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| connellylogo | **Job Safety Analysis Worksheet** |  |

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| **Contractor:** | Connelly & Associates, INC. |  | **Date:** | **5/1/13** | |  | | **Job Number:** | | Yes No | | |
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| **Team Name:** |  |  |  | | | |  | **Job Name:** | |  | | |
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| **Team Leader** |  |  | **JSA team members:** | | **Name** | | | **Initials** | **Name** | | | **Initials** |
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| Description of work: | Monitoring Wells Installation Via Mud Rotary |  | | |  | | |  |  | | |  |
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| Activity List the tasks required to perform the activity in the sequence they are carried out. | Hazards Against each task list the hazards that could cause injury when the task is performed. | Risk control measures List the control measures required to eliminate or minimize the risk of injury arising from the identified hazard. | Severity Ranking |
| 1. Pre-construction Health & Safety Meeting/General Site Activities | See "General Site Activities" JSA | All employees assigned to this task will attend a pre-construction health and safety meeting, which will include the pertinent JSA, Site Safety Procedures manual, types of potential hazards, and actual hazards present and controls for those. |  |
| 2. General site activities | -Traffic Hazards  -Fire/Explosion | -Establish traffic control patterns as described in GSC's traffic control plan, utilizing cones, signage, and reflective traffic safety vests.  -Keep fire extinguisher within 25' of operation; Monitor area with PID or LEL meter to ensure vapor concentrations <10% LEL and below action level for contaminants of concern (see site-specific HASP for details). No smoking signs posted; smoking on site prohibited |  |
| 2.. After a minimum of 5 feet of competent rock has been drilled, proceed to pull drill string from the borehole. [This is the case where borehole cave-in is not a possibility] | Overhead Hazards from pulling out drill strings and inserting PVC.  -Noise hazard  -Back injury/strain | Wear hard-hat  -Don appropriate hearing protection  -Use safe lifting techniques; request assistance when handling heavy loads (>50 lbs) |  |
| 3. Insert casing. | Same as above | Same as above |  |
| 4. Pour Portland cement/bentonite grout into the hole and up the annular space outside the casing. [Allow grout to set for a minimum of 24 hours.] | Inhalation hazard; dust from pouring cement/bentonite prior to mixing with water  -Back injury from lifting heavy cement and bentonite bags | Add water to bags of cement/bentonite prior to mixing contents to reduce dust  -Wear appropriate respiratory protection (dust mask)  -Utilize proper lifting procedures (lift with knees not back); use wheel-barrow, dolly, or cart to transport materials |  |
| 5. Drill out cement and advance borehole to desired depth | Noise hazard from drilling through cement  -Flying debris/cement | Wear appropriate hearing protection  -Wear approved safety glasses at all times |  |