

# INCIDENT ACTION PLAN

Be brief and concise with your entries

<b>Location</b> Bayou Corne Sink Hole	<b>Control Level</b> Company Supervisory	<b>Operational Period</b> From 9/21/13 To 9/22/13
---	---	---

<p><b>1.0 SITUATION</b> Disease, community, environment</p> <p>PROMPTS: Weather, disease trends, Resources, Hazards &amp; safety</p> <p>REFERENCE: Maps, weather reports, Sitreps, appreciation, warnings, alerts</p>	<p><b>CURRENT</b> Cloudy</p> <hr/> <p><b>PREDICTION</b> Thunderstorms. 90% chance of precipitation. High Temperature near 83.</p>
<p><b>2.0 OBJECTIVES (or MISSION)</b></p> <p>PROMPTS: Time &amp; space</p> <p>REFERENCE: Appreciation – control options, courses open to disease</p>	<p><b>CURRENT</b></p> <p><b>Objective 1</b> - Demonstrating sinkhole containment and determining if additional sinkholes could form.</p> <p><b>Objective 2</b> - Locating and mitigating the risk posed by the presence of shallow gas.</p> <p><b>Objective 3</b> - Confirming the broader stability of the Napoleonville Salt Dome.</p> <p><b>Current Actions:</b> <b>(For planning purposes only, all activities are subject to change.)</b></p> <p><b>ORW, MRAA, and PMW wells</b></p> <ul style="list-style-type: none"> <li>- Conducted daily well readings and flare maintenance</li> <li>- Complete redevelopment of ORW-5 and pump out BMR</li> <li>- Continue installation of new well heads on ORWs 39 and 40</li> <li>- Continue installation of fittings and piping on ORWs 39 and 40 in preparation for drawdown test</li> <li>- Continue to monitor 24hr pump drawdown test at OGRW 1 and ORW</li> <li>- Add BMR to ORW 30 and 31</li> </ul> <p><b>Air Monitoring/Under-slab Ventilation</b></p> <ul style="list-style-type: none"> <li>- End and remove monitors for the 24-hour pressure test at 174 Crawfish Stew</li> <li>- Install monitors at 1438 and 1465 Sauce Piquante and begin 24-hour pressure test</li> <li>- Replace blowers @ 1433 Sauce Piquante and 116 Crawfish Stew</li> <li>- Conduct vacuum testing of installed ventilation systems</li> </ul> <p><b>CPT Well/MIHPT/DPVE</b></p> <ul style="list-style-type: none"> <li>- Push MIHPT78 and 11</li> <li>- Complete DPVE 22 and begin DPVE 37</li> <li>- Install 1' geoprobe associated with DPVE 22 (GP22-3)</li> </ul> <p><b>Underslab/Vent System</b></p> <ul style="list-style-type: none"> <li>- Pressure test at 1438 Sauce Piquante and 1465 Sauce Piquante</li> </ul> <p><b>Tomorrow's Activities</b></p> <ul style="list-style-type: none"> <li>- Continue under-slab pressure monitoring</li> </ul>

	<ul style="list-style-type: none"> <li>- Conduct daily well readings and flare maintenance</li> <li>- Continue CPT and MIHPT operations</li> <li>- Continue installation of DPVE wells in Bayou Corne Community</li> </ul>
<b>Sinkhole Activity – Code 1</b>	
<b>3.0 EXECUTION</b> add safety information as appropriate	
<b>GENERAL OUTLINE</b>  PROMPTS: Strategies & tactics (current/proposed/alternate)  REFERENCE: Appreciation, Control Options	<b>Safety Information: See Attached Safe Work Rules          Reference IAP dated 8/9/12</b>  <b>Additional to our Safe Work Rules for this project we are adding          the awareness of insects, reptiles and animals.</b>  <b>Inspect location for flammability</b>  <b>Daily Safety Meetings</b>  <b>PPE Required on site: Respirator w/ VOC Cartridge, Gloves for          sampling, eye protection, life preservers, hearing protection.</b>
<b>GROUPINGS</b>	<b>NA</b>
<b>TASKS</b> Including PR & Media	<b>Same as above</b>
<b>COORDINATING INSTRUCTIONS</b>  PROMPTS: Timings, routes, assembly areas, staging areas	<b>Texas Brine Grand Bayou Facility will be used as staging area.</b>
<b>4.0 ADMINISTRATION</b> (Logistics support)	
PROMPTS: Unit names, locations, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised, stand by, enroute)	
<b>SUPPLY</b> WHO, WHAT, WHERE, WHEN of resources not readily available	<b>NA</b>
<b>GROUND SUPPORT</b>	<b>NA</b>

Transport of personnel, traffic mgt, refuelling, mechanical repair/maintenance	
COMMUNICATIONS Installation, maintenance, technical advice	<b>Cell Phone &amp; Landline Communications:</b> <b>Kenneth Blanchard – Area Manager – (██████████) (██████████)</b> <b>kblanchard@texasbrine.com</b> <b>Scott Borne – Facility Manager – (██████████) (██████████)</b> <b>sborne@texasbrine.com</b> <b>Joel Miller, PE – Consultant – (██████████) (██████████) joel.miller@cox-internet.com</b> <b>Bruce Martin – Operations/PR – (██████████) (██████████)</b> <b>bmartin@texasbrine.com</b> <b>Mark Cartwright – Technical/Engineering – (██████████) (██████████)</b> <b>mcartwright@unitedbrine.com</b> <b>Scott Whitelaw – Environmental/Safety – (██████████) (██████████)</b> <b>swhitelaw@tum.com</b>
STAGING AREA/ FCP Setting up, communications, staffing	<b>Texas Brine Grand Bayou Facility</b> <b>1301 Hwy 70 South, Belle Rose, La 70341</b>
<b>5.0 ADMINISTRATION (Logistics services)</b>  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	<b>NA</b>
CATERING	<b>NA</b>
OH&S/MEDICAL Medical plan, first aid plan	<b>Call 911</b>
FINANCE	<b>NA</b>
TRAVEL	<b>NA</b>
INDUCTION/ TRAINING	<b>NA</b>
ACCOMMODATION	<b>NA</b>

<b>6.0 CONTROL, COORDINATION &amp; COMMUNICATION</b>	
<b>CONTROL &amp; COORDINATION STRUCTURE</b>  REFERENCE Structural Chart	<b>Plant Management Supervision / Contractor Work</b>
<b>COORDINATION &amp; LIAISON</b>  Local knowledge, police, agency reps, emergency mgt reps	<b>NA</b>
<b>COMMUNICATIONS</b>  PROMPTS Communications structure, operational comms plan, information mgt	<b>Plant Management – Contractor Communication via Cell Phone</b>

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

**Belle Rose, Louisiana, United States**

**Today's Forecast:** Saturday, 21 Sep 2013

**83°F**  
**69°F**

**Sky Conditions:** Thunderstorms

**Sunrise:** 6:52 AM **Sunset:** 7:02 PM

**Wind:** SE (130°) @ 7Mph

**Precipitation Probability:** 90%



[View your complete Local Weather »](#)

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

<b>Sunday</b> 22 Sep 2013	<b>Monday</b> 23 Sep 2013	<b>Tuesday</b> 24 Sep 2013	<b>Wednesday</b> 25 Sep 2013
			
Thunderstorms <b>80°F</b> <b>71°F</b>	Partly Cloudy <b>87°F</b> <b>74°F</b>	Isolated Thunderstorms <b>87°F</b> <b>72°F</b>	Partly Cloudy <b>89°F</b> <b>71°F</b>

**Detailed Forecast**

**Today:**

Thunderstorms. Humid. High 83F. Winds SE at 5 to 10 mph. Chance of rain 90%.

**Tonight:**

Thunderstorms with locally heavy downpours. Low 69F. Winds NE at 5 to 10 mph. Chance of rain 80%. Rainfall possibly over two inches.

**Tomorrow:**

Thunderstorms. Highs in the low 80s and lows in the low 70s.

# Site Safety for Sinkhole and Surrounding Area

In an effort to provide for a safe work environment in and around the Sink Hole, this procedure has been put in place to inform workers of their allowed Work Areas. This procedure is only guidance and should not exclude any other observation or safety precautions in place that may cause any danger to anyone. All workers entering the Texas Brine facility should be informed of the risks that are posed by this ongoing event.

This system has been developed using a Code System and is defined as follows:

## Code 1:

---

Is an all clear, with restriction to OXY pad 3 and the North pad area as indicated in the map below due to the concerns raised by Itaska.



## Code 2:

---

Restrict all activity from inside the Berm, but not the Berm itself or outside; recommend that all operations in the immediate vicinity of the sinkhole be halted immediately. The Inside Berm is defined as indicated on the map below in red.



## Code 3:

---

Restrict activity from inside and on the Berm, no work activity shall occur until Code level has been changed to allow. Continued monitoring of the berm for cracks and venting wells located adjacent to the berm. At this code level immediate notification shall be made of any changes that occur on sinkhole, swamp around sinkhole, or any changes to berm area. The Berm is defined as indicated in yellow on the map below.



## Communication:

---

All workers working in conjunction with this ongoing event shall be informed of these codes and communication protocol developed to inform everyone when codes may change at any time.