INCIDENT ACTION PLAN

Be brief and concise with your entries

Location	Control Level	Operatio	Operational Period	
Bayou Corne Sink Hole	Company Supervisory	From 4/25/15 To 4/26/1		
1.0 SITUATION Disease, community, environment PROMPTS: Weather, disease trends, Resources, Hazards & safety REFERENCE: Maps, weather reports, Sitreps, appreciation, warnings, alerts	CURRENT Isolated Thunderstorms PREDICTION A few isolated thunderstorms developing during the afternoon. A few storms may be severe. 30% chance of precipitation. High Temperature near 85.			
2.0 OBJECTIVES (or MISSION)	CURRENT Objective 1 - Demonstrating sinkhole containment and determining if additional sinkholes could form.			
PROMPTS: Time & space REFERENCE: Appreciation – control options, courses open to disease	Objective 2 - Locating and mitigation of shallow gas. Objective 3 - Confirming the broad Dome. Current Actions: (For planning purposes only, all act ORW, MRAA, PMW, PVW and Geoprobe wee Conduct daily well readings and flare main Monitor continuous dewatering of select C ORW weekly transducer data download Air Monitoring/ Monitoring Equipment Daily monitoring of In-home gas monitors Conduct indoor air monitoring of TBC own Containment/ Roads/ Sinkhole Daily berm inspections Tomorrow's Activities Conduct Daily berm inspections Monitor continuous dewatering of select C Sinkhole Activity – Code 3	der stability of the f tivities are subject tenance DRWs and AreaRAEs and AreaRAEs and AreaRAEs and AreaRAEs	Vapoleonville Sal	

GENERAL OUTLINE

PROMPTS: Strategies & tactics (current/proposed/alternate)

REFERENCE:

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

Appreciation, Control Options	Daily Safety Meetings 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	NA
GROUND SUPPORT Transport of personnel, traffic mgt, refuelling, mechanical repair/maintenance	NA
COMMUNICATIONS Installation, maintenance,	Cell Phone & Landline Communications: Chad Morales – Area Manager – Scott Borne – Facility Manager –

swhitelaw@tum.com

sborne@texasbrine.com

internet.com

Joel Miller, PE - Consultant -

Bruce Martin – Operations/PR – bmartin@texasbrine.com

mcartwright@unitedbrine.com

Mark Cartwright – Technical/Engineering –

Scott Whitelaw - Environmental/Safety -

technical advice

)

) joel.miller@cox-

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)

ΝΑ			
ΝΑ			
Call 911			
ΝΑ			
NA			
NA			
NA			
6.0 CONTROL, COORDINATION & COMMUNICATION			
Plant Management Supervision / Contractor Work			
ΝΑ			

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, 25 Apr 2015		
85°F 70°F	-	
Sky Conditions: Isolated Thunderstorms Sunrise: 6:27 AM Sunset: 7:37 PM Wind: SW (216°) @ 13Mph Precipitation Probability: 30%	3MAR	
View your complete Local Weather »		

Extended Forecast		Full 10-Day Forecast »		
Sunday 26 Apr 2015	Monday 27 Apr 2015	Tuesday 28 Apr 2015	Wednesday 29 Apr 2015	
*	9	9	***	
Partly Cloudy 91°F	Thunderstorms 80°F	Thunderstorms 77°F	AM Clouds/PM Sun 74°F	
69°F	67°F	56°F	53°F	

Detailed Forecast

Today:

A few isolated thunderstorms developing during the afternoon. A few storms may be severe. High near 85F. Winds SW at 10 to 15 mph. Chance of rain 30%. **Tonight:**

Partly cloudy skies. Low near 70F. Winds WSW at 5 to 10 mph. Tomorrow:

Partly cloudy. Highs in the low 90s and lows in the upper 60s.

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.