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Date: 4/17/2006 7:55:31 AM
Subject: Grassy Trail Dam

Here is our update for Friday April 14, 2006

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RB&G ENGINEERING
Grassy Trail Dam, Seismic Summary for April 14, 2006

For the one-week period between April 7 and, April 14, 2006 the number of MIS (Mining Induced Seismicity) earthquakes recorded near the site by the UUSS increased from 9 to 11. These MIS earthquakes ranged in magnitude from 1.3 to a high of 2.1.

The number of events recorded on the Hillside seismic unit increased during the past week from 52 to **65** seismic events with no PGA's of 0.1g or greater. The Dam unit increased from 45 to **64** events with two PGA's greater than 0.1g.

During the week Peak Ground Acceleration (PGA) values decreased on the Hillside from last weeks high of 0.159g to **0.0895g**. PGA values on the Dam increased from 0.144g to **0.177g**. The PGA value of 0.177g occurred on the dam during a magnitude 2.1 event on Friday while we were on site reading the instruments. This event was not recorded on the Hillside unit since it had just been shut down in order to download the week's readings. This event was felt and heard at the site. On the east hillside this event felt like a very short (less than 1 second long) shake similar to a sudden elevator stop, followed by a distance rumbling thunder like sound less than a second later. The event was also felt by two surveyors with RB&G Engineering who were working on the east side of the canyon just above the outlet works.

On Friday the water level in the reservoir was about 23 inches below the top of the spillway.

Inclinometers 2, 3, and 4 were also read and continue to show movement. As shown on the Time Displacement Curves the rate of movement for inclinometers I-2 and I-4 has not increased since the March 17 readings.

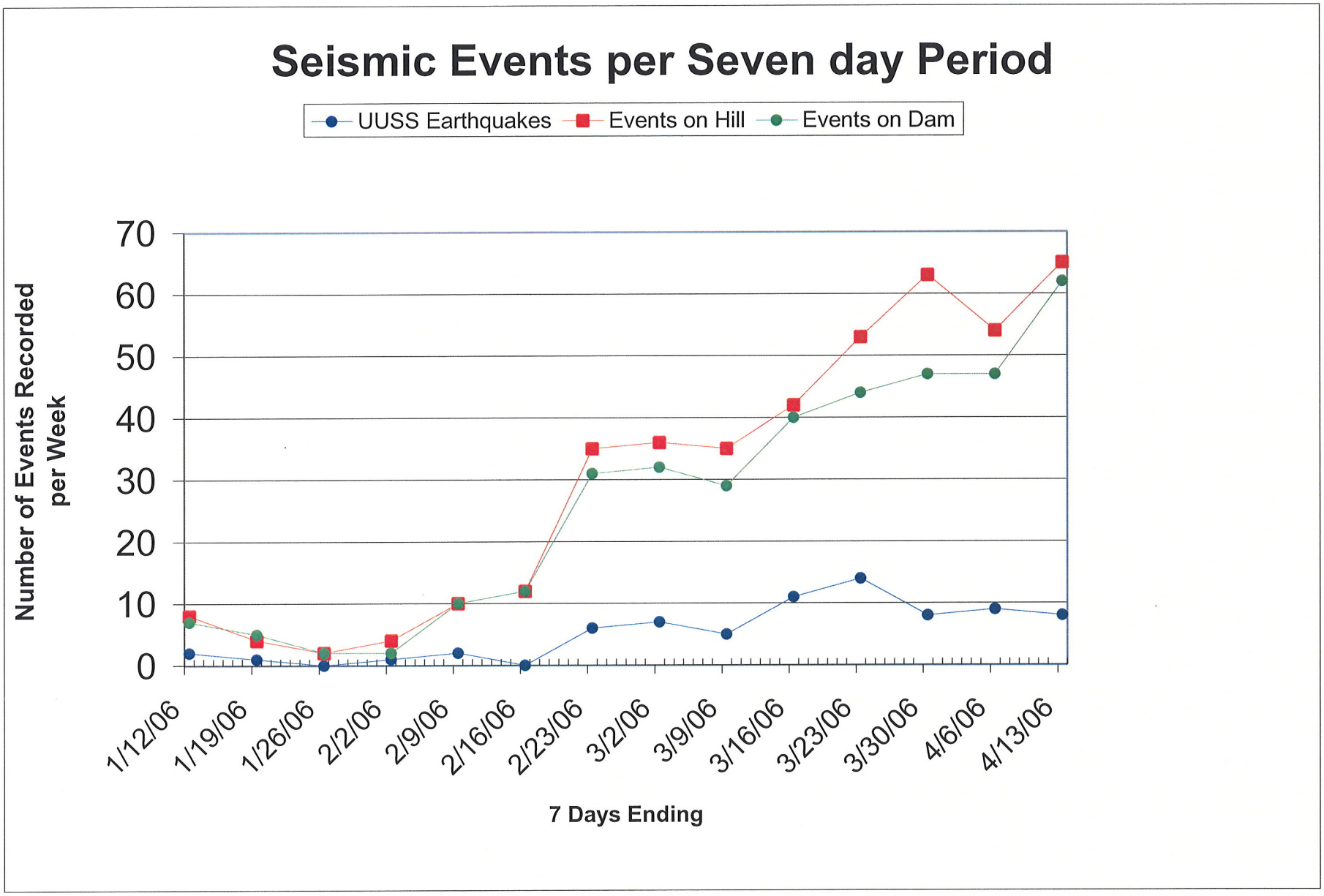
During this site visit much of the snow was melted and the top of the dam was dry. No cracks or signs of movement were noted on the dam or abutments above the dam.

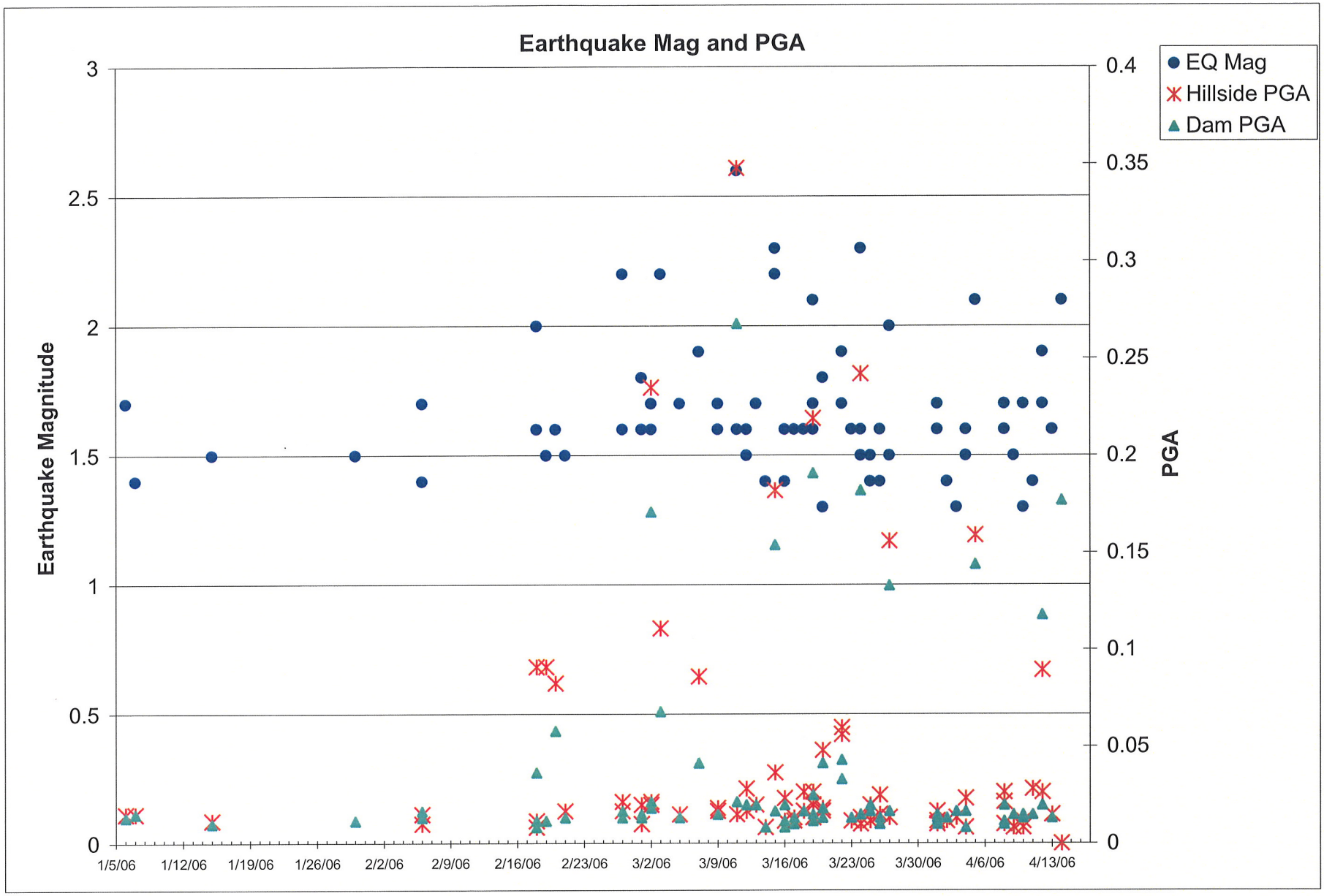
Michael Hansen
RB&G ENGINEERING

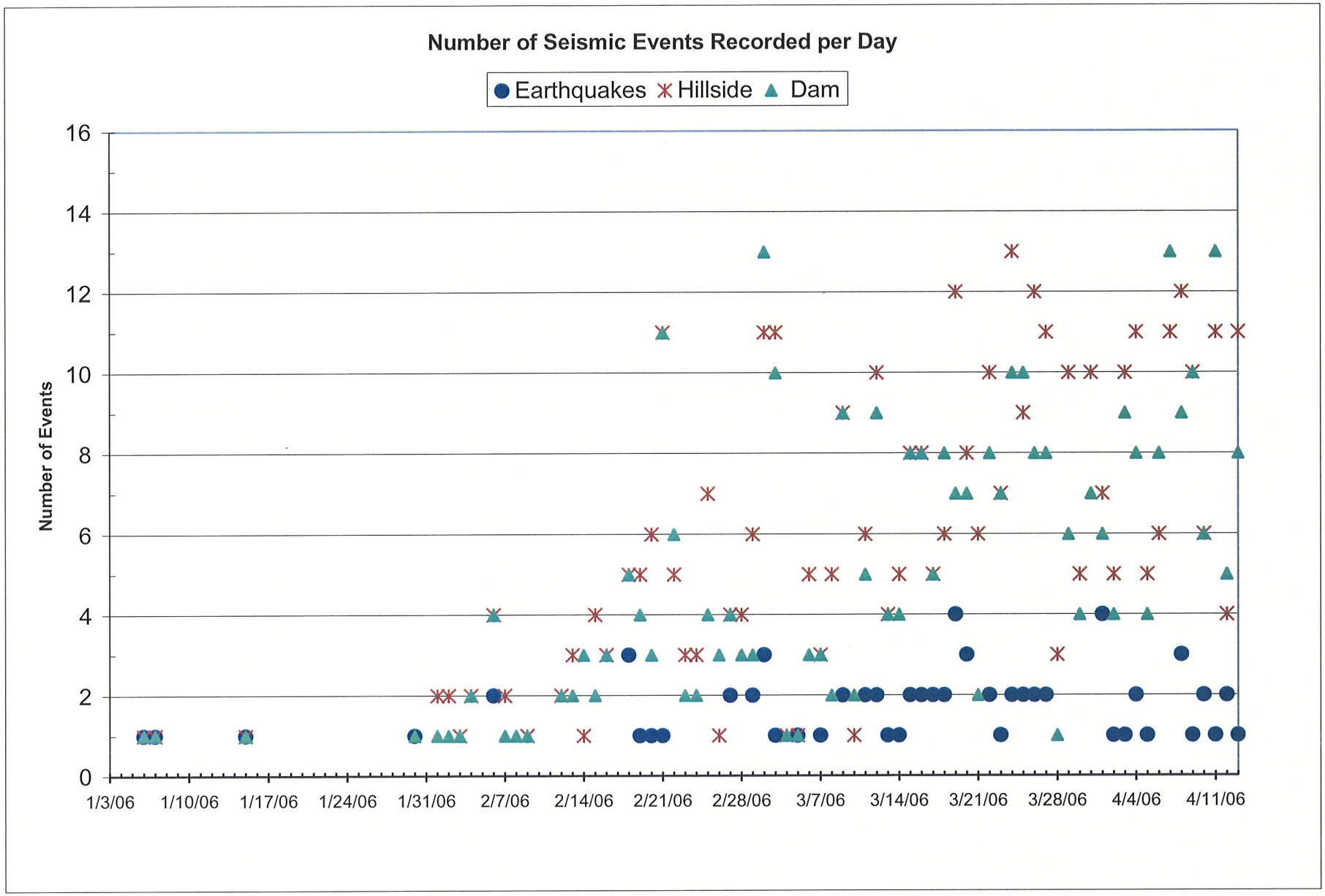
Grassy Trail Dam, Carbon County, Utah
2006, Hillside unit #9690 Dam #9689
Event Report

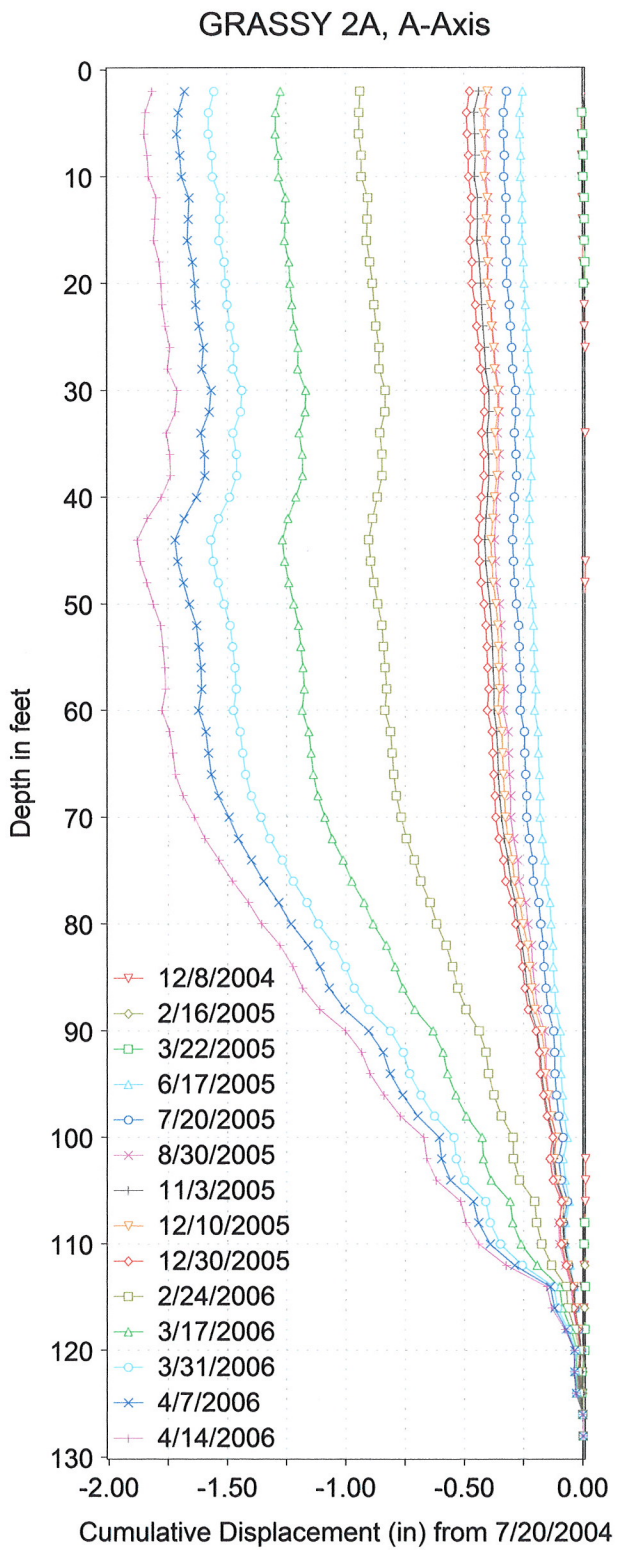
Type	Serial No.	Date	Time	Tran Peak (mm/s)	Vert Peak (mm/s)	Long Peak (mm/s)	PVS1 (mm/s)	Trigger	Tran Accel (g)	Vert Accel (g)	Long Accel (g)	Description	Post Event Note first line
LOG	BE9689	Apr 7 /06	9:50:00	***	***	***	***	***	***	***	***	Start Monitoring	Start Monitoring
W	BE9689	Apr 7 /06	10:13:20	0.492	0.317	0.619	0.701	Long	0.00663	0.00663	0.0133	Grassy Tr. Dam	
LOG	BE9690	Apr 7 /06	10:32:08	***	***	***	***	***	***	***	***	Start Monitoring	Start Monitoring
W	BE9690	Apr 7 /06	10:59:40	0.571	0.365	0.714	0.821	Long	0.00663	0.00497	0.00829	Hillside	
W	BE9689	Apr 7 /06	10:59:41	0.524	0.476	0.698	0.764	Long	0.00663	0.00663	0.0166	Grassy Tr. Dam	
W	BE9690	Apr 7 /06	11:33:50	0.825	0.429	1.19	1.41	Long	0.00829	0.00663	0.00829	Hillside	
W	BE9689	Apr 7 /06	11:33:51	0.698	0.73	1.06	1.22	Vert	0.00663	0.00663	0.0149	Grassy Tr. Dam	
W	BE9690	Apr 7 /06	12:18:45	0.635	0.27	0.524	0.674	Tran	0.00663	0.00663	0.00663	Hillside	
W	BE9689	Apr 7 /06	12:18:46	0.73	0.349	0.413	0.796	Tran	0.00663	0.00663	0.0116	Grassy Tr. Dam	
W	BE9690	Apr 7 /06	12:55:00	1.35	0.603	0.873	1.42	Vert	0.0133	0.00994	0.00829	Hillside	
W	BE9689	Apr 7 /06	12:55:01	0.54	0.444	0.651	0.695	Long	0.00663	0.00829	0.00663	Grassy Tr. Dam	
W	BE9690	Apr 7 /06	13:26:05	1.02	0.603	1.24	1.45	Vert	0.0133	0.00994	0.0116	Hillside	
W	BE9689	Apr 7 /06	13:26:06	0.587	0.762	1.37	1.42	Vert	0.00663	0.00829	0.0166	Grassy Tr. Dam	
W	BE9690	Apr 7 /06	17:20:44	0.54	0.27	0.73	0.813	Long	0.00663	0.00663	0.00663	Hillside	
W	BE9689	Apr 7 /06	17:20:45	0.524	0.444	0.619	0.736	Long	0.00663	0.00663	0.0166	Grassy Tr. Dam	
W	BE9690	Apr 7 /06	18:37:19	0.54	0.365	0.683	0.7	Long	0.00663	0.00663	0.00829	Hillside	
W	BE9689	Apr 7 /06	18:37:20	0.619	0.508	0.714	0.864	Long	0.00663	0.00663	0.0149	Grassy Tr. Dam	
W	BE9689	Apr 7 /06	21:07:18	0.397	0.349	0.698	0.777	Long	0.00663	0.00663	0.0166	Grassy Tr. Dam	
W	BE9690	Apr 7 /06	21:45:58	0.698	0.302	0.667	0.752	Long	0.00663	0.00663	0.00829	Hillside	
W	BE9689	Apr 7 /06	21:46:00	0.556	0.365	0.651	0.823	Long	0.00829	0.00663	0.0149	Grassy Tr. Dam	
W	BE9690	Apr 7 /06	22:57:40	0.54	0.333	0.603	0.759	Long	0.00663	0.00497	0.00663	Hillside	
W	BE9689	Apr 7 /06	22:57:41	0.476	0.429	0.667	0.736	Long	0.00663	0.00663	0.0133	Grassy Tr. Dam	
W	BE9690	Apr 7 /06	23:45:44	0.651	0.73	1.38	1.43	Vert	0.00663	0.00829	0.00994	Hillside	
W	BE9689	Apr 7 /06	23:45:45	0.794	0.54	0.857	1.11	Long	0.00829	0.00663	0.0116	Grassy Tr. Dam	
W	BE9690	Apr 8 /06	4:07:40	0.698	0.524	1.17	1.26	Tran	0.00994	0.00829	0.00994	Hillside	
W	BE9690	Apr 8 /06	7:24:54	1.03	1.41	2.84	2.93	Vert	0.0116	0.0149	0.0182	Hillside	
W	BE9689	Apr 8 /06	7:24:55	1.14	0.794	1.11	1.25	Vert	0.00994	0.00994	0.0133	Grassy Tr. Dam	
W	BE9690	Apr 8 /06	11:49:53	0.365	0.19	0.635	0.649	Long	0.00663	0.00497	0.00663	Hillside	
W	BE9690	Apr 8 /06	12:45:57	0.508	0.302	0.714	0.775	Long	0.00663	0.00663	0.00829	Hillside	
W	BE9689	Apr 8 /06	12:45:58	0.651	0.508	0.746	0.878	Long	0.00829	0.00663	0.00663	Grassy Tr. Dam	
W	BE9690	Apr 8 /06	15:05:31	2.41	0.889	1.92	2.47	Vert	0.0215	0.0133	0.0149	Hillside	Earthquake mag 1.6
W	BE9689	Apr 8 /06	15:05:33	2.16	1.3	1.44	2.5	Vert	0.0116	0.0116	0.0149	Grassy Tr. Dam	Earthquake mag 1.6
W	BE9690	Apr 8 /06	17:01:08	0.794	0.524	1.03	1.2	Long	0.00663	0.00663	0.00829	Hillside	
W	BE9689	Apr 8 /06	17:01:10	0.762	0.778	1.08	1.3	Vert	0.00829	0.00829	0.0116	Grassy Tr. Dam	
W	BE9690	Apr 8 /06	17:48:37	1.02	0.492	1.37	1.65	Tran	0.00994	0.00829	0.00994	Hillside	
W	BE9689	Apr 8 /06	17:48:39	1.19	0.857	1.38	1.53	Vert	0.00994	0.00829	0.0149	Grassy Tr. Dam	
W	BE9689	Apr 8 /06	19:18:11	0.714	0.286	0.397	0.804	Tran	0.00663	0.00663	0.0133	Grassy Tr. Dam	
W	BE9689	Apr 8 /06	19:43:11	0.476	0.365	0.698	0.829	Long	0.00663	0.00663	0.0116	Grassy Tr. Dam	
W	BE9690	Apr 8 /06	19:45:58	1.17	0.571	1.49	1.72	Long	0.00994	0.00663	0.00994	Hillside	EQ mag 1.6
W	BE9689	Apr 8 /06	19:45:59	1.11	0.873	1.37	1.57	Vert	0.00994	0.00829	0.00994	Grassy Tr. Dam	EQ mag 1.6
W	BE9690	Apr 8 /06	20:54:49	0.54	0.317	0.619	0.724	Long	0.00994	0.00663	0.00829	Hillside	
W	BE9690	Apr 8 /06	22:00:28	2.33	1.06	1.59	2.35	Vert	0.0265	0.0149	0.0166	Hillside	EQ mag 1.7
W	BE9689	Apr 8 /06	22:00:30	2.19	0.889	1.71	2.39	Vert	0.0199	0.00994	0.0116	Grassy Tr. Dam	EQ mag 1.7
W	BE9690	Apr 8 /06	22:48:28	0.651	0.333	0.54	0.683	Tran	0.00663	0.00663	0.00663	Hillside	
W	BE9690	Apr 8 /06	23:25:54	0.413	0.413	0.794	0.821	Long	0.00663	0.00663	0.00994	Hillside	
W	BE9690	Apr 9 /06	3:35:50	1.03	1.33	2.43	2.59	Vert	0.0133	0.0149	0.0133	Hillside	
W	BE9689	Apr 9 /06	3:35:52	1.17	0.714	0.952	1.18	Vert	0.00829	0.00829	0.0116	Grassy Tr. Dam	
W	BE9689	Apr 9 /06	3:52:46	0.667	0.254	0.397	0.732	Tran	0.00829	0.00663	0.0149	Grassy Tr. Dam	
W	BE9690	Apr 9 /06	9:31:28	0.397	0.476	0.746	0.81	Long	0.00663	0.00663	0.00663	Hillside	
W	BE9690	Apr 9 /06	9:42:55	0.762	0.587	1.11	1.24	Long	0.00663	0.00663	0.00994	Hillside	
W	BE9689	Apr 9 /06	9:42:57	1.14	0.81	1.37	1.74	Vert	0.00994	0.00829	0.00994	Grassy Tr. Dam	
W	BE9689	Apr 9 /06	11:35:55	0.444	0.317	0.603	0.724	Long	0.00663	0.00663	0.00994	Grassy Tr. Dam	
W	BE9690	Apr 9 /06	12:53:48	0.317	0.254	0.651	0.692	Long	0.00663	0.00663	0.00829	Hillside	
W	BE9690	Apr 9 /06	13:34:11	0.857	0.556	1.33	1.49	Long	0.00663	0.00829	0.00994	Hillside	
W	BE9689	Apr 9 /06	13:34:13	1.05	0.921	1.33	1.48	Vert	0.00829	0.00663	0.00994	Grassy Tr. Dam	
W	BE9690	Apr 9 /06	15:51:17	0.302	0.254	0.683	0.733	Long	0.00663	0.00663	0.00663	Hillside	
W	BE9690	Apr 9 /06	17:09:35	0.333	0.238	0.619	0.67	Long	0.00497	0.00663	0.00663	Hillside	
W	BE9690	Apr 9 /06	17:48:13	0.968	0.587	1.25	1.45	Long	0.00829	0.00663	0.00829	Hillside	
W	BE9689	Apr 9 /06	17:48:14	1.19	0.921	1.44	1.77	Vert	0.0116	0.00829	0.0149	Grassy Tr. Dam	
W	BE9689	Apr 9 /06	19:42:54	0.619	0.254	0.349	0.676	Tran	0.00829	0.00663	0.0149	Grassy Tr. Dam	
W	BE9689	Apr 9 /06	20:23:12	0.524	0.317	0.667	0.823	Long	0.00663	0.00663	0.0133	Grassy Tr. Dam	
W	BE9690	Apr 9 /06	22:27:37	0.571	0.286	0.778	0.86	Long	0.00829	0.00663	0.00663	Hillside	
W	BE9689	Apr 9 /06	22:27:39	0.397	0.429	0.683	0.751	Long	0.00663	0.00663	0.0149	Grassy Tr. Dam	
W	BE9690	Apr 9 /06	22:47:55	0.762	0.46	0.857	1.08	Long	0.00663	0.00663	0.00829	Hillside	EQ mag 1.5
W	BE9689	Apr 9 /06	22:47:57	0.698	0.683	1.11	1.13	Long	0.00663	0.00663	0.0149	Grassy Tr. Dam	EQ mag 1.5
W	BE9690	Apr 10 /06	0:53:54	0.508	0.333	0.714	0.788	Long	0.00663	0.00497	0.00663	Hillside	
W	BE9689	Apr 10 /06	0:53:56	0.381	0.397	0.714	0.783	Long	0.00663	0.00663	0.0133	Grassy Tr. Dam	
W	BE9690	Apr 10 /06	16:28:48	0.508	0.317	0.635	0.673	Long	0.00829	0.00497	0.00663	Hillside	EQ mag 1.3
W	BE9689	Apr 10 /06	16:28:51	0.413	0.333	0.603	0.662	Long	0.00829	0.00829	0.0149	Grassy Tr. Dam	EQ mag 1.3
W	BE9690	Apr 10 /06	16:44:44	0.556	0.317	0.73	0.836	Long	0.00663	0.00663	0.00829	Hillside	
W	BE9689	Apr 10 /06	16:44:46	0.714	0.492	0.825	1.06	Long	0.00663	0.00663	0.00829	Grassy Tr. Dam	

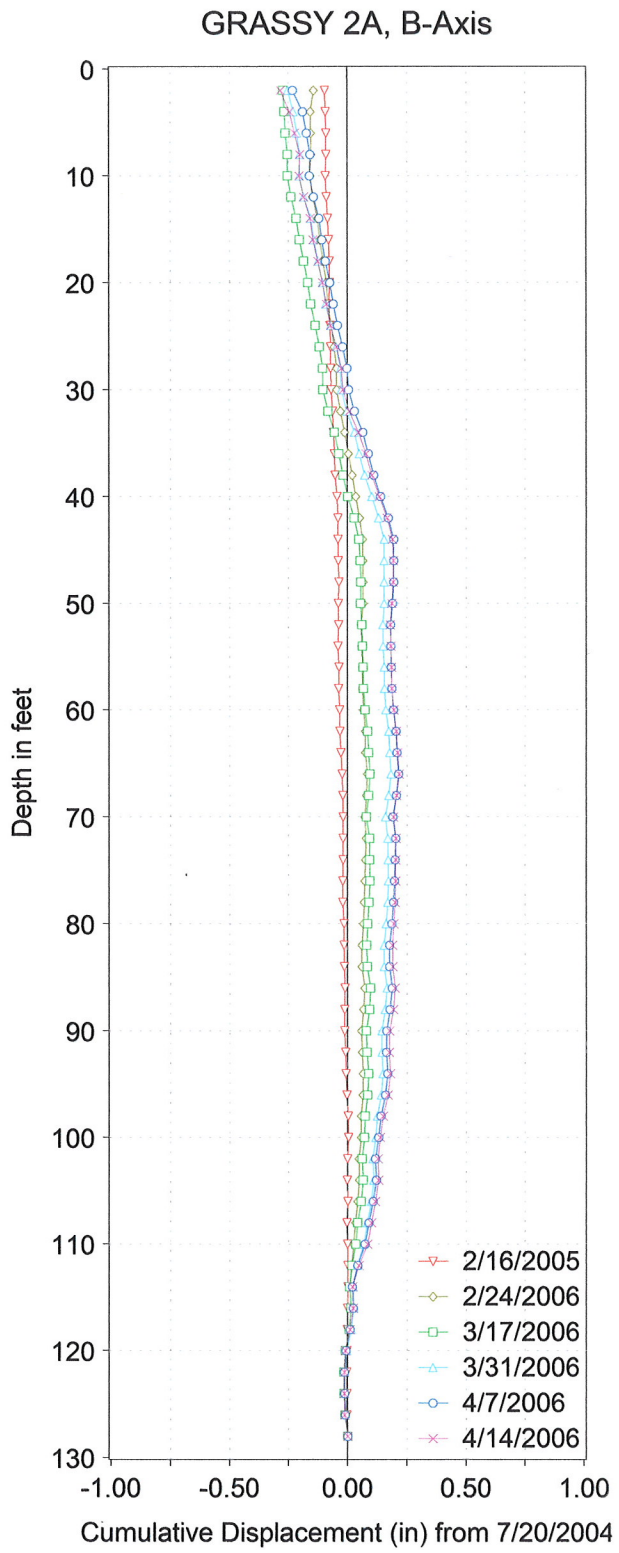
Type	Serial No.	Date	Time	Tran Peak (mm/s)	Vert Peak (mm/s)	Long Peak (mm/s)	PVS1 (mm/s)	Trigger	Tran Accel (g)	Vert Accel (g)	Long Accel (g)	Description	Post Event Note first line
W	BE9690	Apr 10 /06	17:42:31	0.571	0.381	0.73	0.843	Long	0.00663	0.00663	0.00663	Hillside	
W	BE9689	Apr 10 /06	17:42:34	0.635	0.508	0.81	0.949	Long	0.00663	0.00663	0.0116	Grassy Tr. Dam	
W	BE9690	Apr 10 /06	19:29:34	1.79	0.603	1.78	1.86	Tran	0.0133	0.00994	0.0116	Hillside	EQ mag 1.7
W	BE9689	Apr 10 /06	19:29:36	1.54	1.13	1.78	2.05	Vert	0.0133	0.00829	0.0215	Grassy Tr. Dam	EQ mag 1.7
W	BE9690	Apr 10 /06	21:48:03	1.67	1.06	2.54	2.6	Vert	0.0116	0.0166	0.0166	Hillside	
W	BE9689	Apr 10 /06	21:48:05	1.6	1.06	1.16	1.79	Vert	0.0116	0.0116	0.0149	Grassy Tr. Dam	
W	BE9690	Apr 11 /06	0:43:46	0.921	0.46	1.05	1.17	Tran	0.0116	0.00829	0.00994	Hillside	
W	BE9689	Apr 11 /06	0:43:49	0.54	0.571	0.968	1.03	Long	0.00663	0.00663	0.0149	Grassy Tr. Dam	
W	BE9690	Apr 11 /06	7:26:49	0.603	0.571	0.27	0.616	Tran	0.00663	0.00829	0.00663	Hillside	
W	BE9689	Apr 11 /06	7:26:51	0.302	0.286	0.635	0.671	Long	0.00829	0.00663	0.00829	Grassy Tr. Dam	
W	BE9690	Apr 11 /06	12:06:44	0.524	0.349	0.921	0.997	Long	0.00663	0.00663	0.00829	Hillside	
W	BE9689	Apr 11 /06	12:06:46	0.524	0.46	0.778	0.847	Long	0.00829	0.00663	0.00829	Grassy Tr. Dam	
W	BE9690	Apr 11 /06	15:37:22	0.429	0.571	0.921	0.957	Long	0.00663	0.0116	0.00994	Hillside	
W	BE9690	Apr 11 /06	17:06:03	1.46	0.619	1.19	1.52	Tran	0.0116	0.00829	0.00829	Hillside	
W	BE9689	Apr 11 /06	17:06:06	1.37	0.635	0.968	1.52	Long	0.00994	0.00663	0.0133	Grassy Tr. Dam	
W	BE9689	Apr 11 /06	17:50:11	0.619	0.333	0.603	0.817	Long	0.00829	0.00663	0.0149	Grassy Tr. Dam	
W	BE9690	Apr 11 /06	19:05:35	0.556	0.349	0.746	0.845	Long	0.00829	0.00663	0.00663	Hillside	
W	BE9689	Apr 11 /06	19:05:37	0.746	0.492	0.746	0.824	Long	0.00829	0.00663	0.0133	Grassy Tr. Dam	
W	BE9690	Apr 11 /06	19:14:13	0.54	0.317	0.841	0.889	Long	0.00829	0.00663	0.00829	Hillside	
W	BE9689	Apr 11 /06	19:14:16	0.46	0.413	0.667	0.732	Long	0.00663	0.00663	0.0133	Grassy Tr. Dam	
W	BE9689	Apr 11 /06	19:44:37	0.603	0.365	0.54	0.794	Tran	0.00663	0.00663	0.0166	Grassy Tr. Dam	
W	BE9690	Apr 11 /06	20:18:22	1.02	0.508	0.968	1.15	Long	0.00829	0.00663	0.00829	Hillside	
W	BE9689	Apr 11 /06	20:18:24	0.873	0.619	1.06	1.21	Vert	0.00994	0.00663	0.0133	Grassy Tr. Dam	
W	BE9689	Apr 11 /06	20:57:50	0.254	0.27	0.683	0.702	Long	0.00663	0.00663	0.00994	Grassy Tr. Dam	
W	BE9690	Apr 11 /06	21:24:41	0.619	0.365	0.603	0.693	Long	0.00663	0.00663	0.00663	Hillside	
W	BE9689	Apr 11 /06	21:24:44	0.714	0.46	0.714	0.978	Long	0.00829	0.00663	0.00829	Grassy Tr. Dam	
W	BE9690	Apr 11 /06	21:32:56	0.635	0.952	1.51	1.62	Vert	0.00829	0.00994	0.00994	Hillside	
W	BE9689	Apr 11 /06	21:32:58	0.857	0.635	0.746	0.904	Vert	0.00829	0.00829	0.0133	Grassy Tr. Dam	
W	BE9690	Apr 11 /06	22:58:58	1.56	2.02	3.4	3.51	Vert	0.0116	0.0199	0.0282	Hillside	EQ mag 1.4
W	BE9689	Apr 11 /06	22:59:00	1.4	1.25	1.89	2.06	Vert	0.0116	0.0133	0.0149	Grassy Tr. Dam	EQ mag 1.4
W	BE9690	Apr 12 /06	9:05:39	9.59	3.59	9.16	11.5	Vert	0.0696	0.0464	0.0895	Hillside	EQ mag 1.9
W	BE9689	Apr 12 /06	9:05:41	11.4	6.64	4.05	11.6	Vert	0.118	0.0381	0.0298	Grassy Tr. Dam	EQ mag 1.9
W	BE9689	Apr 12 /06	12:55:32	1.16	0.571	1.27	1.63	Tran	0.0696	0.0398	0.0514	Grassy Tr. Dam	man made
W	BE9689	Apr 12 /06	12:55:38	0.603	0.365	0.254	0.677	Tran	0.0232	0.0166	0.00994	Grassy Tr. Dam	man made
W	BE9689	Apr 12 /06	12:59:54	0.873	1.4	0.857	1.5	Long	0.0381	0.058	0.0447	Grassy Tr. Dam	man made
W	BE9690	Apr 12 /06	19:12:19	0.317	0.238	0.651	0.692	Long	0.00663	0.00663	0.00829	Hillside	
W	BE9689	Apr 12 /06	19:12:22	0.429	0.302	0.603	0.701	Long	0.00663	0.00663	0.0116	Grassy Tr. Dam	
W	BE9690	Apr 12 /06	19:17:22	0.857	0.524	1.48	1.58	Long	0.0116	0.00829	0.0116	Hillside	
W	BE9689	Apr 12 /06	19:17:25	0.81	0.841	1.29	1.5	Vert	0.00829	0.00829	0.0133	Grassy Tr. Dam	
W	BE9690	Apr 12 /06	19:45:19	3.05	1.03	2.29	3.47	Vert	0.0265	0.0133	0.0166	Hillside	EQ mag 1.7
W	BE9689	Apr 12 /06	19:45:22	2.75	1.1	1.86	3.03	Vert	0.0199	0.00994	0.0149	Grassy Tr. Dam	EQ mag 1.7
W	BE9690	Apr 13 /06	2:42:30	1.41	0.556	0.73	1.47	Tran	0.0133	0.00994	0.00829	Hillside	
W	BE9690	Apr 13 /06	4:39:25	0.333	0.254	0.651	0.726	Long	0.00497	0.00663	0.00663	Hillside	
W	BE9690	Apr 13 /06	7:30:32	1.41	0.81	2.29	2.51	Vert	0.0116	0.00829	0.0149	Hillside	EQ mag 1.6
W	BE9689	Apr 13 /06	7:30:35	1.24	1.3	2	2.24	Vert	0.00994	0.00829	0.0133	Grassy Tr. Dam	EQ mag 1.6
W	BE9690	Apr 13 /06	7:38:06	0.651	0.429	0.825	0.919	Long	0.00663	0.00663	0.00829	Hillside	
W	BE9689	Apr 13 /06	7:38:09	0.889	0.571	0.889	1.15	Long	0.00829	0.00663	0.0149	Grassy Tr. Dam	
W	BE9689	Apr 13 /06	9:11:26	0.476	0.302	0.603	0.736	Long	0.00829	0.00663	0.0116	Grassy Tr. Dam	
W	BE9690	Apr 13 /06	12:06:19	0.889	0.444	1.08	1.26	Long	0.00829	0.00663	0.00994	Hillside	
W	BE9689	Apr 13 /06	12:06:22	1	0.698	1	1.32	Vert	0.00829	0.00663	0.0149	Grassy Tr. Dam	
W	BE9690	Apr 13 /06	12:54:14	0.984	0.556	1.13	1.32	Long	0.00829	0.00663	0.00994	Hillside	
W	BE9689	Apr 13 /06	12:54:17	1.3	0.81	1.32	1.38	Vert	0.00994	0.00829	0.0133	Grassy Tr. Dam	
W	BE9690	Apr 13 /06	16:19:50	1.02	0.651	1.24	1.39	Vert	0.00994	0.00829	0.00994	Hillside	
W	BE9689	Apr 13 /06	16:19:53	1.48	0.889	1.29	1.59	Vert	0.0116	0.00663	0.0166	Grassy Tr. Dam	
W	BE9690	Apr 13 /06	16:38:54	0.444	0.286	0.746	0.794	Long	0.00663	0.00663	0.00829	Hillside	
W	BE9690	Apr 13 /06	17:54:01	0.746	0.524	0.905	1.02	Long	0.00663	0.00663	0.00663	Hillside	
W	BE9689	Apr 13 /06	17:54:04	0.873	0.587	0.889	0.98	Long	0.00829	0.00663	0.0166	Grassy Tr. Dam	
W	BE9690	Apr 13 /06	20:34:49	0.873	0.476	1.03	1.18	Long	0.00994	0.00663	0.00829	Hillside	
W	BE9689	Apr 13 /06	20:34:52	1.19	0.73	1.21	1.52	Vert	0.00994	0.00663	0.0149	Grassy Tr. Dam	
W	BE9690	Apr 14 /06	5:37:32	0.794	0.587	1.7	1.81	Tran	0.0116	0.00829	0.0133	Hillside	
W	BE9689	Apr 14 /06	9:42:22	1.68	1.52	1.21	1.84	Long	0.0878	0.0878	0.0762	Grassy Tr. Dam	
LOG	BE9689	Apr 14 /06	9:42:42	***	***	***	***	***	***	***	***	Keyboard Stop	N events recorded. (Keybc
LOG	BE9689	Apr 14 /06	10:05:44	***	***	***	***	***	***	***	***	Start Monitoring	Start Monitoring
W	BE9690	Apr 14 /06	10:29:58	0.46	0.349	0.73	0.752	Long	0.0365	0.0315	0.0497	Hillside	
LOG	BE9690	Apr 14 /06	10:32:10	***	***	***	***	***	***	***	***	Keyboard Stop	N events recorded. (Keybc
W	BE9689	Apr 14 /06	10:33:47	20.5	7.19	5.11	20.7	Vert	0.177	0.0547	0.0447	Grassy Tr. Dam	**EQ Mag 2.1,** event was felt
LOG	BE9689	Apr 14 /06	10:58:07	***	***	***	***	***	***	***	***	Keyboard Stop	N events recorded. (Keybc

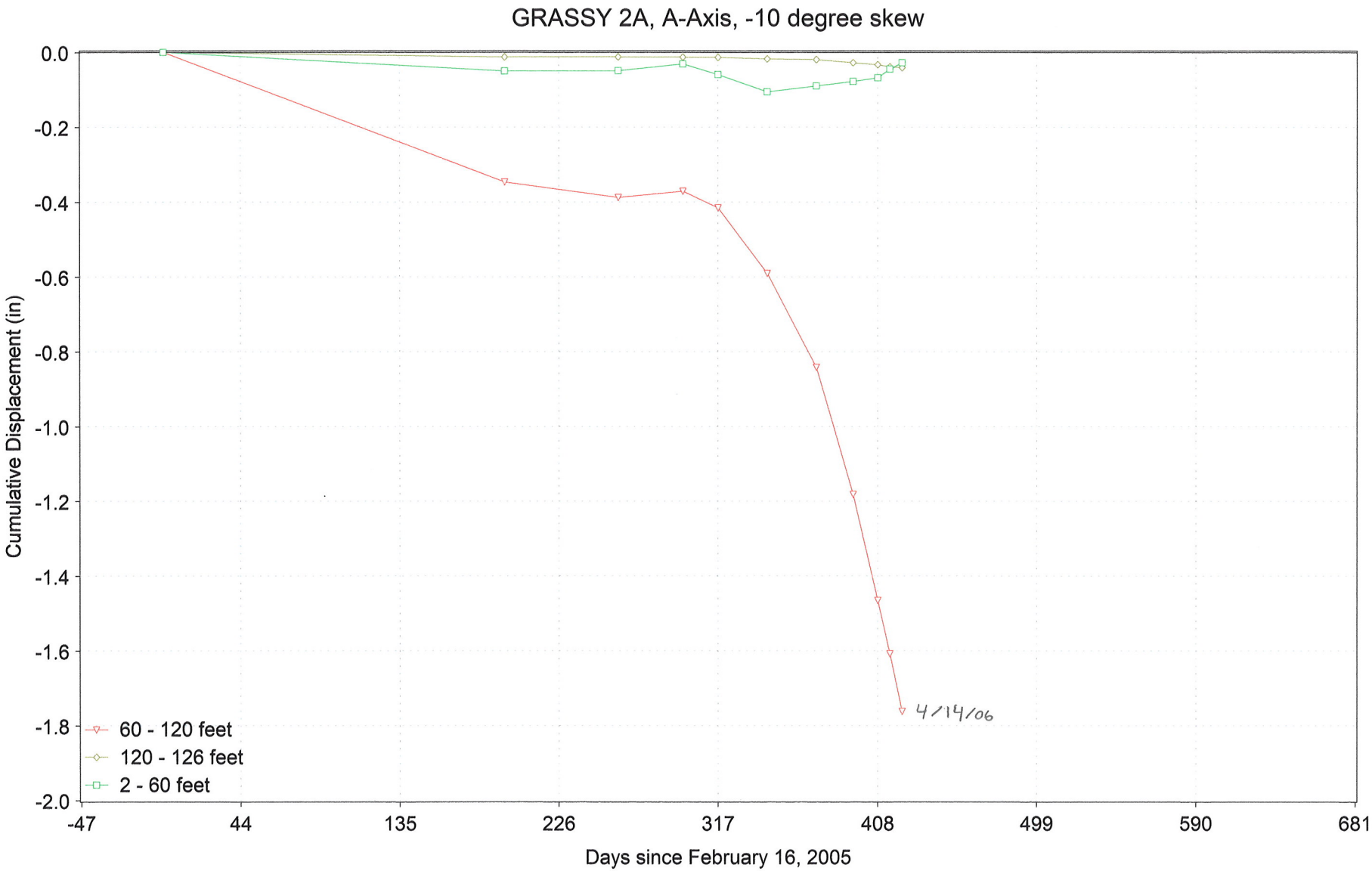

Seismic Events per Seven day Period
UUSS Earthquakes
Events on Hill
Events on Dam
Number of Events Recorded per Week
70
60
50
40
30
20
10
0
1/12/06
1/19/06
1/26/06
2/2/06
2/9/06
2/16/06
2/23/06
3/2/06
3/9/06
3/16/06
3/23/06
3/30/06
4/6/06
4/13/06
7 Days Ending

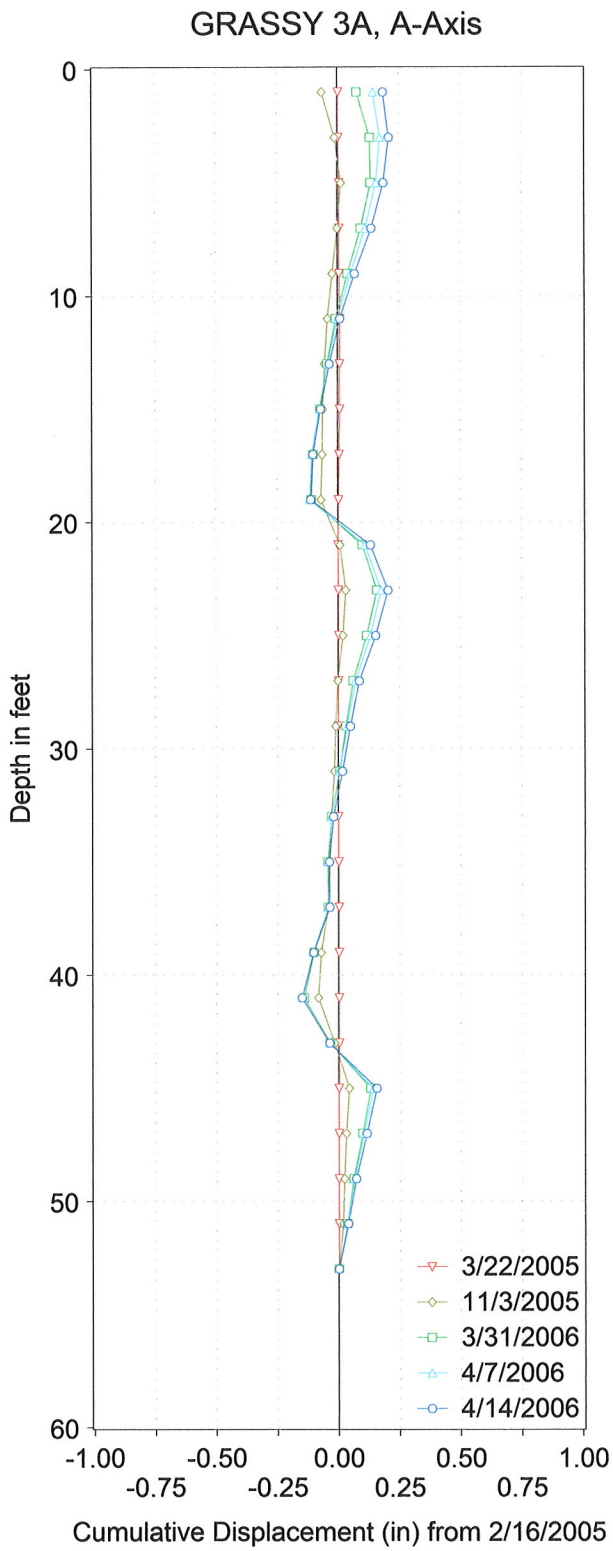

Earthquake Mag and PGA
Earthquake Magnitude
PGA
EQ Mag
Hillside PGA
Dam PGA
3
2.5
2
1.5
1
0.5
0
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1/5/06
1/12/06
1/19/06
1/26/06
2/2/06
2/9/06
2/16/06
2/23/06
3/2/06
3/9/06
3/16/06
3/23/06
3/30/06
4/6/06
4/13/06

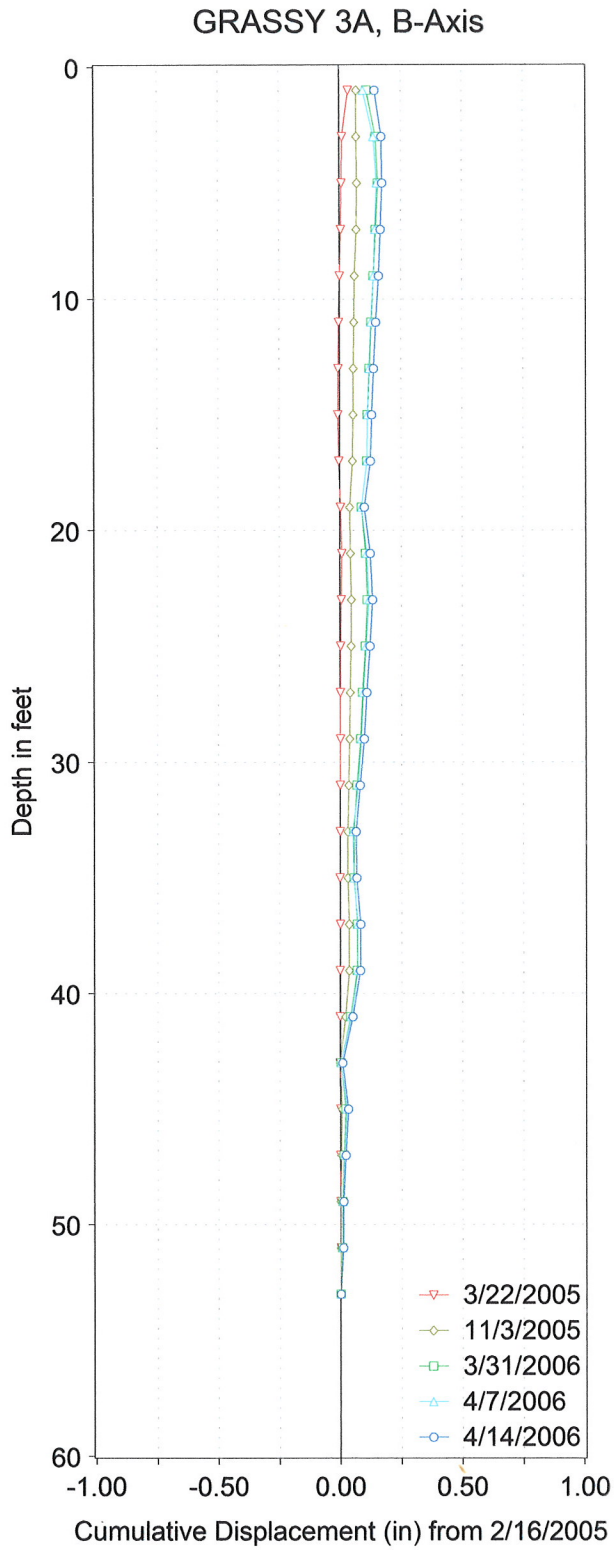

Number of Seismic Events Recorded per Day
Earthquakes
Hillside
Dam
Number of Events
0
2
4
6
8
10
12
14
16
1/3/06
1/10/06
1/17/06
1/24/06
1/31/06
2/7/06
2/14/06
2/21/06
2/28/06
3/7/06
3/14/06
3/21/06
3/28/06
4/4/06
4/11/06


GRASSY 2A, A-Axis
Depth in feet
Cumulative Displacement (in) from 7/20/2004
0
10
20
30
40
50
60
70
80
90
100
110
120
130
-2.00
-1.50
-1.00
-0.50
0.00
12/8/2004
2/16/2005
3/22/2005
6/17/2005
7/20/2005
8/30/2005
11/3/2005
12/10/2005
12/30/2005
2/24/2006
3/17/2006
3/31/2006
4/7/2006
4/14/2006

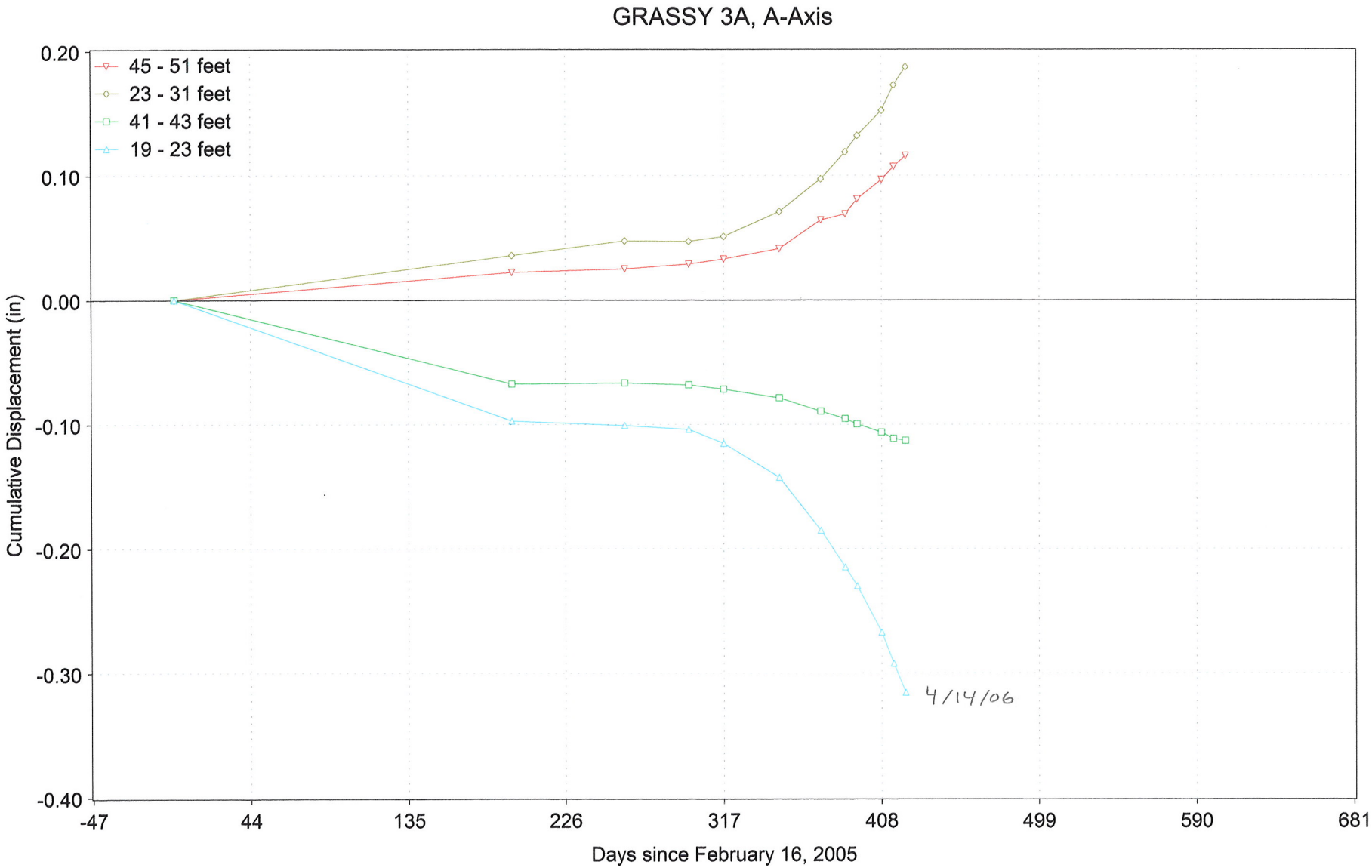

GRASSY 2A, B-Axis
Depth in feet
Cumulative Displacement (in) from 7/20/2004
0
10
20
30
40
50
60
70
80
90
100
110
120
130
-1.00
-0.50
0.00
0.50
1.00
2/16/2005
2/24/2006
3/17/2006
3/31/2006
4/7/2006
4/14/2006

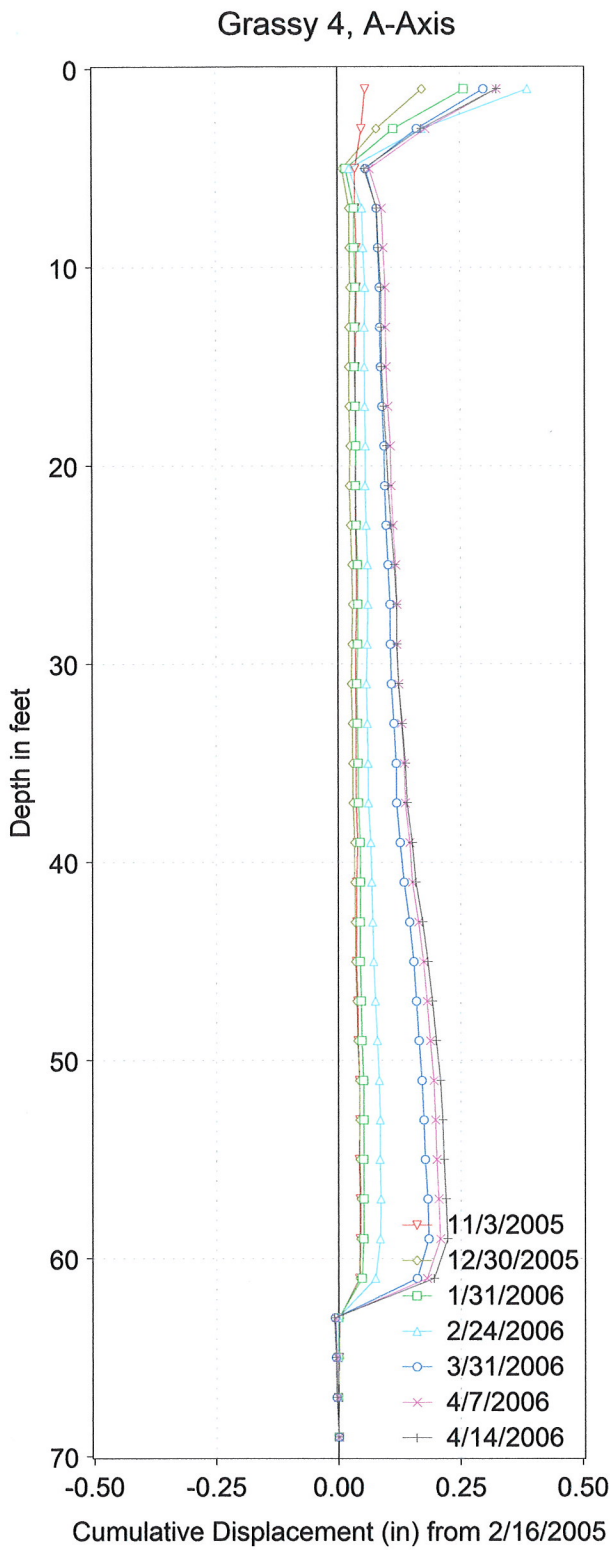

GRASSY 2A, A-Axis, -10 degree skew
Cumulative Displacement (in)
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
-1.4
-1.6
-1.8
-2.0
-47
44
135
226
317
408
499
590
681
Days since February 16, 2005
60 - 120 feet
120 - 126 feet
2 - 60 feet
4/14/06

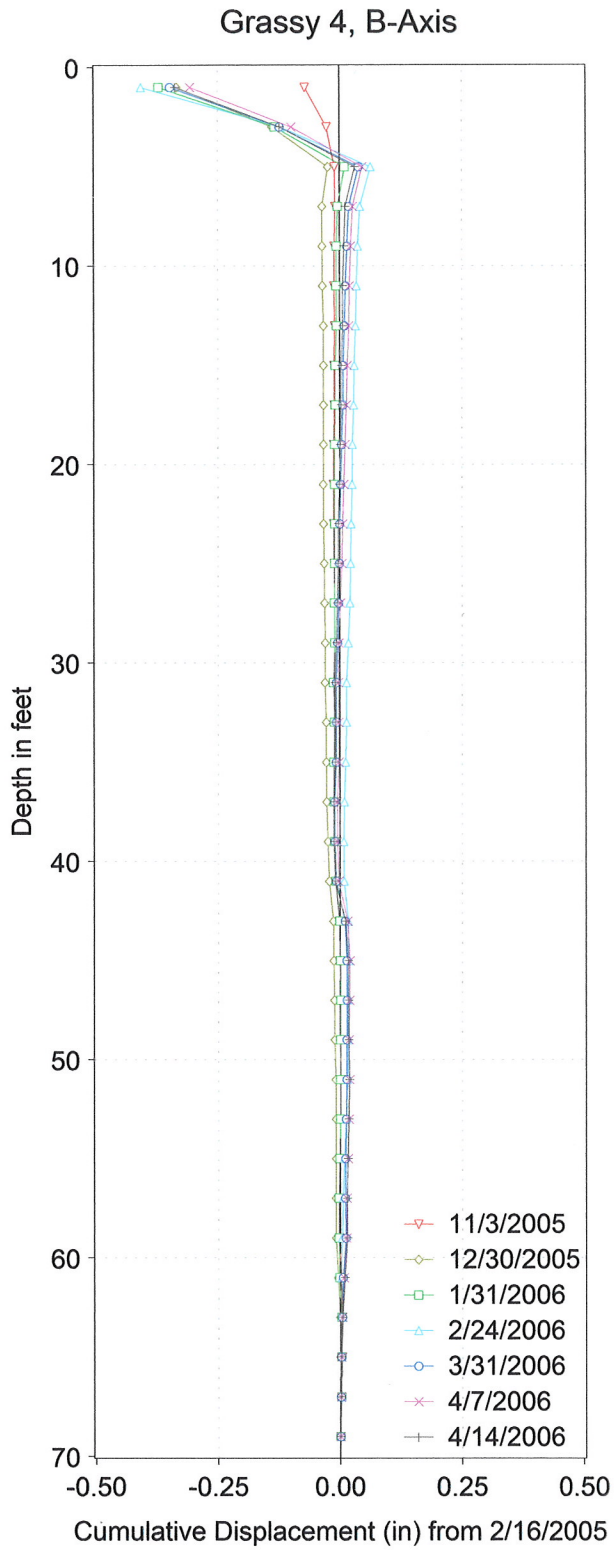


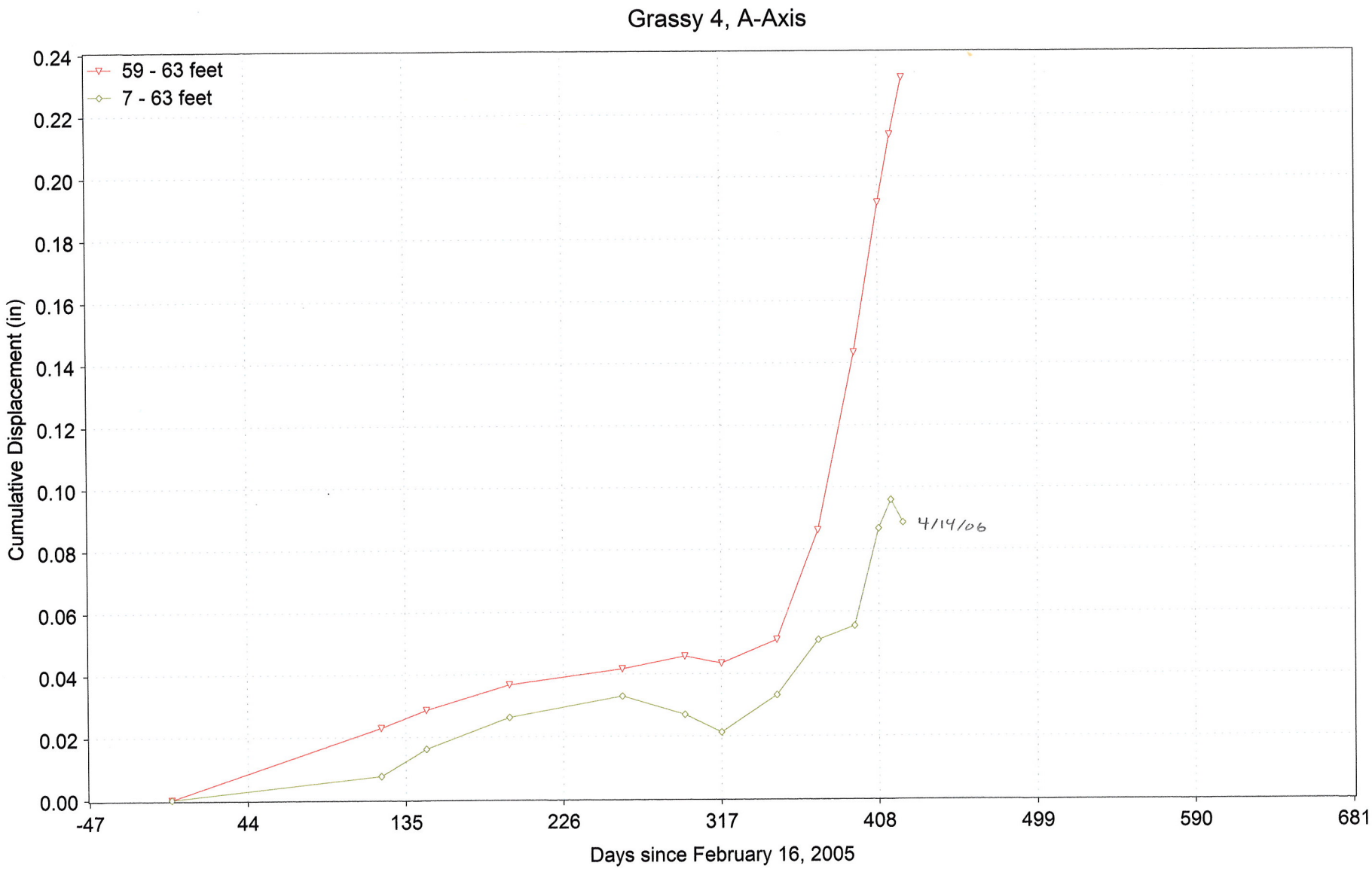


-30 degree skew


GRASSY 3A, A-Axis
45 - 51 feet
23 - 31 feet
41 - 43 feet
19 - 23 feet
0.20
0.10
0.00
-0.10
-0.20
-0.30
-0.40
Cumulative Displacement (in)
-47
44
135
226
317
408
499
590
681
Days since February 16, 2005
4/14/06


Grassy 4, A-Axis
Depth in feet
0
10
20
30
40
50
60
70
-0.50
-0.25
0.00
0.25
0.50
Cumulative Displacement (in) from 2/16/2005
11/3/2005
12/30/2005
1/31/2006
2/24/2006
3/31/2006
4/7/2006
4/14/2006


Grassy 4, B-Axis
Depth in feet
0
10
20
30
40
50
60
70
-0.50
-0.25
0.00
0.25
0.50
Cumulative Displacement (in) from 2/16/2005
11/3/2005
12/30/2005
1/31/2006
2/24/2006
3/31/2006
4/7/2006
4/14/2006


Grassy 4, A-Axis
59 - 63 feet
7 - 63 feet
Cumulative Displacement (in)
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
-47
44
135
226
317
408
499
590
681
Days since February 16, 2005
4/14/06