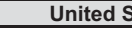
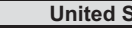


United States Nuclear Regulatory Commission Official Hearing Exhibit	
In the Matter of:	Entergy Nuclear Operations, Inc. (Indian Point Nuclear Generating Units 2 and 3)
	ASLBP #: 07-858-03-LR-BD01 Docket #: 05000247 05000286 Exhibit #: ENT00331N-00-BD01 Admitted: 10/15/2012 Rejected: Other:
	Identified: 10/15/2012 Withdrawn: Stricken:

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	Identified: 10/15/2012 Withdrawn: Stricken:

GZA GeoEnvironmental of New York Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0017869.10
DATE: 1/30/06
SAMPLER(S): S. Covelli

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Rate (mL/min)	Pump Depth (ft)	Notes
1455	65.00									start pump
1457	65.70	7.64	15.50	550	4.58	23.30	73	400	83	
1503	65.80	7.67	10.00	550	4.72	23.80	98	400		
1505										sample taken
1511	65.40	7.73	5.02	540	5.33	21.80	150	200	78	
1517	65.60	7.71	4.71	550	4.82	21.80	93	400		
1522	65.75	7.71	3.74	550	4.56	23.40	79	400		
1523										sample taken
1528	66.00	7.71	37.30	540	3.31	24.20	94	300	74	
1533	65.75	7.71	10.95	540	3.33	22.80	93	300		
1538	65.80	7.71	11.10	540	2.93	23.60	86	300		
1540										sample taken
1542	66.10	7.70	13.20	540	2.72	24.70	80	350	72	
1547	65.90	7.71	12.50	540	2.62	24.30	83	350		
1552	65.95	7.70	13.60	540	2.34	24.60	77	350		
1555										sample taken

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0017869.10
DATE: 2/7/06
SAMPLER(S): S. Covelli

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Rate (mL/min)	Pump Depth (ft)	Notes
1040	64.73	7.72	2.12	760	7.72	20.60	112	100	72	
1103	65.83	7.86	0.90	750	11.17	24.20	192	100		
1116	66.70	8.01	34.50	750	2.45	25.70	-151	200		
1123	66.60	8.04	8.13	740	3.26	22.20	-129	100		
1126	*	8.03	6.63	750	**	**	**	**		
1132	*	8.01	3.47	750	2.30	23.80	-165	100		
1137	*	8.05	2.52	770	5.26	22.60	-165	150		

NOTES AND OBSERVATIONS:

- * Depth to water readings discontinued due to difficulty maintaining low flow.
- ** Pumping ceased before readings could be taken.

Samples were taken at 1140 hours, 1145 hours, and 1149 hours.

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0017869.10
DATE: 3/10/06
SAMPLER(S): S. Covelli

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Rate (mL/min)	Pump Depth (ft)	Notes
1500	68.40								72	pump on
1507	68.90	6.91	1.87	/	8.99	22.50	272	400		flow achieved
1512	69.05	7.10	2.31	/	7.51	24.50	240	400		
1515	69.10	7.20	2.46	/	6.94	25.40	229	400		
1517	69.20	7.27	2.61	/	6.51	25.70	221	400		sample taken

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0017869.10
DATE: 3/13/06
SAMPLER(S): S. Covelli

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Rate (mL/min)	Pump Depth (ft)	Notes
924	68.35									pump on
934	68.85	7.84	2.14	/	6.99	22.90	155	400	83	flow achieved
939	69.25	7.77	3.91	/	5.53	24.50	146	400		
944	69.40	7.79	3.60	/	5.45	24.40	141	400		
949	69.45	7.78	3.07	/	5.50	24.50	123	400		
954	69.50	7.84	2.73	/	5.56	24.60	119	400		
959	69.60	7.68	2.63	/	5.52	24.70	141	400		
1004	69.70	7.49	2.47	/	5.54	24.80	147	400		
1009	69.75	7.52	2.46	/	5.43	24.80	150	400		
1013										sample taken
1022	69.85	7.62	3.20	/	4.53	24.70	135	350	78	
1045	69.75	7.74	2.58	/	2.31	25.10	106	350		
1050	69.77	7.75	3.42	/	2.17	25.20	102	350		
1055	69.77	7.86	3.68	/	2.09	25.20	83	325		
1100	69.74	7.76	3.73	/	1.96	25.20	94	325		
1102										sample taken
1114	69.75	7.72	3.48	/	1.58	24.70	94	325	74	
1120	69.75	7.69	3.82	/	1.55	24.90	97	325		
1125	69.77	7.73	2.59	/	1.52	25.30	88	325		
1132	69.75	7.97	3.77	/	1.39	25.60	68	325		
1139	69.77	7.85	3.74	/	1.33	25.70	79	350		
1144	69.78	7.83	3.67	/	1.32	25.90	67	350		
1145										sample taken

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0017869.10
DATE: 6/22/06
SAMPLER(S): S. Covelli

WATER QUALITY:[illegible]

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0017869.10
DATE: 6/23/06
SAMPLER(S): S. Covelli

WATER QUALITY:[illegible]

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York

Waterloo Sampling Data Sheet

CLIENT: Entergy - IPEC
 SITE: Buchanan, NY
 WEATHER: overcast, low 80's

PROJECT NO: 41.0017869.10
 DATE: 8/18/2006
 SAMPLER(S): S. Kline / S. Covelli

GALLONS OF WATER PER WELL VOLUME:

Well Volume = Water Column (T) (ft) x Multiplier
 = (4 x 0.653) - (4 x 0.163)
 Well Volume (V) = 1.96 (Gallons)

TOTAL VOLUME PURGED:

Design = 2.94 (gallons)

Actual = 6 (gallons)

PURGE RATE: variable (gal / min)

PURGE METHOD: Bladder pump

well diameter	multiplier
2	0.163
4	0.653
6	1.469

SCREENED INTERVAL: 71.2-75.2

WATER QUALITY:

Time	Elapsed Time (min)	Purged Volume (gal)	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent (seconds)	Drive Pressure (psi)
1013	0	0.00	67.62					21.3			
1030	0	0.00									
1053	23	0.25	67.77	7.97	40.6	31	9.9	21.3	210	12/24	23
1109	39	0.50	67.79	8.06	43.3	21	10.0	21.4	202	12/18	23
1115	45	0.60	67.8	8.01	52.6	21	9.7	21.3	189	12/18	23
1122	52	0.75	67.81	8.08	39.1	14	9.9	21.3	193	12/18	23
1129	59	0.85	67.84	8.09	38.1	25	9.9	21.3	190	12/12	30
1138	68	1.00	67.82	8.10	37.5	33	10.0	21.3	176	12/12	30
1154	84	1.25	67.83	8.06	58.2	17	9.8	21.3	204	6/24	32
1320	170	3.50	68.12	7.92	90.0	26	10.0	21.3	246	3/7	32
1332	182	4.00	68.12	7.95	90.0	27	10.0	21.4	244	3/7	32
1340	190	4.25	68.12	7.96	94.0	10	10.0	21.4	241	3/7	32
1350	200	4.50	68.14	7.97	94.0	53	10.1	21.3	242	3/7	32
1357	207	4.75	68.15	8.01	96.0	8	10.1	21.3	243	3/7	32
1400	210	4.90	68.16								
1408	218	5.00	68.16	7.95	92.0	12	10.0	21.3	249	3/7	32
1427	235	5.50	68.17	7.99	95.0	24	10.1	21.3	244	3/7	32
1434	242	5.90	68.17	8.01	96.0	13	10.1	21.3	247	3/7	32
1439	247	6.00	68.17								

NOTES AND OBSERVATIONS:

Sampling Depth: 74 feet below grade

* A one gallon sample was taken and split into three 1 liter bottles.

GZA GeoEnvironmental of New York

Waterloo Sampling

Data Sheet

WELL ID: MW-30-87

CLIENT: Entergy - IPEC
 SITE: Buchanan, NY
 WEATHER: sunny, low 80's

PROJECT NO: 41.0017869.10
 DATE: 8/21/2006
 SAMPLER(S): S. Kline / S. Covelli

GALLONS OF WATER PER WELL VOLUME:

Well Volume = Water Column (T) (ft) x Multiplier
 = (8 x 0.653) - (8 x 0.163)
 Well Volume (V) = 3.92 (Gallons)

TOTAL VOLUME PURGED:

Design = 5.88 (gallons)
 Actual = 5.50 (gallons)

PURGE RATE: variable (gal / min)

PURGE METHOD: Bladder pump

well diameter	multiplier
2	0.163
4	0.653
6	1.469

SCREENED INTERVAL: 81.2-89.2

WATER QUALITY:

Time	Elapsed Time (min)	Purged Volume (gal)	Depth to Water (ft)	pH (SU)	Specific Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent (seconds)	Drive Pressure (psi)
8/21/2006											
8:10	0	0.00	68.65					20.2			
8:28	0	0.00	68.64							3/7	38
8:38	10	0.00	73.21	7.85	0.0	79	9.3	20.2	145	3/3	38
8:44	26	0.00	79.19	7.41	0.0	2	9.2	20.2	144	10/10	40
8:54	36	0.15	83.19	8.24	0.5	280	10.1	20.2	184	10/10	46
9:04	46	0.25	84.71	8.32	83.6	200	10.1	20.3	187	10/10	46
9:14	56	0.37	83.34	8.24	95.0	120	10.0	20.3	180	10/10	46
9:24	66	0.50	83.55	8.27	92.2	120	10.1	20.2	175	10/10	46
9:54	96	0.90	82.86	8.29	44.4	60	10.1	20.2	167	10/10	46
10:14	116	1.25	83.27	8.30	45.9	59	10.1	20.2	169	10/10	46
10:34	136	1.50	83.55	8.33	90.0	62	10.2	20.3	167	10/10	46
11:18	180	2.25	82.37	8.28	90.0	31	10.1	20.3	181	10/10	46
11:28	190	2.37	82.56	8.26	90.0	85	10.1	20.2	180	10/10	46
11:38	200	2.50	82.23	8.26	90.0	120	10.1	20.2	182	10/10	46
11:48	210	2.65	85.73	8.24	90.0	80	10.1	20.2	186	7/7	46
11:58	220	2.75	85.12	8.40	86.6	210	10.2	20.2	196	10/10	46
12:58	280	3.00	85.54	8.21	52.7	150	10.2	20.1	199	10/10	42
13:18	300	3.05	85.39	8.21	101.0	510	10.2	20.1	194	10/10	46
13:28	310	3.06	85.17	8.17	29.9	66	10.0	20.0	200	10/10	46
13:38	320	3.13	85.03	8.16	45.5	62	10.0	20.0	213	10/24	46
13:48	330	3.15	84.27	8.12	26.0	67	10.1	20.0	212	10/24	46
13:58	340	3.22	85.41	8.14	28.8	74	10.1	20.1	204	10/10	46
14:08	360	3.25	85.40	8.08	90.0	100	10.1	10.1	205	10/10	46
14:40	392	3.30	84.73	8.07	0.7	75	10.0	20.0	212	10/10	46
14:43											
pump off											
8/22/2006											
9:01	0	3.30	68.21					20.0			
9:11	0	3.30	68.21							10/10	46
9:15	4	3.50	75.56	8.03	99.0	280	10.4	20.0	209	10/10	46
9:25	14	3.80	82.53	8.17	90.0	220	10.1	20.0	225	10/10	46
9:38	27	4.00	83.84	8.13	108.0	230	10.2	20.1	236	10/10	46
9:48	37	4.25	83.91	8.08	107.0	240	10.2	20.0	240	10/10	46
9:58	47	4.40	83.75	8.07	108.0	220	10.1	20.0	243	10/10	46
10:08	57	4.55	84.02	8.03	90.0	450	10.1	20.0	246	7/3	46
10:18	67	4.65	85.52	7.96	90.0	210	10.1	20.0	244	7/3	46
10:26	75	4.80	85.85	8.06	31.9	230	10.2	20.0	243	7/7	46
10:30	79	4.80	85.85								
pump off											
12:52	-	4.80	83.67					20.0			
13:00	0	4.80	83.19							10/10	46
13:03	3	4.85	83.20	8.07	90.0	300	9.9	20.0	266	10/10	46
13:13	13	5.00	83.79	8.00	115.0	270	9.8	20.0	259	10/10	46
13:27	27	5.25	84.31	7.88	69.4	250	9.8	20.0	266	10/10	46
13:55	55	5.50	85.59	7.97	90.0	270	9.8	20.0	264	10/10	46
14:04											
pump off											

NOTES AND OBSERVATIONS:

Sampling Depth: 87 feet below grade on 8/21/06
 88 feet below grade on 8/22/06

GZA GeoEnvironmental of New York

Waterloo Sampling

Data Sheet

CLIENT: Entergy - IPEC
 SITE: Buchanan, NY
 WEATHER: low 60's/ slightly overcast

PROJECT NO: 41.0017869.10
 DATE: 11/28/2006 - 11/29/2006
 SAMPLER(S): Sara Covelli

GALLONS OF WATER PER WELL VOLUME:

Well Volume = Water Column (T) (ft) x Multiplier
 = x 0.653

Well Volume (V) = (Gallons)

TOTAL VOLUME PURGED:

Design = 3.5 (gallons)

Actual = 3.5 (gallons)

PURGE RATE: variable (gal / min)

PURGE METHOD: Bladder pump

well diameter	multiplier
2	0.163
4	0.653
6	1.469

SCREENED INTERVAL: 81.2-89.2

WATER QUALITY:

Time	Elapsed Time (min)	Purged Volume (gal)	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen	Temp (0C)	ORP	Drive/Vent (seconds)	Drive Pressure (psi)
11/28/2006											
10:50	0	0.0	-	-	-	-	-	-	-	12/12	40
11:09	19	0.4	-	8.38	126	240	8.3	22.2	161	12/12	40
11:18	28	0.6	-	8.22	126	210	8.4	21.9	165	4/8	30
11:26	36	0.7	-	8.35	126	220	8.4	21.2	158	4/4	40
11:35	45	1.0	-	8.45	125	150	8.3	21.5	158	pump off	
11:43-13:40	purge of mw-30-74										
13:47	45	1.0	-	-	-	-	-	-	-	12/4	40
13:55	53	1.2	-	8.26	129	140	8.2	22.3	192	4/4	40
14:05	63	1.5	-	8.37	122	110	8.3	21.6	184	4/4	40
14:19	77	1.8	-	8.38	122	100	8.2	21.4	181	4/4	40
14:28	86	2.0	-	8.37	100	100	8.2	21.6	181	4/4	40
14:43	101	2.3	-	8.41	125	100	8.4	20.9	177	4/4	40
11/29/2006											
9:22	101	2.3	-	-	-	-	-	-	-	4/4	40
9:25	104	2.3	-	7.66	124	78	5.7	17.9	235	6/4	40
9:31	110	2.4	-	7.5	130	76	5.7	19.1	226	6/4	40
9:49	128	2.6	-	7.42	133	74	5.3	18.6	221	6/6	40
9:56	135	2.7	-	7.42	133	74	5.4	17.5	221	6/10	40
10:12	151	2.8	-	7.41	133	73	5.6	15.1	223	6/10	40
10:41	180	2.8	-	7.39	127	74	5.4	13.4	225	6/10	40
10:45	begin purging mw-30-88 and mw-30-74 simultaneously									4/4	25
11:25	224	3.0	-	pump off						4/4	25
13:40	224	3.0	-	pump on						6/4	40
14:20	264	3.5	-	collected 50 mL tracer test sample						6/4	50
14:30	274	collected 3/4 gallon sample								6/4	58
14:35	279									6/4	58
14:55	299	pump off									

NOTES AND OBSERVATIONS:

Sampling Depth: 88 feet below grade

3/4 gallon sample taken at 14:30 and completed at 14:55 on 11/29/06.

GZA GeoEnvironmental of New York
Waterloo Sampling
Data Sheet

WELL ID: MW- 30 - 74

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: raining, high 30's/ low 40's

PROJECT NO: 41.0017869.10
DATE: 1/15/2007 and 1/16/2007
SAMPLER(S): S. Covelli

SAMPLING INTERVAL (depth in ft below top of casing)
67.3 to 71.3

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 4.0 ft

SAMPLING PORT 74 x 0.49 multiplier

TOTAL VOLUME PURGED: 4.5 gal
WELL VOLUME: 1.96 gallons

PURGE RATE: variable
PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1/15/2007									
12:44	0.00	pump on						6/4	54
12:55	0.35							6/4	54
13:04	0.60							6/4	54
13:15	1.00	pump off							
13:24	1.00	8.04	99.9		4.5	19.5	84	6/4	54
13:53	1.90	8.09	99.9		4.5	21.1	83	6/4	54
13:57	2.00	8.17	99.9	110	4.5	21.1	84	6/4	54
14:00	2.00	8.26	99.9		4.5	20	79	6/4	54
14:10	2.35	8.3	99.9	110	4.5	21.1	74	6/4	54
14:20	2.60	8.43	99.9		4.5	21	73	6/4	54
14:25	2.80	8.42	99.9	110	4.4	21	73	6/4	54
1/16/2007									
8:29	2.80	8.07	99.9		3.6	14.5	144	6/4	54
8:34	3.00	8.19	99.9		4.1	20.7	131	6/4	54
8:47	3.40	7.97	99.9	120	4.3	21.5	136	6/4	54
8:55	3.60	7.98	90	110	4.3	21.5	137	6/4	54
9:04	4.00	7.96	90	120	4.1	21.5	138	6/4	54
9:08	4.25	7.99	99.9	110	4.1	21.2	133	6/4	54
9:19	4.50	7.95	99.9	110	4.1	21.2	126	6/4	54

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York
Waterloo Sampling
Data Sheet

WELL ID: MW- 30 - 88

CLIENT:	Entergy - IPEC	PROJECT NO:	41.0017869.10
SITE:	Buchanan, NY	DATE:	1/15/2007 and 1/16/2007
WEATHER:	raining, high 30's/ low 40's	SAMPLER(S):	S. Covelli

SAMPLING INTERVAL (depth in ft below top of casing)

77.3

to

85.4

SAMPLING PORT

88

GALLONS OF WATER PER WELL VOLUME:

Sampling Interval Length 8.1 ft

x 0.49 multiplier

TOTAL VOLUME PURGED:

3.5 gal

WELL VOLUME:

3.969 gallons

PURGE RATE: variable

PURGE METHOD:

Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1/15/2007									
12:44	0.00	pump on						6/4	54
12:45	0.01	7.4	127		5.4	20.6	59	6/4	54
12:55	0.35	7.94	125		5.0	20.2	68	6/4	54
13:04	0.60	8.17	129		4.8	19.7	66	6/4	54
13:14	1.00	8.15	128	99	4.5	19.3	75	6/4	54
13:15	1.00	pump off							
13:24	1.00	pump on						6/4	54
13:53	1.90							6/4	54
13:57	2.00	pump off						6/4	54
14:00	2.00	pump on						6/4	54
14:10	2.10							6/4	54
14:20	2.10							6/4	54
14:25	2.10	pump off						6/4	54
1/16/2007									
8:29	2.10	pump on						6/4	54
8:34	2.40							6/4	54
8:47	2.75							6/4	54
8:55	2.90							6/4	54
9:04	2.95							6/4	54
9:08	2.95							6/4	54
9:19	3.00	pump off						6/4	54
9:26	3.00	pump on						6/8	54
9:32	3.00	8.2	7.5		4.2	14.5	135	6/8	54
10:18	3.20	8.6	3.8		4.1	10.8	121	6/8	54
11:48	3.50	8.5	52.7	120	4.1	10.0	131	6/8	54
11:49	3.50	pump off						6/8	54

NOTES AND OBSERVATIONS:

PROJECT NO: 41.0017869.10
DATE: 11/27/2006
SAMPLER(S): Sara Covelli

Well Volume (V) = (Gallons)

PURGE METHOD: Bladder pump

SCREENED INTERVAL: 53 ft b/g

[illegible]

Began purge at 10:00. Sample taken at 11:45. Sampling completed at 12:00.

PROJECT NO: 41.0017869.10
DATE: 11/27/2006
SAMPLER(S): Sara Covelli

$$\text{Well Volume} = \text{Water Column (T) (ft)} \times \text{Multiplier}$$

$$= \quad \times \quad 0.653$$

$$\text{Well Volume (V)} = \quad (\text{Gallons})$$

PURGE METHOD: Bladder pump

SCREENED INTERVAL: 89 ft b/g

[illegible]

Began purge at 10:00. Sample taken at 12:20. Sampling completed at 12:40.

GZA GeoEnvironmental of New York
Waterloo Sampling
Data Sheet

WELL ID: MW- 31 - 53

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: cold

PROJECT NO: 41.0017869.10
DATE: 1/17/2007
SAMPLER(S): S. Covelli

SAMPLING INTERVAL (depth in ft below top of casing)
34.8 to 49.3
SAMPLING PORT
74

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 14.5 ft
x 0.49 multiplier

TOTAL VOLUME PURGED:
8.25 gal

WELL VOLUME: 7.105 gallons

PURGE RATE: variable

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
12:00	0.00	pump on							
12:06	0.40	6.9	99.9	170	5.7	16.6	166	6/8	54
12:12	1.00	7.34	99.1	140	5.5	16.1	150	pump off	
12:22	1.00	7.12	99.9	150	5.9	16.4	160	6/8	54
12:24	1.30	pump off							
12:35	1.30	pump on							6/8 54
12:40	2.00	pump off							
12:44	2.00	pump on							6/8 54
12:45	2.20	pump off							
12:47	2.20	pump on							6/8 54
12:50	2.40								6/8 54
12:55	3.00	pump off							
14:00	3.00	pump on							6/6 54
14:06	3.80								6/6 54
14:09	4.00	pump off							
14:12	4.00	pump on							6/6 54
14:14	4.30	pump off							
14:17	4.30	pump on							6/6 54
14:19	4.50	pump off							
14:24	5.00	pump on							6/6 54
14:31	5.40								6/6 54
14:33	5.80	pump off							6/6 54
14:34	5.80	pump on							6/6 54
14:36	6.00								6/6 54
14:41	6.50								6/6 54
14:45	7.00								6/6 54
14:52	8.00								6/6 54
14:56	8.25	pump off							6/6 54

At 14:19, port valve not closing properly.

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York
Waterloo Sampling
Data Sheet

WELL ID: MW- 31 - 67

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: cold

PROJECT NO: 41.0017869.10
DATE: 1/17/2007
SAMPLER(S): S. Covelli

SAMPLING INTERVAL (depth in ft below top of casing)
55.3 to 63.8
SAMPLING PORT 67

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 8.5 ft
x 0.49 multiplier

TOTAL VOLUME PURGED:
3.5 gal

WELL VOLUME: 4.165 gallons

PURGE RATE: variable

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
12:00	0.00	pump on							
12:06	0.25							6/8	54
12:12	0.40	pump off						6/8	54
12:22	0.40	pump on						6/8	54
12:24	0.60	pump off							
12:35	0.60	pump on						6/8	54
12:40	0.90	pump off							
12:44	0.90	pump on						6/8	54
12:45	1.00	pump off							
12:47	1.00	pump on						6/8	54
12:50	1.20							6/8	54
12:55	1.30	pump off							
14:00	1.30	7.28	99.9	-	6	13.4	162	6/6	54
14:06	1.50	7.9	92.7	150	6.9	13.4	111	6/6	54
14:09	1.60	7.89	99.9	100	6.9	13.5	111	pump off	
14:12	1.60	pump on						6/6	54
14:14	1.75	7.9	99.9	110	7	13.7	107	pump off	
14:17	1.75	pump on						6/6	54
14:20	2.00	pump off							
14:24	2.00	pump on						6/6	54
14:31	2.40							6/6	54
14:33	2.50	pump off						6/6	54
14:34	2.50	pump on						6/6	54
14:36	2.60							6/6	54
14:41	2.80							6/6	54
14:45	3.00							6/6	54
14:52	3.30							6/6	54
15:00	3.50	pump off						6/6	54

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York
Waterloo Sampling
Data Sheet

WELL ID: MW- 31 - 89

CLIENT:	Entergy - IPEC	PROJECT NO:	41.0017869.10
SITE:	Buchanan, NY	DATE:	1/17/2007
WEATHER:	cold	SAMPLER(S):	S. Covelli

SAMPLING INTERVAL (depth in ft below top of casing)	GALLONS OF WATER PER WELL VOLUME:
69.8 to 85.4	Sampling Interval Length 15.6 ft
SAMPLING PORT 89	x 0.49 multiplier
TOTAL VOLUME PURGED: 3.5 gal	WELL VOLUME: 7.644 gallons
PURGE RATE:variable	PURGE METHOD:Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
12:00	0.00	pump on							
12:06	0.40								6/854
12:12	0.80	pump off							
12:22	0.80	pump on							6/854
12:24	1.00	pump off							
12:35	1.00	7.03	99.9	100	3.3	15.2	166	6/8	54
12:40	1.30	7	99.9	100	2.6	15.9	160	pump off	
12:44	1.30	pump on							6/854
12:45	1.40	6.97	99.9	100	2.5	14.6	160	pump off	
12:47	1.40	pump on							6/854
12:50	1.60	6.95	99.9	100	2.4	15.8	163	6/8	54
12:55	2.00	7.01	99.9	100	2.4	16.3	159	pump off	
14:00	2.00	pump on							6/654
14:06	2.50								6/654
14:09	2.60	pump off							
14:12	2.60	pump on							6/654
14:14	3.00	pump off							
14:17	3.00	pump on							6/654
14:20	3.30	pump off							
14:24	3.30	pump on							6/654
14:31	3.80								6/654
14:33	4.00	pump off							
14:34	4.00	pump on							6/654
14:36	4.40								6/654
14:41	4.60	pump off							

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York
Waterloo Sampling
Data Sheet

WELL ID: MW- 32 - 62

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: very cold

PROJECT NO: 41.0017869.10
DATE: 1/18/2007
SAMPLER(S): S. Covelli/ S. Kline

SAMPLING INTERVAL (depth in ft below top of casing)
46.9 to 62.4

SAMPLING PORT

62

GALLONS OF WATER PER WELL VOLUME:

Sampling Interval Length 15.5 ft

x 0.49 multiplier

TOTAL VOLUME PURGED:

8 gal

WELL VOLUME:

7.595 gallons

PURGE RATE: variable

PURGE METHOD:

Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
10:55	0.00	pump on; transducer indicates sensor temperature of 20° C						6/6	55
11:10	0.10	6.6	87.3	250	4.8	18.8	207	6/6	55
11:15	0.50	7.1	86.3	150	6.2	19.1	193	6/6	55
11:18	1.00	7.3	88.7	130	5.2	18.9	187	pump off	
12:15	1.00	pump on						6/6	55
12:18	2.00	7.6	62.8	170	5.9	19.4	169	6/6	55
12:25	3.00							6/6	55
12:32	3.70	7.5	73.3	150	5.9	19.3	169	6/6	55
12:34	4.00					19.5		6/6	55
12:42	5.00	7.5	80	120	5.9	19.3	170	6/6	55
12:40	6.00							6/6	55
12:50	7.00							6/6	55
12:55	7.50					19.3		6/6	55
12:58	8.00								

NOTES AND OBSERVATIONS:

Vent Lines are frozen at first attempt to purge. Lines were de-iced using a heat gun.

GZA GeoEnvironmental of New York
Waterloo Sampling
Data Sheet

WELL ID: MW- 32 - 92

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: very cold

PROJECT NO: 41.0017869.10
DATE: 1/18/2007
SAMPLER(S): S. Covelli/ S. Kline

SAMPLING INTERVAL (depth in ft below top of casing)
82.4 to 92.9

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 10.5 ft

SAMPLING PORT
92 x 0.49 multiplier

TOTAL VOLUME PURGED:
6 gal

WELL VOLUME:
5.145 gallons

PURGE RATE: variable

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
10:57	0	pump on; transducer indicates sensor temperature of 19.3° C						6/6	55
12:20	0.50							6/6	55
12:26	1.00							6/6	55
12:37	1.00					19		6/6	55
12:39	2.00							6/6	55
12:45	2.50	7.5	74.5	98	4	17.5	165	6/6	55
12:50	3.00	7.3	77.8	98	3.6	17.5	169	6/6	55
12:52	3.30					18.9		6/6	55
12:59	4.00	7.4	79.8	98	3.4	17.5	163	6/6	55
13:12	5.00							6/6	55
13:20	5.50					18.9		6/6	55
13:27	6.00							6/6	55
13:31	6.00	pump off; transducer indicates sensor temperature of 18.9° C							

NOTES AND OBSERVATIONS:

Vent Lines are frozen at first attempt to purge. Lines were de-iced using a heat gun.

GZA GeoEnvironmental of New York

Waterloo Sampling

Data Sheet

WELL ID: MW- 32 - 140

CLIENT: Entergy - IPEC
 SITE: Buchanan, NY
 WEATHER: very cold

PROJECT NO: 41.0017869.10
 DATE: 1/18/2007
 SAMPLER(S): S. Covelli/ S. Kline

SAMPLING INTERVAL (depth in ft below top of casing)
 _____ 119.9 to _____ 140.4

GALLONS OF WATER PER WELL VOLUME:
 Sampling Interval Length _____ 20.5 ft
 x _____ 0.49 multiplier

SAMPLING PORT
 _____ 140

TOTAL VOLUME PURGED:
 _____ 10.5 gal

WELL VOLUME: 10.045 gallons

PURGE RATE: variable

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
10:59	0	pump on; transducer indicates sensor temperature of 17.5° C						6/6	55
12:19	0.5							6/6	55
12:20	1.00					17.5		6/6	55
12:40	2.00							6/6	55
12:55	3.00							6/6	55
13:04	3.50	7.2	85.6	98	5.2	17.7	170	6/6	55
13:05						17.5		6/6	55
13:10	3.80	7.5	88.5	97	2.8	17.6	156	6/6	55
13:13	4.00							6/6	55
13:17	4.30	7.2	87.8	97	2.8	17.4	153	6/6	55
13:25	4.50	7.3	87	98	2.9	17.4	148	6/6	55
13:30	5.00							8/8	60
13:33	5.10							8/8	60
13:35	5.40	7.3	79.9	98	3.1	17.5	145	8/8	60
13:45	6.00							8/8	60
13:55	6.70	transducer indicates sensor temperature of 17.5° C						8/8	60
13:57	7.00							8/8	60
14:15	8.00							8/8	60
14:20	8.30	transducer indicates sensor temperature of 17.5° C						8/8	60
14:29	9.00							8/8	60
14:45	10.00							8/8	60
14:52	10.50	pump off						8/8	60

NOTES AND OBSERVATIONS:

Vent Lines are frozen at first attempt to purge. Lines were de-iced using a heat gun.

GZA GeoEnvironmental of New York

Waterloo Sampling Data Sheet

WELL ID: MW- 32 - 160

CLIENT: Entergy - IPEC
 SITE: Buchanan, NY
 WEATHER: very cold

PROJECT NO: 41.0017869.10
 DATE: 1/18/2007
 SAMPLER(S): S. Covelli/ S. Kline

SAMPLING INTERVAL (depth in ft below top of casing)
 _____ 146.4 to _____ 161.9

GALLONS OF WATER PER WELL VOLUME:
 Sampling Interval Length _____ 15.5 ft

SAMPLING PORT
 _____ 160 x _____ 0.49 multiplier

TOTAL VOLUME PURGED: _____ 8.5 gal
WELL VOLUME: 7.595 gallons

PURGE RATE: variable **PURGE METHOD:** Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
11:03	0	pump on; transducer indicates sensor temperature of 16.6° C						6/6	55
12:19	0.4	transducer indicates sensor temperature of 16.5° C						6/6	55
12:30	1.00							6/6	55
12:45	2.00							6/6	55
12:56	3.00							6/6	55
13:10	3.80	transducer indicates sensor temperature of 16.6° C						6/6	55
13:14	4.00							6/6	55
13:36	4.40	transducer indicates sensor temperature of 16.7° C						8/8	60
13:48	5.00	7.3	89.3	98	3.8	16.9	148	8/8	60
13:55	5.50	7.3	87.5	98	2.9	17.3	141	8/8	60
13:56	5.60	transducer indicates sensor temperature of 16.7° C						8/8	60
14:03	6.00	7.3	84.6	98	3	17.3	138	8/8	60
14:18	6.50	transducer indicates sensor temperature of 16.7° C						8/8	60
14:25	7.00							8/8	60
14:40	8.00	transducer indicates sensor temperature of 16.7° C						8/8	60
14:45	8.50	pump off							

NOTES AND OBSERVATIONS:

Vent Lines are frozen at first attempt to purge. Lines were de-iced using a heat gun.

GZA GeoEnvironmental of New York

Waterloo Sampling Data Sheet

WELL ID: MW- 32 - 197

CLIENT: Entergy - IPEC
 SITE: Buchanan, NY
 WEATHER: very cold

PROJECT NO: 41.0017869.10
 DATE: 1/18/2007
 SAMPLER(S): S. Covelli/ S. Kline

SAMPLING INTERVAL (depth in ft below top of casing)
 _____ 167.9 to _____ 198.4

GALLONS OF WATER PER WELL VOLUME:
 Sampling Interval Length _____ 30.5 ft
 x _____ 0.49 multiplier

SAMPLING PORT
 _____ 197

TOTAL VOLUME PURGED:
 _____ 9 gal

WELL VOLUME: 14.945 gallons

PURGE RATE: variable

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
11:05	0.00	pump on; transducer indicates sensor temperature of 15.0° C						6/6	55
11:18	0.00	transducer indicates sensor temperature of 15.0° C						6/6	55
12:15	0.00	transducer indicates sensor temperature of 15.1° C						6/6	55
12:18	0.70							6/6	55
12:23	1.00							6/6	55
12:48	2.00							6/6	55
13:09	3.00							6/6	55
13:16	3.30	transducer indicates sensor temperature of 15.1° C						8/8	60
13:34	4.00							8/8	60
13:37	4.20	transducer indicates sensor temperature of 15.1° C						8/8	60
13:55	5.00							8/8	60
14:00		transducer indicates sensor temperature of 15.1° C						8/8	60
14:14	6.00							8/8	60
14:15		transducer indicates sensor temperature of 15.1° C						8/8	60
14:16	6.10	7.3	89.7	97	2.2	16.4	136	8/8	60
14:25	6.50	7.3	89.3	97	2.2	16.8	131	8/8	60
14:30	6.70	7.3	88.9	97	2.1	16.9	129	8/8	60
14:35	7.00	7.3	89.4	97	2.2	17.0	126	8/8	60
14:45	7.50							8/8	60
14:50	8.00	7.3	89.5	97	2.2	17.2	125	8/8	60
15:00	8.30	7.3	89.5	97	2.2	17.3	125	8/8	60
15:15	9.00	7.3	89.5	97	2.2	17.3	125	8/8	60

NOTES AND OBSERVATIONS:

Vent Lines are frozen at first attempt to purge. Lines were de-iced using a heat gun.

GZA GeoEnvironmental of New York

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC

SITE: Buchanan, NY

PROJECT NO: 41.0017869.10

DATE: 1/11/07

SAMPLER(S): Sara Covelli / Angela Hough

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
LOW TIDE										
11:36	12.75	5.72	476.0	74.4	6.13	16.42	128	7.5	40.0	pump on/ salinity 0.0
11:45	12.72	7.22	461.0	4	2.29	20.22	43	8.0		salinity 0.0
11:48	12.70	7.38	556.0	4.7	2.74	19.90	23	8.0		salinity 0.0
11:52	-	-	-	-	-	-	-	-		sample collected
11:56	-	-	-	-	-	-	-	-		pump off
HIGH TIDE										
16:36	11.25	-	-	-	-	-	-	-	40.0	pump on
16:39	11.25	6.35	192.0	13.8	8.23	18.07	107	10.0		salinity 0.0
17:30	11.25	6.00	191.0	11.8	8.10	16.87	111	6.0		salinity 0.0
17:32	11.25	-	-	-	-	-	-	-		sample collected
17:34	-	-	-	-	-	-	-	-		pump off

NOTES AND OBSERVATIONS:

Low Tide occurred at approximately 10:34 and High Tide occurred at approximately 16:05. Low and High Tide times were determined based on water elevation readings from stilling well HR-1.

GZA GeoEnvironmental of New York

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC

SITE: Buchanan, NY

PROJECT NO: 41.0017869.10

DATE: 1/11/07

SAMPLER(S): Sara Covelli / Angela Hough

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
LOW TIDE										
11:39	12.75	-	-	-	-	-	-	7.75	20.0	pump on
11:42	12.75	7.27	475.0	6.7	2.49	20.10	38	7.75		salinity 0.0
11:50	12.70	7.44	579.0	3.6	2.46	20.77	23	8.00		salinity 0.0
11:54	-	-	-	-	-	-	-	-		sample collected
11:56	-	-	-	-	-	-	-	-		pump off
HIGH TIDE										
16:36	11.25	-	-	-	-	-	-	-	20.0	pump on
16:42	11.25	5.70	0.0	80.3	8.51	17.95	134	5.25		salinity 0.0
17:25	11.25	5.99	190.0	13.5	8.44	16.52	107	2.00		salinity 0.0
17:27	11.25	-	-	-	-	-	-	-		sample collected
17:34	-	-	-	-	-	-	-	-		pump off

NOTES AND OBSERVATIONS:

Low Tide occurred at approximately 10:34 and High Tide occurred at approximately 16:05. Low and High Tide times were determined based on water elevation readings from stilling well HR-1.

GZA GeoEnvironmental of New York

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0017869.10
DATE: 3/31/06
SAMPLER(S): S. Covelli

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Rate (mL/min)	Pump Depth (ft)	Notes
837	36.17								48	start pump
845	36.65	2.87	99.90	NA	2.27	14.5	250	160		
854	36.61	3.73	2.22	NA	8.99	15.7	178	210		
900	36.83	5.17	5.90	NA	3.92	18.9	87	230		
906	36.90	5.52	3.48	NA	6.64	20.0	66	220		
912	36.91	5.49	2.03	NA	6.54	20.1	67	200		
918	36.90	5.40	1.91	NA	6.31	20.4	73	210		
924	36.90	5.31	1.84	NA	6.27	20.1	77	220		sample taken
945	36.82								45.5	start pump
947	36.90	4.82	2.26	NA	4.60	17.8	111	350		
953	37.12	5.15	2.17	NA	6.41	20.6	97	240		
959	37.07	5.22	2.05	NA	6.31	20.1	94	230		
1005	37.05	5.24	1.94	NA	6.00	20.3	94	240		sample taken
1033	36.25								43	start pump
1038	36.70	4.40	4.53	NA	7.90	18.3	162	160		
1044	36.88	4.70	1.81	NA	4.51	20.0	140	230		
1050	36.96	4.92	1.92	NA	4.53	20.5	133	230		
1054	37.00	5.07	2.06	NA	4.56	21.0	127	220		
1100	37.02	5.14	2.12	NA	4.13	21.0	123	220		sample taken
1246	36.22								41	start pump
1251	36.54	4.37	0.01	NA	8.64	17.3	206	75		
1257	36.48	4.21	3.70	NA	5.23	16.6	195	100		
1303	36.46	4.33	2.42	NA	4.71	16.6	178	80		
1309	36.51	4.48	1.85	NA	4.04	17.8	169	110		
1315	36.46	4.66	1.92	NA	3.84	19.0	162	100		
1321	36.50	4.75	2.01	NA	3.72	19.5	158	100		sample taken

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0017869.10
DATE: 4/06/06
SAMPLER(S): S. Covelli

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Rate (mL/min)	Pump Depth (ft)	Notes
1042	35.40								48	start pump
1047	35.77	7.91	6.6	633	13.10	12.2	262	225		
1057	36.00	7.80	9.6	623	5.53	14.9	22	225		
1107	36.10	7.84	9.4	689	5.69	17.6	19	240		
1114	36.12	7.83	7.2	610	5.49	17.7	33	250		
1120	36.13	7.82	6.6	552	5.54	17.8	42	250		
1126	36.15	7.80	6.2	472	5.62	18.0	46	250		
1132	36.15	7.79	6.1	432	5.64	18.0	47	250		
1138	36.17	7.77	5.9	386	5.67	18.2	44	260		sample taken
1337	35.41								45.5	start pump
1340	36.07	7.31	5.4	359	7.48	12.5	117	240		
1346	36.05	7.78	5.4	294	6.44	14.3	62	250		
1351	36.26	7.77	5.5	228	6.59	18.1	51	280		
1407	36.21	7.74	5.2	197	7.81	18.2	47	190		
1413	36.16	7.74	5.1	193	7.56	17.9	51	330		
1419	36.13	7.74	5.2	192	7.37	18.5	48	330		sample taken
1504	36.25	7.73	5.0	173	5.78	18.4	46	275	43	
1511	36.43	7.72	4.9	185	5.75	18.4	42	325		
1521	36.25	7.73	5.0	179	5.64	17.4	43	250		sample taken
1554	36.52	7.72	4.8	167	5.79	20.1	37	400	41	
1602	36.38	7.72	4.9	177	5.87	18.7	45	320		
1608	36.42	7.67	4.5	173	5.58	19.0	51	400		
1615	36.43	7.70	4.7	169	5.82	19.3	47	390		
1621	36.32	7.72	4.8	168	5.87	19.3	47	350		sample taken

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0017869.10
DATE: 7/20/06 - 7/21/06
SAMPLER(S): S. Covelli

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Rate (mL/min)	Pump Depth (ft)	Notes
7/20/2006										
1316	34.64								48	pump on
1322	35.40	7.06	3.5	369	1.76	20.5	50	300		
1340	35.44	7.25	2.0	266	2.80	22.0	27	250		
1351	35.51	7.18	1.6	170	3.49	22.0	34	300		
1413	35.61	7.13	1.4	161	3.73	22.0	37	275		
1427	35.64	7.13	1.4	203	3.75	22.0	38	300		
1430										sample taken/pump off
7/21/2006										
821	34.69								45.5	pump on
830	35.02	7.12	1.6	180	5.37	20.1	167	125		
844	35.30	7.30	1.4	107	4.52	21.4	56	175		
852	35.43	7.26	1.3	93.7	4.48	21.8	53	225		
858	35.45	7.24	1.3	87.9	4.44	21.8	51	225		
900										sample taken/pump off
953	34.72								43	pump on
957	35.23	7.32	1.3	150	5.55	19.7	123	250		
1005	35.38	7.04	1.3	93.9	4.80	21.6	77	200		
1012	35.39	7.14	1.3	79.8	4.70	22.1	61	200		
1020	35.40	7.19	1.3	68.8	4.56	22.5	53	200		
1030	35.42	7.18	1.3	63.7	4.46	23.3	52	200		
1033										sample taken
1040									41	pump remains on
1041	35.33	7.18	1.3	151	4.30	22.8	55	200		
1107	35.52	7.15	1.2	40.7	4.16	23.4	50	275		
1116	35.53	7.14	1.2	33.8	4.14	23.8	52	275		
1134	35.54	7.13	1.2	34.5	4.08	23.7	58	275		
1135										pump off

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0017869.10
DATE: 9/15/06
SAMPLER(S): A. Hough

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP (mV)	Rate (gal/hr)	Pump Depth (ft)	Notes
1022	34.62								48	start pump
1025	35.59	7.60	0.187	480	6.1	18.5	137	4.2		
1028	35.55	7.68	0.188	410	3.4	18.5	123	3.8		
1031	35.43	7.74	0.186	640	3.8	19.0	114	3.8		
1034	35.41	7.76	0.183	450	3.8	19.1	114	3.8		
1037	35.38	7.80	0.167	390	4.0	19.7	117	2.6		
1040	35.29	7.85	0.160	320	4.0	20.1	119	2.6		
1043	35.15	7.88	0.157	290	4.0	20.3	122	2.2		
1047	35.05	7.90	0.155	280	4.0	20.3	123	2.5		
1050	34.99	7.91	0.155	250	4.0	20.4	122	1.8		
1053	34.99	7.90	0.153	230	3.8	20.5	86	1.6		
1056	34.99	7.89	0.152	230	3.8	20.5	72	1.6		
1059	34.99	7.88	0.153	190	3.7	20.5	68	1.6		
1102	34.98	7.87	0.152	190	3.7	20.5	68	1.6		
1105	34.97	7.86	0.151	190	3.8	20.5	69	1.6		
1106	34.96	7.86	0.151	180	3.8	20.6	69	1.6		sample taken
1132	34.34								46	start pump
1134	35.08	7.91	0.137	220	5.4	20.3	143	2.3		
1137	35.02	7.83	0.134	190	4.7	20.4	134	1.4		
1140	34.97	7.81	0.134	170	4.6	20.4	125	1.6		
1143	34.94	7.82	0.132	160	4.6	20.4	121	1.6		
1146	34.93	7.81	0.132	150	4.5	20.4	115	1.6		
1150	34.91	7.82	0.130	110	4.5	20.3	108	1.6		
1154	34.92	7.82	0.130	110	4.4	20.2	103	1.5		
1158	34.90	7.81	0.130	110	4.3	20.3	99	1.5		
1202	34.90	7.81	0.130	80	4.3	20.3	99	1.5		
1206	34.90	7.81	0.129	70	4.3	20.4	98	1.4		
1210	34.89	7.81	0.127	47	4.2	20.6	97	1.5		
1214	34.89	7.82	0.127	39	4.1	20.7	97	1.5		
1218	34.89	7.82	0.126	37	4.1	20.8	98	1.5		
1222	34.88	7.82	0.126	34	4.2	20.8	99	1.5		
1226	34.89	7.81	0.126	31	4.1	20.9	101	1.5		
1229	34.89	7.81	0.125	32	4.1	20.9	102	1.5		
1231	34.88	7.80	0.125	26	4.2	20.9	103	1.5		sample taken

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York

Low-Flow Sampling Data Sheet

WELL ID: MW-42-51

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0017869.10
DATE: 9/18/06
SAMPLER(S): A. Hough

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP (mV)	Rate (gal/hr)	Pump Depth (ft)	Notes
856	35.52								43	
900	35.08	7.29	0.099	240	8.6	18.7	186	2.0		
904	35.00	7.72	0.096	200	7.9	18.6	194	1.6		
908	34.90	7.77	0.094	180	7.7	18.7	201	1.0		
912	34.81	7.77	0.093	150	7.9	18.8	202	0.8		
917	34.74	7.78	0.093	210	7.9	19.1	202	0.6		
921	34.69	7.80	0.093	160	8.0	19.2	201	0.6		
925	34.67	7.83	0.092	160	7.9	19.6	197	0.6		
929	34.64	7.84	0.092	140	1.0	19.7	195	0.4		
934	34.68	7.90	0.092	140	6.8	20.2	190	1.4		
939	34.67	7.94	0.092	200	7.5	20.5	195	1.6		
943	34.71	7.91	0.092	160	7.5	20.5	192	0.8		
947	34.70	7.92	0.091	95	7.4	20.7	191	0.4		
951	34.63	7.90	0.091	85	7.4	20.8	189	0.4		
954	34.61	7.90	0.091	89	7.7	20.8	188	0.4		
959	34.58	7.90	0.091	120	7.4	20.9	187	0.6		
1003	34.57	7.90	0.091	130	7.3	21.1	187	0.4		
1008	34.56	7.89	0.092	110	7.3	21.2	185	0.4		
1012	34.57	7.88	0.092	110	7.3	21.3	186	0.4		
1016	34.56	7.86	0.092	94	7.4	21.5	184	0.4		
1020	34.55	7.86	0.092	80	7.3	21.6	182	0.4		
1025	34.55	7.89	0.090	110	7.5	21.9	184	0.4		
1029	34.56	7.86	0.092	97	7.3	22.0	184	0.4		
1034										pump turned off for 15 min
1054	34.90	7.95	0.094	91	7.9	22.2	198	0.4		
1058	34.79	7.87	0.092	70	7.5	22.2	189	0.4		
1102	34.69	7.86	0.092	55	7.4	22.1	187	0.4		
1105	34.64	7.85	0.092	45	7.5	22.1	186	0.4		
1109	34.63	7.85	0.092	49	7.5	22.1	184	0.4		
1112	34.60	7.86	0.092	38	7.4	22.2	184	0.4		
1115	34.59	7.85	0.092	28	7.5	22.1	183	0.4		
1118	34.57	7.85	0.092	26	7.3	22.2	182	0.4		
1122	34.58	7.85	0.092	18	7.3	22.3	181	0.4		
1125	34.57	7.85	0.092	12	7.3	22.3	180	0.4		
1128	34.57	7.86	0.092	13	7.2	22.5	180	0.4		
1130										pump turned off for 4 min
1136	35.14	7.81	0.091	20	6.4	24.6	159	0.4		
1139	35.09	7.80	0.091	16	6.3	24.9	151	0.4		
1142	35.03	7.79	0.091	15	6.2	24.8	147	0.4		
1145	34.98	7.79	0.090	8	6.0	24.5	146	0.4		
1148	34.89	7.75	0.090	9	6.0	24.3	147	0.4		
1151	34.82	7.78	0.090	8	6.0	24.2	148	0.4		pump turned off for 42 min
1237	35.21	7.87	0.090	5	7.6	21.8	212	0.4		sample taken
1342	34.19								41	
1344	35.25	7.78	0.090	42	6.7	20.8	218	1.0		
1347	35.11	7.76	0.090	21	6.8	21.3	214	1.5		
1350	35.04	7.69	0.090	29	6.7	22.2	214	1.7		
1353	34.92	7.65	0.090	53	6.7	22.2	209	1.1		
1356	34.89	7.64	0.090	25	6.6	22.6	208	1.2		
1400	34.85	7.61	0.090	17	6.5	23.1	200	0.6		
1403	34.83	7.60	0.090	52	6.4	23.4	198	1.2		
1406	34.74	7.69	0.090	33	6.4	23.5	188	0.6		
1409	34.68	7.71	0.090	33	6.5	23.7	184	0.6		
1412	34.62	7.75	0.090	0	6.5	23.9	182	0.4		
1415	34.62	7.75	0.090	23	6.2	24.3	181	0.4		
1418	34.61	7.75	0.090	12	6.4	24.3	181	0.4		
1423	34.73	7.74	0.090	1	6.3	24.6	182	0.4		
1426	35.38	7.75	0.090	0	6.2	25.3	176	0.4		
1429	35.43	7.73	0.090	0	6.3	25.9	172	0.4		
1432	35.80	7.73	0.090	0	6.5	25.8	169	0.4		
1435	35.75	7.69	0.090	0	6.1	24.8	167	0.4		sample taken

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0017869.10
DATE: 11/16/06 - 11/17/06
SAMPLER(S): S. Covelli

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
11/16/2006										
833	34.89							0.0	48	
845	34.87							0.0		pump on
855	35.24	7.86	127.0	>1000	1.90	17.5	-60	1.0		increased flow rate
900	35.20	7.86	132.0	710	1.60	18.8	-63	1.4		increased flow rate
907	35.25	7.88	122.0	740	1.60	7.7	-63	2.5		
930	35.39	8.04	99.9	340	3.80	20.3	30	2.5		
948	35.43	7.99	97.3	240	4.30	21.1	63	2.5		
1010	35.41	7.97	93.3	170	4.70	21.3	88	2.6		
1030	35.43	7.94	86.4	160	4.70	21.5	103	3.0		
1047	35.55	7.93	86.4	150	4.70	22.0	109	3.0		
1052										Note 1
1114										pump off
1135	34.87								45.5	
1139										pump on
1141	35.29									flow meter malfunction
1147	35.48	7.97	88.0	370	4.70	20.2	79	3.0		
1200	35.52	7.99	85.1	220	4.60	22.1	66	3.1		
1258	35.56	7.91	85.8	150	4.60	23.0	113	3.4		
1302										Note 1
1330										pump off
1344	34.81								43	
1346										pump on
1348	35.25									
1352	35.25	7.98	87.9	210	4.90	19.6	145	2.0		
1355	35.27	7.93	87.8	200	4.80	19.9	136	2.8		
1400	35.40	7.89	84.8	170	4.70	22.3	122	3.0		
1414	35.55	7.91	85.2	140	4.80	23.6	117	3.5		
1421	35.62	7.92	88.6	140	4.90	23.6	117	3.5		
1424										Note 1
11/17/2006										
800	34.52								41	pump on
804	35.24	8.32	80.7	200	4.90	16.9	198	2.0		
811	35.28	8.10	77.8	190	4.70	19.0	192	3.1		
818	35.32	8.03	78.9	140	4.90	21.8	182	3.5		
826	35.35	8.03	80.4	130	5.00	22.4	178	3.4		
835	35.39	8.03	82.4	130	5.00	22.4	174	3.4		
842	35.40	8.03	83.0	130	5.00	22.7	173	3.4		
844										Note 1

NOTES AND OBSERVATIONS:

1- Three-way split sample taken for IPEC, NRC, and NYS. Bulk sample was drawn into a gallon bottle and divided into three 1 liter bottles.

GZA GeoEnvironmental of New York

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0017869.10
DATE: 1/11/07
SAMPLER(S): Sara Covelli / Angela Hough

WATER QUALITY:

Time	Water Elevation (ft asl)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
LOW TIDE										
11:06	-	-	-	-	-	-	-	2.5	28.0	pump on
11:26	-0.224	7.68	90.000	120	5.50	15.30	75	2.5		
11:29	-0.270	7.20	90.000	99	4.50	16.50	19	3.0		
11:32	-0.158	7.32	90.000	97	4.30	16.80	7	2.0		
11:34	-0.191	7.36	90.000	96	4.20	16.70	0	2.0		
11:35	-	-	-	-	-	-	-	-		sample collected
HIGH TIDE										
16:20	-	-	-	-	-	-	-	-	28.0	pump on
16:47	1.014	7.48	99.900	93	4.30	16.90	-76	3.0		salinity 0.0
16:55	1.052	7.56	90.000	93	4.30	16.80	0	3.0		salinity 0.1
17:00	1.004	7.63	90.000	96	4.20	16.9	-63	3		salinity 0.0
17:02	-	-	-	-	-	-	-	-		sample collected

NOTES AND OBSERVATIONS:

Low Tide occurred at approximately 10:34 and High Tide occurred at approximately 16:05. Low and High Tide times were determined based on water elevation readings from stilling well HR-1.

GZA GeoEnvironmental of New York

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0017869.10
DATE: 1/11/07
SAMPLER(S): Sara Covelli / Angela Hough

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
LOW TIDE										
11:16	15.70	-	-	-	-	-	-	-	20.0	pump on
11:41	15.76	7.38	90.0	95	4.1	16.3	-16	4.2		
11:44	15.65	7.42	90.0	93	3.4	18.9	-40	4.2		
11:47	15.64	7.47	90.0	93	3.2	19.9	-39	4.2		
HIGH TIDE										
16:23	13.93	-	-	-	-	-	-	-	20.0	pump on
16:24	14.03	7.80	150.0	120	2.4	14.5	-128	4.0		salinity 0.0
16:51	13.37	7.52	90.0	93	4.3	17.4	-72	3.0		salinity 0.1
16:59	13.40	7.53	90.0	95	4.1	16.8	-67	3.0		salinity 0.1
17:05	13.44	7.79	94.6	95	4.0	16.2	-37	3.0		salinity 0.0
17:08	-	-	-	-	-	-	-	-		sample collected

NOTES AND OBSERVATIONS:

Low Tide occurred at approximately 10:34 and High Tide occurred at approximately 16:05. Low and High Tide times were determined based on water elevation readings from stilling well HR-1.

GZA GeoEnvironmental of New York

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0017869.10
DATE: 10/2/06
SAMPLER(S): A. Hough

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP (mV)	Rate (ml/min)	Pump Depth (ft)	Notes
818	12.35								191	
947	13.47	7.21	0.090	0	5.9	17.9	-16	--		start pump
952	13.42	6.99	0.090	0	1.9	17.6	14	--		
956	13.42	7.13	0.097	0	1.6	17.9	4	--		
1000	13.43	7.21	0.096	0	1.5	18.1	-28	--		
1004	13.47	7.26	0.096	0	1.4	18.2	-54	146.0		
1008	13.50	7.27	0.096	4	1.2	18.6	-79	146.0		
1012	13.51	7.28	0.096	0	0.9	18.8	-96	146.0		
1016	13.53	7.29	0.096	2	0.9	18.8	-114	--		
1020	13.57	7.28	0.097	3	0.6	18.7	-125	--		
1024	13.58	7.27	0.096	0	0.5	18.7	-130	--		
1028	13.60	7.27	0.096	0	0.5	18.9	-135	--		
1032	13.62	7.27	0.096	0	0.5	19.1	-134	--		
1036	13.64	7.27	0.096	0	0.5	19.3	-136	--		sample taken
1155	13.99	7.28	0.098	89	4.2	20.2	13	100.0	93	start pump
1159	14.07	7.01	0.099	11	0.7	17.2	-66	400.0		
1204	14.11	6.87	0.099	0	3.7	18.5	-17	400.0		
1208	14.14	6.92	0.099	0	0.5	17.7	-37	200.0		
1212	14.16	7.14	0.099	0	0.3	18.2	-56	--		
1215	14.19	7.24	0.099	0	0.3	17.8	-66	--		
1216										pump shut off for 30 min
1246	14.22	7.31	0.099	0	2.9	20.6	61	--		
1250	14.27	7.21	0.099	0	2.5	20.4	43	--		
1254	14.30	7.16	0.099	0	2.2	20.2	38	--		sample taken
1333	14.28	7.27	0.099	0	2.1	20.2	22	200.0	53.5	start pump
1337	14.37	7.18	0.099	0	1.0	18.7	-88	--		
1342	14.39	7.15	0.099	0	0.6	18.9	-97	--		
1346	14.40	7.09	0.099	0	0.3	19.1	-95	--		
1350	14.41	7.07	0.099	0	0.4	19.3	-93	--		
1354	14.42	7.09	0.099	0	0.3	18.7	-99	--		sample taken

NOTES AND OBSERVATIONS:

APPENDIX L – HYDROGRAPHS

Groundwater Monitoring Well Hydrographs

Well Groupings:

WELL ID	Group ¹	Distance to Discharge canal (ft) ²
MW-30-69	1	230
30-84	1	230
MW-31-49	1	287
31-63	1	287
31-85	1	287
I-2	1	360

MW-32-62	2	259
32-92	2	259
32-140	2	259
32-160	2	259
32-197	2	259

MW-39	3	583
MW-42-49	3	363
42-78	3	363

MW-47-56	4	367
47-80	4	366
MW-53-82	4	225
53-120	4	225
MW-56-53	4	346
56-83	4	346

MW-33	5	147
MW-34	5	149
MW-35	5	149
MW-111	5	104

Well Nomenclature: example: MW 49- 26*

MW = Monitoring Well

49 = Borehole Number Designation

26 = Screen Depth (for nested piezometers) or Port Depth (for Waterloo intervals)

* Wells without suffix indicating Screen/Port Depth are open bedrock wells or single-screened overburden wells

*** In nested wells, Screen Depth indicates depth of bottom of well screen from top of casing and is rounded to the nearest foot

**** In Waterloo wells, Port Depth suffix indicates depth of top of sampling port from top of casing and is rounded to the nearest foot

Notes:

- 1. Monitoring wells are grouped based on close proximity to each other and selected Site features.
- 2. Distance to Discharge Canal is expressed in horizontal feet east of the discharge canal. Negative distances indicate horizontal feet west of the canal.

WELL ID	Group	Distance to Discharge canal (ft)
MW-36-24	6	2
36-40	6	2
36-52	6	2
MW-50-42	6	12
50-66	6	12
MW-55-24	6	43
55-35	6	43
55-54	6	43
MW-58-26	6	45
58-65	6	45

MW-54	7	83
MW-57-11	7	159
57-20	7	159
57-45	7	159
MW-108	7	116

MW-37-22	8	-3
37-32	8	-3
37-40	8	-3
37-57	8	-3
MW-52	8	-90
52-12	8	-90

well screen in unconsolidated deposit {soil backfill/natural soil }

WELL ID	Group	Distance to Discharge canal (ft)
MW-49-26	9	-24
49-42	9	-22
49-65	9	-22
MW-59-32	9	-12
59-45	9	-12
59-68	9	-12
MW-66	9	-94

MW-60	10	-206
MW-61	10	-104
MW-62	10	-104
62-18	10	-104
62-37	10	-104
MW-63	10	-110
63-18	10	-109
63-34	10	-109

MW-51	11	815
MW-65-48	11	631
65-80	11	631
MW-107	11	1184

WELL ID	Group	Distance to Discharge canal (ft)
MW-41-13	12	559
41-40	12	559
41-63	12	559
MW-43-28	12	607
43-62	12	607

MW-44-67	13	368
44-102	13	368
MW-45-42	13	471
45-61	13	471

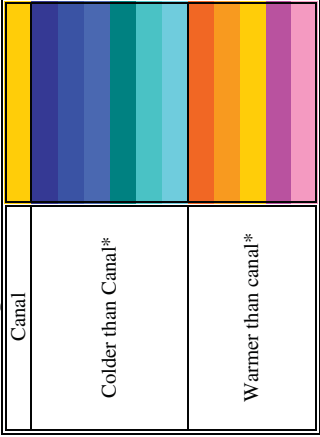
MW-40	14	761
MW-46	14	330

U3-1	15	18
U3-2	15	16
U3-3	15	14

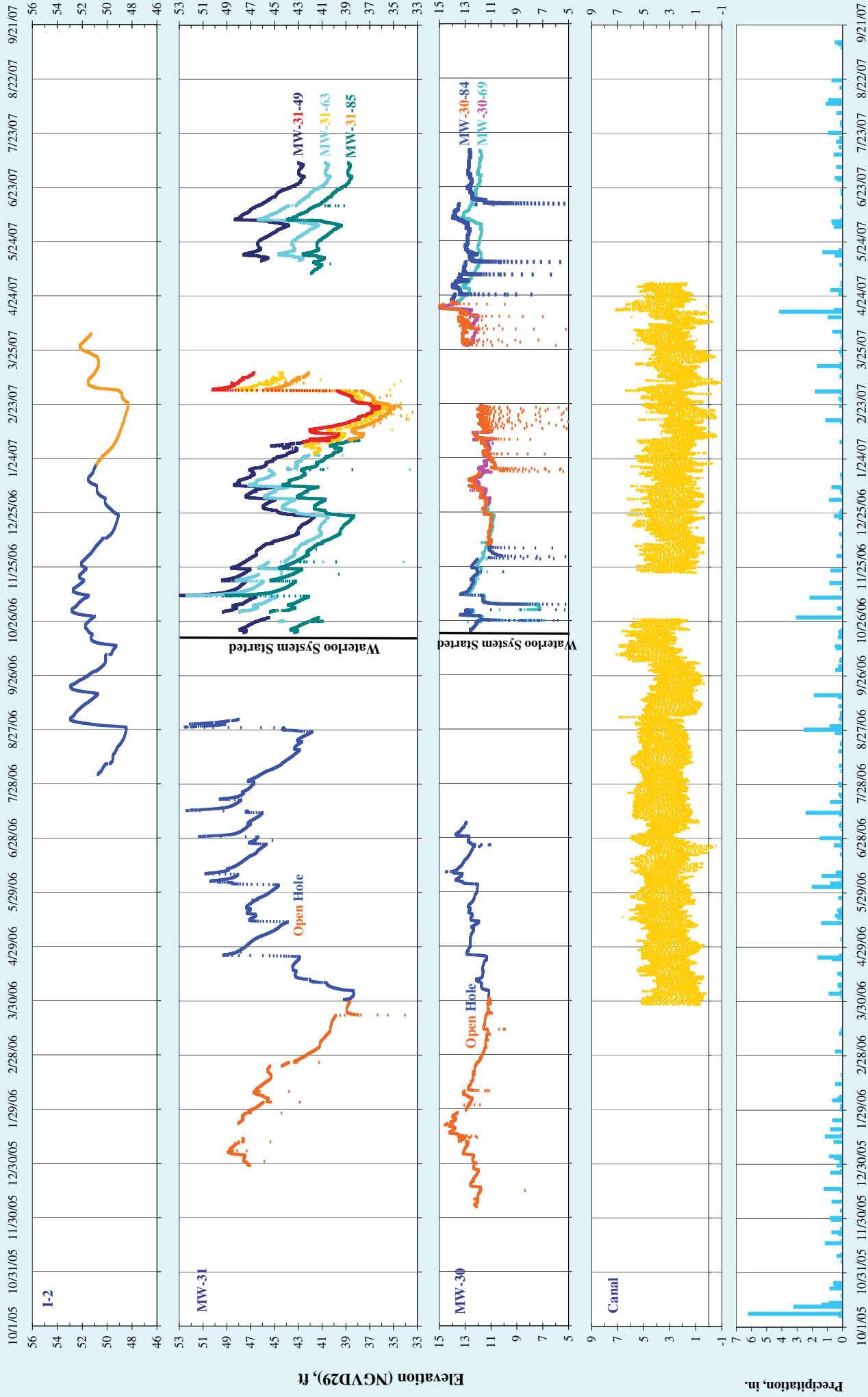
MW-109	16	45
U3-T1	16	100
U3-T2	16	112

MW-38	17	28
MW-48-23	17	43
48-37	17	43
U3-40	17	23
U3-4S	17	24

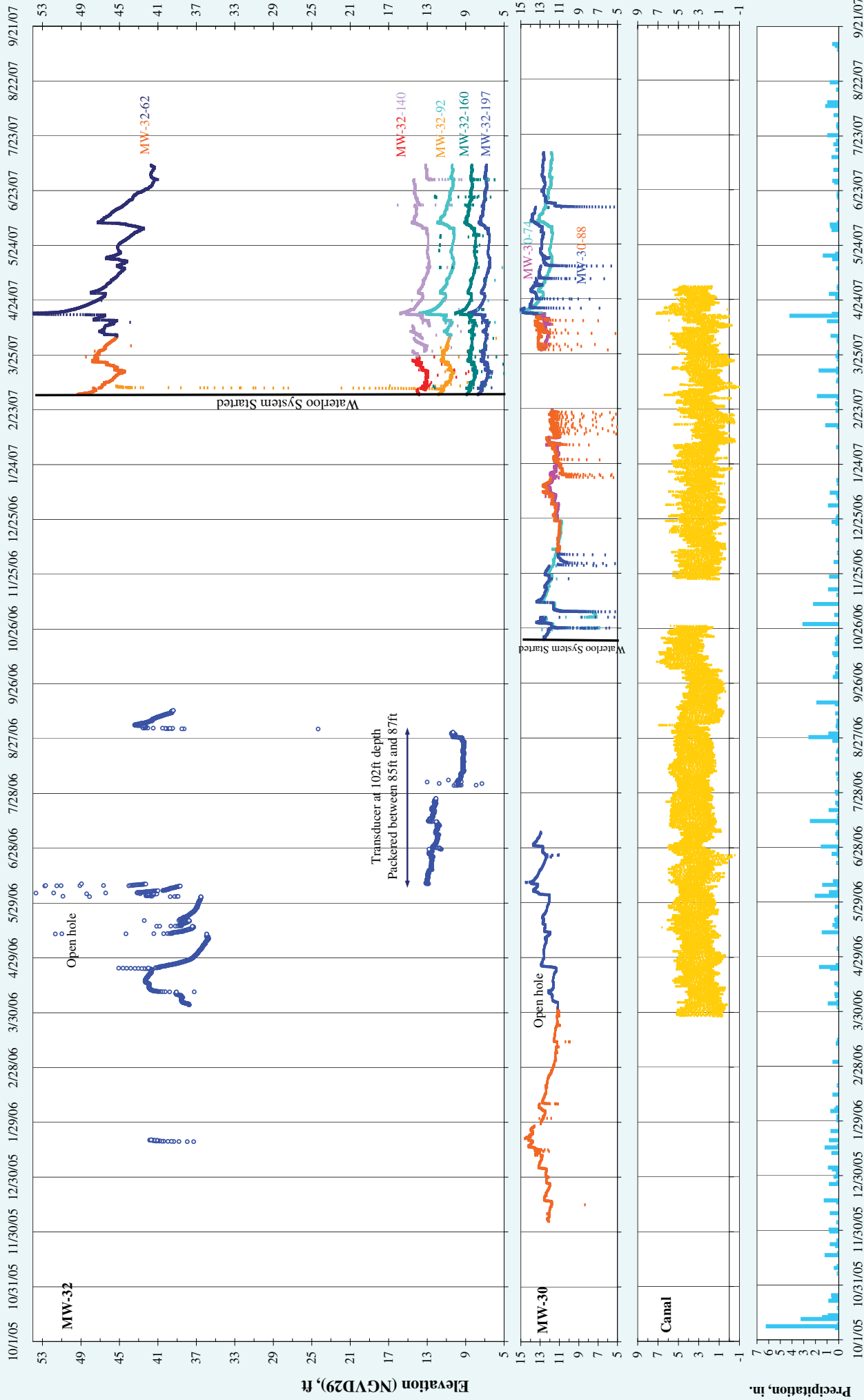
Legend: Water Level Plots



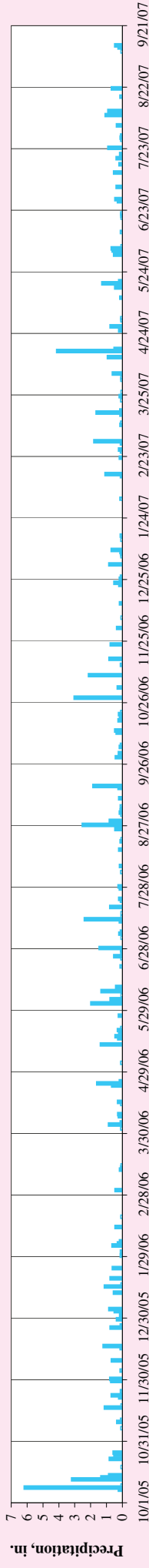
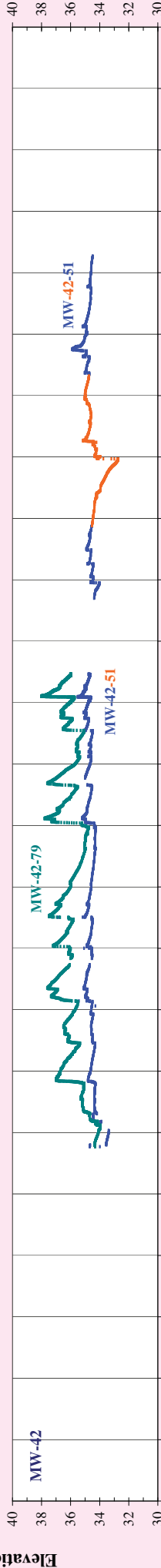
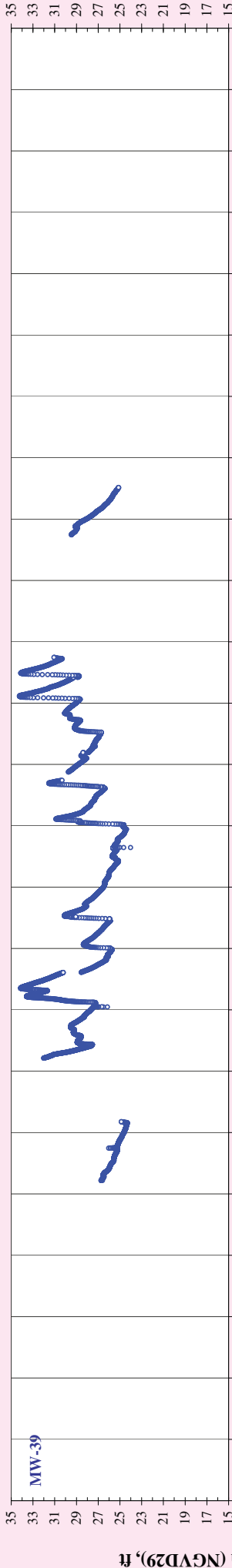
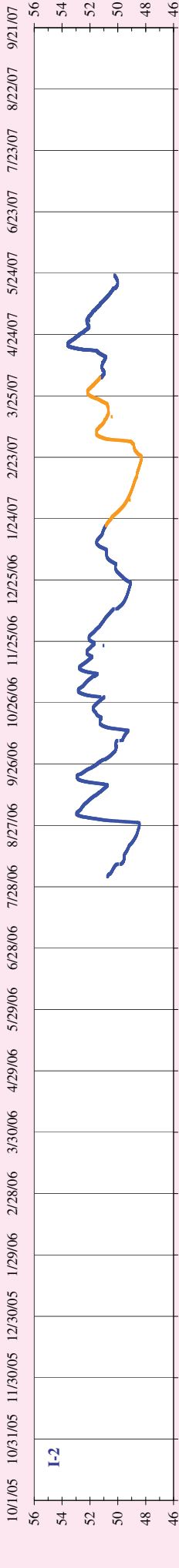
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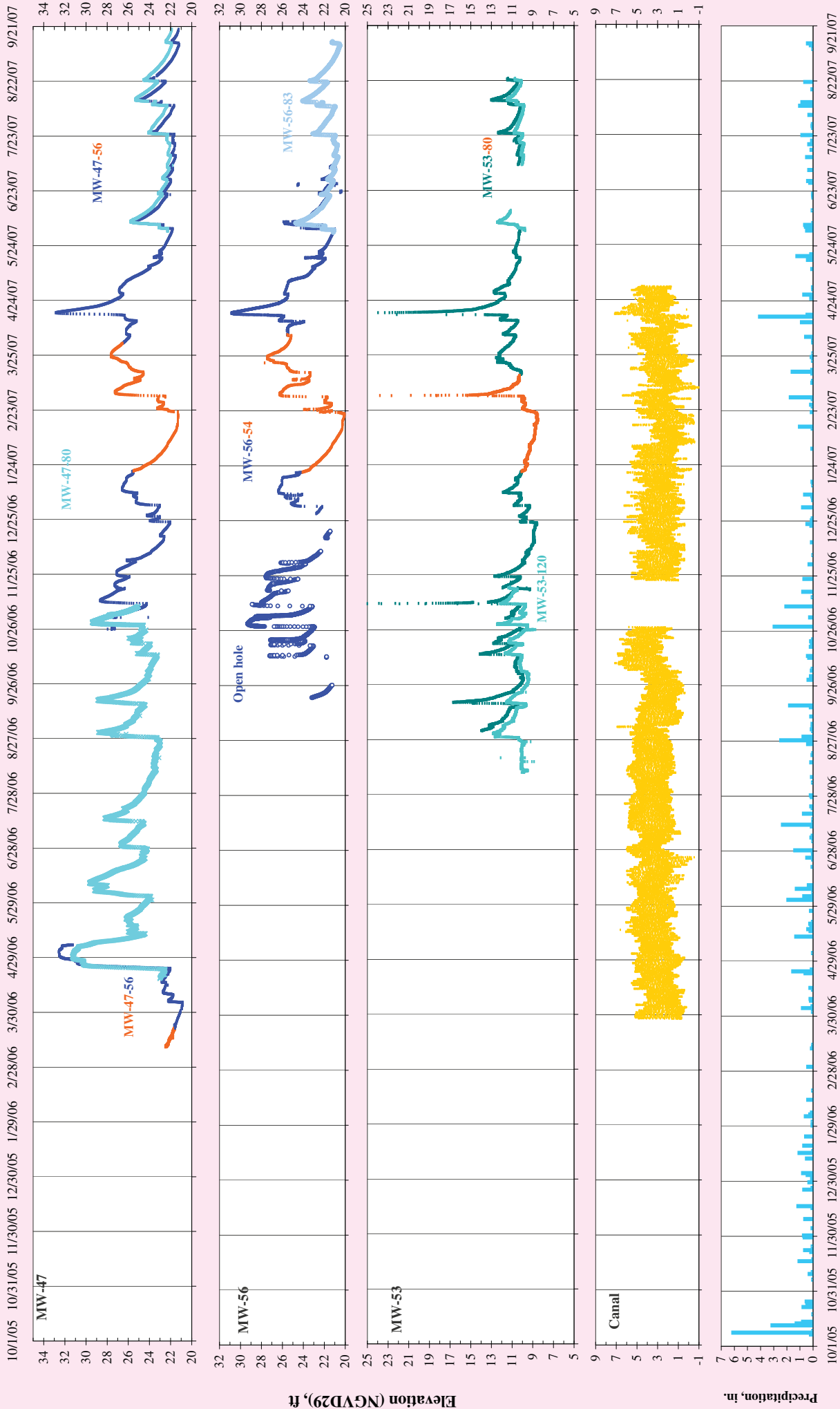
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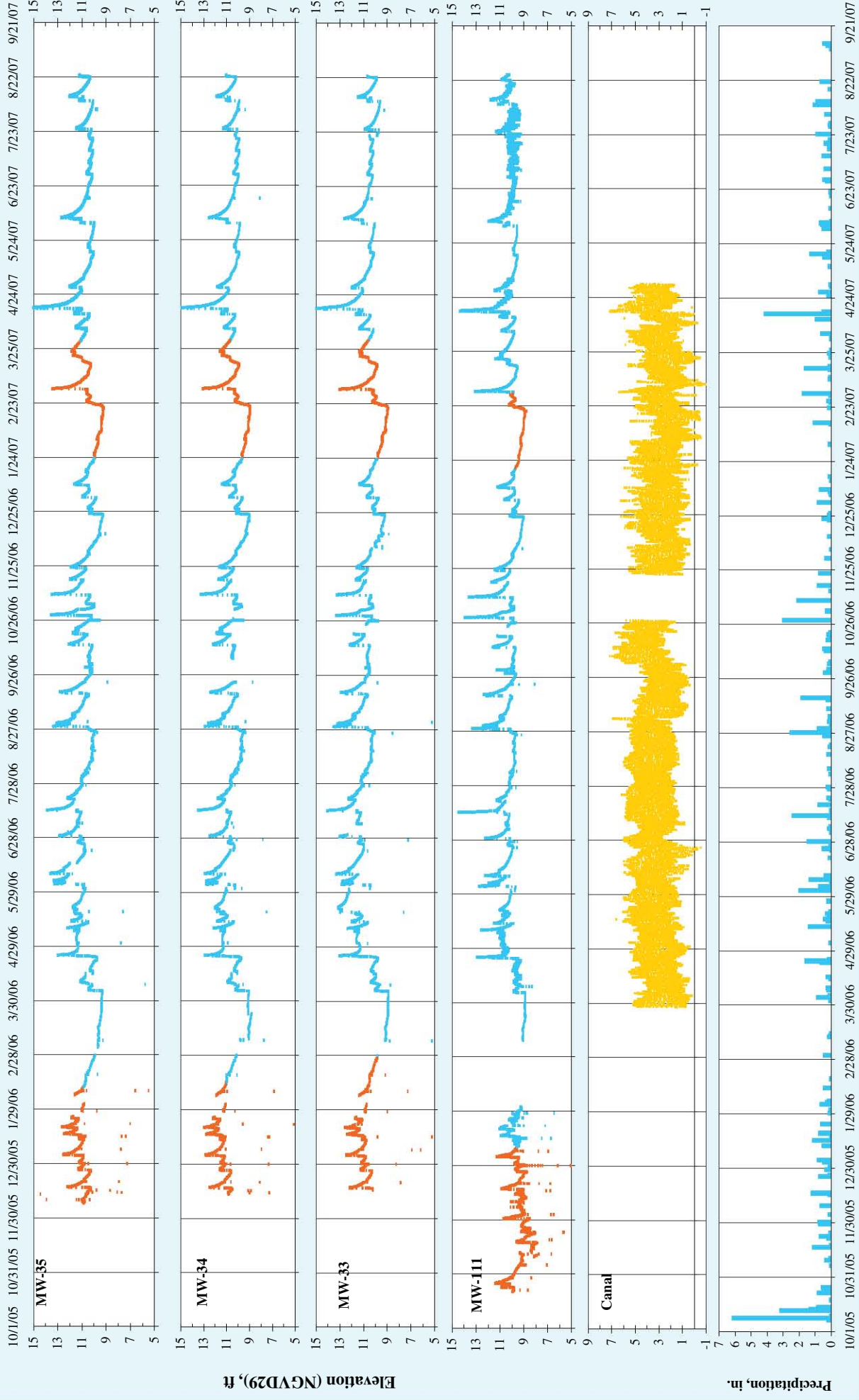
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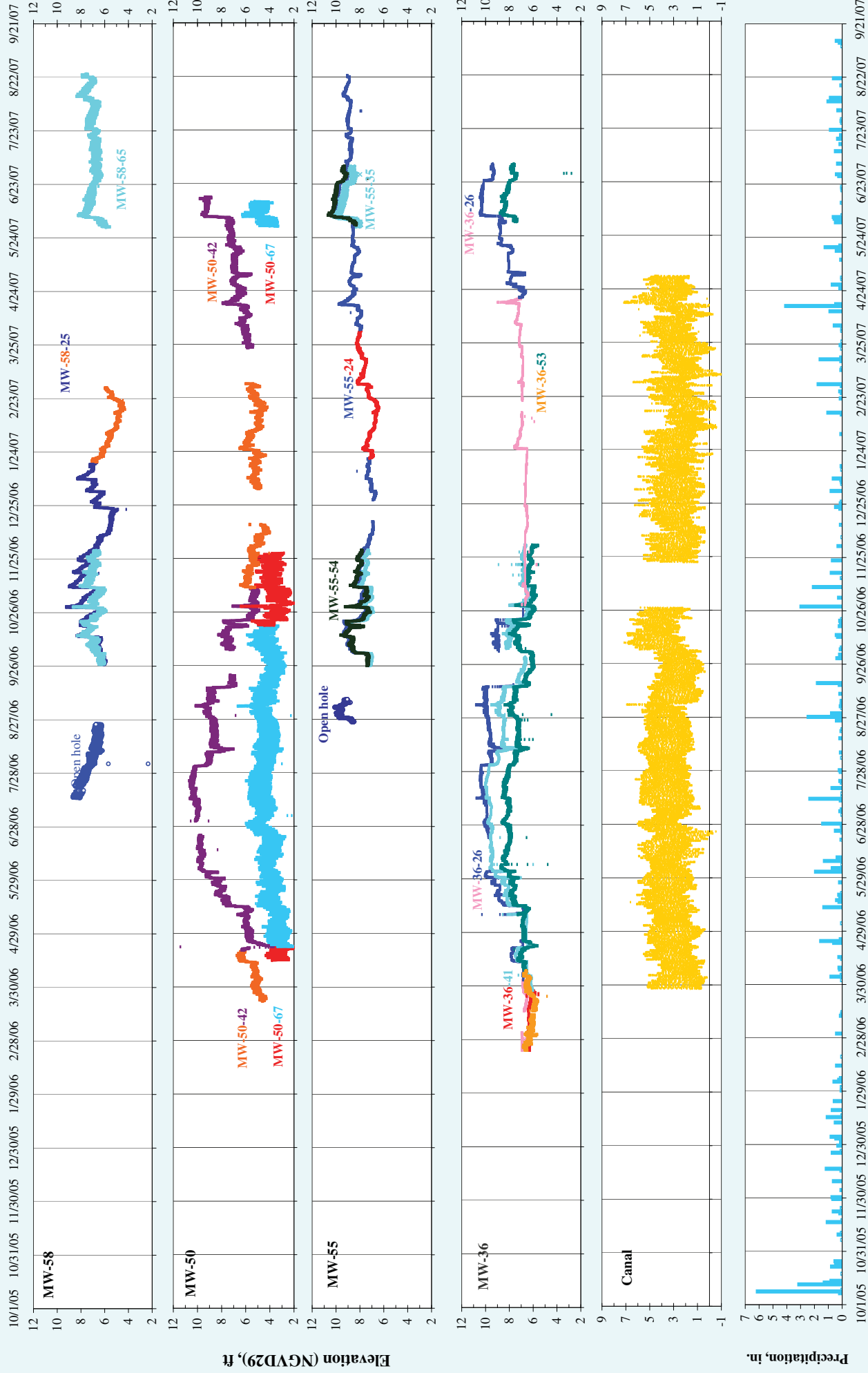
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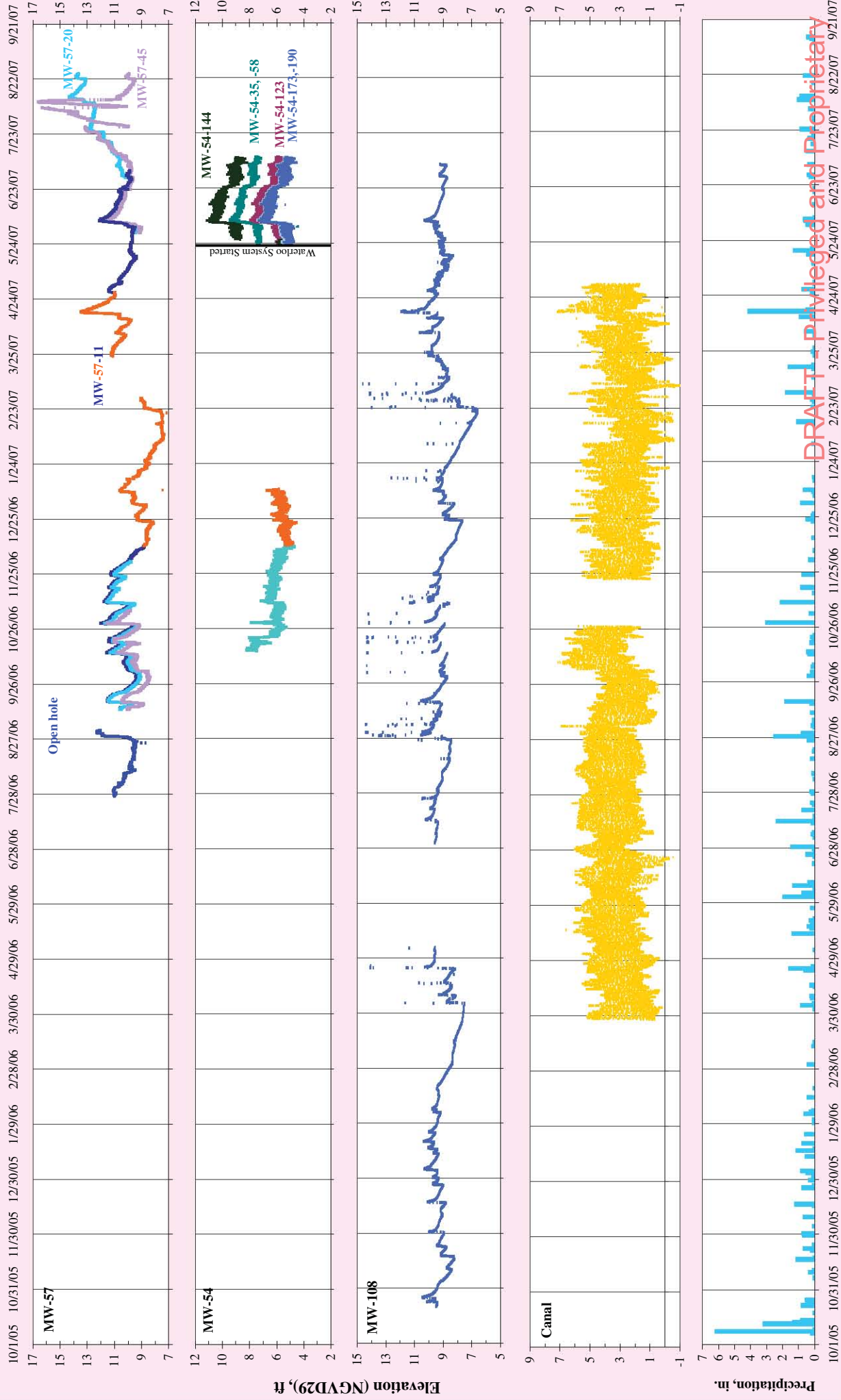
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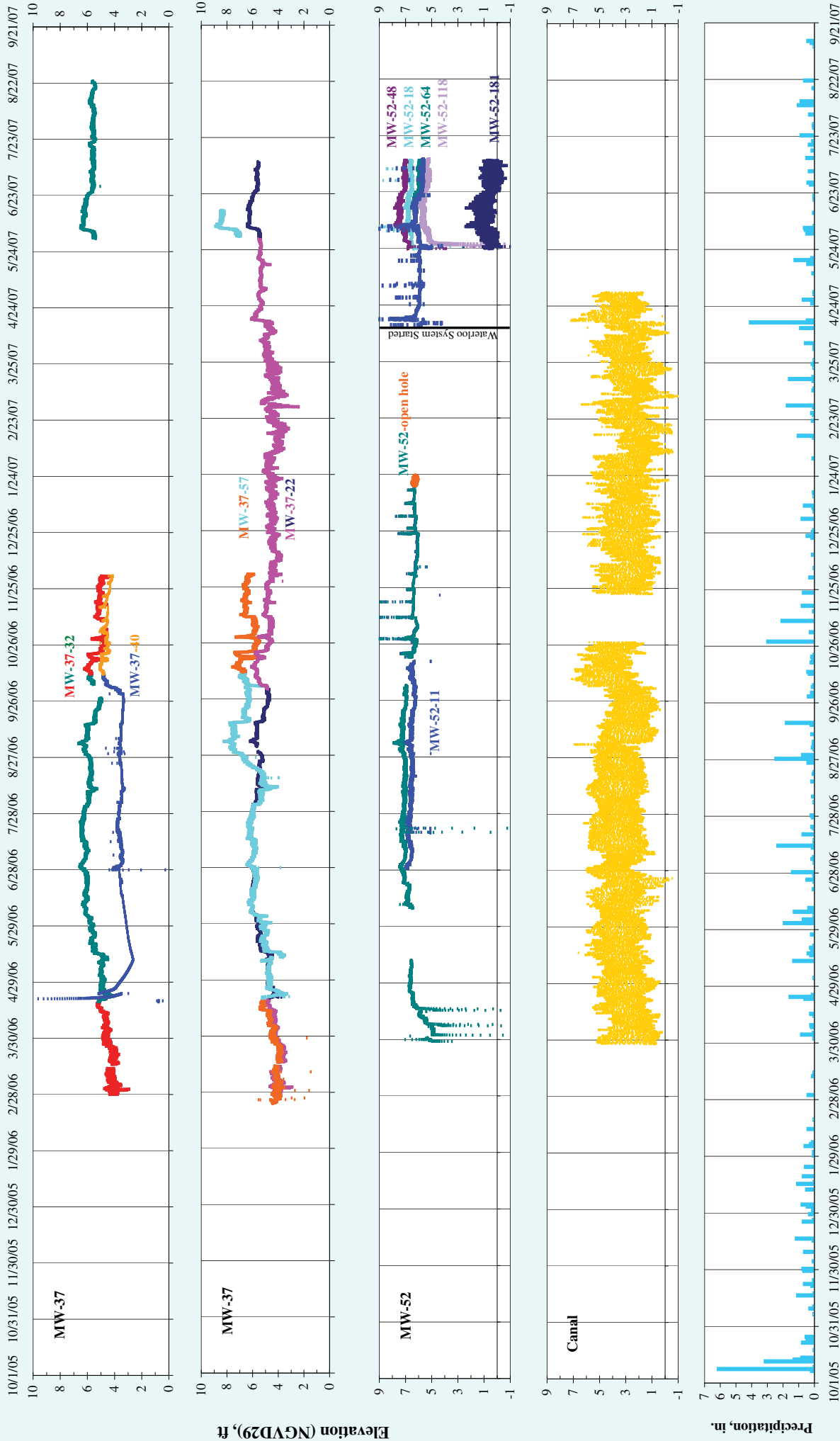
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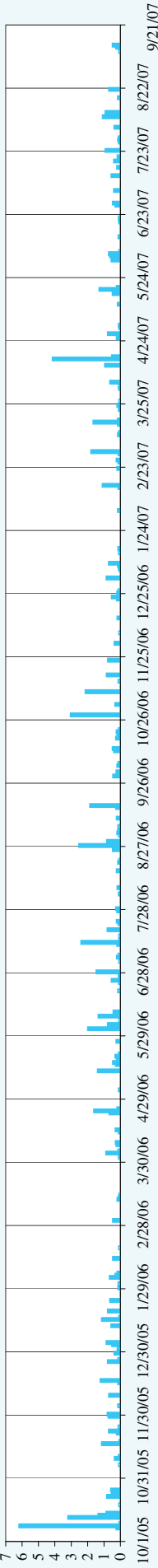
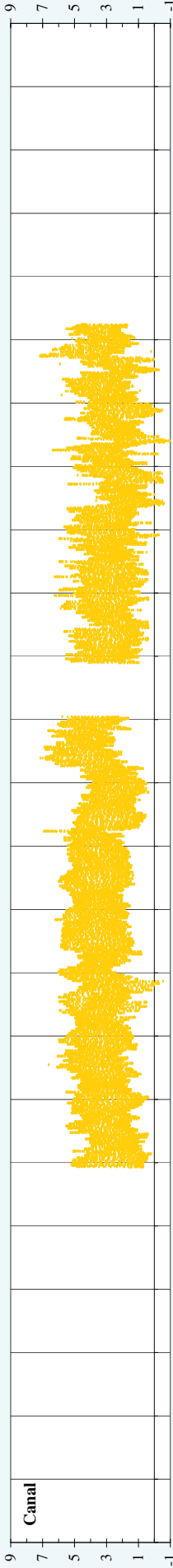
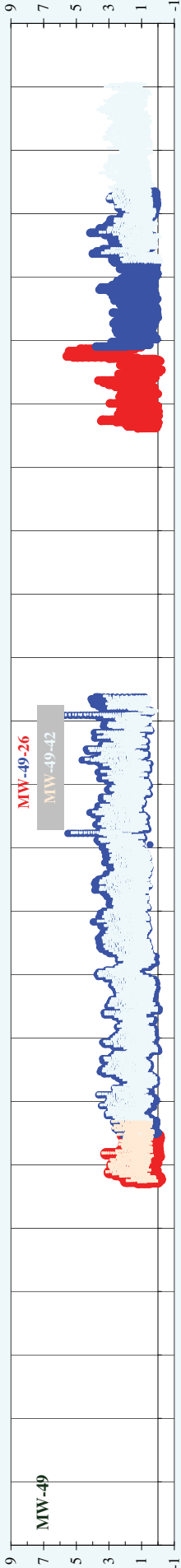
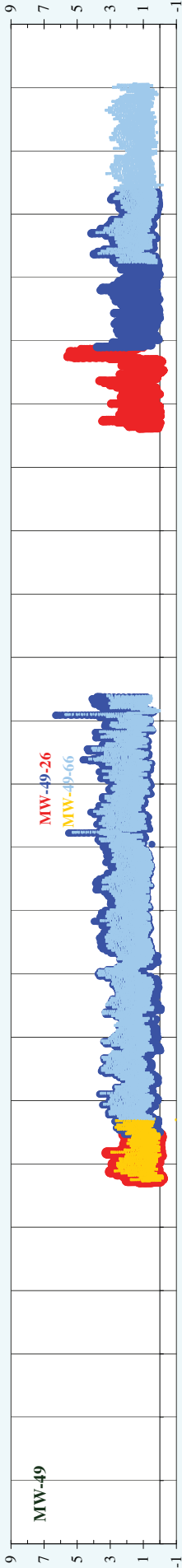
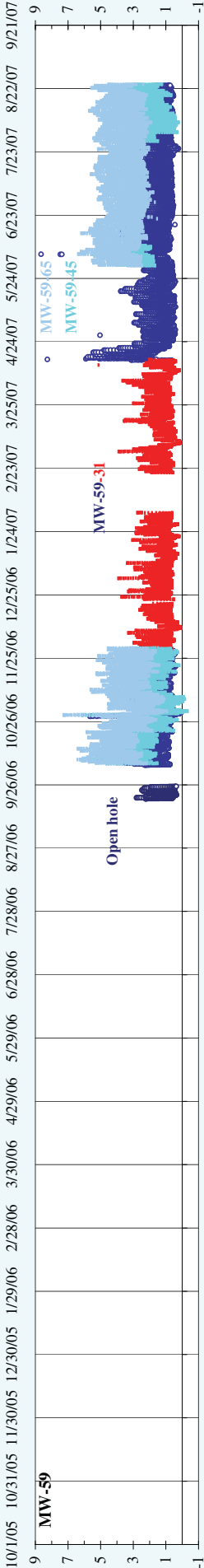
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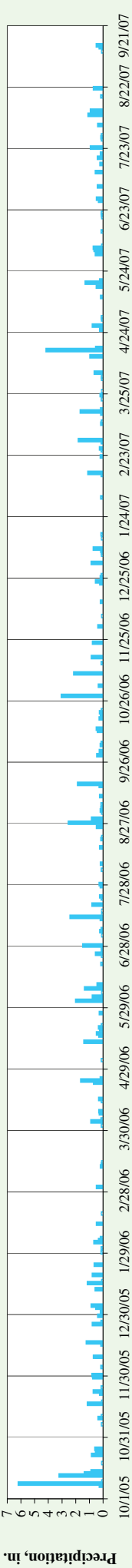
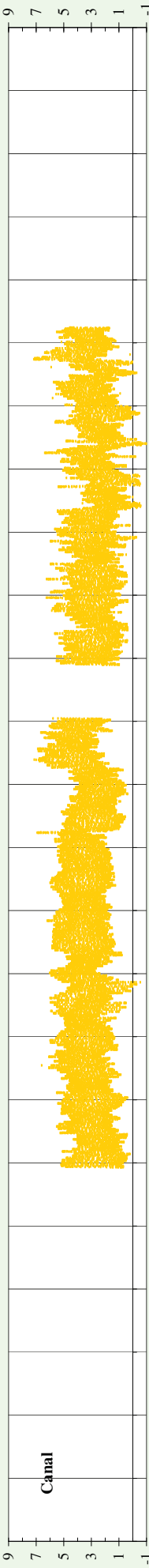
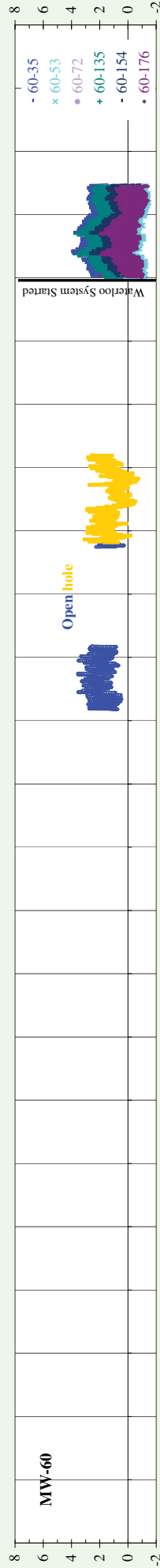
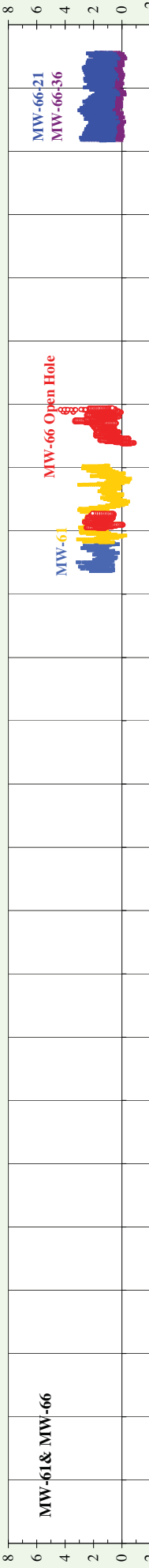
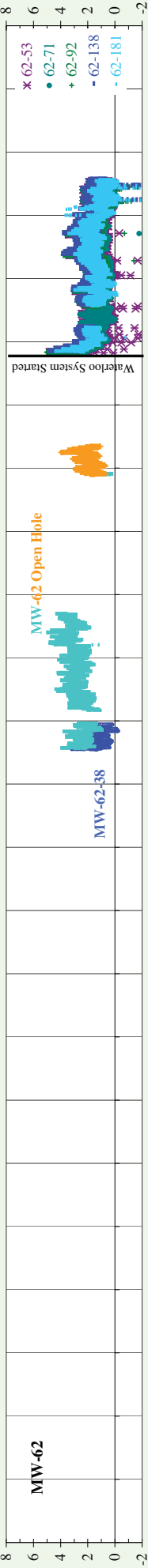
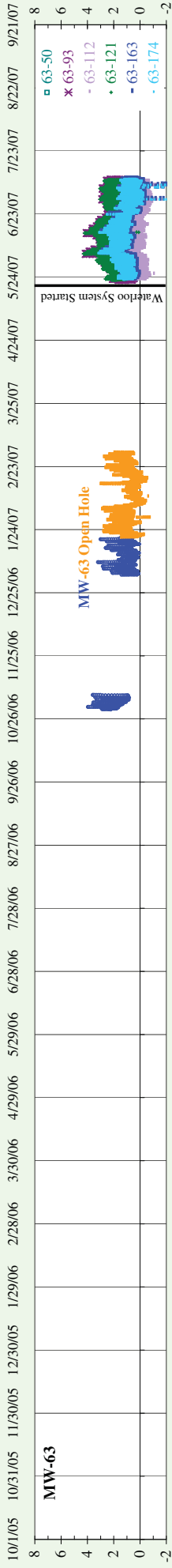
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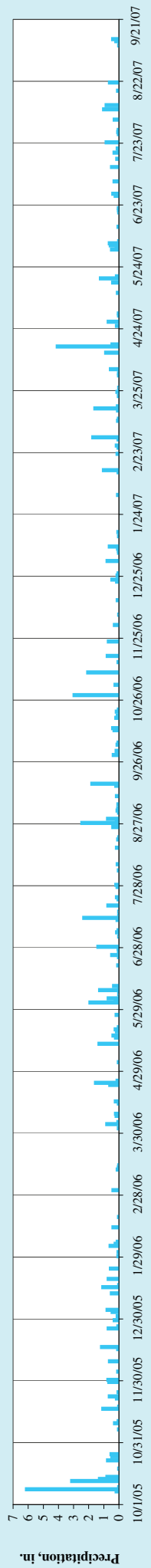
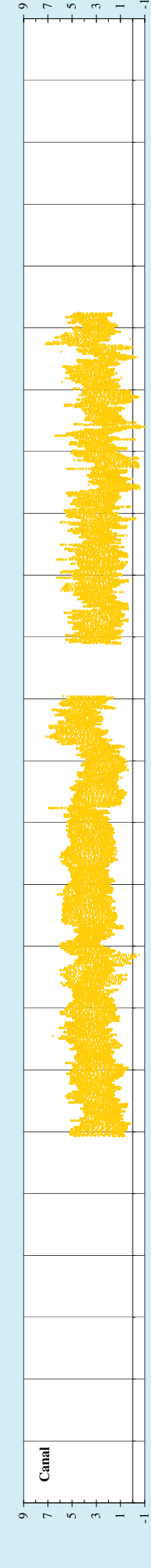
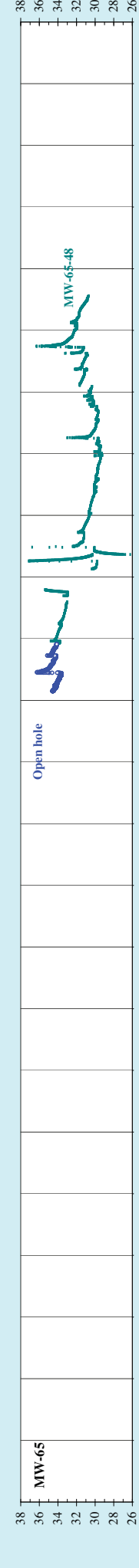
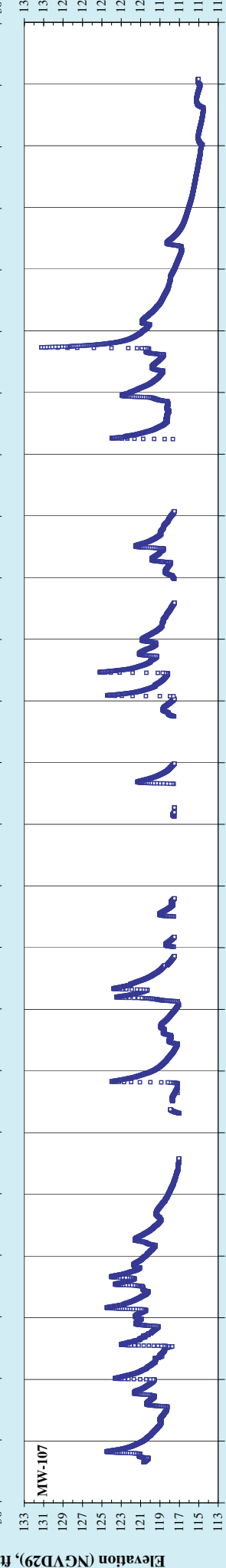
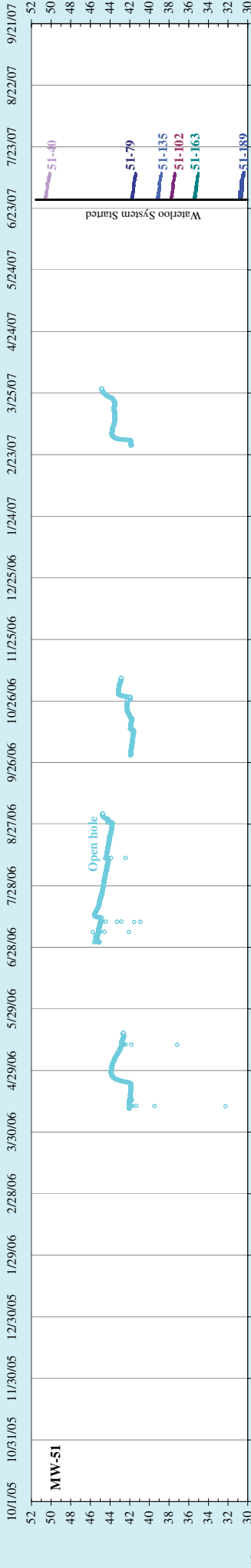
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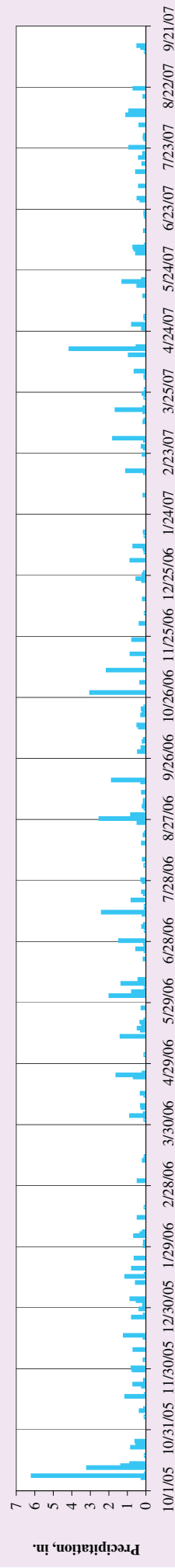
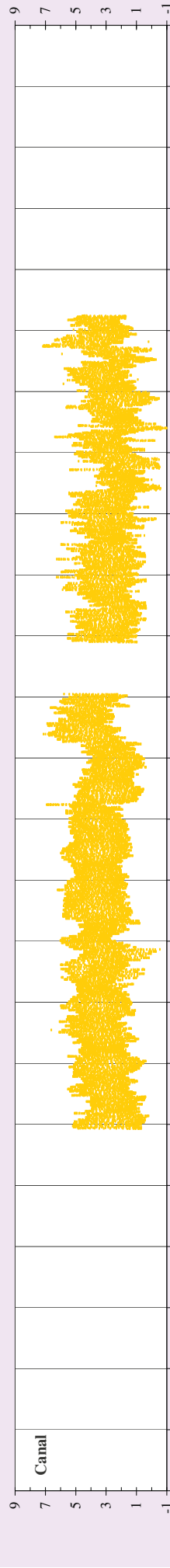
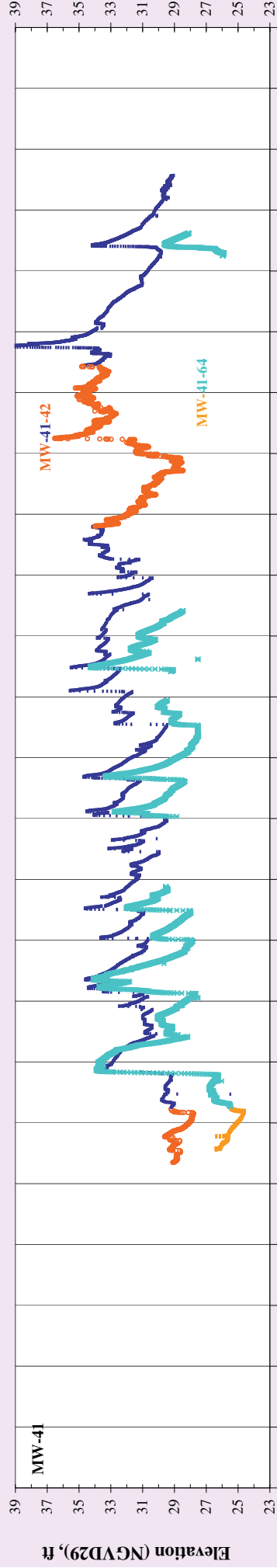
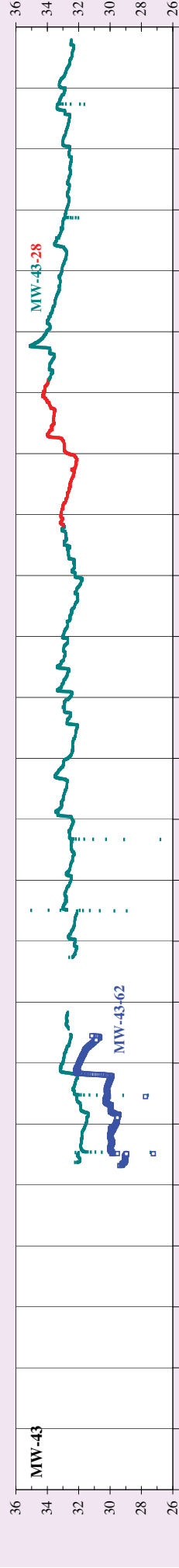
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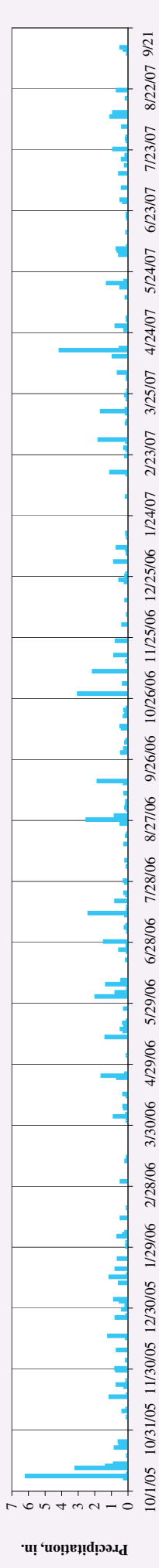
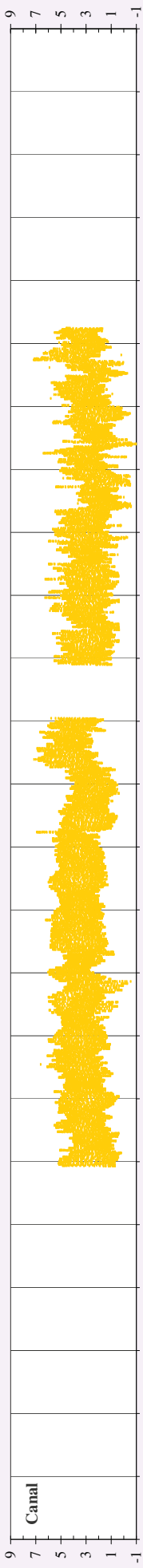
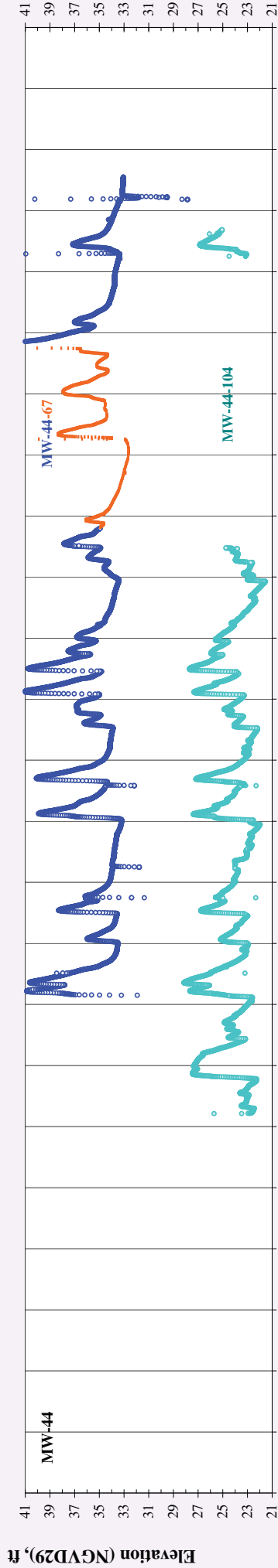
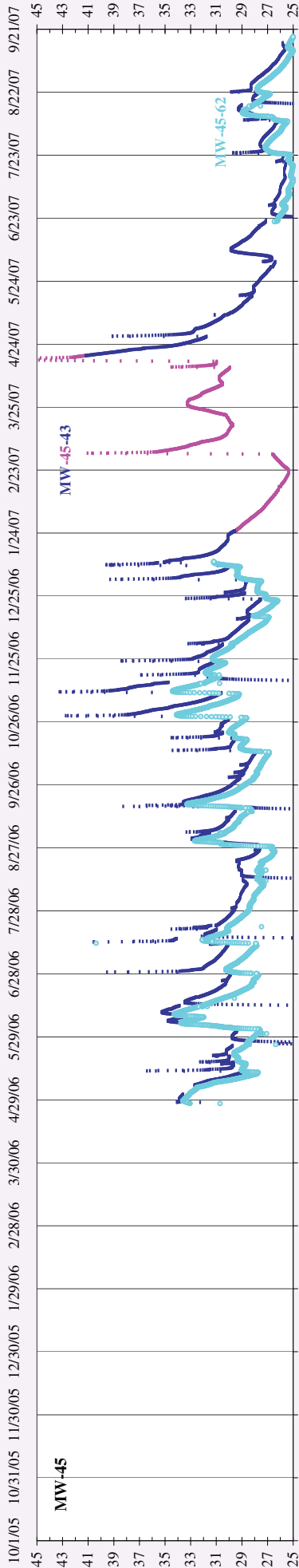
Well Group 11



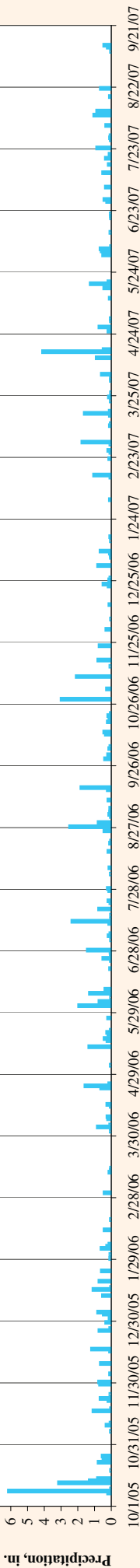
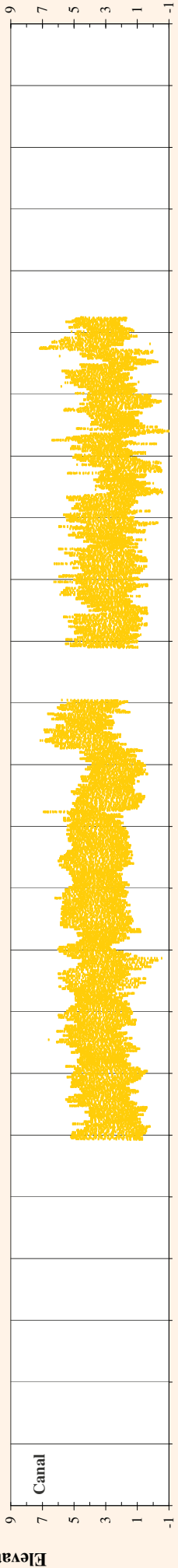
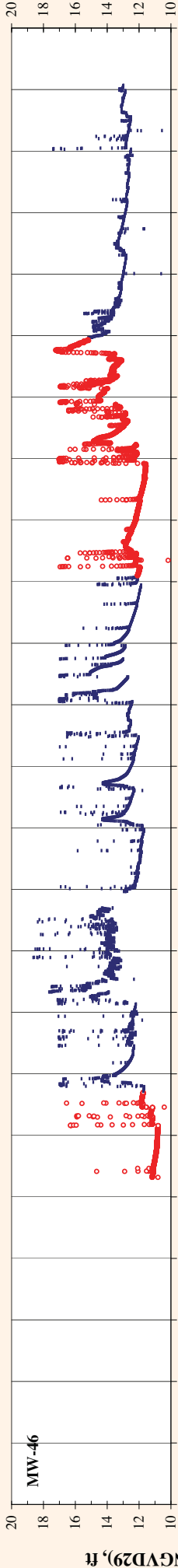
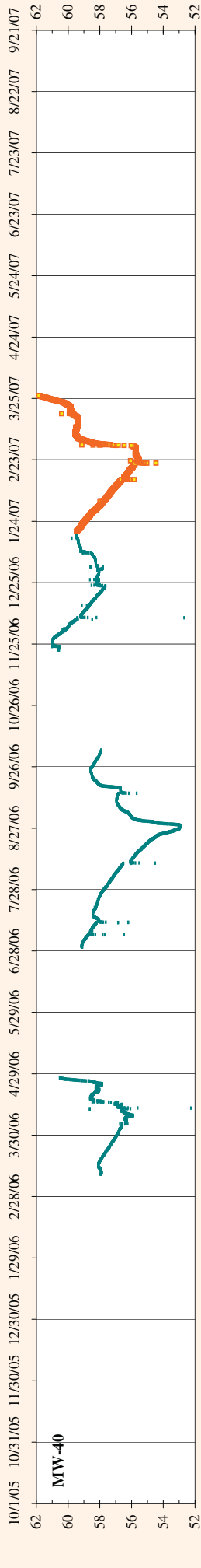
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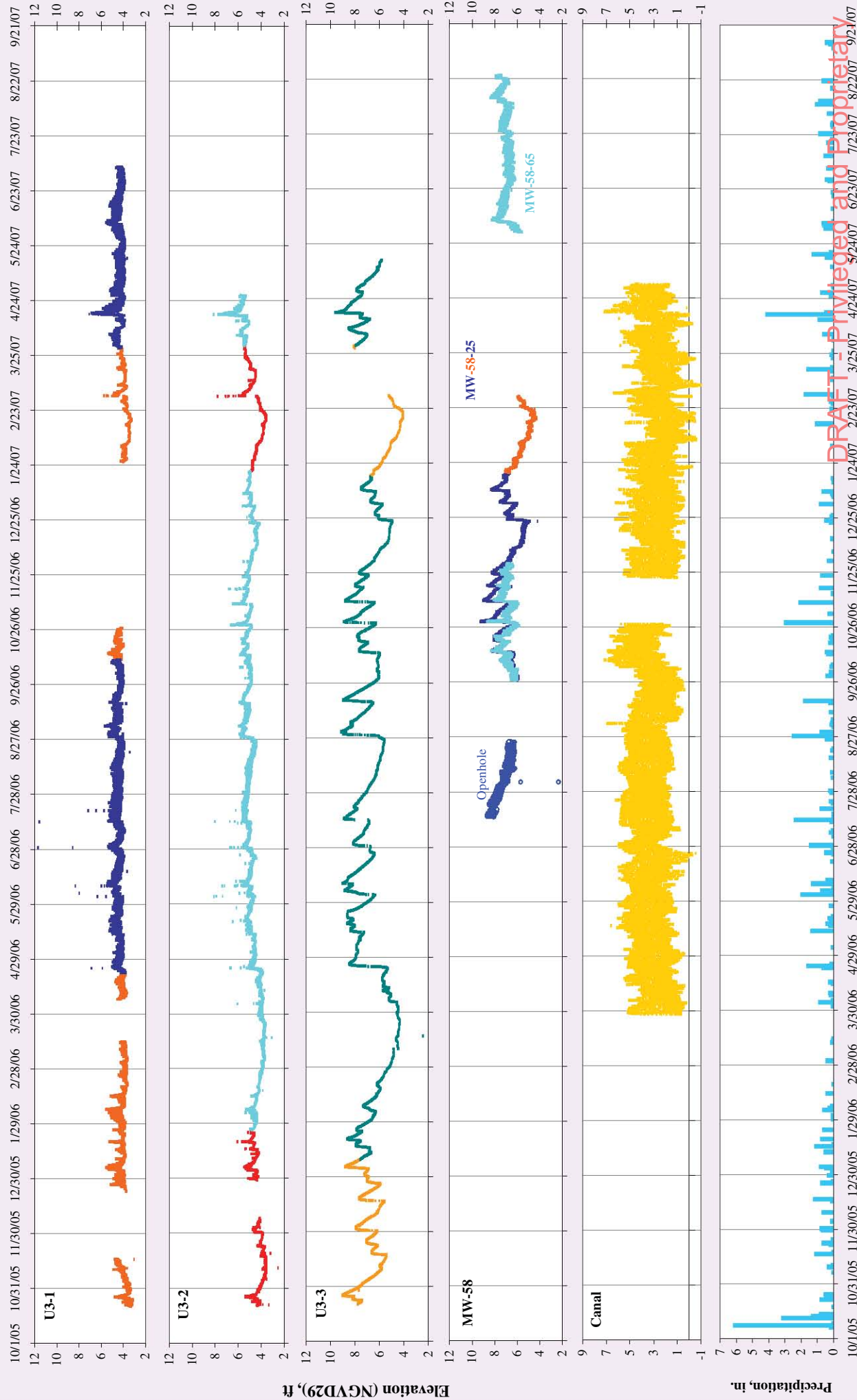
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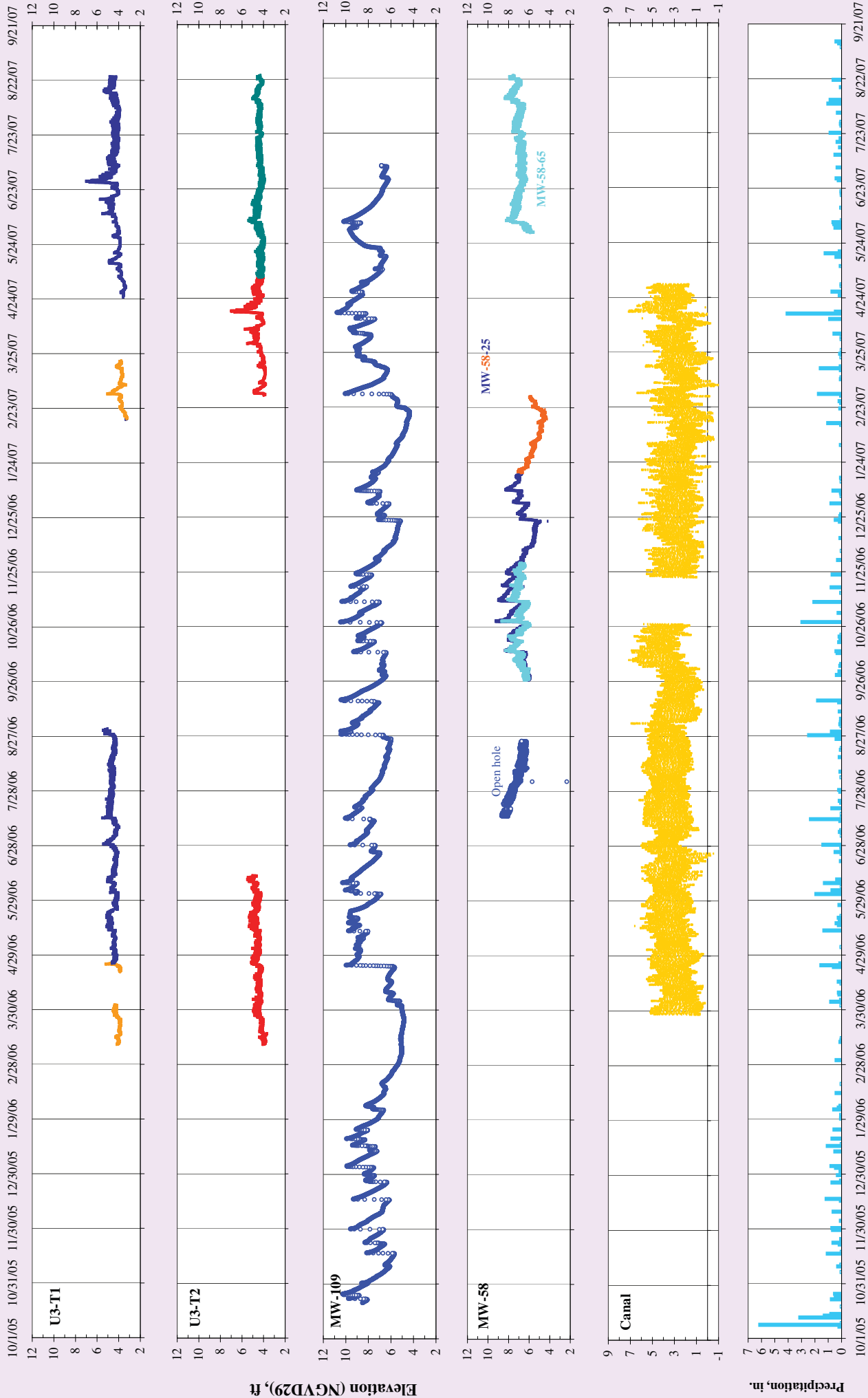
Well Group 14



Well Group 15



Well Group 16



Well Group 17

