Feb-02	1131.05	0.8		1.5	F	2.1		7.5	205	58.3
Mar-02	1131.31	0.5	F	1.5	F	2		8.3	212	59.2
Apr-02	1127.48	0.5	F	1.5	F	2.2		8	207	59.4
May-02	1128.09	0.5	F	1.5	F	2.2		7.3	222	60.1
Jun-02	1129.98	0.5	F	1.5	F	1.9		7.9	209	61.5
Jul-02	1129.41	0.5	F	1.5	F	2		8	183	60.1
Aug-02	1129.63	0.5	F	1.5	F	1.9		8.1	219	60.6
Sep-02	1129.36	0.5	F	1.5	F	1.5		8.1	199	60.1
Oct-02	1131.3	0.5	F	1.5	F	1.3		8.1	195	59.4
Nov-02	1131.15	0.5	F	1.5	F	1.6		8.1	177	58.5
Dec-02	1130.35	0.5	F	1.5	F	1.5		8.1	188	58.8
Jan-03	1132.78	0.5		1.5	F	1.8		8	196	58.6
Feb-03	1130.85	0.5	F	1.5	F	1.8		7.3	195	59.4
Mar-03	1130.4	0.6		1.5	F	1.7		7.5	206	59.4
Apr-03	1129.95	0.5	F	1.5	F	2		7.8	206	59.7
May-03	1129.48	0.5	F	1.5	F	1.9		7.8	221	60.3
Jun-03	1129.35	1.6		1.5	F	2.8		7.9	209	61.5
Jul-03	1129.35	0.6		1.5	F	2.8		7.9	236	60.1
Aug-03	1129.66	0.5	F	1.5	F	2.5		7.9	202	59.9
Sep-03	1130.65	0.6		1.5	F	2.1		7.8	209	61.3
Oct-03	1132	0.5	F	1.5	F	1.4		7.8	195	58.3
Nov-03	1132.15	0.5	F	1.5	F	1		7.7	188	58.8
Dec-03	1127.2	0.5	F	1.5	F	1.2		7.3	188	58.6
Jan-04	1132.02	0.5	F	1.5	F	1.3		7.8	190	58.6
Feb-04	1130.91	0.5	F	1.5	F	1.2		7.6	188	58.3
Mar-04	1130.62	0.5	F	1.5	F	1.4		7.7	202	59.5
Apr-04	1130.45	0.5	F	1.5	F	1.7		7.9	193	59.2
May-04	1129.79	0.5	F	2		2.2		7.9	200	59.5
Jun-04	1129.37	0.5	F	1.5	F	1.6		7.9	187	60.3
Jul-04	1129.34	0.5	F	1.5	F	1.8		8.1	212	60.1
Aug-04	1129.2	0.5	F	1.5	F	1.8		8	191	60.6
Sep-04	1129.42	0.5	F	1.5	F	1.6		7.7	196	59.7
Oct-04	1130.12	0.5	F	1.5	F	1.2		7.9	196	61.7
Nov-04	1131.44	0.5	F	1.5	F	1.1		7.8	175	58.5
Dec-04	1130.82	0.5	F	1.5	F	1.4		7.8	171	57.7
Jan-05	1130.4	0.5	F	1.5	F	1.6		7.6	184	57.9
Feb-05	1130.11	0.5	F	1.5	F	1.7		7.9	183	59.2
Mar-05	1129.68	0.5	F	1.5	F	1.6		7.8	201	60.3
Apr-05	1129.31	0.5	F	1.5	F	1.6		8	197	59.9
May-05	1129.19	0.4		1.5	F	1.6		7.9	199	60.3
Average						1.85			200	

Qualifiers F = less than

ADDENDUM 1

Upgradient well data (Jan 2001 – May 2005)

PROCESS WASTEWATER - Basic American Foods

Quarterly Testing

	BICARBONATE				CHLORIDE				SULFATE (AS S)				TOTAL PHOSPHATE (AS P)			
	Single LBS/DAY Value	QLF	Single MG/L Value	QLF	Single LBS/DAY Value	QLF	Single MG/L Value	QLF	Single LBS/DAY Value	QLF	Single MG/L Value	QLF	Single LBS/DAY Value	QLF	Single MG/L Value	QLF
	TOTAL SODIUM				**TOTAL CALCIUM**				**TOTAL MAGNESIUM**				**POTASSIUM**			
	Single LBS/DAY Value	QLF	Single MG/L Value	QLF	Single LBS/DAY Value	QLF	Single MG/L Value	QLF	Single LBS/DAY Value	QLF	Single MG/L Value	QLF	Single LBS/DAY Value	QLF	Single MG/L Value	QLF
Jan-01	1468		153		125		13		134		14		1968		205	
Apr-01	1758		155		102.1		9		102.1		9		1656		146	
Jun-01		6		6		6		6		6		6		6		6
Jul-01	2151		176		134		11		89		7.3		1528		125	
Oct-01	2071		176		95		8.1		85		7.2		1612		137	
Dec-01	1694		172		118		12		118		12		1566		159	
Feb-02	1762		18		106		11		87		9		1568		162	
May-02	1671		140		107		9		82		6.9		1552		130	
Aug-02	1222		145		46		5.4		65		7.7		1635		194	
Nov-02	1306		141		127		13.7		101		10.9		1612		174	
Feb-03	1247		154		107		13.2		100		12.4		1652		204	
May-03		6		6		6		6		6		6		6		6
Jun-03	1149		135		51		6		64		7.5		1583		186	
Aug-03	1283		106		67		5.5		67		5.5		1428		118	
Nov-03	864		138		53		8.5		54		8.6		1158		185	
Feb-04	1359		177		75		9.8		60		7.8		1113		145	
May-04	866		125		57		8.3		57		8.3		1115		161	
Nov-04	1029		134		64		8.3		69		9		1420		185	
Jan-05	1818.75		215		75.3		8.9		77		9.1		1429.6		169	
May-05	1272.5		129		81.9		8.3		85.8		8.7		1479.7		150	
Avg	1444		144		88.4		9.4		83.2		8.9		1504		163	

Qualifiers 6 = testing conditonal

PROCESS WASTEWATER - Basic American Foods

Quarterly Testing

	BICARBONATE				CHLORIDE				SULFATE (AS S)				TOTAL PHOSPHATE (AS P)			
	Single LBS/DAY Value	QLF	Single MG/L Value	QLF	Single LBS/DAY Value	QLF	Single MG/L Value	QLF	Single LBS/DAY Value	QLF	Single MG/L Value	QLF	Single LBS/DAY Value	QLF	Single MG/L Value	QLF
Jan-01	5735		598		1161		121		178		18.5		185		17.2	
Apr-01	6805		600		612		54		147		13		141		12.4	
Jun-01		6		6		6		6		6		6		6		6
Jul-01	5598		458		1724		141		281		23		122		10	
Oct-01	5751		489		1542		131		259		22		99		8.4	
Dec-01	5097		518		1438		146		217		22		133		13.5	
Feb-02	5010		518		1588		164		194		20		113		11.7	
May-02	4291		360		1731		145		216		18.1		127		10.6	
Aug-02	4155		493		986		117		244		29		164		19.5	
Nov-02	3883		419		1139		123		750		81		139		15	
Feb-03	4908		606		834		103		251		31		142		17.5	
May-03		6		6		6		6		6		6		6		6
Jun-03	4149		487		928		109		159		18.7		127		14.9	
Aug-03	5785		478		189		15.6		61		5		93		7.7	
Nov-03	3157		504		682		109		123		19.6		101		16.2	
Feb-04	3665		477		1121		146		192		25		95		12.4	
May-04	2670		385		977		141		86		12.4		93		13.4	
Nov-04	3857		502		822		107		146		19		107		13.9	
Jan-05	4483.4		530		1759.5		208		80.4		9.5		133.6		15.8	
May-05	4594.4		466		755.6		76.6		172.6		17.5		287.1		29.1	
Avg	4644		494		1111		120		209		22.5		133		14.4	

PROCESS WASTEWATER - Basic American Foods

Monthly Testing

	FLOW						BOD				TKN (as N)				Ammonia (as N)				pH			
	Annual Avg MGD	QLF	Monthly Avg MGD	QLF	Maximum Daily MGD	QLF	Single LBS/DAY	QLF	Single MG/L	QLF	Single LBS/DAY	QLF	Single MG/L	QLF	Single LBS/DAY	QLF	Single MG/L	QLF	MAX S.U.	QLF	MIN S.U.	QLF
Jan-03	1.04		1.02		1.1		11305		1328		681		80		272		32		6.8		5.5	
Feb-03	1.02		0.97		1.06		9780		1208		696		86		267		33		6.8		6.2	
Mar-03	1.01		0.95		1.28		8472		1070		.550		70.8		217		27.4		7.2		5.8	
Apr-03	0.99		0.94		1		8629		1055		680		83.2		266		32.5		6.8		5.4	
May-03	1.01		1.09		1.49		7772		751		683		66		286		27.6		6.7		5.4	
Jun-03	0.97		0.7		1.11		3086		363		270		32		160		19		6		5.8	
Jul-03	0.98		1.02		1.15		2655		328		233		28.8		138		17		8.3		5.8	
Aug-03	0.98		1.05		1.46		7128		589		411		34		266		22		6.7		6.5	
Sep-03	0.98		0.95		1.01		8745		1103		603		76		220		27.7		7		6	
Oct-03	0.99		1.04		1.34		9662		1135		919		108		349		41		6.7		5.9	
Nov-03	0.74		0.84		1.09		5515		881		501		80		159		25.4		7.3		5.9	
Dec-03	0.59		0.63		1.05		5008		706		67		475		213		30		6.7		5.8	
Jan-04	0.46		0.85		1.18		7223		794		464		51		5		0.5		6.5		5.9	
Feb-04	0.36		0.85		0.95		5298		690		438		57.1		241		31.4		6.7		6.1	
Mar-04	0.68		1.11		1.51		5093		836		457		75		250		41		6.7		5.8	
Apr-04	0.7		1.18		1.43		10774		978		683		62		353		32		6.6		6.2	
May-04	0.71		1.23		1.46		6816		984		395		57		284		41		7		5.8	
Jun-04	0.72		0.75		0.88		6440		643		418		41.7		178		17.8		7.2		5.9	
Jul-04	0.69		0.17		0.34		39		4		0		0		0		0		8.5		8.5	
Aug-04	0.71		0.81		1.26		4999		483		383		37		228		22		7.4		6.2	
Sep-04	0.72		0.8		1.03		3019		323		309		29		159		17		7.5		6.5	
Oct-04	0.74		1.15		1.5		8802		787		492		44		257		23		7.4		6.1	
Nov-04	0.74		0.74		1.21		5920		771		499		65		415		54		7.1		6.2	
Dec-04	0.63		0.57		1.13		4387		657		361		54		147		22		6.9		6.6	
Jan-05	0.7		0.83		1.42		4221		733		502.97		63		155		27		6.8		5.7	
Feb-05	0.74		0.87		1.36		8503		842		727.5		86		434		43		6.9		5.7	
Mar-05	0.75		0.81		1.51		6403		634		488.78		49.2		218		21.6		6.7		6.2	
Apr-05	0.77		0.86		1.11		9957		1193		502.6		54		242		29		6.8		6.3	
May-05	0.78		0.83		0.97		10226		1094		818.7		83		288		30.8		7		6.1	
Avg	0.93		1.00		1.27		7181		791		514		65.2		232		25.6					

Qualifiers E = Analysis not conducted

PROCESS WASTEWATER - Basic American Foods

Monthly Testing

	FLOW						BOD				TKN (as N)				Ammonia (as N)				pH			
	Annual Avg MGD	QLF	Monthly Avg MGD	QLF	Maximum Daily MGD	QLF	Single LBS/DAY	QLF	Single MG/L	QLF	Single LBS/DAY	QLF	Single MG/L	QLF	Single LBS/DAY	QLF	Single MG/L	QLF	MAX S.U.	QLF	MIN S.U.	QLF
Jan-01		E		E	1.2		12506		1303		854		89		299		31.2		5.9		5.7	
Feb-01	1.15		1.11		1.17		9638		1022		660		70		340		36		6.6		5.8	
Mar-01		E	1.05		1.11		9365		996		641		68		302		32		6.1		5.8	
Apr-01	1.2		1.29		1.37		9353		824		704		62		355		31.3		6.2		6	
May-01	1.21		1.28		1.41		7165		698		524		51		236		23		6.4		6.2	
Jun-01	1.23		1.38		1.52		6718		583		496		43		219		19		6.7		6.3	
Jul-01	1.25		1.39		1.45		4449		523		383		45		118		13.9		7.9		6.1	
Aug-01	1.27		1.43		1.49		7986		665		624		52		240		20		6.4		5.9	
Sep-01	1.28		1.05		1.36		7046		603		549		47		280		24		7.7		6.4	
Oct-01	1.28		1.33		1.58		8085		687		541		46		259		22		7		6.7	
Nov-01	1.14		1.1		1.32		11596		1494		404		52		163		21		7.3		6.5	
Dec-01	0.72		0.28		1.19		7317		743		611		62		236		24		5.9		5.9	
Jan-02	0.87		1.11		1.22		1296		135		86		9		29		3		7.1		6.8	
Feb-02	0.95		1.16		1.7		9100		940		562		58		232		24		7.7		6.8	
Mar-02	1.01		1.26		1.56		9502		990		643		67		248		25.8		7.5		5.7	
Apr-02	1.04		1.15		1.25		7181		717		501		50		279		27.9		7.1		6.1	
May-02	1.1		1.47		1.6		9023		756		537		45		248		20.8		7		6.1	
Jun-02	1.14		0.77		1.31		6406		645		457		46		276		27.8		8.4		6.2	
Jul-02	1.15		1.28		1.59		104		9		22		1.9		12		1		8.9		7	
Aug-02	1.16		1.22		1.41		7072		839		683		81		239		28.3			E		E
Sep-02	1.16		1.15		1.28		6316		688		532		57.9		235		25.6		7.3		6.4	
Oct-02	1.16		1.15		1.38		6988		829		590		70		261		31		7.3		5	
Nov-02	1.11		1.1		1.17		8569		925		778		84		269		29			E		E
Dec-02	1.05		0.98		1.14		11925		1323		649		72		270		30		6.8		5.9	

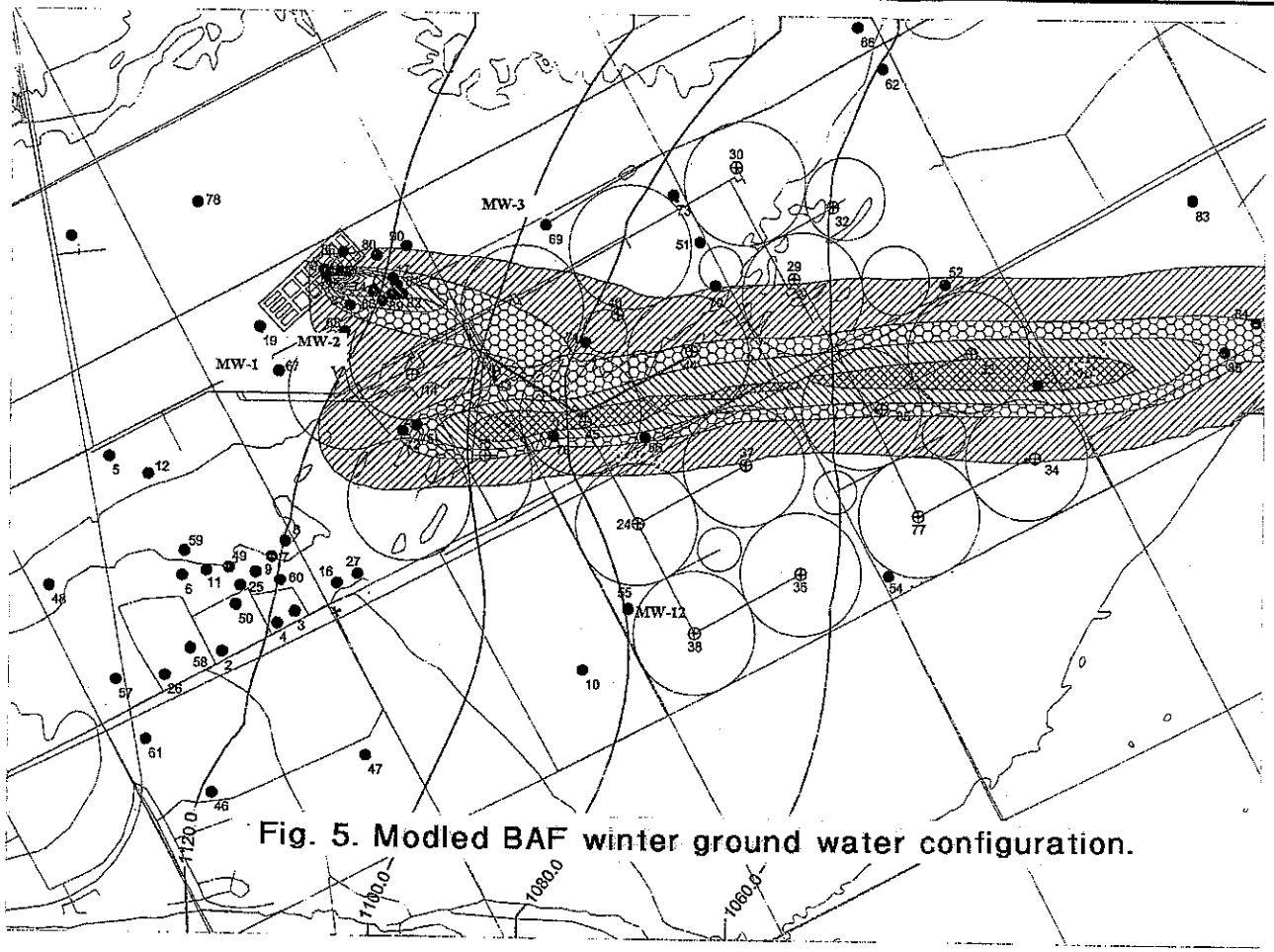


Fig. 5. Modled BAF winter ground water configuration.

WELL LOCATIONS

BAF WELL	MODEL LOCATION NUMBER
MW-1	#67
MW-2	#69
MW-3	#69
MW-4 (ABANDONED)	#70
MW-5 (ABANDONED)	#71
MW-6	#72
MW-7 (ABANDONED)	#73
MW-8	#51
MW-9	#52
MW-10	#53
MW-11	#54
MW-12	#55
MW-13	#56
WW-1	#14
WW-2	#43
WW-3	#40
MWA-1	#74
MWA-2	#75
MWA-3 (ABANDONED)	#76

LEGEND

83 WELL

34 IRRIGATION WELL

1060.0 WATER TABLE ELEVATION

WELL IDENTIFICATION NUMBER CORRESPONDS TO TABLE 2 'WELL LOG TABULATION'

CONCENTRATION DISTRIBUTION

LOW ←——→ HIGH

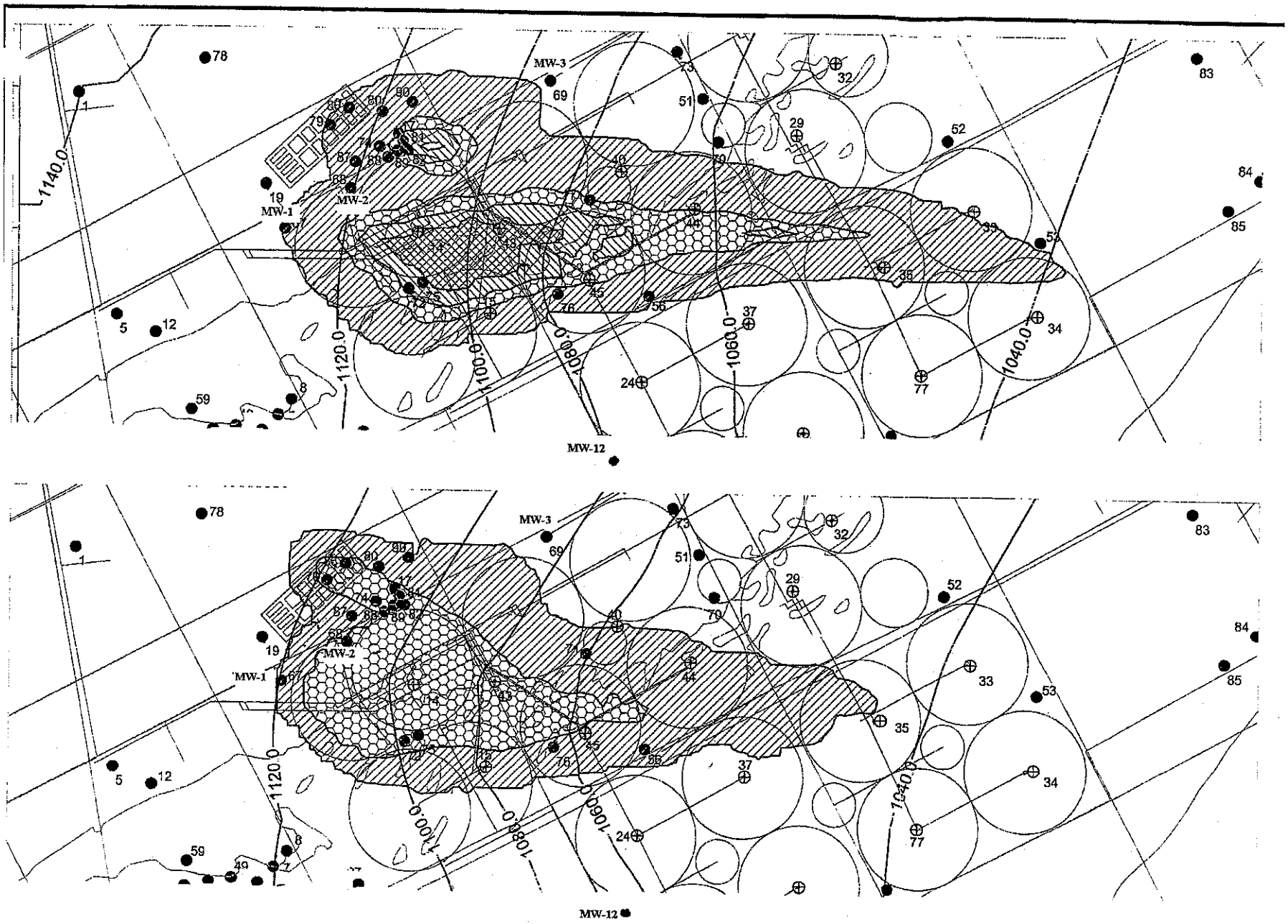
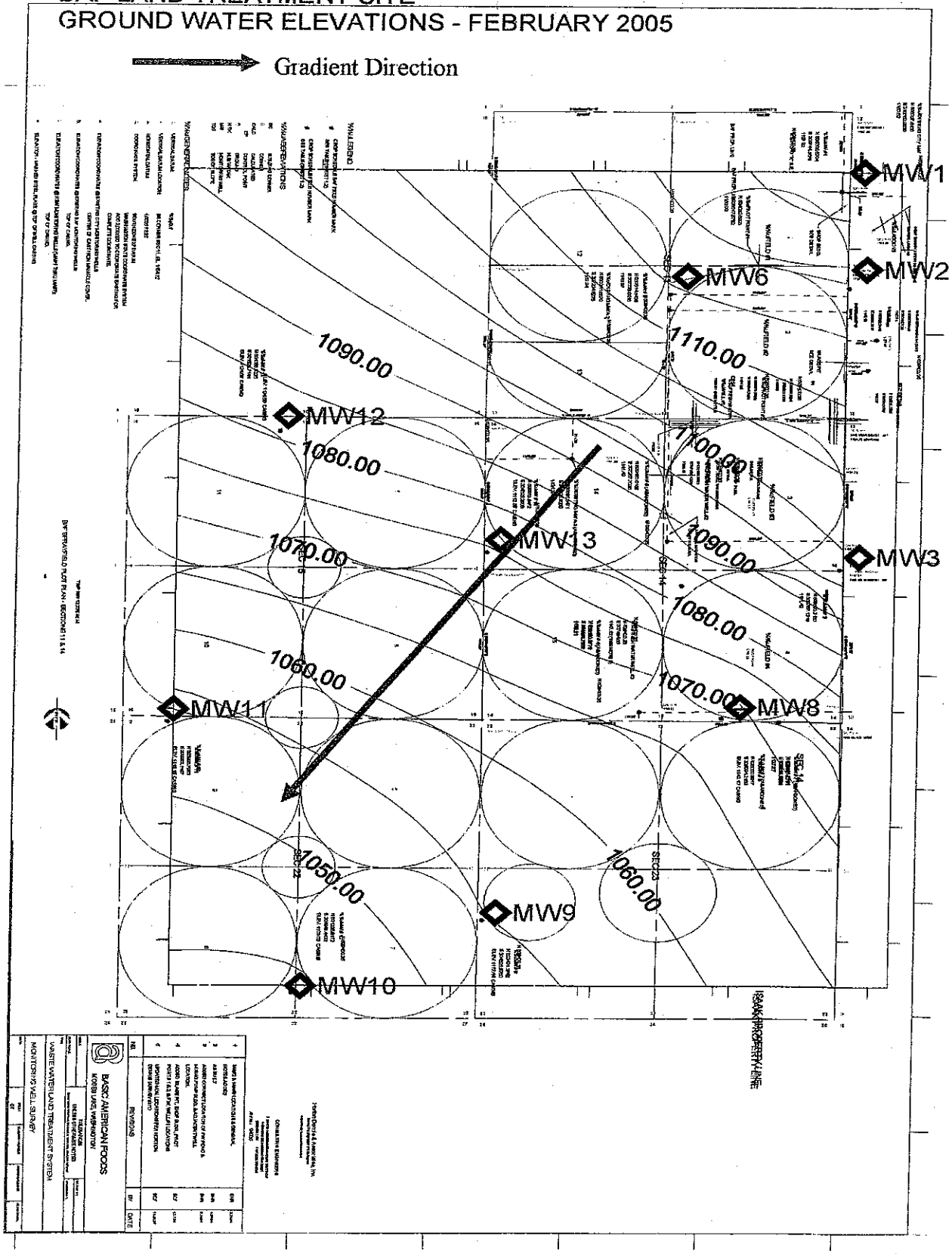


Fig. 4. Modled BAF summer ground water configuration.

Fig. 3.

BAF LAND TREATMENT SITE
GROUND WATER ELEVATIONS - FEBRUARY 2005