Water for All : Conserve, Value, Enjoy

To: QP

Dear Sirs,

## PUB's ADVISORY NOTES FOR COMMENCEMENT OF SANITARY/SEWERAGE WORKS

Thank you for submitting Form A to notify us of the commencement of sanitary/sewerage works upon obtaining CBPU's BP/DP clearance certificate for the proposed development.

2 We would like to highlight the following sewerage requirements which are to be complied with before commencing any works near the existing sewers or carrying out the sewer connection to the existing sewer/manholes. QP is reminded that, if the requirements have not yet been complied with, he should immediately make submissions to obtain the necessary approvals before commencing the sanitary/sewerage works:

**(a) Prevent Damage to Existing Sewers:**

(You are advised to refer to http://www.pub.gov.sg/general/Pages/PreventionofDamage.aspx for the most updated and comprehensive information pertaining to the prevention of damage to the sewerage system, the procedures for approval submission, and etc)

(i) obtain a sewerage interpretation plan (SIP) and carry out the verification on site to ascertain the actual locations and alignments of these sewers;

(ii) even if the public sewer is outside the lot but structure works such as boundary wall or retaining wall or any excavation works would be carried out within the sewer setback distance stipulated in the Code of Practice, CCTV survey of the sewer is required. A CCTV specialist contractor should then be engaged to carry out a pre-construction CCTV sewer survey inspection to show the conditions of all the existing sewers within the lot as well as any public sewer outside the lot but within the sewer setback of any excavation/boundary wall/retaining wall;

[Please note that the CCTV inspection report / video shall comply with the PUB (WRN)'s CCTV inspection survey requirement as posted in our website (http://www.pub.gov.sg/general/Pages/PreventionofDamage.aspx#Prevention). The list of CCTV contractors is available at PUB's Internet website at http://www.pub.gov.sg/general/Documents/CCTV_Contractor_List.pdf];

(iii) for Item (ii) above, QP shall submit to PUB (WRN) an application (PUB-SEW-CLRDEV-OVER-SEW) via the Corenet e-submission system(eSS) to PUB (WRN) and obtain a written clearance from the Director, PUB (WRN);

(iv) upon submitting the application via Corenet-eSS to PUB, forward the hardcopy of the CCTV survey report and the DVD discs to:

[Please note the following: i) CCTV inspection report shall be in both hardcopy and softcopy (PDF)

ii) Manhole ID and sewer ID shall be indicated in both report and video.

iii) Manhole report shall be included

iv) Video shall be in MPEG/AVI format]

**Planning Division**
**Water Reclamation (Network) Department**
**PUB**
**#14-01 Environment Building**
**Singapore 228231**

(V) ensure that **no work (temporary or permanent) to be commenced if the approval letter for works affecting the public sewers within/adjacent the lot has not been obtained from PUB (WRN).** If any excavation/structure works near the public sewer has commenced without submission of pre-construction CCTV sewer survey report and prior approval from PUB (WRN), the owner/QP is liable to rectify any defects in the existing sewers shown in the post-construction CCTV report/DVD disc which is to be submitted with the QP's Form C when applying for the sewerage clearance for the completed sewerage/sanitary works.

[Pl consult Planning Division at Tel 6731 3656) if you have any queries on the CCTV requirements or approval status of your submissions

**(b) Carry Out Sewer Connection Works:**

(i) carry out the verification on site to ascertain the actual location/invert level of the existing public sewer/manhole for which the sanitary drainline connection is to be made. If the existing sewer/manhole is located within private land or state land, you are to ensure that the land owner's (or SLA for state land) consent has been obtained for any excavation works or sewerage works to be carried out on the land;

(ii) submit the Form B/QP (PUB-SEW-Form_B) via Corenet eSS to PUB (WRN) and obtain the approval before carrying out any sewer connection works to the public sewer/manhole;
[The Form B submission shall accompany with the following documents:
(i) The Safety Officer's Confined Space / Manhole Safety Assessor Course Certificate;
(ii) The Certificate of Registration of a Factory under the Workplace Safety and Health Act;
(iii) The Activity-based Risk Assessment Form as required by MOM (- please use the Activity-based Risk Assessment Form and refer to the Quick Guide to Risk Assessment at MOM's Internet Website: http://www.mom.gov.sg/publish/momportal/en/communities/workplace_safety_and_health/maintaining_a_safe_workplace/occupation_safety/risk_management.html);
(iv) The detailed layout & sectional plans showing the sewer connection works which is to be endorsed by the QP/PE.]

(iii) submit the Form B1/QP via fax (No. 63820692) to our Network Management Branch (Waterhub, Tel 65172218) to notify the actual period of executing the connection works and arrange for NMB staff to witness the sewer connection works before backfilling the trench;

(iv) proposed abandoned sewer shall not be sealed off until the new diversion sewer has been completely inspected and certified fit for use and the flow diversion work is completed. Prior approval from PUB (WRN) shall be obtained before carrying out the diversion of flow and sealing works;

3 All new manholes shall be provided with a multistrand polypropylene nylon rope netting and it is to be installed just below the manhole cover. The standards drawings of the netting (PUB/WRN/STD/008) can be viewed at the PUB website at http://www.pub.gov.sg/general/Pages/StandardDrawings-Sewerage.aspx.

4 For Sewerage-M&E works for the sewerage pumping system (if any), the PE(M&E) shall submit the Form D/QP (PUB-SEW-Form-D) and relevant location/floor plans, detailed drawings/ catalogues/calculations of the pump system via Corenet eSS to PUB(WRN) for approval.

5 The proposed sewerage/sanitary system for the development shall be constructed under the supervision of the QP, in accordance with the CBPU registered detailed sanitary plan, the Code of Practice on Sewerage and Sanitary Works, Sewerage and Drainage Act and the Sewerage and Drainage (Sanitary Works) Regulations. QP shall witness the hydrostatic (water) test for sanitary drainlines/inspection chambers/sewer connection lines/sewers/manholes and carry out inspection of the completed sanitary/sewerage works. On completion of the inspection, QP shall submit the Form C/QP including the "As-built" plans & annexes via Corenet eSS to PUB (WRN). PUB will carry out its own inspection and hydrostatic tests for randomly selected projects before the issuance of the Sewerage Clearance for TOP/CSC.

6 We would appreciate it if you could disseminate the above to remind your site staff and contractors for the project. Thank you.

(Sent via Corenet eSS, signature is not required)
**AUTHORISED OFFICER**
**WATER RECLAMATION (NETWORK) DEPARTMENT**
**PUB**