

# 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 9/25/13 To 9/26/13
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<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> Mostly sunny</p> <hr/> <p><b>PREDICTION</b> Some clouds in the morning will give way to mainly sunny skies for the afternoon. 20% chance of precipitation. High Temperature near 92.</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><u>ORW, MRAA, and PMW wells</u></b></p> <ul style="list-style-type: none"> <li>- Conducted daily well readings and flare maintenance</li> <li>- Continued monitoring pump drawdown test at OGRW 1 and ORW 9</li> <li>- Continue connecting piping to frac tank and begin drawdown pump test at ORWs 39 and 40</li> <li>- Reinstall well head and connect ORW 30 to flare</li> <li>- Pump BMR from ORW 31</li> <li>- Depressurize ORWs 28 and 29 and begin rehabbing and redevelopment</li> </ul> <p><b><u>Air Monitoring/Under-slab Ventilation</u></b></p> <ul style="list-style-type: none"> <li>- Continue construction of enclosures for ventilation units</li> </ul> <p><b><u>CPT Well/MIHPT/DPVE</u></b></p> <ul style="list-style-type: none"> <li>- Advance and complete MIHPT-005 and MIHPT-ORW-6</li> <li>- Continue set up and instrumentation connections of DPVE system at NSDBS-47 (mud volcano)</li> <li>- Connect DPVE-47 to frac tank</li> <li>- Install hoses and flow meters onto frac tanks for discharge to sinkhole</li> </ul> <p><b><u>Containment/ Roads/ Sinkhole</u></b></p> <ul style="list-style-type: none"> <li>- Continue placement of gravel on Trische property for access path to ORW wells</li> <li>- Excavate trenches for placement of hoses from frac tank to the sinkhole for discharge</li> <li>- Place wood mats and sand for access to ORWs 90 and 91</li> </ul> <p><b><u>Survey/Sampling</u></b></p>

	<ul style="list-style-type: none"> <li>- Sample all MRAA wells</li> <li>- Perform routine settlement plate and subsidence surveys</li> <li>- Conduct SWPPP inspection</li> <li>- Daily berm inspection</li> </ul> <p><b><u>Tomorrow's Activities</u></b></p> <ul style="list-style-type: none"> <li>- Continue under-slab pressure monitoring</li> <li>- Conduct daily well readings and flare maintenance</li> <li>- Continue CPT and MIHPT operations</li> </ul> <p><b>Sinkhole Activity – Code 2</b></p>
<p><b>3.0 EXECUTION</b> add safety information as appropriate</p>	
<p><b>GENERAL OUTLINE</b></p> <p>PROMPTS: Strategies &amp; tactics (current/proposed/alternate)</p> <p>REFERENCE: Appreciation, Control Options</p>	<p><b>Safety Information: See Attached Safe Work Rules Reference IAP dated 8/9/12</b></p> <p><b>Additional to our Safe Work Rules for this project we are adding the awareness of insects, reptiles and animals.</b></p> <p><b>Inspect location for flammability</b></p> <p><b>Daily Safety Meetings</b></p> <p><b>PPE Required on site: Respirator w/ VOC Cartridge, Gloves for sampling, eye protection, life preservers, hearing protection.</b></p>
<p><b>GROUPINGS</b></p>	<p><b>NA</b></p>
<p><b>TASKS</b> Including PR &amp; Media</p>	<p><b>Same as above</b></p>
<p><b>COORDINATING INSTRUCTIONS</b></p> <p>PROMPTS: Timings, routes, assembly areas, staging areas</p>	<p><b>Texas Brine Grand Bayou Facility will be used as staging area.</b></p>
<p><b>4.0 ADMINISTRATION</b> (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>	
<p><b>SUPPLY</b></p>	<p><b>NA</b></p>

WHO, WHAT, WHERE, WHEN of resources not readily available	
<b>GROUND SUPPORT</b> Transport of personnel, traffic mgt, refuelling, mechanical repair/maintenance	<b>NA</b>
<b>COMMUNICATIONS</b> Installation, maintenance, technical advice	<b>Cell Phone &amp; Landline Communications:</b> <b>Kenneth Blanchard – Area Manager – [REDACTED] ([REDACTED])</b> <b>kblanchard@texasbrine.com</b> <b>Scott Borne – Facility Manager – [REDACTED] ([REDACTED])</b> <b>sborne@texasbrine.com</b> <b>Joel Miller, PE – Consultant – [REDACTED] ([REDACTED]) joel.miller@cox-</b> <b>internet.com</b> <b>Bruce Martin – Operations/PR – [REDACTED] ([REDACTED])</b> <b>bmartin@texasbrine.com</b> <b>Mark Cartwright – Technical/Engineering – [REDACTED] ([REDACTED])</b> <b>mcartwright@unitedbrine.com</b> <b>Scott Whitelaw – Environmental/Safety – [REDACTED] ([REDACTED])</b> <b>swhitelaw@tum.com</b>
<b>STAGING AREA/ FCP</b> 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)	
<b>FACILITIES</b> Security, waste, cleaning	<b>NA</b>
<b>CATERING</b>	<b>NA</b>
<b>OH&amp;S/MEDICAL</b> Medical plan, first aid plan	<b>Call 911</b>
<b>FINANCE</b>	<b>NA</b>
<b>TRAVEL</b>	<b>NA</b>
<b>INDUCTION/ TRAINING</b>	<b>NA</b>

ACCOMMODATION	NA
<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	NA
<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</b> <b>Safe Work Rules</b>
<b>Plan developers</b> PROMPTS PO, Logs Mgr, Controller	NA
<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:** Wednesday, 25 Sep 2013

**92°F**  
**66°F**

**Sky Conditions:** Partly Cloudy  
**Sunrise:** 6:54 AM **Sunset:** 6:57 PM  
**Wind:** WNW (283°) @ 6Mph  
**Precipitation Probability:** 20%



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

Thursday 26 Sep 2013	Friday 27 Sep 2013	Saturday 28 Sep 2013	Sunday 29 Sep 2013
Sunny <b>91°F</b> <b>68°F</b>	Partly Cloudy <b>90°F</b> <b>71°F</b>	Partly Cloudy <b>88°F</b> <b>69°F</b>	Partly Cloudy <b>86°F</b> <b>70°F</b>

**Detailed Forecast**

**Today:**  
Some clouds in the morning will give way to mainly sunny skies for the afternoon. Hot. High 92F. Winds WNW at 5 to 10 mph.  
**Tonight:**  
A mostly clear sky. Low 66F. Winds light and variable.  
**Tomorrow:**  
Sunny. Highs in the low 90s and lows in the upper 60s.

## 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:

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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:

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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:

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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:

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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.