

INCIDENT ACTION PLAN

Be brief and concise with your entries

Location Bayou Corne Sink Hole	Control Level Company Supervisory	Operational Period From 5/14/13 To 5/15/13
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<p>1.0 SITUATION Disease, community, environment</p> <p>PROMPTS: Weather, disease trends, Resources, Hazards & safety</p> <p>REFERENCE: Maps, weather reports, Sitreps, appreciation, warnings, alerts</p>	<p>CURRENT Sunshine</p>
	<p>PREDICTION</p> <p>Mainly sunny all day. 10% chance of precipitation. High Temperature near 84.</p>
<p>2.0 OBJECTIVES (or MISSION)</p> <p>PROMPTS: Time & space</p> <p>REFERENCE: Appreciation – control options, courses open to disease</p>	<p>CURRENT Objective 1 - Gas Monitoring:</p> <p>3 Gas Monitors have been set up in the field and are obtaining data on a continuous basis.</p> <p>The monitors are running on batteries which must be changed out every morning. Three monitors are located in the swamp and are required to be reached via airboats launched from TBC facilities.</p> <p>The continuous monitoring data is collected at an office trailer located at Texas Brine Grand Bayou Facility. Monitoring the information on a 24 hours basis. Monitoring is being recorded for LEL, VOC, H2S and O2.</p> <p>Respec Mining & Energy: In-place inclinometers and tilt meter monitoring system, weekly report</p> <p>Objective 2- Elevation survey taking place once a week.</p> <p>Objective 3- Sinkhole observation. Continuing to monitor for slough in around sinkhole. Operations are at Code 3 on the sinkhole.</p>
	<p>ALTERNATE</p>

<p>3.0 EXECUTION add safety information as appropriate</p>

<p>GENERAL OUTLINE</p> <p>PROMPTS: Strategies & tactics (current/proposed/alternate)</p> <p>REFERENCE: Appreciation, Control Options</p>	<p>Safety Information: See Attached Safe Work Rules Reference IAP dated 8/9/12</p> <p>Additional to our Safe Work Rules for this project we are adding the awareness of insects, reptiles and animals.</p> <p>Inspect location for flammability</p>
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	<p>Daily Safety Meetings PPE Required on site: Respirator w/ VOC Cartridge, Gloves for sampling, eye protection, life preservers, hearing protection.</p>
GROUPINGS	NA
TASKS Including PR & Media	Same as above
COORDINATING INSTRUCTIONS PROMPTS: Timings, routes, assembly areas, staging areas	Texas Brine Grand Bayou Facility will be used as staging area.
<p>4.0 ADMINISTRATION (Logistics support)</p> <p>PROMPTS: Unit names, locations, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised, stand by, enroute)</p>	
SUPPLY WHO, WHAT, WHERE, WHEN of resources not readily available	NA
GROUND SUPPORT Transport of personnel, traffic mgt, refuelling, mechanical repair/maintenance	NA
COMMUNICATIONS Installation, maintenance, technical advice	<p>Cell Phone & Landline Communications: Kenneth Blanchard – Area Manager – 985- (985-) kblanchard@texasbrine.com Scott Borne – Facility Manager – 985- (985-) sborne@texasbrine.com Joel Miller, PE – Consultant – 337- (337-) joel.miller@cox-internet.com Bruce Martin – Operations/PR – 713- (281-) bmartin@texasbrine.com Mark Cartwright – Technical/Engineering – 713- (281-) mcartwright@unitedbrine.com Scott Whitelaw – Environmental/Safety – 713- (713-)</p>

	swhitelaw@tum.com
STAGING AREA/ FCP Setting up, communications, staffing	Texas Brine Grand Bayou Facility 1301 Hwy 70 South, Belle Rose, La 70341
5.0 ADMINISTRATION (Logistics services) PROMPTS: Unit names, locations, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised, stand by, enroute)	
FACILITIES Security, waste, cleaning	NA
CATERING	NA
OH&S/MEDICAL Medical plan, first aid plan	Call 911
FINANCE	NA
TRAVEL	NA
INDUCTION/ TRAINING	NA
ACCOMMODATION	NA
6.0 CONTROL, COORDINATION & COMMUNICATION	
CONTROL & COORDINATION STRUCTURE REFERENCE Structural Chart	Plant Management Supervision / Contractor Work
COORDINATION & LIAISON	NA

Local knowledge, police, agency reps, emergency mgt reps	
COMMUNICATIONS PROMPTS Communications structure, operational comms plan, information mgt	Plant Management – Contractor Communication via Cell Phone

EXTRAS	
Attachments PROMPTS: maps, weather, organisational charts, resources, comms diagram	Current Weather Safe Work Rules
Plan developers PROMPTS PO, Logs Mgr, Controller	NA
Approval Controller, Ops Director	TBC Company Rep: William Booher FOSC: SOSC: POSC:

Belle Rose, Louisiana, United States

Today's Forecast: Tuesday, 14 May 2013

84°F
61°F

Sky Conditions: Sunny
Sunrise: 6:11 AM **Sunset:** 7:50 PM
Wind: S (180°) @ 8Mph
Precipitation Probability: 10%



[View your complete Local Weather »](#)

Extended Forecast [Full 10-Day Forecast »](#)

Wednesday 15 May 2013	Thursday 16 May 2013	Friday 17 May 2013	Saturday 18 May 2013
Partly Cloudy	Partly Cloudy	Partly Cloudy	Partly Cloudy
81°F 64°F	82°F 67°F	84°F 68°F	85°F 69°F

Detailed Forecast

Today:
A mainly sunny sky. High 84F. Winds S at 5 to 10 mph.
Tonight:
Generally fair. Low 61F. Winds S at 5 to 10 mph.
Tomorrow:
Times of sun and clouds. Highs in the low 80s and lows in the mid 60s.

May 13, 2013

Mr. Bruce Martin
Vice President of Operations
Texas Brine Company, LLC
4800 San Felipe
Houston, TX 77056

Dear Mr. Martin:

**RE: In-Place Inclinometer, Tiltmeter, and Water-Level Monitoring System,
Napoleonville Dome Weekly Report: May 04, 2013, Through May 10, 2013**

RESPEC is pleased to submit this weekly report on the in-place inclinometer (IPI), tiltmeter, and water-level monitoring system installed around the sinkhole located near the western flank of the Napoleonville Dome, Assumption Parish, Louisiana. Water-level data in this report and the attached Excel file are submitted in response to Directive #5 contained in the October 11, 2012, Third Amendment to Declaration of Emergency and Directive from the Department of Natural Resources Office of Conservation. IPI and tiltmeter data are also attached as Excel files.

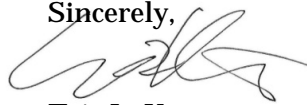
Monitoring locations are illustrated in Figure 1, and graphs that illustrate the tilt data, as recorded by each instrument, are provided in Figures 2 through 4. The IPI data for the X-directions and Y-directions are plotted separately in Figures 2 and 3, respectively. The tiltmeter data for both the X- and Y-directions are plotted in Figure 4. A condition reflecting no changes in ground movement plots as a horizontal line on these graphs. Note that the instruments installed are very sensitive; they can measure ground tilt to less than 1/1,000 of a degree. Inclinometer alarm levels are set at ± 1.0 degree and tiltmeter alarms are set at ± 0.5 degree.

This week, tilt readings from inclinometers IPI-3a, IPI-4, and IPI-5 showed continued, accelerated tilt of 0.18 degree toward the south, 0.21 degree toward the east-northeast, and 0.31 degree toward the northeast, respectively. No substantial tilt was observed at IPI-1, IPI-2, the tiltmeters located on the shop, Pad 3, or the brine storage tanks. IPI-4 and IPI-5 became submerged and communication with the instruments was lost at 13:00 on May 10 because of a breach in the western berm after a heavy rainstorm. Instruments were above water level on January 15, 2013 (the previous, highest water level observed since project inception); however, current water levels are approximately 0.25 feet higher. The fact that housings and antennas are completely submerged indicates that subsidence of potentially several feet has taken place at the IPI-4 and IPI-5 instruments. The equipment cannot safely be retrieved until water levels decrease.

Figure 5 shows water-level temporal trends at the IPI-2 and Rig Access Road transducers. Water levels inside the berm slowly increased throughout the week after a culvert was

completed and opened on the northern end of the western berm road. Water levels apparently rose over the IPI-2 transducer (which was reported last week as subaerially exposed) and allowed allowing water-level measurements at that transducer. An early-morning intense rainstorm on May 10 caused a breach in the western berm road and allowed water to flow across the berm and essentially equalize water levels inside the berm with those outside. Water level at the Rig Access Road transducer rose approximately 3.85 feet since the breach occurred and raised a total of 5.2 feet throughout the week. The increase in water levels submerged the Pad 3 transducer, which had also been subaerially exposed, and allowed the water level to be measured at that site, as shown in Figure 6. Figure 7 shows a detailed, zoomed-in view of water levels on May 10 at the Rig Road and IPI-2 transducer.

Sincerely,



Eric L. Krantz
Engineer

ELK:llf

Enclosure

cc: Mr. Mark Cartwright, Texas Brine Company, LLC
Mr. Scott Borne, Texas Brine Company, LLC
Project Central File 2153 — Category C

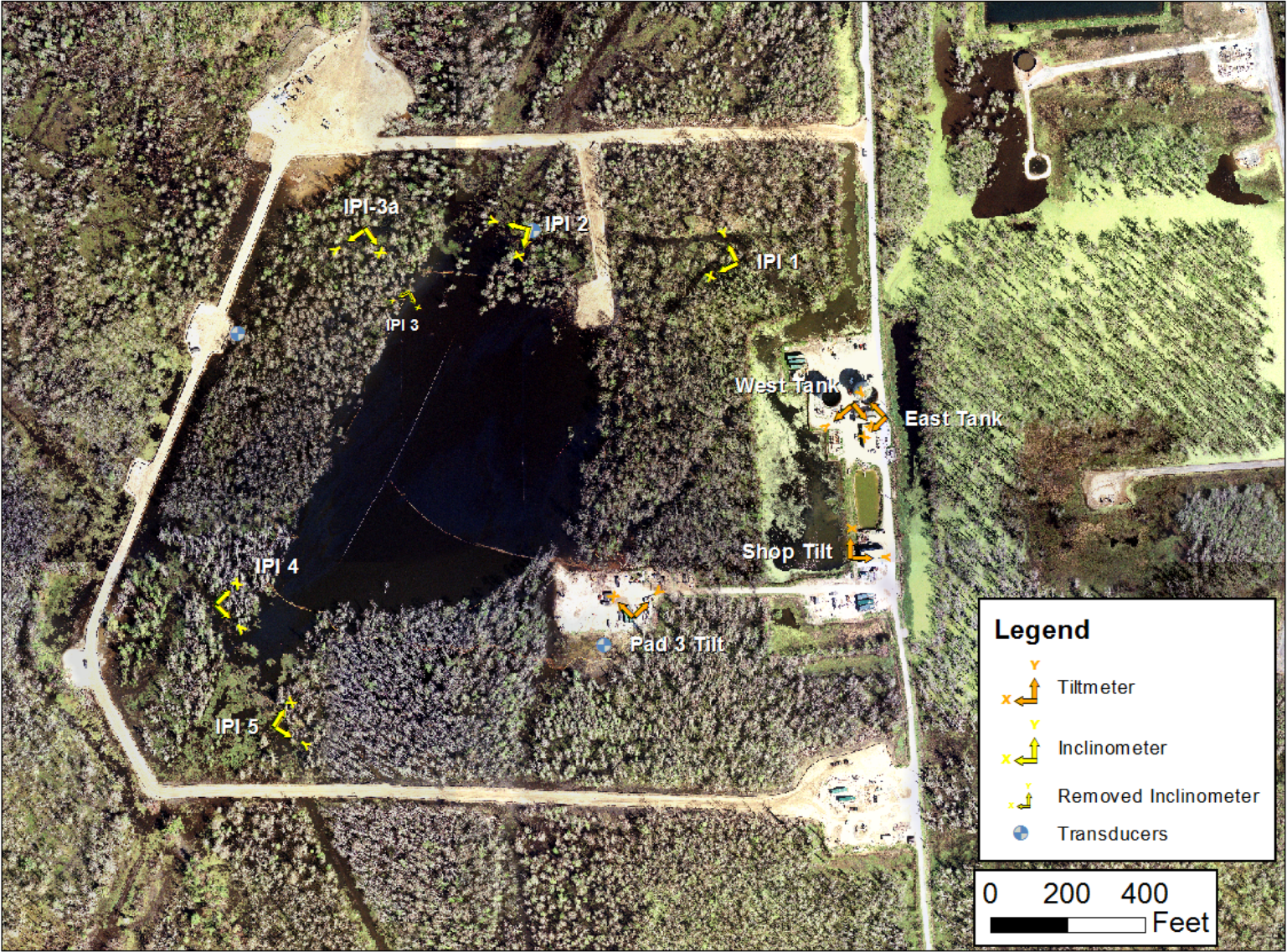


Figure 1. Monitoring Locations.

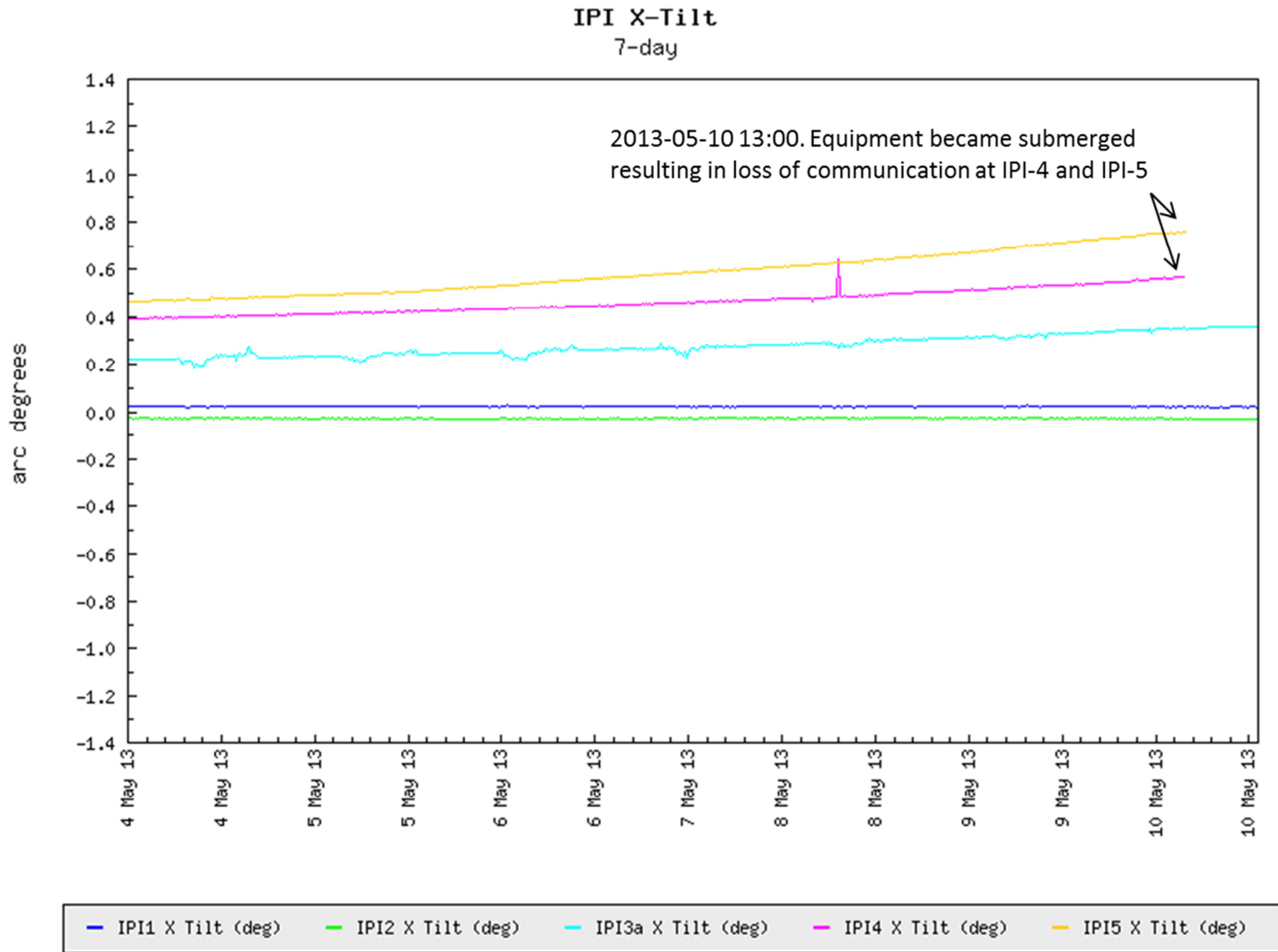


Figure 2. Inclinerometer X-Direction Temporal Trends.

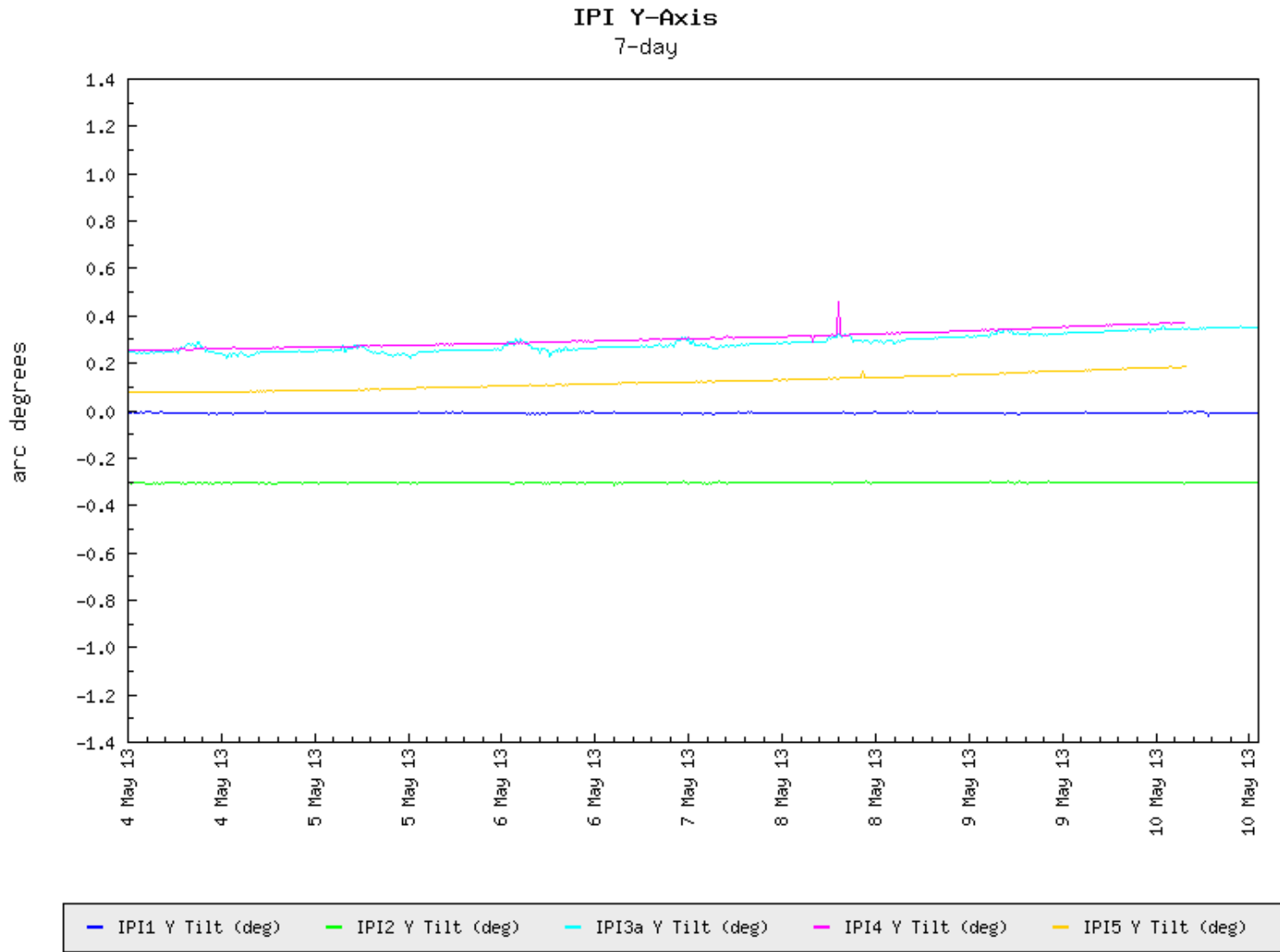


Figure 3. Inclinometer Y-Direction Temporal Trends.

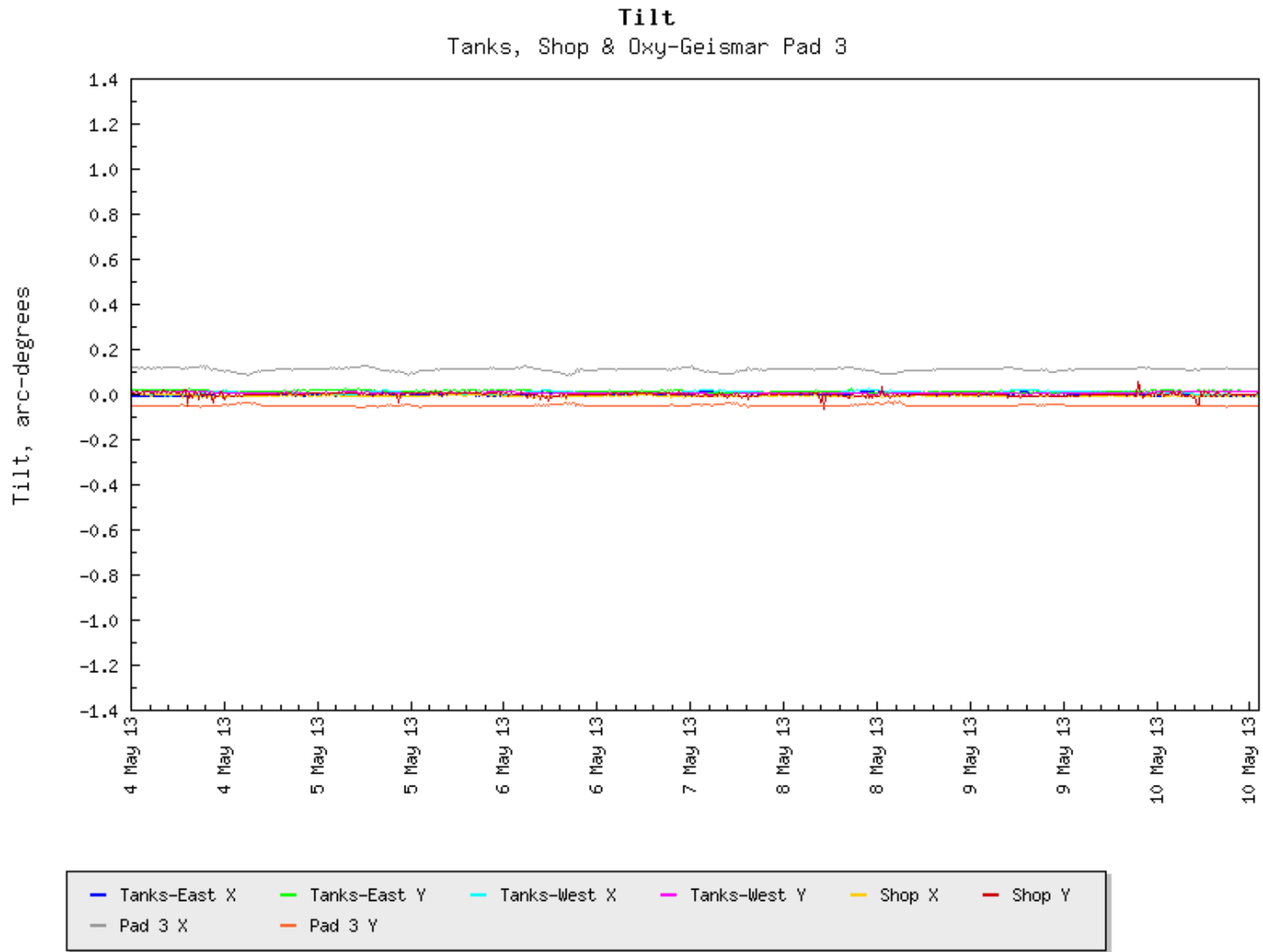


Figure 4. Tiltmeter Temporal Trends.

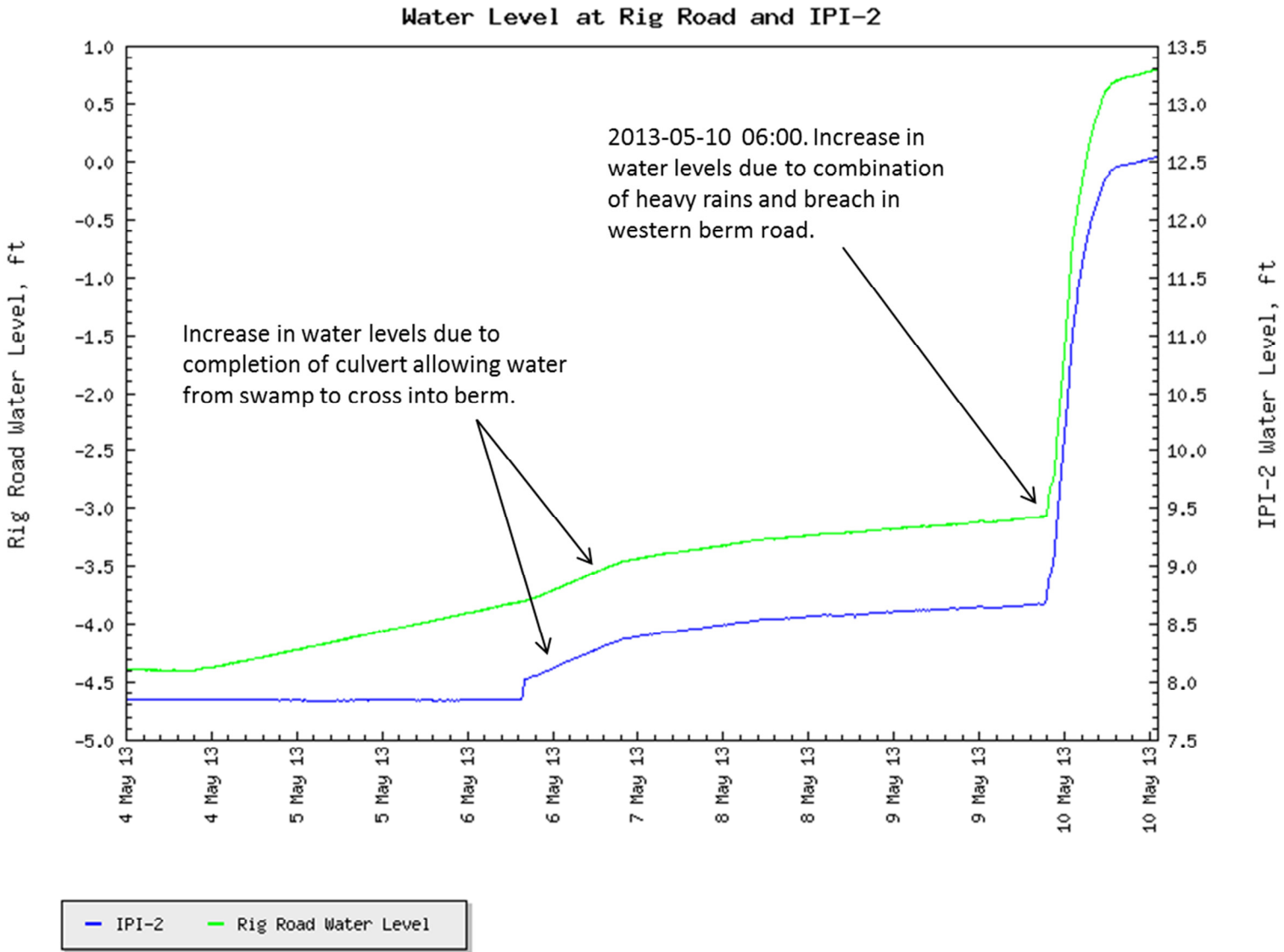


Figure 5. Water-Level Temporal Trends Showing Rig Access Road and IPI-2 Data.

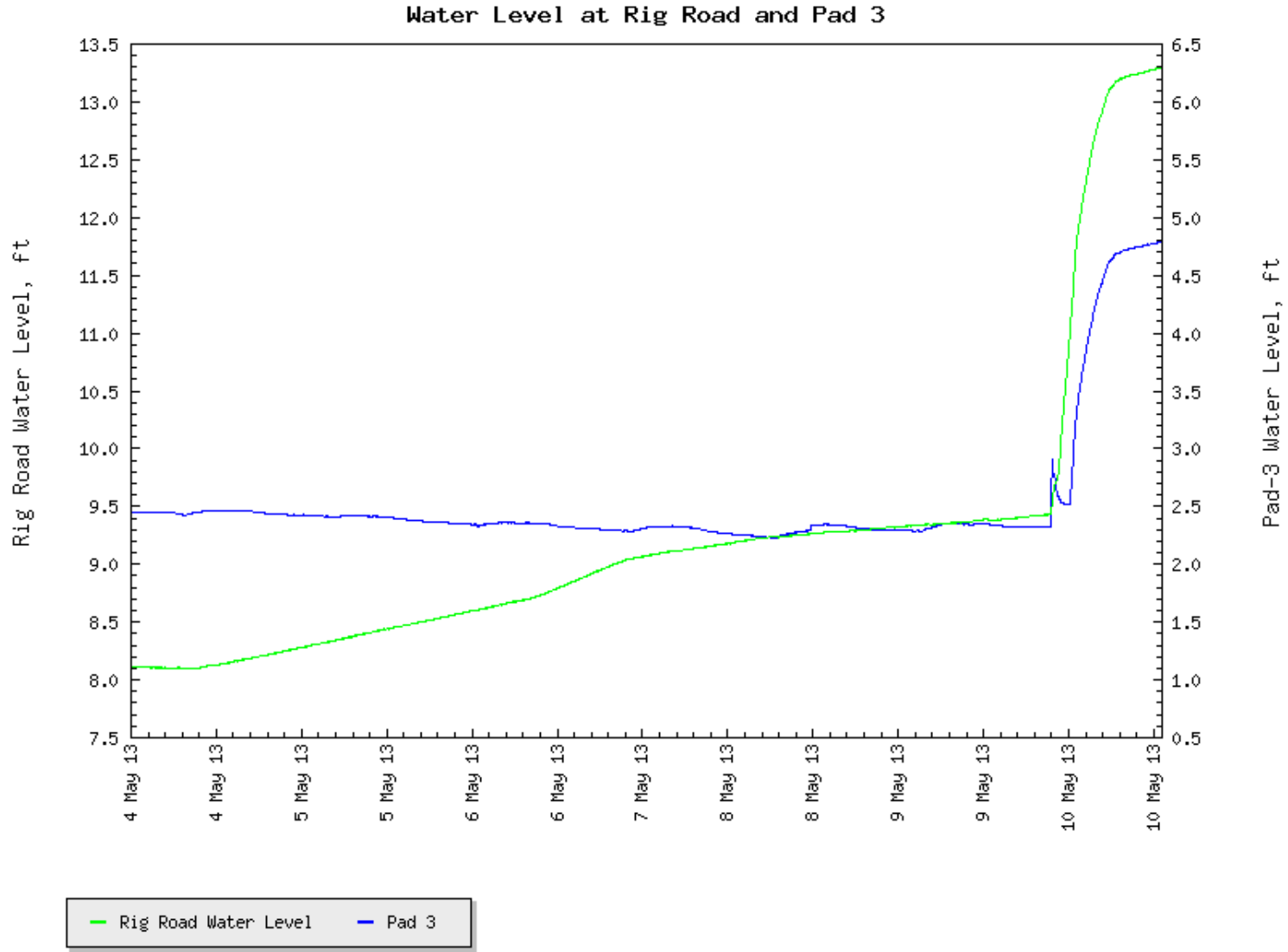


Figure 6. Water-Level Temporal Trends Showing Rig Access Road and Pad 3 Data.

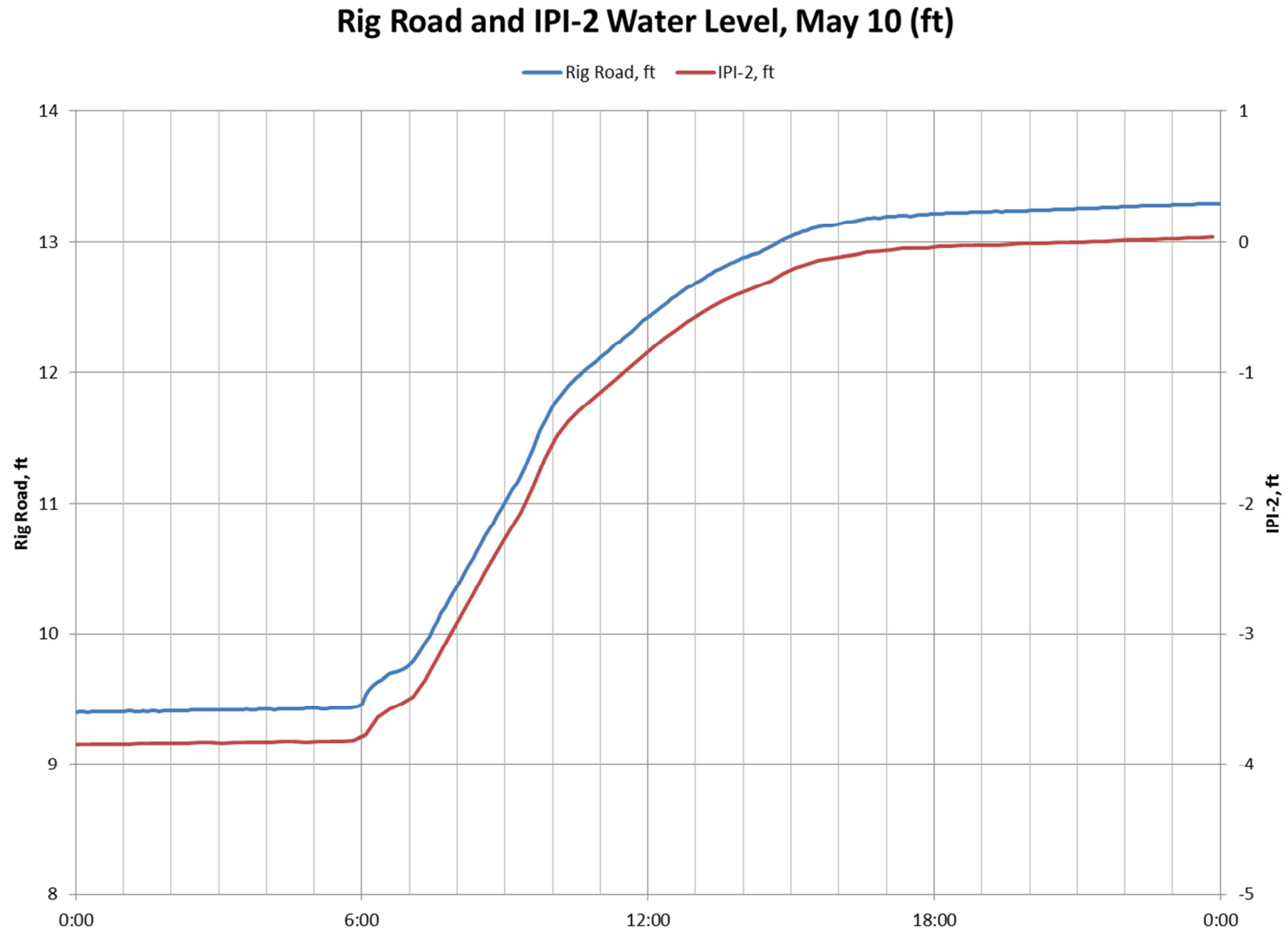


Figure 7. Water-Level Temporal Trend at Rig Access Road and IPI-2 Transducers During the Berm Breach on May 10.