INCIDENT ACTION PLAN

Be brief and concise with your entries

Location	Location Control Level Operational Po		onal Period	
Bayou Corne Sink Hole		Company Supervisory	From 8/19/14	To 8/20/14
1.0 SITUATION Disease, community, environment	CURRENT PM thunderstorms			
PROMPTS: Weather, disease trends, Resources, Hazards & safety	PREDICTION Partly cloudy with afternoon showers or thunderstorms. 50% chance of			
REFERENCE: Maps, weather reports, Sitreps, appreciation, warnings, alerts	precipitation. High Temperature near 92.			
2.0 OBJECTIVES (or MISSION)	CURRENT Objective 1 - Demonstrating sinkhole containment and determining if additional sinkholes could form.			
PROMPTS: Time & space	Objective 2 - Locating and mitigating the risk posed by the presence of shallow gas.			
REFERENCE: Appreciation – control options, courses open to disease				Napoleonville Salt
	<u>Current Actions:</u> (For planning purposes only, all activities are subject to change.)			
	 ORW, MRAA, PMW, and PVW wells Conduct daily well readings and flare maintenance Monitor continuous dewatering of ORWs Monitor PMWs 04 and 07 for safety and security Perform ORW communications test at ORW 2 Redevelop PMW 19S and PMW 12M, if time permits 			
	Air Monitoring/Under-slab Ventilation /Monitoring Equipment - Conduct ventilation system inspection			
	Containment/ Roads/ Sinkhole - Daily berm inspections			
	Sampling/Survey/Instrumentation-Conduct flare gas sampling-Perform Monthly MRAA sampling-Conduct weekly outfall sampling			
	- C - C - C - N	Derrow's Activities Continue ventilation system inspections Conduct daily well readings and flare maint Conduct Daily berm inspection Monitor Bubble Site 56 Monitor PMWs 04 and 07 for safety and set Perform ORW communications test at ORW	curity	
	 Redevelop 12M, if not completed today Continue monthly MRAA sampling Sinkhole Activity – Code 1 			

3.0 EXECUTION add safety information as appropriate			
GENERAL OUTLINE PROMPTS: Strategies & tactics (current/proposed/alternate) REFERENCE: Appreciation, Control Options	Safety Information: See Attached Safe Work Rules Reference IAP dated 8/9/12 Additional to our Safe Work Rules for this project we are adding the awareness of insects, reptiles and animals. Inspect location for flammability Daily Safety Meetings PPE Required on site: Respirator w/ VOC Cartridge, Gloves for sampling, eye protection, life preservers, hearing protection.		
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.		
PROMPTS: Unit names, locations	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	Cell Phone & Landline Communications: Kenneth Blanchard – Area Manager – Herrication (Manager)		
IAP [Bayou Corne Sink Hole Incident Action Plan template	e] – V# Version date: 3 May 2010 Page 2 of 5 V3 – 3 May 2010 (INT10/24125)		

Installation, maintenance, technical advice	kblanchard@texasbrine.com Scott Borne – Facility Manager – (1990) sborne@texasbrine.com Joel Miller, PE – Consultant – (1990) internet.com Bruce Martin – Operations/PR – (1990) bmartin@texasbrine.com Mark Cartwright – Technical/Engineering – (1990) mcartwright@unitedbrine.com Scott Whitelaw – Environmental/Safety – (1990) 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	ΝΑ	
CATERING	ΝΑ	
OH&S/MEDICAL Medical plan, first aid plan	Call 911	
FINANCE	ΝΑ	
TRAVEL	NA	
INDUCTION/ TRAINING	NA	
ACCOMMODATION	NA	
6.0 CONTROL, COORDINATION & COMMUNICATION		
CONTROL &	Plant Management Supervision / Contractor Work	Page 3 of 5

COORDINATION	
STRUCTURE	
REFERENCE	
Structural Chart	
COORDINATION &	NA
LIAISON	
LIAISON	
Less knowledge police ageney	
Local knowledge, police, agency reps, emergency mgt reps	
Topo, onlogonoygepe	
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: Tuesday, 19 Aug 2014
92°F 75°F
Sky Conditions: PM Thunderstorms Sunrise: 6:34 AM Sunset: 7:41 PM Wind: SW (228°) @ 7Mph Precipitation Probability: 50%
View your complete Local Weather »

<u>Full 10-D</u>	Full 10-Day Forecast »	
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understorms Mostly Su 94°F 93°F	95°F	
	ursday Aug 2014 22 Aug 2 22 Aug 2 22 Aug 2 20 20 20 20 20 20 20 20 20 20 20 20 20	

Detailed Forecast

Today:

Partly cloudy with afternoon showers or thunderstorms. High 92F. Winds SW at 5 to 10 mph. Chance of rain 50%.

Tonight:

Mostly clear skies. Low around 75F. Winds SSW at 5 to 10 mph.

Tomorrow:

Thunderstorms developing in the afternoon. Highs in the low 90s and lows in the mid 70s.

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	 Approved¹ 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. All vessels must have at least 2 persons. Workers must wear approved PFDs. No work allowed after sunset. Safety boat on standby. 	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)	 Code 1 requirements plus: Each vessel inside designated sinkhole area (see Figure 2) must have a designated shoreline watch who is in constant radio communication with vessel. 	Access allowed on all berms and roads unless an area is physically barricaded.	 Code 1 requirements plus: Each work activity must have a designated person with means to warn all workers of unusual activity on sinkhole.
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)	 Code 1 requirements plus: Each vessel inside the defined containment berm (see Figure 2) must have a designated shoreline watch who is in constant radio communication with vessel. 	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.	 Code 1 and 2 requirements plus: Work is allowed on a case by case basis as determined by TBC Operations:

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.