TABLES

TABLE A.4-1
SOIL PERMEABILITY CALCULATIONS

Extraction Well = VE-1A				
Monitoring Well Data - Zone 2, 4/13/99 12:15				
Extraction Well Radius (R_e)	inch	1		
	cm	2.54		
Air viscosity (μ)	g/cm-s	0.00018		
		SVW-25	SVW-26	SVW-28
Distance	ft	53.8	101.4	167.4
Distance (D_m)	cm	1639.8	3090.7	5102.4
Screen Interval	ft	40	40	40
Screen Interval	cm	1219.2	1219.2	1219.2
Extraction Flow Rate	cfm	179	179	179
Extraction Flow Rate (Q)	cm^3/s	84479.1	84479.1	84479.1
Extraction Vacuum (gage)	inches H_2O	44	44	44
Extraction Vacuum (abs)	$g/cm\text{-}s^2$	900757.72	900757.72	900757.72
Measured Vacuum (gage)	inches H_2O	1.8	1.25	0.7
Measured Vacuum (abs)	$g/cm\text{-}s^2$	1005502.8	1006867.9	1008233.1
$\ln[R_e/D_m]$		-6.47	-7.10	-7.61
$[1-(P_m/P_e)^2]$		-0.25	-0.25	-0.25
Permeability	cm^2	1.159E-07	1.256E-07	1.326E-07
	darcy	11.71	12.68	13.40
Average Permeability	cm^2			1.25E-07
	darcy			12.60

TABLE A.4-1
SOIL PERMEABILITY CALCULATIONS

Extraction Well = VE-1B				
Monitoring Well Data- Zone 3, 4/20/99 10:00				
Extraction Well Radius (R_e)	inch	1		
	cm	2.54		
Air viscosity (μ)	g/cm-s	0.00018		
		SVW-25	SVW-26	SVW-28
Distance	ft	53.8	101.4	167.4
Distance (D_m)	cm	1639.8	3090.7	5102.4
Screen Interval	ft	40	40	40
Screen Interval	cm	1219.2	1219.2	1219.2
Extraction Flow Rate	cfm	162	162	162
Extraction Flow Rate (Q)	cm^3/s	76455.9	76455.9	76455.9
Extraction Vacuum (gage)	inches H_2O	70	70	70
Extraction Vacuum (abs)	$g/cm\text{-}s^2$	836222.86	836222.86	836222.86
Measured Vacuum (gage)	inches H_2O	2.03	2.05	0.25
Measured Vacuum (abs)	$g/cm\text{-}s^2$	1004931.9	1004882.2	1009350
$\ln[R_e/D_m]$		-6.47	-7.10	-7.61
$[1-(P_m/P_e)^2]$		-0.44	-0.44	-0.46
Permeability	cm^2	6.262E-08	6.877E-08	7.155E-08
	darcy	6.32	6.95	7.23
Average Permeability	cm^2			6.76E-08
	darcy			6.83

TABLE A.4-1
SOIL PERMEABILITY CALCULATIONS

Extraction Well = VE-1C			
Monitoring Well Data- Zone 4, 4/27/99 14:00			
Extraction Well Radius (R_e)	inch	1	
	cm	2.54	
Air viscosity (μ)	g/cm-s	0.00018	
		SVW-25	SVW-26
Distance	ft	53.8	101.4
Distance (D_m)	cm	1639.8	3090.7
Screen Interval	ft	40	40
Screen Interval	cm	1219.2	1219.2
Extraction Flow Rate	cfm	163	163
Extraction Flow Rate (Q)	cm^3/s	76927.9	76927.9
Extraction Vacuum (gage)	inches H_2O	80	80
Extraction Vacuum (abs)	$g/cm\text{-}s^2$	811401.76	811401.76
Measured Vacuum (gage)	inches H_2O	2.95	1.2
Measured Vacuum (abs)	$g/cm\text{-}s^2$	1002648.3	1006992
$\ln[R_e/D_m]$		-6.47	-7.10
$[1-(P_m/P_e)^2]$		-0.53	-0.54
Permeability	cm^2	5.473E-08	5.862E-08
	darcy	5.53	5.92
Average Permeability	cm^2		5.67E-08
	darcy		5.72

TABLE: A.4-2
TEST 1: VOC ANALYSIS

Week	Day	Date / Time	Operating Hours *hr*	Avgerage Vacuum *in. H_2O*	Average Flowrate *cfm*	CCl4 Average Concentration *mg/m³*	CCl4 Removal Rate *lb/hr*	CCl4 Removed *lb*	Cumulative CCl4 Removed *lb*	Freon 113 Average Concentration *mg/m³*	Freon 113 Removal Rate *lb/hr*	Freon 113 Removed *lb*	Cumulative Freon 113 Removed *lb*	Total VOCs Removed *lb*
1	1	4/13/98 10:00	6	44	174	157	0.102	0.61	0.61	0	0.000	0.00	0.00	0.61
1	2	4/14/98 10:00	8	32	139	153	0.080	0.64	1.25	11	0.006	0.05	0.05	1.30
1	3	4/15/98 10:00	8	20	102	170	0.065	0.52	1.77	13	0.005	0.04	0.09	1.86
1	4	4/16/98 10:00	8	10	58	170	0.037	0.3	2.07	0	0.000	0.00	0.09	2.16
		4/19/98 10:00	0	0	0		0.000	0	2.07		0.000	0.00	0.09	2.16
2	1	4/20/98 10:00	8	70	167	253	0.158	1.27	3.34	0	0.000	0.00	0.09	3.43
2	2	4/21/98 10:00	8	52	143	260	0.139	1.11	4.45	0	0.000	0.00	0.09	4.54
2	3	4/22/98 10:00	8	34	109	237	0.097	0.77	5.22	0	0.000	0.00	0.09	5.31
2	4	4/23/98 10:00	8	17	60	263	0.059	0.47	5.69	17	0.004	0.03	0.12	5.81
		4/26/98 10:00	0	0	0		0.000	0	5.69		0.000	0.00	0.12	5.81
3	1	4/27/98 10:00	8	80	157	123	0.072	0.58	6.27	0	0.000	0.00	0.12	6.39
3	2	4/29/98 10:00	8	59	136	150	0.076	0.61	6.88	11	0.006	0.04	0.16	7.04
3	3	4/30/98 8:00	8	40	101	140	0.053	0.42	7.3	0	0.000	0.00	0.16	7.46
3	4	4/30/98 16:00	8	20	62	163	0.038	0.3	7.6	3	0.001	0.01	0.17	7.77
		5/3/98 10:00	0	0	0		0.000	0	7.6		0.000	0.00	0.17	7.77
4	1	5/4/98 10:00	8	25	277	151	0.157	1.25	8.85	10	0.010	0.08	0.25	9.10
4	2	5/5/98 10:00	5	19	229	173	0.148	0.74	9.59	13	0.011	0.06	0.31	9.90
4	3	5/6/98 10:00	7	13	166	167	0.104	0.73	10.32	13	0.008	0.06	0.37	10.69
4	4	5/7/98 10:00	7	6	103	167	0.064	0.45	10.77	13	0.005	0.04	0.41	11.18

TABLE A.4-3
TEST 2: VOC ANALYSIS

Week	Day	Date/Time	Anemometer Flowrate		CCl4 Average Concentration	CCl4 Removal Rate	CCl4 Removed	Cumulative CCl4 Removed	Freon 113 Average Concentration	Freon 113 Removal Rate	Freon 113 Removed	Cumulative Freon 113 Removed	Total VOCs Removed
			ABC	BC									
			cfm	*cfm*	*mg/m3*	*lb/hr*	*lb*	*lb*	*mg/m3*	*lb/hr*	*lb*	*lb*	*lb*
		5/11/98 6:59	0		0	0.000		10.485	0	0.000		0.367	10.852
1	1	5/11/98 7:00	275	--	205	0.211	0.002	10.487	17	0.018	0.000	0.367	10.854
1	1	5/11/98 8:00	274	--	205	0.210	0.211	10.697	17	0.017	0.017	0.385	11.082
1	1	5/11/98 9:00	275	--	205	0.211	0.211	10.908	17	0.018	0.017	0.402	11.310
1	1	5/11/98 11:00	281	--	205	0.216	0.427	11.335	17	0.018	0.035	0.437	11.772
1	1	5/11/98 14:00	273	--	205	0.210	0.638	11.973	17	0.017	0.053	0.490	12.463
1	2	5/12/98 7:00	272	--	100	0.102	2.647	14.619	0	0.000	0.148	0.638	15.257
1	2	5/12/98 9:00	278	--	100	0.104	0.206	14.825	0	0.000	0.000	0.638	15.463
1	2	5/12/98 12:00	274	--	100	0.103	0.310	15.135	0	0.000	0.000	0.638	15.773
1	3	5/13/98 8:00	276	--	120	0.124	2.266	17.401	5	0.005	0.052	0.690	18.091
1	3	5/13/98 10:00	274	--	120	0.123	0.001	17.403	5	0.005	0.000	0.690	18.093
1	3	5/13/98 12:00	282	--	120	0.127	0.250	17.653	5	0.005	0.010	0.700	18.353
1	3	5/13/98 14:00	268	--	120	0.120	0.247	17.900	5	0.005	0.010	0.711	18.611
1	4	5/14/98 7:00	286	--	120	0.128	2.116	20.016	5	0.005	0.088	0.799	20.814
1	4	5/14/98 11:00	285	--	120	0.128	0.513	20.529	5	0.005	0.021	0.820	21.349
1	4	5/14/98 14:00	287	--	120	0.129	0.385	20.914	5	0.005	0.016	0.836	21.750
1	5	5/15/98 9:00	276	--	120	0.124	2.403	23.317	5	0.005	0.100	0.936	24.253
1	5	5/15/98 11:30	278	--	120	0.125	0.311	23.628	5	0.005	0.013	0.949	24.578
1	5	5/15/98 14:30	278	--	120	0.125	0.375	24.003	5	0.005	0.016	0.965	24.968
2	1	5/19/98 14:00	270	--	160	0.162	0.001	24.005	13	0.013	0.000	0.965	24.970
2	2	5/20/98 8:00	253	--	160	0.152	2.820	26.825	15	0.014	0.246	1.211	28.036
2	2	5/20/98 11:00	257	--	160	0.154	0.458	27.283	15	0.014	0.043	1.254	28.537
2	2	5/20/98 14:00	267	--	160	0.160	0.471	27.754	15	0.015	0.044	1.298	29.052
2	3	5/21/98 8:00	264	--	150	0.148	2.774	30.528	0	0.000	0.135	1.433	31.961
2	3	5/21/98 9:29	264		150	0.148	0.220	30.748	0	0.000	0.000	1.433	32.181
2	3	5/21/98 14:45	267		150	0.150	0.001	30.751	0	0.000	0.000	1.433	32.184
2	3	5/21/98 15:00	267	--	150	0.150	0.037	30.788	0	0.000	0.000	1.433	32.221
2	4	5/22/98 7:00	255	--	92	0.088	1.902	32.690	8.2	0.008	0.063	1.496	34.186
2	4	5/22/98 14:00	275	--	92	0.095	0.639	33.329	8.2	0.008	0.057	1.553	34.882
3	1	5/26/98 8:00	252	--	100	0.094	8.508	41.837	10	0.009	0.804	2.357	44.195
3	1	5/26/98 12:00	288	--	100	0.108	0.404	42.242	10	0.011	0.040	2.398	44.639
3	1	5/26/98 14:00	259	--	100	0.097	0.205	42.447	10	0.010	0.020	2.418	44.865

TABLE A.4-3
TEST 2: VOC ANALYSIS

Week	Day	Date/Time	Anemometer Flowrate		CCl4 Average Concentration	CCl4 Removal Rate	CCl4 Removed	Cumulative	Freon 113	Freon 113	Freon 113 Removed	Cumulative Freon 113 Removed	Total VOCs Removed
			ABC	BC									
			cfm	*cfm*	*mg/m3*	*lb/hr*	*lb*				*lb*	*lb*	*lb*
3	1	5/26/98 16:00	265	--	100	0.099	0.196				0.020	2.438	45.081
3	1	5/26/98 23:00	268	--	100	0.100	0.698				0.070	2.508	45.849
3	2	5/27/98 16:01	--	160	160	0.096	0.001				0.000	2.508	45.851
3	4	5/29/98 7:50	--	160	160	0.096	3.816				0.382	2.889	50.049
4	1	6/1/98 8:00	--	166	160	0.099	7.047				0.682	3.572	57.777
4	1	6/1/98 13:30	--	155	160	0.093	0.529				0.050	3.621	58.356
4	2	6/2/98 6:14	--	155	160	0.093	1.554				0.146	3.767	60.055
4	2	6/2/98 8:00	--	157	140	0.082	0.001				0.000	3.767	60.057
4	2	6/2/98 8:30	--	157	140	0.082	0.041				0.004	3.771	60.102
4	2	6/2/98 11:00	--	158	140	0.083	0.206				0.022	3.794	60.331
4	2	6/2/98 13:00	--	156	140	0.082	0.165				0.018	3.811	60.513
4	3	6/3/98 7:00	--	152	140	0.080	1.453				0.151	3.962	62.117
4	3	6/3/98 10:30	--	158	140	0.083	0.284				0.028	3.990	62.429
4	3	6/3/98 11:15	--	159	140	0.083	0.062				0.006	3.996	62.498
4	4	6/4/98 10:15	--	155	120	0.070	1.759				0.183	4.179	64.440
4	4	6/4/98 12:00	--	158	120	0.071	0.123				0.013	4.192	64.576
4	4	6/4/98 15:00	--	161	120	0.072	0.215				0.023	4.216	64.814
4	5	6/5/98 9:30	--	165	140	0.086	1.469				0.158	4.374	66.442
4	5	6/5/98 12:00	--	162	140	0.085	0.214				0.023	4.397	66.679
4	5	6/5/98 14:00	--	159	140	0.083	0.168				0.018	4.415	66.865
5	1	6/8/98 7:10	--	158	120	0.071	5.029				0.542	4.956	72.435
5	1	6/8/98 10:05	--	159	120	0.071	0.208				0.023	4.979	72.665
5	1	6/8/98 10:44	--	159	120	0.071	0.046				0.005	4.984	72.717
5	1	6/8/98 10:45	--	0	0	0.000	0.001				0.000	4.984	72.718

TABLE: A.4-4
TEST 3: VOC ANALYSIS

Date	Time *hours*	Date/Time	Time Of Operation *min*	Flowrate ABC *cfm*	CCl4 Average Concentration *mg/m3*	CCl4 Removal Rate *lb/hr*	CCl4 Removed *lb*	Cumulative CCl4 Removed *lb*	Freon 113 Average Concentration *mg/m3*	Freon 113 Removal Rate *lb/hr*	Freon 113 Removed *lb*	Cumulative Freon 113 Removed *lb*	TCE Avgerage Concentration *mg/m3*	TCE Removal Rate *lb/h*	Ave. TCE Removed *lb*	Cumulative TCE Removed *lb*	Total VOCs removed *lb/h*	Total VOCs Removed *lb*
11/2/98	10:50	11/2/98 10:50	1330	242	35	0.032	0.70	68.43	0	0.000	0.00	4.98	0	0	0	0	0.032	73.41
11/3/98	9:00	11/3/98 9:00	1380	242	82	0.074	1.71	70.14	0	0.000	0.00	4.98	0	0	0	0	0.074	75.12
11/4/98	8:00	11/4/98 8:00	1470	242	110	0.100	2.44	72.59	11	0.010	0.24	5.22	0	0	0	0	0.110	77.81
11/5/98	8:30	11/5/98 8:30	1410	228	110	0.094	2.21	74.79	13	0.011	0.26	5.49	0	0	0	0	0.105	80.28
11/6/98	8:00	11/6/98 8:00	4410	256	100	0.096	7.05	81.84	12	0.012	0.85	6.33	0	0	0	0	0.107	88.17
11/9/98	9:30	11/9/98 9:30	1410	260	85	0.083	1.95	83.79	0	0.000	0.00	6.33	0	0	0	0	0.083	90.12
11/10/98	9:00	11/10/98 9:00	1440	257	76	0.073	1.76	85.54	10	0.010	0.23	6.56	0	0	0	0	0.083	92.11
11/11/98	9:00	11/11/98 9:00	1440	253	76	0.072	1.73	87.27	9.8	0.009	0.22	6.79	0	0	0	0	0.081	94.06
11/12/98	9:00	11/12/98 9:00	1440	258	73	0.071	1.69	88.97	0	0.000	0.00	6.79	0	0	0	0	0.071	95.75
11/13/98	9:00	11/13/98 9:00	4320	258	67	0.065	4.66	93.63	8.7	0.008	0.61	7.39	0	0	0	0	0.073	101.02
11/16/98	9:00	11/16/98 9:00	2880	258	64	0.062	2.97	96.60	8.9	0.009	0.41	7.80	0	0	0	0	0.070	104.40
11/18/98	9:00	11/18/98 9:00	1440	262	60	0.059	1.41	98.01	8.2	0.008	0.19	8.00	0	0	0	0	0.067	106.01
11/19/98	9:00	11/19/98 9:00	1440	260	54	0.053	1.26	99.27	7	0.007	0.16	8.16	0	0	0	0	0.059	107.43
11/20/98	9:00	11/20/98 9:00	4320	240	68	0.061	4.40	103.68	7.9	0.007	0.51	8.67	0	0	0	0	0.068	112.35
11/23/98	9:00	11/23/98 9:00	15840	262	51	0.050	13.21	116.89	6.7	0.007	1.74	10.41	0	0	0	0	0.057	127.30
12/4/98	9:00	12/4/98 9:00	5760	262	48	0.047	4.52	121.41	8.6	0.008	0.81	11.22	0	0	0	0	0.056	132.63
12/8/98	9:00	12/8/98 9:00	8700	262	38	0.037	5.41	126.82	6.1	0.006	0.87	12.09	0	0	0	0	0.043	138.91
12/14/98	10:00	12/14/98 10:00	12960	262	36	0.035	7.63	134.45	6.1	0.006	1.29	13.38	0	0	0	0	0.041	147.83
12/23/98	10:00	12/23/98 10:00	10080	262	35	0.034	5.77	140.22	5.3	0.005	0.87	14.25	0	0	0	0	0.040	154.48
12/30/98	10:00	12/30/98 10:00	9990	262	30	0.029	4.90	145.13	5	0.005	0.82	15.07	0	0	0	0	0.034	160.20
1/6/99	8:30	1/6/99 8:30	10230	262	16	0.016	2.68	147.81	0	0.000	0.00	15.07	0	0	0	0	0.016	162.88
1/13/99	11:00	1/13/99 11:00	11520	262	21	0.021	3.96	151.76	0	0.000	0.00	15.07	0	0	0	0	0.021	166.83
1/21/99	11:00	1/21/99 11:00	5040	262	24	0.024	1.98	153.74	0	0.000	0.00	15.07	0	0	0	0	0.024	168.81
1/26/99	11:00	1/26/99 11:00	0	0	0	0.000	0.00	153.74	0	0.000	0.00	15.07	0	0	0	0	0.000	168.81
1/28/99	11:00	1/28/99 11:00	20190	131	0	0.000	0.00	153.74	0	0.000	0.00	15.07	0	0	0	0	0.000	168.81
2/11/99	11:30	2/11/99 11:30	11430	131	15	0.007	1.40	155.14	0	0.000	0.00	15.07	0	0	0	0	0.007	170.21
2/19/99	10:00	2/19/99 10:00	0	0	0	0.000	0.00	155.14	0	0.000	0.00	15.07	0	0	0	0	0.000	170.21
3/30/99	12:00	2/19/99 10:00	0	0	0	0.000	0.00	155.14	0	0.000	0.00	15.07	0	0	0	0	0.000	170.21
3/31/99	15:00	3/31/99 15:00	11370	332	13	0.016	3.06	158.21	0	0.000	0.00	15.07	0	0	0	0	0.016	173.28
4/8/99	12:30	4/8/99 12:30	8610	332	13	0.016	2.32	160.53	0	0.000	0.00	15.07	0	0	0	0	0.016	175.60
4/14/99	12:00	4/14/99 12:00	9840	262	0	0.000	0.00	160.53	0	0.000	0.00	15.07	0	0	0	0	0.000	175.60
4/21/99	11:00	4/21/99 11:00	11340	370	0	0.000	0.00	160.53	0	0.000	0.00	15.07	0	0	0	0	0.000	175.60
4/29/99	8:00	4/29/99 8:00	120	369	0	0.000	0.00	160.53	0	0.000	0.00	15.07	0	0	0	0	0.000	175.60
5/3/99	12:00	5/3/99 12:00	0	0	0	0.000	0.00	160.53	0	0.000	0.00	15.07	0	0	0	0	0.000	175.60
5/4/99	1:30	5/4/99 1:30	3450	370	9.8	0.014	0.78	161.31	1.4	0.002	0.11	15.18	2.7	0.0037	0.215	0.21	0.019	176.71
5/6/99	11:00	5/6/99 11:00	7200	374	12	0.017	2.02	163.33	3.2	0.004	0.54	15.72	2.7	0.0038	0.454	0.67	0.025	179.71
5/11/99	11:00	5/11/99 11:00	4350	373	8.3	0.012	0.84	164.17	0	0.000	0.00	15.72	0	0	0	0.67	0.012	180.56
5/14/99	11:30	5/14/99 11:30	8580	375	8.5	0.012	1.71	165.87	0	0.000	0.00	15.72	2	0.003	0.401	1.07	0.015	182.66
5/20/99	10:30	5/20/99 10:30	0	375	6.8	0.010	0.00	165.87	0	0.000	0.00	15.72	0	0	0	1.07	0.010	182.66
5/21/99	12:00	5/21/99 12:00	0	0	0	0.000	0.00	165.87	0	0.000	0.00	15.72	0	0	0	1.07	0.000	182.66
5/26/99	12:00	5/26/99 12:00	0	0	0	0.000	0.00	165.87	0	0.000	0.00	15.72	0	0	0	1.07	0.000	182.66
5/27/99	14:45	5/27/99 14:45	7200	371	0	0.000	0.00	165.87	0	0.000	0.00	15.72	0	0	0	1.07	0.000	182.66
6/1/99	9:30	6/1/99 9:30	8730	371	9.3	0.013	1.88	167.76	2.2	0.003	0.44	16.16	3.2	0.0044	0.65	1.72	0.020	185.64
6/7/99	11:00	6/7/99 11:00	240	397	6.7	0.010	0.04	167.80	0	0.000	0.00	16.16	2.2	0.0033	0.01	1.73	0.013	185.69
6/8/99	12:00	6/8/99 12:00	0	0	0	0.000	0.00	167.80	0	0.000	0.00	16.16	0	0	0	1.73	0.000	185.69
6/30/99	12:00	6/30/99 12:00	0	0	0	0.000	0.00	167.80	0	0.000	0.00	16.16	0	0	0	1.73	0.000	185.69
7/1/99	16:00	7/1/99 16:00	8400	377	3	0.004	0.59	168.39	0	0.000	0.00	16.16	0	0	0	1.73	0.004	186.28
7/7/99	12:00	7/7/99 12:00	8400	377	6.8	0.010	1.34	169.73	0	0.000	0.00	16.16	0	0	0	1.73	0.010	187.63
7/13/99	8:00	7/13/99 8:00	2910	372	6	0.008	0.41	170.14	0	0.000	0.00	16.16	0	0	0	1.73	0.008	188.03
7/15/99	8:30	7/15/99 8:30	4320	373	6.2	0.009	0.62	170.76	0	0.000	0.00	16.16	2.1	0.0029	0.21	1.94	0.012	188.87
7/21/99	10:00	7/21/99 10:00	0	373	0.0	0.000	0.00	170.76	0	0.000	0.00	16.16	0	0	0	1.94	0.000	188.87
7/26/99	12:00	7/26/99 12:00	0	0	0.0	0.000	0.00	170.76	0	0.000	0.00	16.16	0	0	0	1.94	0.000	188.87

TABLE: A.4-4
TEST 3: VOC ANALYSIS

Date	Time *hours*	Date/Time	Time Of Operation *min*	Flowrate ABC *cfm*	CCl4 Average Concentration *mg/m3*	CCl4 Removal Rate *lb/hr*	CCl4 Removed *lb*	Cumulative CCl4 Removed *lb*	Freon 113 Average Concentration *mg/m3*	Freon 113 Removal Rate *lb/hr*	Freon 113 Removed *lb*	Cumulative Freon 113 Removed *lb*	TCE Avgerage Concentration *mg/m3*	TCE Removal Rate *lb/h*	Ave. TCE Removed *lb*	Cumulative TCE Removed *lb*	Total VOCs removed *lb/h*	Total VOCs Removed *lb*
7/27/99	11:00	7/27/99 11:00	4200	373	7.0	0.010	0.68	171.45	0	0.000	0.00	16.16	2.0	0.0028	0.2	2.14	0.013	189.75
7/30/99	9:00	7/30/99 9:00	8640	373	6.0	0.008	1.21	172.65	0	0.000	0.00	16.16	2.0	0.0028	0.4	2.54	0.011	191.36
8/5/99	9:00	8/5/99 9:00	8670	370	5.4	0.007	1.08	173.74	0	0.000	0.00	16.16	0	0.0000	0.0	2.54	0.007	192.44
8/11/99	9:30	8/11/99 9:30	12930	371	5.9	0.008	1.77	175.50	0	0.000	0.00	16.16	0	0.0000	0.0	2.54	0.008	194.21
8/20/99	9:00	8/20/99 9:00	7260	373	5.8	0.008	0.98	176.48	0	0.000	0.00	16.16	0	0.0000	0.0	2.54	0.008	195.19
8/25/99	10:00	8/25/99 10:00	20100	376	5.2	0.007	2.45	178.94	0	0.000	0.00	16.16	0	0.0000	0.0	2.54	0.007	197.64
9/8/99	9:00	9/8/99 9:00	10080	373	5.5	0.008	1.29	180.23	0	0.000	0.00	16.16	0	0.0000	0.0	2.54	0.008	198.93
9/15/99	9:00	9/15/99 9:00	10080	370	2.9	0.004	0.68	180.90	0	0.000	0.00	16.16	0	0.0000	0.0	2.54	0.004	199.61
9/22/99	9:00	9/22/99 9:00	180	373	4.0	0.006	0.02	180.92	0	0.000	0.00	16.16	0	0.0000	0.0	2.54	0.006	199.62
9/23/99	10:00	9/23/99 10:00	0	0	0.0	0.000	0.00	180.92	0	0.000	0.00	16.16	0	0.0000	0	2.54	0.000	199.62

FIGURES