### **INCIDENT ACTION PLAN**

Be brief and concise with your entries

| Location   |  | Control Level   | Operational Period  |                                     |
|--|--|---|---|-------------------------------------|
| Bayou Corne<br>Sink Hole   |  | Company Supervisory   | From 2/20/15  | To 2/21/15                          |
|  |  |   |   |                                     |
| <b>1.0 SITUATION</b><br>Disease, community,<br>environment<br>PROMPTS:<br>Weather, disease trends,<br>Resources, Hazards & safety<br>REFERENCE:<br>Maps, weather reports, Sitreps,<br>appreciation, warnings, alerts | CURRENT         PM Showers         PREDICTION         Mostly cloudy early with showers developing later in the day. 50%         chance of precipitation. High Temperature near 64. |   |   |                                     |
| 2.0 OBJECTIVES<br>(or MISSION)   | <b>CURRENT</b><br><b>Objective 1 -</b> Demonstrating sinkhole containment and determining if additional sinkholes could form.  |   |   |                                     |
| PROMPTS:<br>Time & space<br>REFERENCE:<br>Appreciation – control options,<br>courses open to disease   | of st<br>Obje<br>Dom<br>Curre<br>(For<br>ORW<br>- Con<br>- Mon<br>- Con<br>- Con<br>Conta<br>- Daily<br>Tomc<br>- Con  | Active 2 - Locating and mitigatine<br>mallow gas.<br>Active 3 - Confirming the broad-<br>me.<br>Actions:<br>planning purposes only, all action<br>, MRAA, PMW, and PVW wells<br>duct daily well readings and flare mainten-<br>itor continuous dewatering of ORWs<br>duct Phase 4 Zero Verification Test at OR<br>ainment/ Roads/ Sinkhole<br>y berm inspections<br>Activities<br>duct daily well readings and flare mainten-<br>duct daily well readings and flare mainten-<br>duct daily well readings and flare mainten-<br>duct daily berm inspection | er stability of the f<br>ivities are subject<br>ance                              | Napoleonville Salt                  |
|  |  | khole Activity – Code 3   |   |                                     |
| 3.0 EXECUTION at   | dd safety  | r information as appropriate  |   |                                     |
| GENERAL OUTLINE<br>PROMPTS:<br>Strategies & tactics<br>(current/proposed/alternate)<br>REFERENCE:<br>Appreciation, Control Options   | Ad<br>the<br>Ins<br>Da<br>PP   | fety Information: See Attache<br>Reference I<br>ditional to our Safe Work Rul<br>awareness of insects, reptiles<br>pect location for flammability<br>ily Safety Meetings<br>E Required on site: Respirato<br>ppling, eye protection, life pre   | AP dated 8/9/12<br>es for this projec<br>s and animals.<br>/<br>or w/ VOC Cartric | ct we are adding<br>Ige, Gloves for |

| GROUPINGS   | NA   |  |  |
|---|--|--|--|
| TASKS<br>Including PR & Media   | Same as above  |  |  |
| COORDINATING<br>INSTRUCTIONS<br>PROMPTS:<br>Timings, routes, assembly<br>areas, staging areas   | Texas Brine Grand Bayou Facility will be used as staging area.   |  |  |
| <b>4.0 ADMINISTRATION</b> (Logistics support)<br>PROMPTS: Unit names, locations, contact names, phone no's, timings, duties/tasks, routes, suppliers, quantities, status (required, organised, stand by, enroute) |  |  |  |
| SUPPLY<br>WHO, WHAT, WHERE, WHEN<br>of resources not readily<br>available   | ΝΑ   |  |  |
| GROUND SUPPORT<br>Transport of personnel, traffic<br>mgt, refuelling, mechanical<br>repair/maintenance  | NA   |  |  |
| COMMUNICATIONS<br>Installation, maintenance,<br>technical advice  | Cell Phone & Landline Communications:<br>Chad Morales – Area Manager –<br>Scott Borne – Facility Manager –<br>Scott Borne@texasbrine.com<br>Joel Miller, PE – Consultant –<br>Joel Miller, PE –<br>Joel Miller, PE –<br>Joel Miller, PE –<br>Consultant –<br>Joel Miller, PE –<br>Scott Whitelaw –<br>Scott Whitelaw –<br>Environmental/Safety –<br>Mark Cartwright<br>Swhitelaw@tum.com |  |  |
| STAGING AREA/<br>FCP<br>Setting up, communications,   | Texas Brine Grand Bayou Facility<br>1301 Hwy 70 South, Belle Rose, La 70341  |  |  |

staffing

### 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)

| stand by, enroute)                                       |  |  |  |
|--|--|--|--|
| FACILITIES<br>Security, waste, cleaning                  | ΝΑ   |  |  |
| CATERING   | ΝΑ   |  |  |
| OH&S/MEDICAL<br>Medical plan, first aid plan             | Call 911   |  |  |
| FINANCE  | ΝΑ   |  |  |
| TRAVEL   | NA   |  |  |
| INDUCTION/<br>TRAINING                                   | ΝΑ   |  |  |
| ACCOMMODATION  | ΝΑ   |  |  |
| 6.0 CONTROL, COORDINATION & COMMUNICATION                |  |  |  |
| CONTROL &<br>COORDINATION<br>STRUCTURE                   | Plant Management Supervision / Contractor Work             |  |  |
| REFERENCE<br>Structural Chart                            |  |  |  |
| COORDINATION &<br>LIAISON                                | ΝΑ   |  |  |
| Local knowledge, police, agency reps, emergency mgt reps |  |  |  |
| COMMUNICATIONS   | Plant Management – Contractor Communication via Cell Phone |  |  |

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

| Belle Rose, Louisiana, Unit  | ed States        |
|--|------------------|
| Today's Forecast: Friday, 2  | 0 Feb 2015       |
| 64°F<br>57°F   |                  |
| Sky Conditions: PM Showers<br>Sunrise: 6:39 AM Sunset:<br>Wind: SE (127°) @ 14Mph<br>Precipitation Probability: 50 |                  |
| View your complete Local   | <u>Weather »</u> |
|  |                  |

|   | Saturday<br>21 Feb 2015  | <b>Sunday</b><br>22 Feb 2015 | <b>Monday</b><br>23 Feb 2015 | <b>Tuesday</b><br>24 Feb 2015 |
|---|--------------------------|------------------------------|------------------------------|-------------------------------|
|   |                          |                              | 128                          |                               |
|   | 3 MAR                    | 3 MAR                        | ANY PARTY OF                 | ANT PARTY OF                  |
| F | PM Thunderstorms<br>75°F | AM Thunderstorms<br>75°F     | Showers<br>50°F              | Showers<br>53°F               |
|   | 59°F                     | 45°F                         | <b>36°F</b>                  | 35°F                          |

### **Detailed Forecast**

#### Today:

Mostly cloudy early with showers developing later in the day. High 64F. Winds SE at 10 to 20 mph. Chance of rain 50%.

Tonight:

Overcast with rain showers at times. Low 57F. Winds SSE at 10 to 15 mph. Chance of rain 50%.

#### **Tomorrow:**

Afternoon showers and thunderstorms. Highs in the mid 70s and lows in the upper 50s.

| Seismic<br>Code | Seismic Activity  | Sinkhole Access   | Berm Road Access  | Work Allowed  |
|-----------------|---|---|---|---|
| 1               | Minimal to no seismic activity<br>around/below sinkhole; 10 or fewer<br>of the sharp seismic signals<br>associated with rock movement,<br>called mini-earthquakes (MEQs) or<br>the longer signals associated with<br>gas or liquid movement, called Very<br>Long Periods (VLPs) within 24-hour<br>period; allows work on sinkhole and<br>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<br>roads unless an area is physically<br>barricaded.  | Approved work allowed in<br>unrestricted areas. Work area<br>must be cleared of hazards and a<br>Work Permit issued before start.   |
| 2               | Indicates some increased seismic<br>activity around/below sinkhole but<br>not at a level that indicates<br>imminent threat of sloughing or<br>movement below sinkhole (10 to 50<br>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<br/>have a designated person<br/>with means to warn all<br/>workers of unusual activity<br/>on sinkhole.</li> </ul> |
| 3               | Indicates seismic activity has<br>elevated to a point similar to what<br>has been seen in past monitoring<br>prior to a sloughing on the shore or<br>movement beneath sinkhole (More<br>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<br>north berm from the TBC Access road<br>to Rig Road (unless restricted for non-<br>seismic reasons). All other berms<br>open only to UTVs for personnel<br>doing approved work. Anyone on a<br>UTV must have a radio, air horn, and<br>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.