MTR Corporation Limited

Kwun Tong Line Extension (KTE)

Further Inspection Report of Three Kerosene Tanks for the Kerosene Store at Chung Hau Street (June 2012)

Verified by	:
Position:	Independent Environmental Checker
Date:	7 Fun 2012

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Position:	Environmental Team Leader
Date:	J Jule 2012

NISHIMATSU CONSTRUCTION CO. LTD.

MTRC Contract No. 1001 Kwun Tong Line Extension: Yau Ma Tei to Whampoa Tunnels and Ho Man Tin Station

Further Inspection Report of Three Kerosene Tanks For the Kerosene Store at Chung Hau Street

(Version 2.0)

June 2012

Approved By

(Principal Environmental Consultant:

Mr. K.S. Lee)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties.

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1 INTRODUCTION

- 1.1 The Kwun Tong Line Extension (the Project) is the proposed extension of the existing Kwun Tong Line (KTL) from Yau Ma Tei (YMT) Station to a new Whampoa (WHA) Station with an interchange with the proposed Shatin to Central Link (SCL) at the proposed Ho Man Tin (HOM) Station.
- 1.2 The Project is classified as a designated project under the Environmental Impact Assessment Ordinance (EIAO). An Environmental Impact Assessment (EIA) report was prepared and approved on 19 August 2010 (Register No.: AEIAR-154/2010).
- 1.3 Land contamination assessment was conducted and presented in Section 11 of the EIA. The EIA report mentioned that potential contamination is anticipated at the concord kerosene store at No.33, Chung Hau Street, Ho Man Tin due to the 3 kerosene storage tanks at the lowest floor of the store. Soil sampling was conducted at borehole BH1 which is located on the existing slope beneath Concord kerosene store. The location of Kerosene store and borehole BH1 were illustrated in **Appendix I**. Analysis results of the samples as included in the Contamination Assessment Report (CAR) in Appendix 11.2 of the approved EIA indicated that no exceedance of the Risk-Based Remediation Goals for Soil and Soil Saturation Limit was found. There was no groundwater encountered at BH1. It was recommended in the EIA and CAR that when the permission for access is granted at the time when the land is resumed, a reconnaissance site visit should be carried out to review whether further SI would be required.
- 1.4 In the Environmental Permit (EP No.: EP-399/2010/A) Section 3.7 stipulated that "The Permit Holder shall carry out reconnaissance site visit to the kerosene store at Chung Hau Street (which falls within the Ho Man Tin Station works site). Within two weeks after the completion of reconnaissance site visit, the Permit Holder shall report to the Director in writing of any contamination hotspot(s) identified from the reconnaissance site visit.
- 1.5 Reconnaissance site visit has been conducted and the reconnaissance site visit report has been prepared to fulfil the permit condition. Recommendation has made in the report that no contamination hotspot was identified within the store except the three tanks and the internal surface of the concrete box containment. A further inspection should be conducted to determine whether there is crack and stain on the concrete box containment after removal of the tanks.
- 1.6 This report is prepared by the Contractor's environmental consultant to address the finding of the further inspection of concrete box containment after removal of the three kerosene tanks.

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2 KEROSENE STORE

- 2.1 The kerosene store at Chung Hau Street was operated by Concord Oil (Hong Kong) Limited until 2010 under the Short Term Tenancy land lease (STT KX1484). It is vacant currently. The location of the kerosene store is shown in **Appendix I**.
- 2.2 The kerosene store was built in 1970's. The store contains five levels: Roof Floor, Ground Floor, Lower Ground Floor, Sub-Lower Ground Floor and Underground Tank Level. There are three kerosene tanks in the Underground Tank Level. The as-built layout plan and the sectional view of the kerosene store are shown in **Appendix II**. These are the Buildings Department approved record drawings retrieved during design stage in 2008. The information in the drawings was mainly in line with our observations during the site visit.
- 2.3 According to the Contamination Assessment Plan (CAP) in Appendix 11.1 of the approved EIA, there was no record of spillage incidents reported at this kerosene store. The dimensions of all the 3 tanks are approximately 10m (L) x 5m (W) x 2.5m (H) and contained in a concrete box containment of 12.5m(L) x 6m(W) x 3.5m(H).

3 REMOVAL OF THE KEROSENE TANKS

3.1 Refer to the approved reconnaissance site visit report Section 4, the three tanks, the three pumps, the connecting pipes, the suspected stain area on the brick wall near the three pumps and the sand inside the concrete box containment, have been disposed of by means of chemical waste in accordance with Waste Disposal Ordinance.

4 FURTHER INSPECTION OF THE CONCRETE BOX CONTAINMENT

- 4.1 Further inspection of the Concrete Box Containment was carried out on 10 May 2012 with representatives from the project proponent, the main contractor, the consultant (Cinotech), the ET (MTR Corporation) and the IEC (Arup) after removal of the three kerosene tanks. The corresponding photos of inspected items are shown in **Appendix III**.
- 4.2 The concrete box containment was sited on a layer of filled rocks on the existing slope below the Sub-Lower Ground Floor of the Kerosene Store. No stain was observed on the base and wall of the box containment. No crack was identified on the walls or base of the concrete box containment. It can be confirmed that no hotspot is identified. No confirmatory soil sampling is required in accordance to the site visit report.

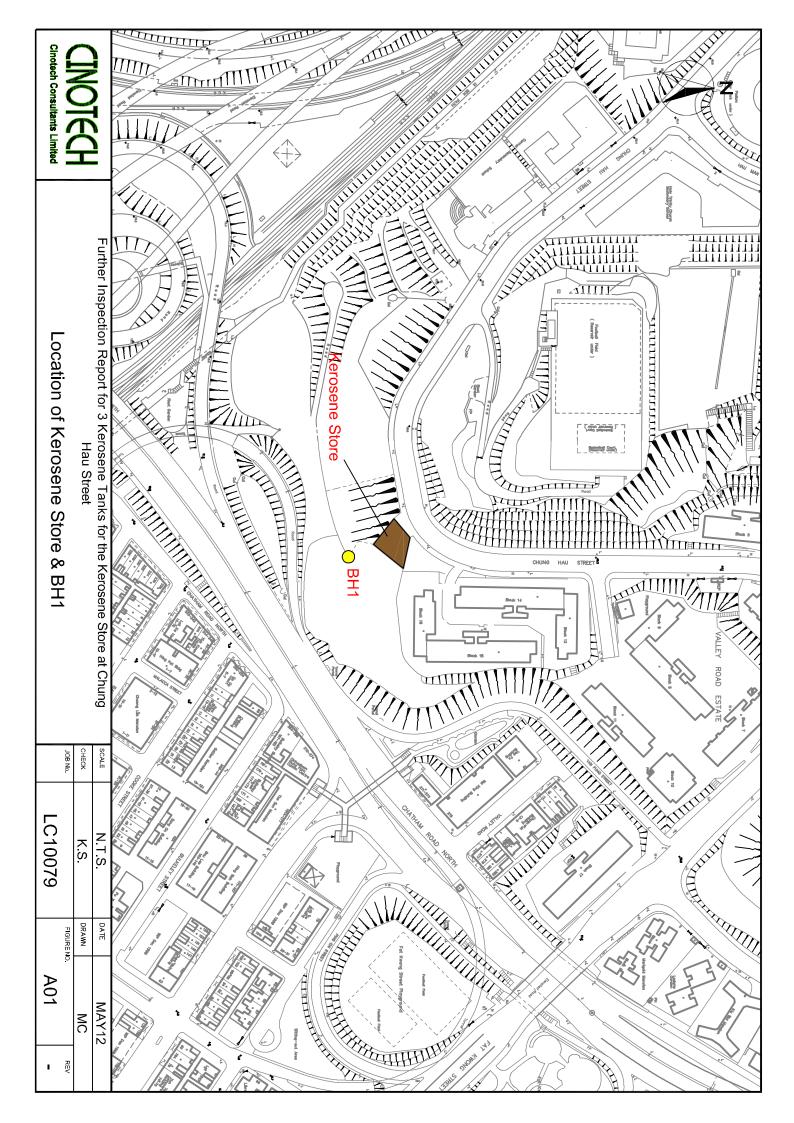
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5 CONCLUSION

- 5.1 Further inspection of the concrete box containment has been conducted after removal of the three kerosene tanks in accordance with the reconnaissance site visit report for the kerosene store at Chung Hau Street. No stain or crack was identified on the walls or base of the concrete box containment.
- 5.2 It can be confirmed that no hotspot is identified. No further soil sampling is required. The submission of CAP, CAR and RAP in accordance with the EP's condition section 3.7 is not required.

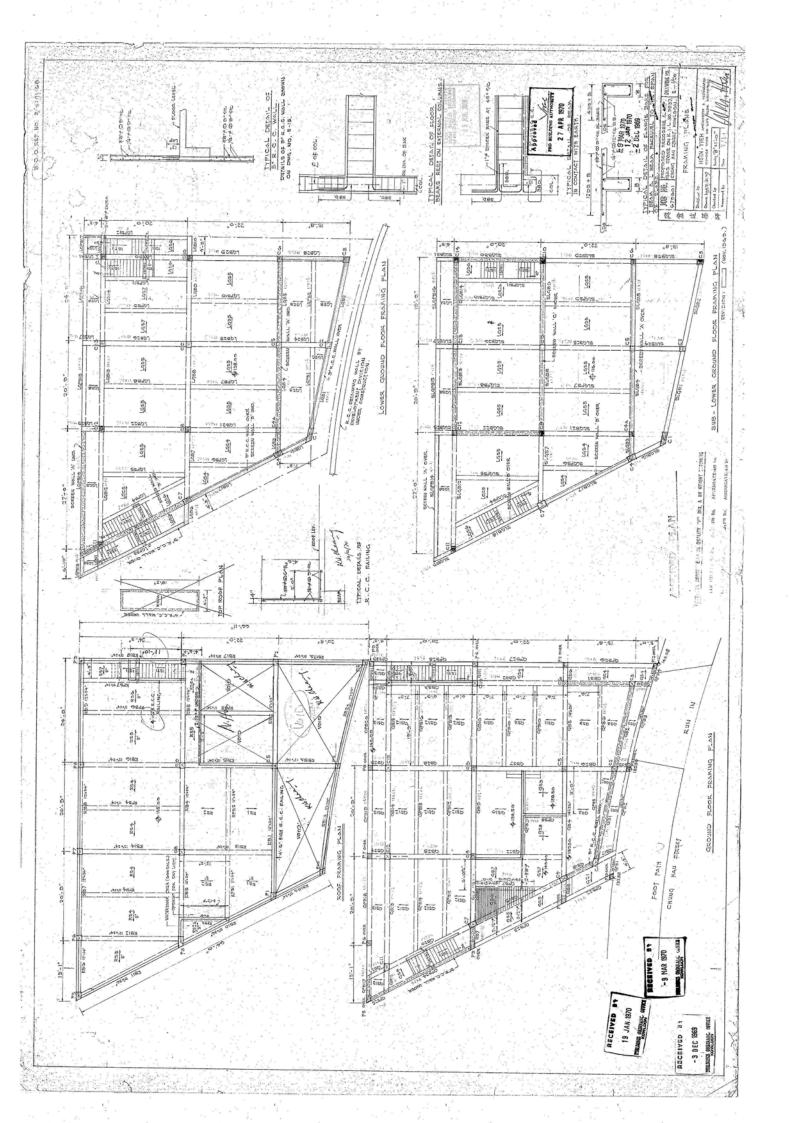
Appendix I

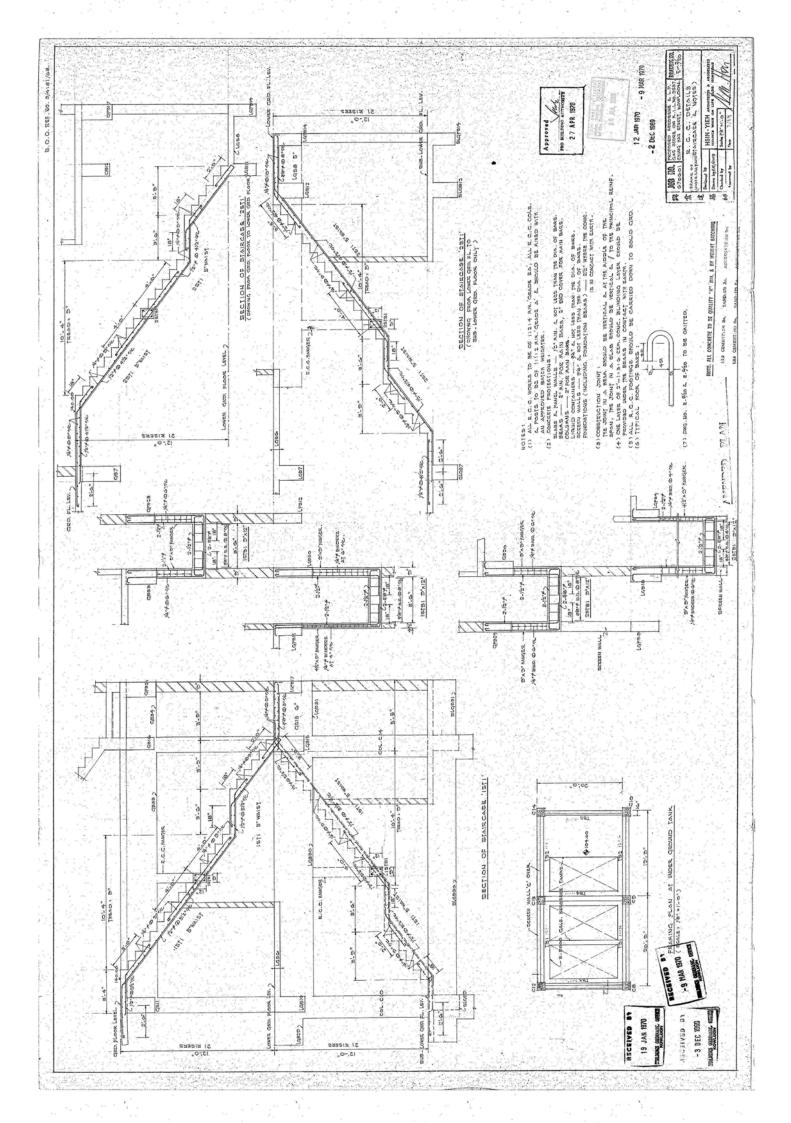
The Location of the Kerosene Store and BH1

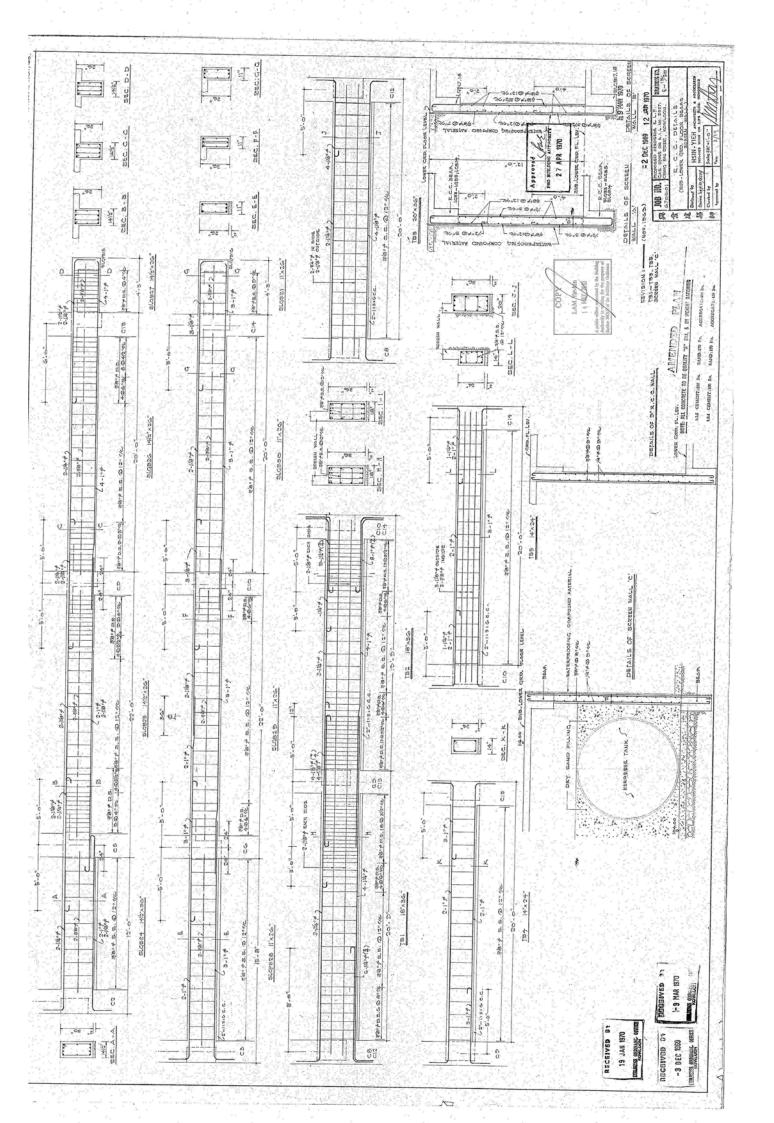


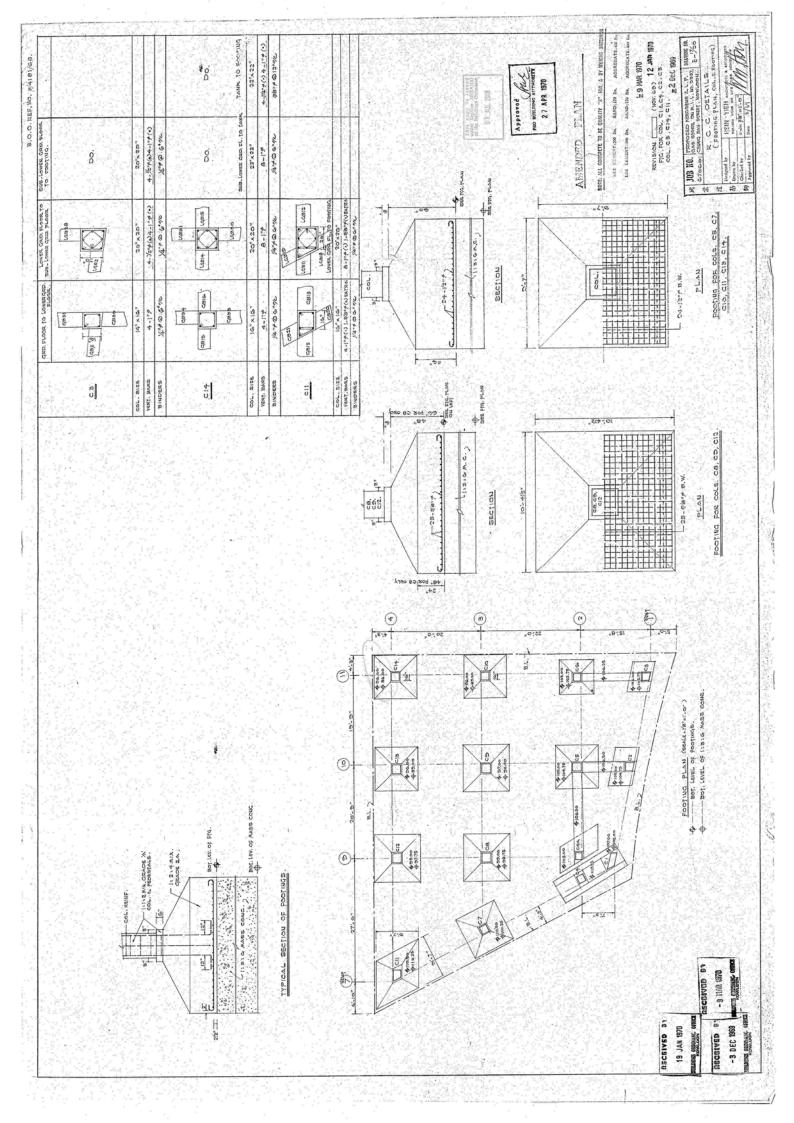
Appendix II

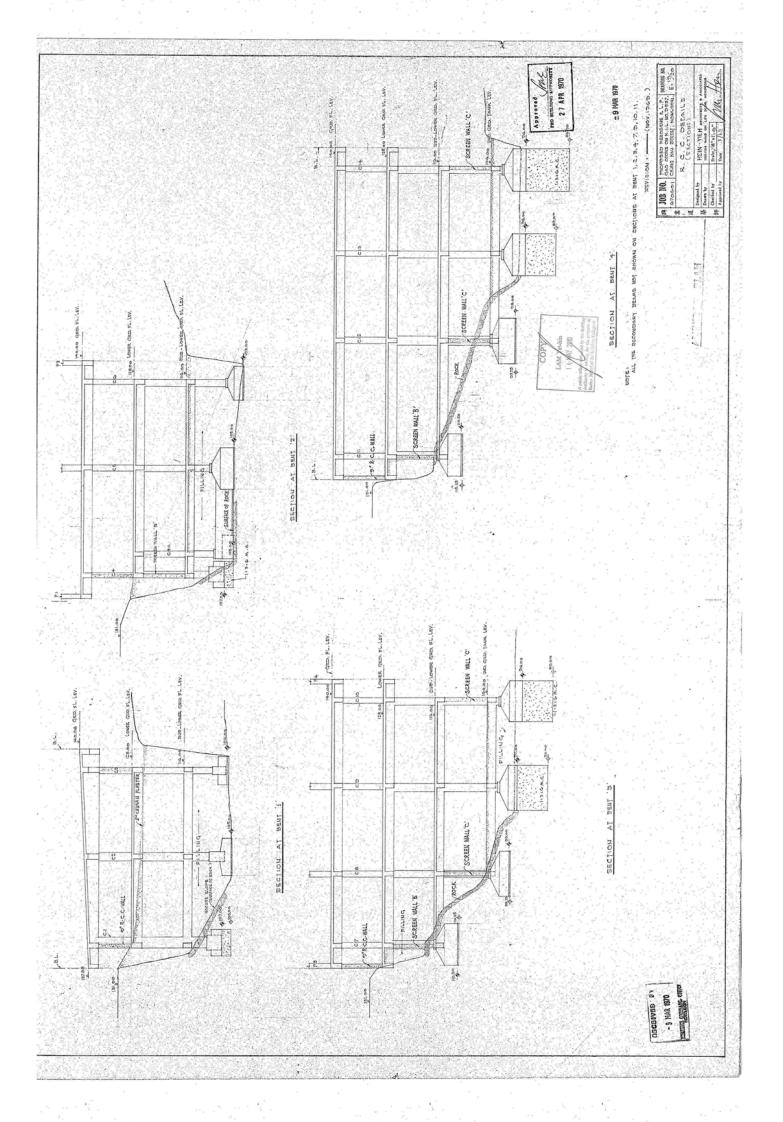
The Layout Plan and Sectional View of the Kerosene Store

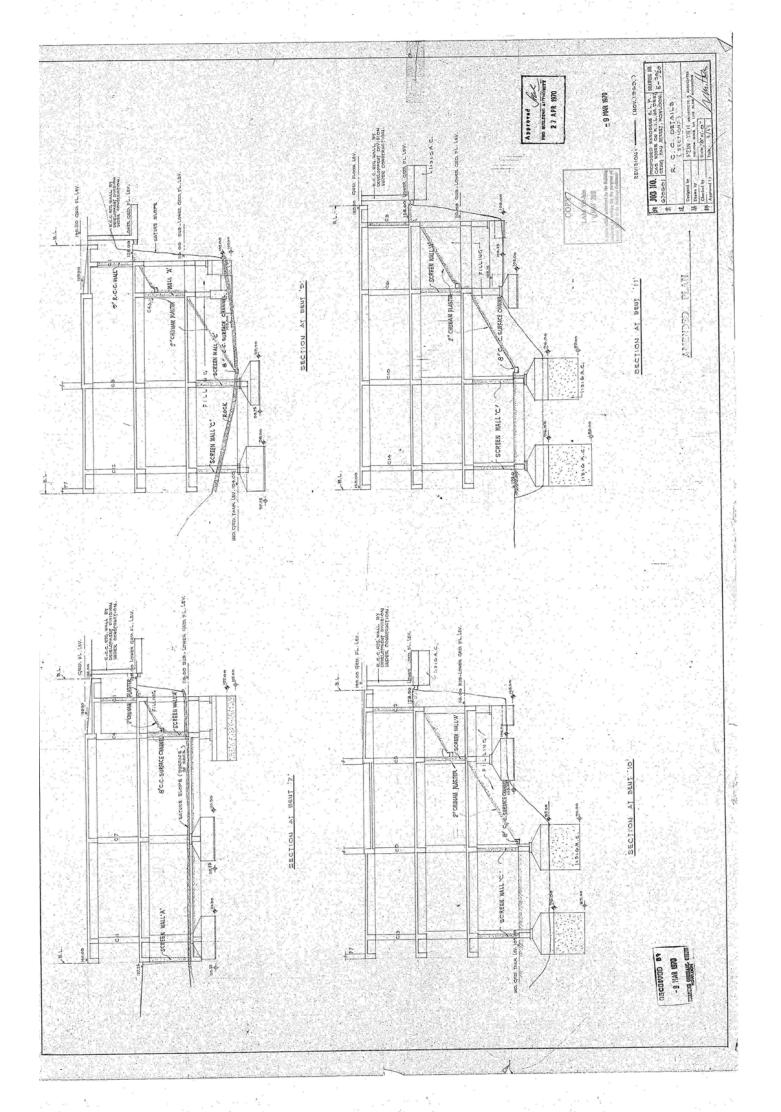












Appendix III

The Photos of the Inspected Box Containment During Further Inspection



Photo 1: A view of Kerosene Tanks inside the Concrete Box Containment

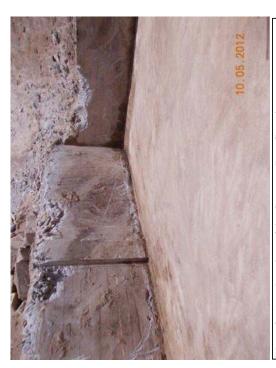


Photo 3: Another view of the Concrete Box Containment

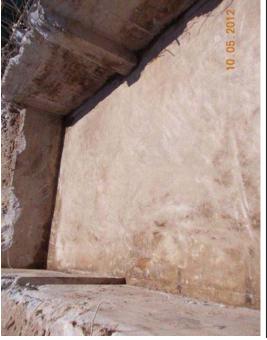


Photo 2: The Base and Walls of the Concrete Box Containment After Removal of the Three Kerosene Tanks.

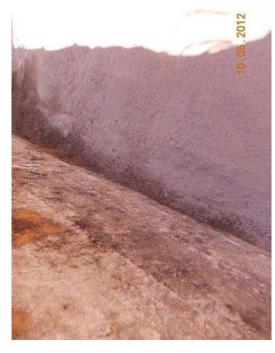


Photo 4: No stain or crack was identified on the walls or base of the concrete box containment.