### **INCIDENT ACTION PLAN**

Be brief and concise with your entries

Be brief and concise with your e	Control Level	Operation	Operational Period	
Bayou Corne Sink Hole	Company Supervisory	From 3/28/15	To 3/29/15	
	·	•		
<b>1.0 SITUATION</b> Disease, community, environment PROMPTS: Weather, disease trends, Resources, Hazards & safety REFERENCE: Maps, weather reports, Sitreps, appreciation, warnings, alerts	CURRENT         Sunny         PREDICTION         A mainly sunny sky. 0% chance of precipitation. High Temperature near 72.			
2.0 OBJECTIVES (or MISSION)	<b>CURRENT</b> <b>Objective 1 -</b> Demonstrating sinkhole containment and determining if additional sinkholes could form.			
PROMPTS: Time & space REFERENCE: Appreciation – control options, courses open to disease				
3.0 EXECUTION ad	d safety information as appropriate			
GENERAL OUTLINE PROMPTS: Strategies & tactics (current/proposed/alternate) REFERENCE: Appreciation, Control Options	Safety Information: See Attache Reference I Additional to our Safe Work Ru the awareness of insects, reptile Inspect location for flammability Daily Safety Meetings	AP dated 8/9/12 les for this project s and animals.		

	PPE Required on site: Respirator w/ VOC Cartridge, Gloves for sampling, eye protection, life preservers, hearing protection.	
GROUPINGS	ΝΑ	
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.	
	ION (Logistics support) , contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised,	
SUPPLY WHO, WHAT, WHERE, WHEN of resources not readily available	ΝΑ	
GROUND SUPPORT Transport of personnel, traffic mgt, refuelling, mechanical repair/maintenance	ΝΑ	
COMMUNICATIONS Installation, maintenance, technical advice	Cell Phone & Landline Communications: Chad Morales – Area Manager – Scott Borne – Facility Manager – Scott Borne @texasbrine.com Joel Miller, PE – Consultant – Joel Miller, PE – Consultant – Bruce Martin – Operations/PR – Bruce Martin – Operations/PR – Mark Cartwright – Technical/Engineering – Mark Cartwright – Technical/Engineering – Mark Cartwright @unitedbrine.com Scott Whitelaw – Environmental/Safety – Swhitelaw@tum.com	

#### 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	ΝΑ	
CATERING	ΝΑ	
OH&S/MEDICAL Medical plan, first aid plan	Call 911	
FINANCE	ΝΑ	
TRAVEL	ΝΑ	
INDUCTION/ TRAINING	ΝΑ	
ACCOMMODATION	ΝΑ	
6.0 CONTROL, COORDINATION & COMMUNICATION		
CONTROL & COORDINATION STRUCTURE	Plant Management Supervision / Contractor Work	
REFERENCE Structural Chart		
COORDINATION & LIAISON	ΝΑ	
Local knowledge, police, agency reps, emergency mgt reps		

COMMUNICATIONS	Plant Management – Contractor Communication via Cell Phone
PROMPTS Communications structure, operational comms plan, information mgt	

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: Saturday, 28 Mar 2015				
72°F 47°F Sky Conditions: Sunny Sunrise: 6:59 AM Sunset: 7:19 PM Wind: NNW (330°) @ 11Mph				
Precipitation Probability: 0%				
View your complete Local Weather »				
Extended Forecast <u>Full 10-Day Forecast »</u>				
Saturday Sunday Monday 28 Mar 2015 29 Mar 2015 30 Mar 2015	<b>Tuesday</b> 31 Mar 2015			

SunnyMostly Sunny Partly CloudyScattered Thunderstorms72°F79°F81°F83°F53°F60°F61°F62°F

#### **Detailed Forecast**

Today:

A mainly sunny sky. High near 72F. Winds NNW at 10 to 15 mph. **Tonight:** Clear. Low 47F. Winds light and variable. **Tomorrow:** Abundant sunshine. Highs in the mid 70s and lows in the low 50s.

Seismic Code	Seismic Activity	Sinkhole Access	Berm Road Access	Work Allowed
1	Minimal to no seismic activity around/below sinkhole; 10 or fewer of the sharp seismic signals associated with rock movement, called mini-earthquakes (MEQs) or the longer signals associated with gas or liquid movement, called Very Long Periods (VLPs) within 24-hour period; allows work on sinkhole and inside berm area to continue	<ul> <li>Approved<sup>1</sup> work allowed only in designated areas of sinkhole. Some areas may be restricted due to unsafe conditions (e.g., leaning trees). Sinkhole grid system shown in Figure 1 will be used to define restricted areas for individual work activities.</li> <li>All vessels must have at least 2 persons. Workers must wear approved PFDs. No work allowed after sunset. Safety boat on standby.</li> </ul>	Access allowed on all berms and roads unless an area is physically barricaded.	Approved work allowed in unrestricted areas. Work area must be cleared of hazards and a Work Permit issued before start.
2	Indicates some increased seismic activity around/below sinkhole but not at a level that indicates imminent threat of sloughing or movement below sinkhole (10 to 50 MEQs or VLPs in 24 hours)	<ul> <li>Code 1 requirements plus:</li> <li>Each vessel inside designated sinkhole area (see Figure 2) must have a designated shoreline watch who is in constant radio communication with vessel.</li> </ul>	Access allowed on all berms and roads unless an area is physically barricaded.	<ul> <li>Code 1 requirements plus:</li> <li>Each work activity must have a designated person with means to warn all workers of unusual activity on sinkhole.</li> </ul>
3	Indicates seismic activity has elevated to a point similar to what has been seen in past monitoring prior to a sloughing on the shore or movement beneath sinkhole (More than 50 MEQs or VLPs in 24 hours)	<ul> <li>Code 1 requirements plus:</li> <li>Each vessel inside the defined containment berm (see Figure 2) must have a designated shoreline watch who is in constant radio communication with vessel.</li> </ul>	All berm roads are closed except the north berm from the TBC Access road to Rig Road (unless restricted for non- seismic reasons). All other berms open only to UTVs for personnel doing approved work. Anyone on a UTV must have a radio, air horn, and approved PFD.	<ul> <li>Code 1 and 2 requirements plus:</li> <li>Work is allowed on a case by case basis as determined by TBC Operations:</li> </ul>

1. All site work must be approved by TBC Response Operations.

2. The Texas Brine access road from Highway 70 to Pad 10 is not considered part of the designated containment berm for purposes of this document.

3. Codes are set by Assumption Parish Office of Emergency Management

Page 14-A, Texas Brine Company, LLC, Health and Safety Plan, Bayou Corne, Belle Rose, Louisiana, Sept 2013

## 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.