THE HIGHLIGHTS

SITE LEARNING - WORKING IN A LIVE CANAL, BY ER478

PROJECT HIGHLIGHTS

In January 2017, ER478 have commenced their Piling works located at PUB’s Pang Sua Canal.
To facilitate better control of the project, the following conditions are to be maintained at all
stages of the construction activity:

☑️ Existing canal to be kept in free-flowing condition at all times
☑️ CCTV monitoring system was installed at various location to monitor the site condition
☑️ To continuously maintain the portion of the drain affected by the work (if any), until the
completion of the work

Prevent It

1. Strictly follow approved Method Statement by PUB
2. Apply Limitations:
   - Temporary structures are allowed to be constructed to a height of not more than 300mm
     from existing invert level

☑️ Reason: To ensure that heavy rain water will be contained within canal as its original condition
3. Qualified Person (QP) to conduct regular checks for working in the canal

Act On It

Overflowing Observed:
1. Area in Charge to inform Site Supervisor to divert traffic from Stagmont Ring Rd according
to the Road Diversion Plan

Flooding Observed:
1. Once Pre-Warning Alert is received, all materials and machinery will have to be removed
2. Head count will be taken in the temporary guardhouse at the work area
3. All Access / Egress / Site Entrances to be closed
4. Site Supervisor to monitor and check for rising water in the canal. Site Supervisor should also
   check if the Water Level Alert remains Normal and standby to activate evacuation
   procedure when necessary

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CONTROL IT

1. Installed 3 CCTV Cameras for monitoring of canal’s status
2. Flood float alert (right picture) installed to raise awareness when water in invert drain rises above 150mm
3. Install Water Sensor 1Km upstream of the canal. Sensor will alert the designated person via SMS
4. RC Piles are driven to set and holes immediately patched back with hardcore and concrete to prevent soil from washing out during rain
5. No Materials or Machinery are to be left unattended within the canal everyday after work
6. EHS Personnel shall inspect the work area daily maintaining a safe work environment and control of access into work zone

ACT ON IT

Evacuation Exercise:
1. SCDF have been invited to perform the correct Rescue Training & Rehearsal in the Canal

BEFORE

AFTER
In Issue #2 of ‘The Highlights’, the Electronic Permit (E-Permit) was introduced to Project ER478 to familiarise the team with the system. Over the past few months, the E-Permit was also introduced to all other projects like Project ER397A. After almost 6 months of using the system, HSB has taken the advantage of technology to also use electronic platform into our ‘Near Miss Reporting’ procedure.

**E-PERMIT**

**Plan & Prepare (Engineer)**

1. Plans work the day before
2. Prepares the blank PTW on your device for tomorrow

**Application (Supervisor)**

1. Applies the PTW prepared the day before
2. Checks the PTW and the points mentioned
3. Hands to WSHE Dept for verification

**Assessment (WSHE Personnel)**

1. Assess the PTW and the Site Condition
2. Confirms that relevant documents are attached
3. Verified PTW to be sent for approval

**Approval (PTW Approver)**

1. Verifies all necessary documents are in order
2. Assess Site Condition
3. Approves the PTW

**“Paperless” Near Miss Reporting**

1. Achieve an effective Incident Reporting System
2. Save paper but not saving on the chance to report a potential “Near Miss”
3. Evidences are recorded as it happens decreasing the chance of losing important details

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**THE HIGHLIGHTS**

**HSB HIGHLIGHTS**

**ELECTRONIC PLATFORM FOR PTW & NEAR MISS REPORTING**

...from Pg 3

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**NEAR MISS REPORTING**

**Report & Identify**
1. Report Near Miss and Identify related Activity and Hazard
2. Submit the Near Miss Report

**Confirm, Classify Assign, Act (WSHE Personnel)**
1. Confirm & Classify - Minor or Major?
2. Identify the Responsible Party and Follow Up Action(s)

**Rectify and follow up (Responsible Party)**
1. Responsible Party carry out, submit necessary records of the Follow Up Action(s)

**Verification (WSHE Personnel)**
1. Verifies the Follow Up Action(s) are carried out in order
2. Closes the Report

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**PLAY AND WIN!**

1. Suggest 2 control methods for working in a live canal
2. Advantages of using the Electronic Platform for ‘Near Miss’ Reporting
3. Describe the process when you discover a ‘Near Miss’

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**Terms & Conditions:**

Be the first 3 to answer the questions correctly!
Email your answers to damylng@hwaseng.com.sg and get a chance to win a prize!

**Last Month’s Winners:**
1. Erianto, Senior Engineer (Project)

Your prizes will be sent to your specific site by 22th Feb 2017.

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