

ITEM	3
MANAGER'S REPORT NO.	7
COUNCIL MEETING	91/02/04

TO: MUNICIPAL MANAGER
FROM: DIRECTOR PLANNING & BUILDING INSPECTION

DATE: 1991 JANUARY 23

**SUBJECT: PROPOSED BULK CAUSTIC STORAGE FACILITY
A COMPONENT OF THE ODOUR ABATEMENT SYSTEM
TRANS MOUNTAIN PIPELINE COMPANY LTD.
BURNABY MOUNTAIN TERMINAL AT
8099 SHELLMONT STREET, BURNABY**

PURPOSE: To provide Council with information on Preliminary Plan Approval Application #9933.

RECOMMENDATION:

1. THAT this report be received for the information of Council.

R E P O R T

1.0 INTRODUCTION:

The Planning and Building Inspection Department has received a Preliminary Plan Approval (P.P.A.) application (#9933) from Trans Mountain Pipeline Company Ltd. (T.M.P.L) for the installation of a bulk caustic storage facility as a component of the odour abatement system at the Burnaby Mountain Terminal at 8099 Shellmont Street.

This report is submitted consistent with the long-standing direction of Council to report on proposed oil storage or processing facilities in the Municipality.

2.0 BACKGROUND INFORMATION:

As part of the recent Stage 1 expansion of the Trans Mountain oil pipeline system, three new state-of-the-art tanks were constructed at Burnaby Terminal to provide additional storage capacity. The three new tanks were equipped with geodesic domes and vapour scrubbers to remove odour-causing sulphur compounds from atmospheric emissions and thereby reduce odours in nearby residential areas. An existing tank was also retrofitted with the same pollution abatement equipment. To maximize the removal of odours, petroleum materials with the highest odour potential are handled in these four tanks.

3.0 GENERAL INFORMATION:

- 3.1 Transmountain Pipeline's current P.P.A. (#9933) involves the installation of a bulk caustic storage facility at the Burnaby Terminal.
- 3.2 This facility is being added in order to handle caustic solutions which are used in the four tank odour abatement scrubbers. The new facilities are designed to handle fresh and spent caustic solutions in a safe and cost effective manner and to minimize the potential for spills of these materials.
- 3.3 Currently, spent caustic is being stored in a truck mounted tank at the Burnaby Terminal. The proposed new facility will replace this method of storage.

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3.4 The facility includes a 4,000 gallon tank for spent caustic and a truck transfer station. Both the tank and the truck loading/unloading station will be dyked to contain potential spills. The dyke containment volume is designed to be at least 110% (or 4675 gallons) of the total stored solution volume.

3.5 The spent caustic will be transferred into a tanker trailer and delivered by an authorized carrier to the Shell refinery, (for blending with their spent caustic) in compliance with the Transport of Dangerous Goods Regulations. 110

Trans Mountain expects to transport 4,000 gallons of spent caustic (one tanker trailer) every three months to the Shell refinery.

There the material is accumulated and then transported by tanker trailer to a pulp mill on Vancouver Island for reuse.

4.0 MUNICIPAL DEPARTMENT REFERRALS:

This application was referred to the Burnaby Fire Prevention Office and the Environmental Health Department for review and comment. Their comments are as follows:

4.1 Fire Prevention Office

"Approved - No requirements."

4.2 Environmental Health Department

"The subject application including the supporting documentation provided by the applicant has been received by this Department.

The environmental tank design, spill control and safety measures have been well addressed. However, the drain valve for releasing the storm water from the dyked area of the tank should be of a "lock-out" type, to ensure containment of caustic during transfer operation and accidental discharge.

This information has been relayed to the applicant."

5.0 CONCLUSION:

The proposed facility is intended to replace a current truck mounted tank at the Burnaby Terminal.

This application has been reviewed by and has received favourable comments from the Environmental Health and Fire Departments. Providing this proposal can satisfy all other relevant Bylaw requirements including the concerns of the Environmental Health Department, the Planning and Building Inspection Department intends to issue Preliminary Plan Approval unless otherwise directed by Council.

This report is submitted for the information of Council.

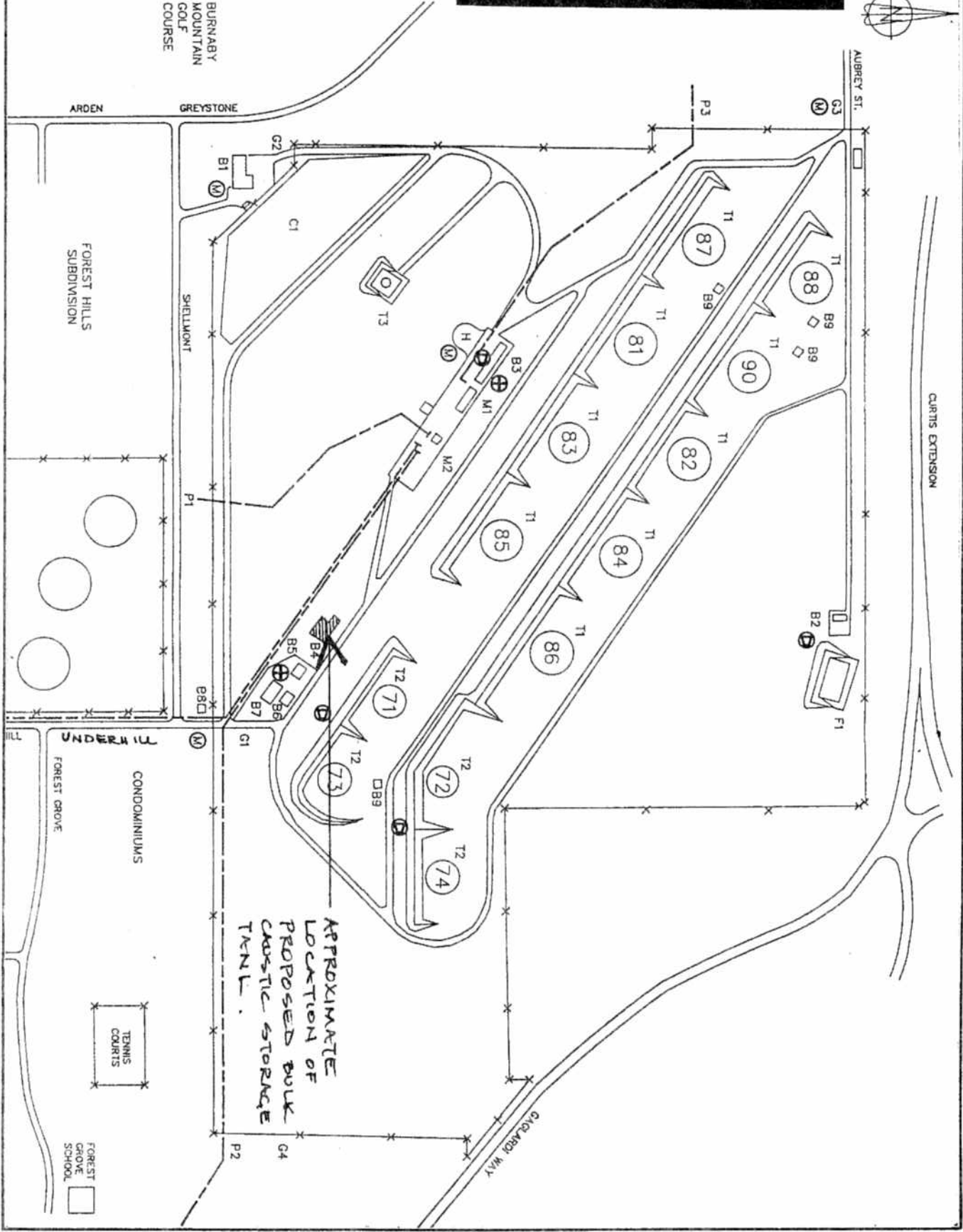

A. L. Parr,
DIRECTOR PLANNING &
BUILDING INSPECTION


TA/ds

Attachment

cc: Chief Public Health Inspector
Chief Fire Prevention Officer

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 91-JAN-23

Scale:

Drawn By:

 THE CORPORATION OF THE DISTRICT OF **BURNABY**
 Planning & Building Inspection Department

111

TRANS MOUNTAIN PIPELINE CO. LTD.
 SITE PLAN - SHOWING APPROXIMATE LOCATION OF PROPOSED BULK CAUSTIC STORAGE TANK.

PPA# 9933
 8099 SHELLMONT ST.

SKETCH # 1

