



## PROJECT SITUATION REPORT

<b>Project:</b>	DISC Drill, WAIS Divide		
<b>Project Manager:</b>	Alex Shturmakov		
<b>Report No:</b>	1	<b>For period:</b>	12-4-06 <b>through</b> 12-10-06
<b>Prepared by:</b>	Jay Johnson	<b>Date:</b>	12-10-06

<b>Weather Conditions:</b>	Temperature range 4°C to -12°C, max. Sustained wind: 45 kph.
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<b>ICDS Personnel on Site:</b>	Jay Johnson Brent Folmer
<b>Other Personnel on Site:</b>	

### ACTIVITIES DURING PERIOD

- Travel from Madison Wisconsin to Christchurch New Zealand. Brent and I left Madison on Sunday December 3<sup>Rd</sup> and arrived in Christchurch on December 5<sup>th</sup>.
- Wednesday we were issued our ECW gear at the CDC.
- At 7:00 AM on Thursday we departed Christchurch on a C17. We landed at McMurdo Station at 11:30 AM.
- Brent attended Happy Camper School.
- I attended Happy Camper Refresher class.
- Verified status of our cargo. We have two remaining pallets in McMurdo. They are scheduled to go to WAIS Divide on the next flight.
- Packed sleep kits for Brent and Myself.
- Reviewed deployment (Dec 14<sup>th</sup>) and return (Dec 30<sup>th</sup>) dates for WAIS Divide with fixed wing ops.

### COMMENTS

(Problems, Concerns, Recommendations, Etc.)



## PROJECT SITUATION REPORT

<b>Project:</b>	DISC Drill, WAIS Divide		
<b>Project Manager:</b>	Alex Shturmakov		
<b>Report No:</b>	2	<b>For period:</b>	12-11-06 <b>through</b> 12-17-06
<b>Prepared by:</b>	Jay Johnson	<b>Date:</b>	12-17-06

**Weather Conditions:** Temperature range -13°C to -21°C, Wind 3 to 9 kph. (At WAIS)

<b>ICDS Personnel on Site:</b>	Jay Johnson Brent Folmer
<b>Other Personnel on Site:</b>	

### ACTIVITIES DURING PERIOD

- Brent and I flew to WAIS Divide on Wednesday. The flight from MCM to WSD took 3 ½ hours.
- Installed gantry crane rails.
- Started and finished Assembly of the Blue gantry crane.
- All DISC Drill cargo sent for this season is at WAIS Divide.

### COMMENTS

**(Problems, Concerns, Recommendations, Etc.)**

Four out the five gantry crane pallets sustained damage from being combat offloaded at WAIS Divide. All equipment appears to be undamaged and in good shape.



## PROJECT SITUATION REPORT

<b>Project:</b>	DISC Drill, WAIS Divide		
<b>Project Manager:</b>	Alex Shturmakov		
<b>Report No:</b>	3	<b>For period:</b>	12-18-06 <b>through</b> 12-24-06
<b>Prepared by:</b>	Jay Johnson	<b>Date:</b>	12-24-06

**Weather Conditions:** Temperature range -11°C to -19°C, Wind 1 to 12 kph.

**ICDS Personnel on Site:** Jay Johnson  
Brent Folmer  
Beth Bergeron - Lead driller for the pilot hole  
Michael Jayred

**Other Personnel on Site:**

### ACTIVITIES DURING PERIOD

- Assembled the yellow gantry crane. Brent and I along with one of the carpenters assembled the crane in two days.
- Powered up the blue gantry crane with a temporary generator. Brent installed the wiring, disconnect box, and junction box between the crane and generator. The crane is now fully operational. The construction crew will be using it to assist with the slot excavation.
- Designed brackets and made a material list of items needed to mount the gantry crane power cable chains to the wall of the building.
- Conducted tests to determine the effectiveness of using a vibrator to remove chips from the drill screens. Placing the vibrator on the top of a screen did a good job of removing packed chips from a screen. Placing the vibrator on the side of the screen didn't work, at least with our setup. We ran tests with the vibrator set to exert 40lbs, 80lbs, and 130lbs of force.
- Installed the pilot hole casing. Casing has been set to a depth of 88.5 meters below the floor level. Reaming of the 7" diameter portion of the pilot hole (17meter) still remains to be completed. Setting the casing prior to finishing the reaming phase was done to ensure Brent, Michael, and I are able to meet our Wednesday departure date from WAIS Divide. Beth will remain at WAIS divide to work on another project and therefore will be able to finish any reaming not completed by the time the rest of us leave. Installation of the casing took eight hours with a crew of four people. The installation process went smoothly and as planned. Many of the casing sections were warped, some as much as 6" in 15'. We were aware of this when we shipped the casing to WAIS Divide. The warped piece straightened them selves out as they were put down the bore hole and didn't cause any problems with installation.

**COMMENTS**

**(Problems, Concerns, Recommendations, Etc.)**

WAIS Divide needs a D6 bulldozer with a snow blade. Managing the snow build up and drifting at the drill site has already exceeded the capacity of the 953 loader after just one season.



## PROJECT SITUATION REPORT

<b>Project:</b>	DISC Drill, WAIS Divide		
<b>Project Manager:</b>	Alex Shturmakov		
<b>Report No:</b>	4	<b>For period:</b>	12-25-06 <b>through</b> 12-31-06
<b>Prepared by:</b>	Jay Johnson	<b>Date:</b>	12-31-06

### Weather Conditions:

<b>ICDS Personnel on Site:</b>	Jay Johnson Brent Folmer Beth Bergeron - Lead driller for the pilot hole Michael Jayred
<b>Other Personnel on Site:</b>	

### ACTIVITIES DURING PERIOD

- This will be the final report for this season.
- We took Monday off to observe Christmas.
- Beth (Bella) and Michael finished reaming of the pilot hole on Wednesday. Please see Bella's reports for information pertaining to drilling and reaming of the pilot hole.
- Brent, Michael, and I flew from WAIS Divide to McMurdo station on Wednesday.
- Brent and Michael returned their sleep kits to the BFC. Mine remained at WAIS Divide to be used by Jay Kyne. Bella and Jay will bring it with them when they return to McMurdo Station.
- Bella will retro the case containing the equipment for the screen/vibrator test back to Madison when she retros the 4" drills and reamers.
- The three of us were scheduled to fly from McMurdo Station to Christchurch on Saturday Dec. 30<sup>th</sup>, but due to a mechanical problem our flight has been delayed until Tuesday Jan. 2<sup>nd</sup>.

### COMMENTS

(Problems, Concerns, Recommendations, Etc.)