APPENDIX C

BOREHOLE PLAN AND LOGS FROM SITE INVESTIGATION WORK BY OTHERS

N

300N

800N

200E

300E

400E

TP-13

TP-11

TP-14

TP-1

TP-2

TP-3

TP-4

TP-5

TP-6

TP-7

TP-8

TP-9

TP-10

TP-20

TP-21

TP-22

TP-23

TP-24

B-1

B-2

B-3

B-4

B-5

B-6

B

B'

A

A'

3450

3500

3440

3430

3420

3410

Proposed
Diversion Ditch

Springs

Proposed Pipe
Collection System

Swamp

Proposed
Decant

Outline of Proposed
Starter Dam

LEGEND

- TP-13, Test pits completed in 1981
- TP-20, Test pits completed in May, 1983
- B-6, Boreholes completed in May, 1983

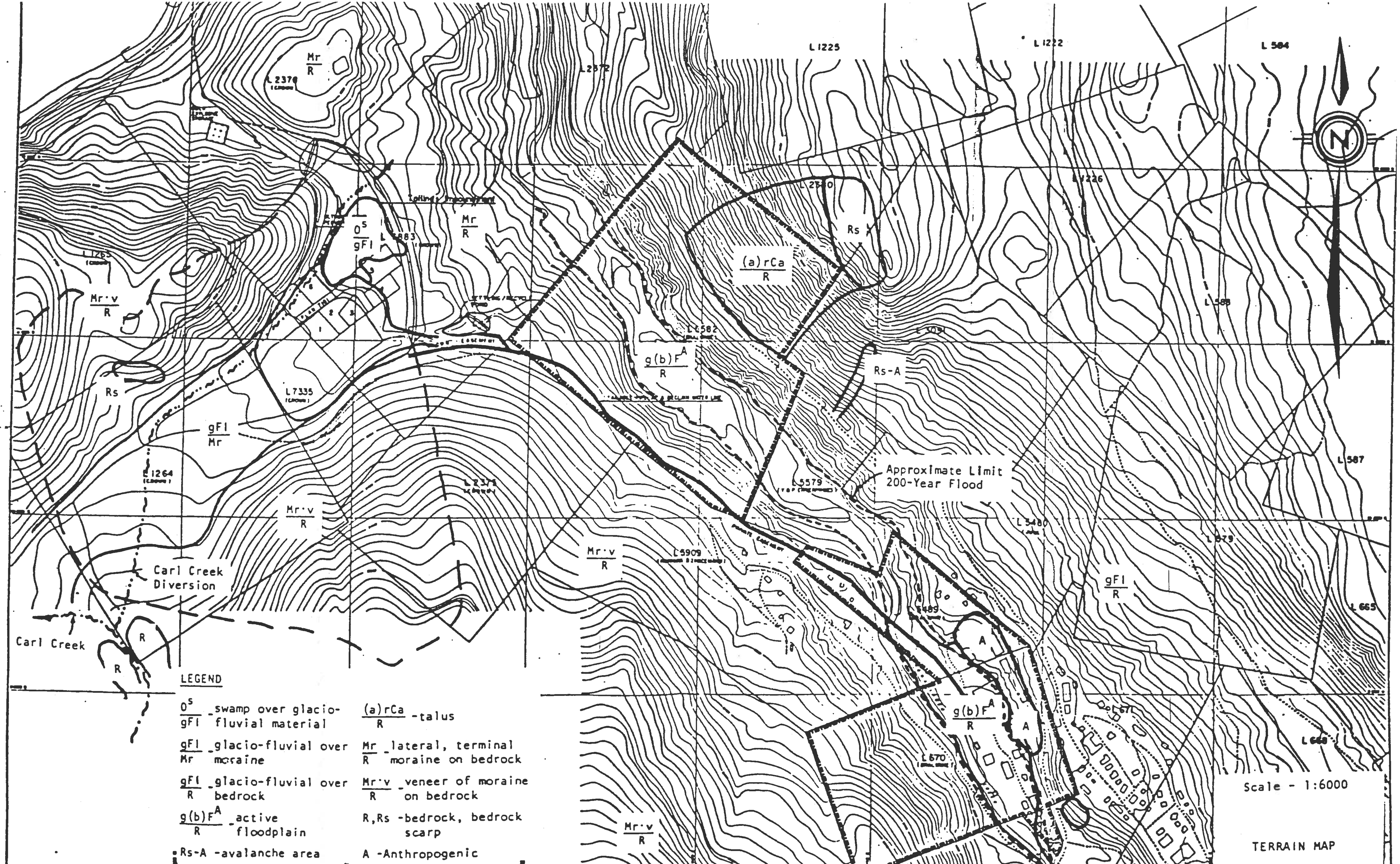
SCALE : METRES

20 0 20 40 60

LOCATION OF TEST PITS
AND BOREHOLES

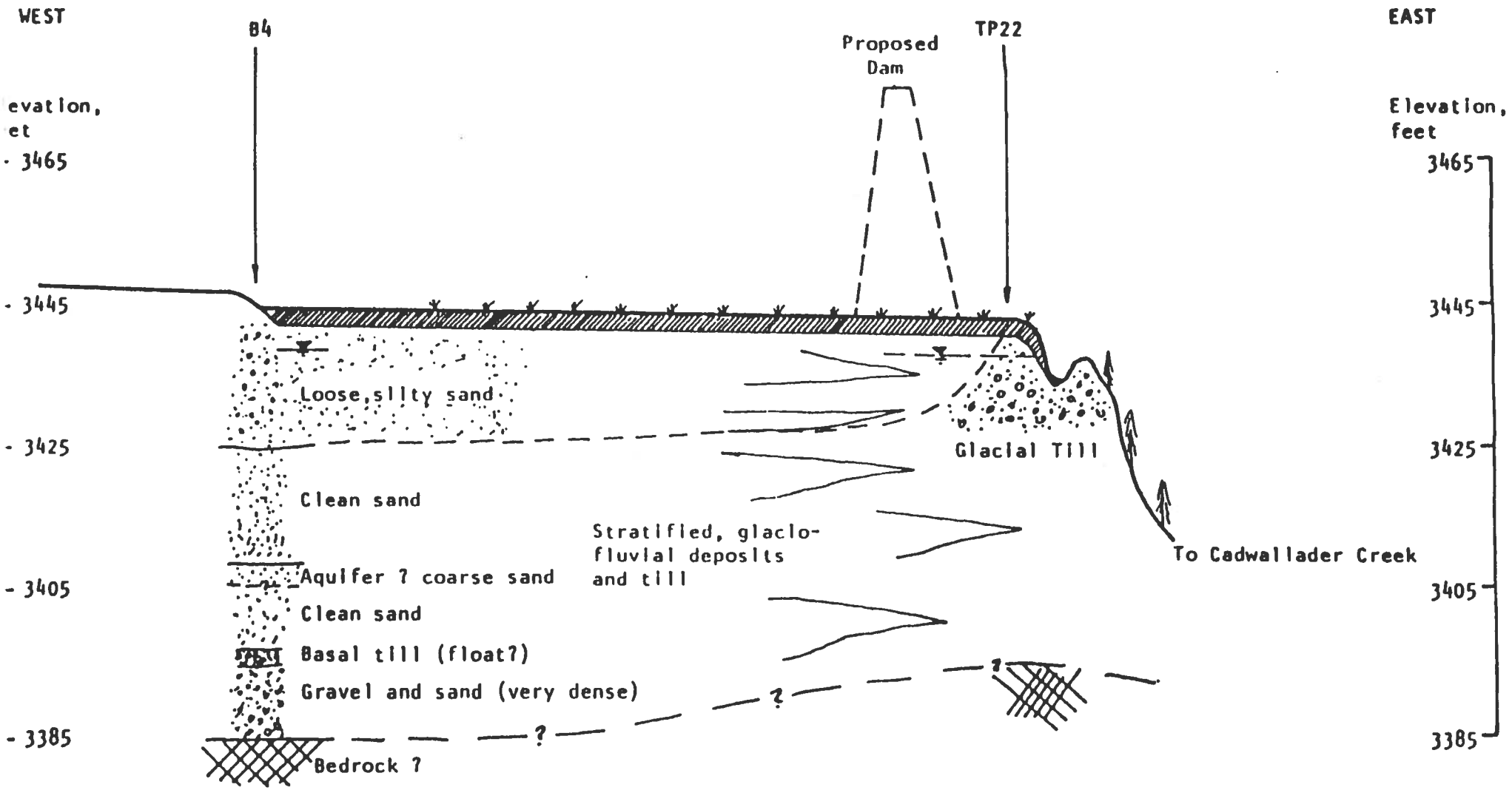
FIGURE 2.5

ROBINSON DAMES & MOORE



Mr / R
L 2370
L 2372
L 1225
L 1222
L 584
N
Tailings Impoundment
O^s / gFl
L 883
Mr / R
L 2340
L 1226
Rs
(a)rCa / R
L 1265
Mr·v / R
L 588
L 5582
g(b)F^A / R
Rs-A
Rs
L 7335
gFl / Mr
Approximate Limit
200-Year Flood
L 1264
L 2371
L 5579
L 587
Mr·v / R
L 5480
Mr·v / R
L 5909
L 679
Carl Creek
Diversion
gFl / R
L 665
A
Carl Creek
R
R
LEGEND
O^s / gFl _swamp over glacio-fluvial material
(a)rCa / R -talus
gFl / Mr _glacio-fluvial over moraine
Mr / R _lateral, terminal moraine on bedrock
gFl / R _glacio-fluvial over bedrock
Mr·v / R _veneer of moraine on bedrock
g(b)F^A / R _active floodplain
R,Rs -bedrock, bedrock scarp
Rs-A -avalanche area
A -Anthropogenic
g(b)F^A / R
A
L 671
L 670
L 668
Mr·v / R
Scale - 1:6000
TERRAIN MAP
ROBINSON DAMES & MOORE

FIGURE 2.1



Horizontal Scale - 1" = 100'

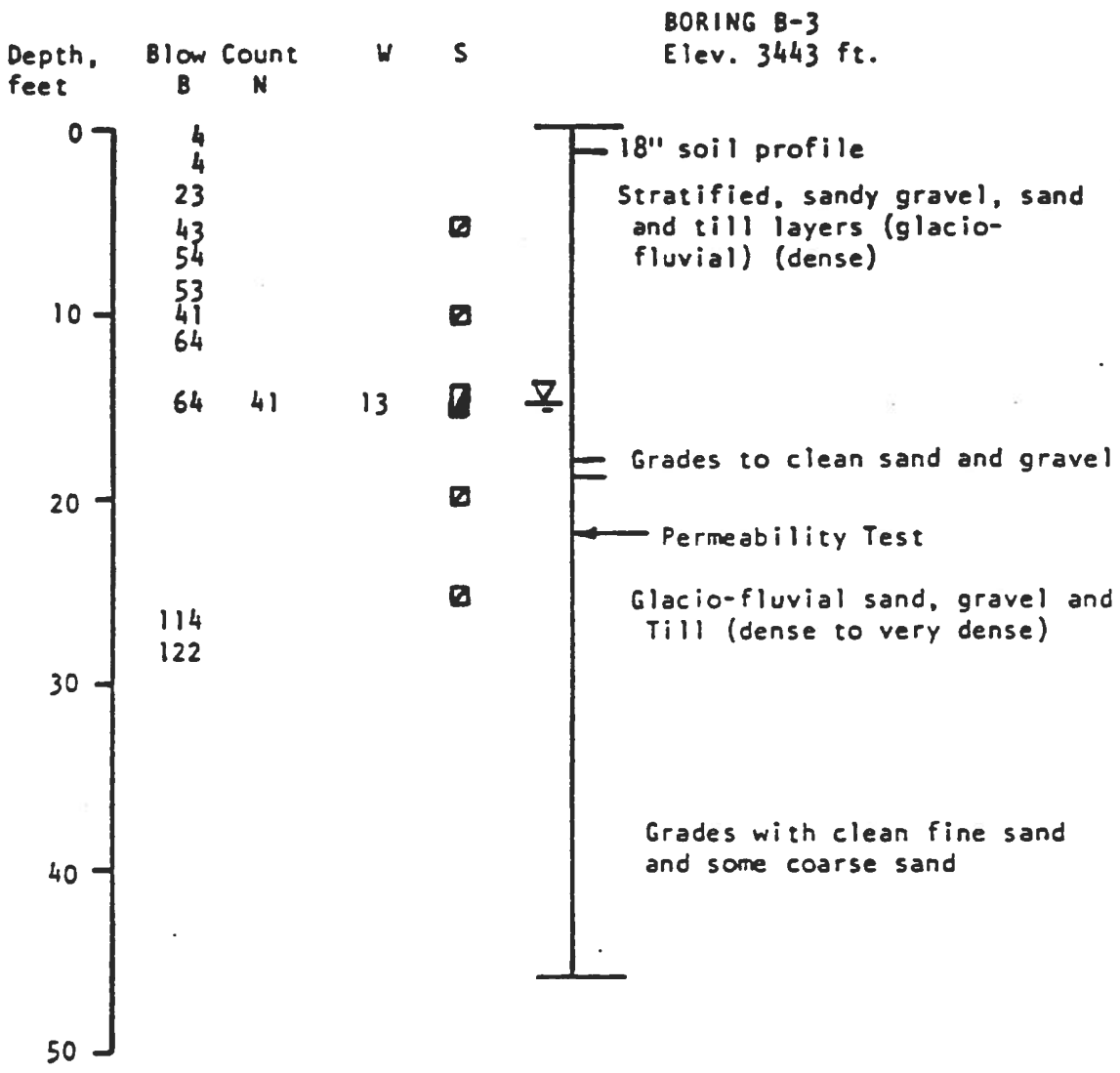
Vertical Scale - 1" = 20'

See Plate 2 for location of section and Plate 10 for Legend.

CROSS-SECTION B-B'

PLATE 11

FIGURE 22



LEGEND

S - Sample

■ - Standard Penetration Test sample location

▨ - Grab sample

B - Blow Count for Becker rig driving 5½" bit one foot with a diesel pile driving hammer

N - Blow Count to drive standard 2"-Ø sampler one foot with 140-lb. hammer falling 12 inches

W - Moisture Content in percent

▽ - Water level at time of drilling

FIGURE 2.6
LOG OF BORING
DAMES & MOORE

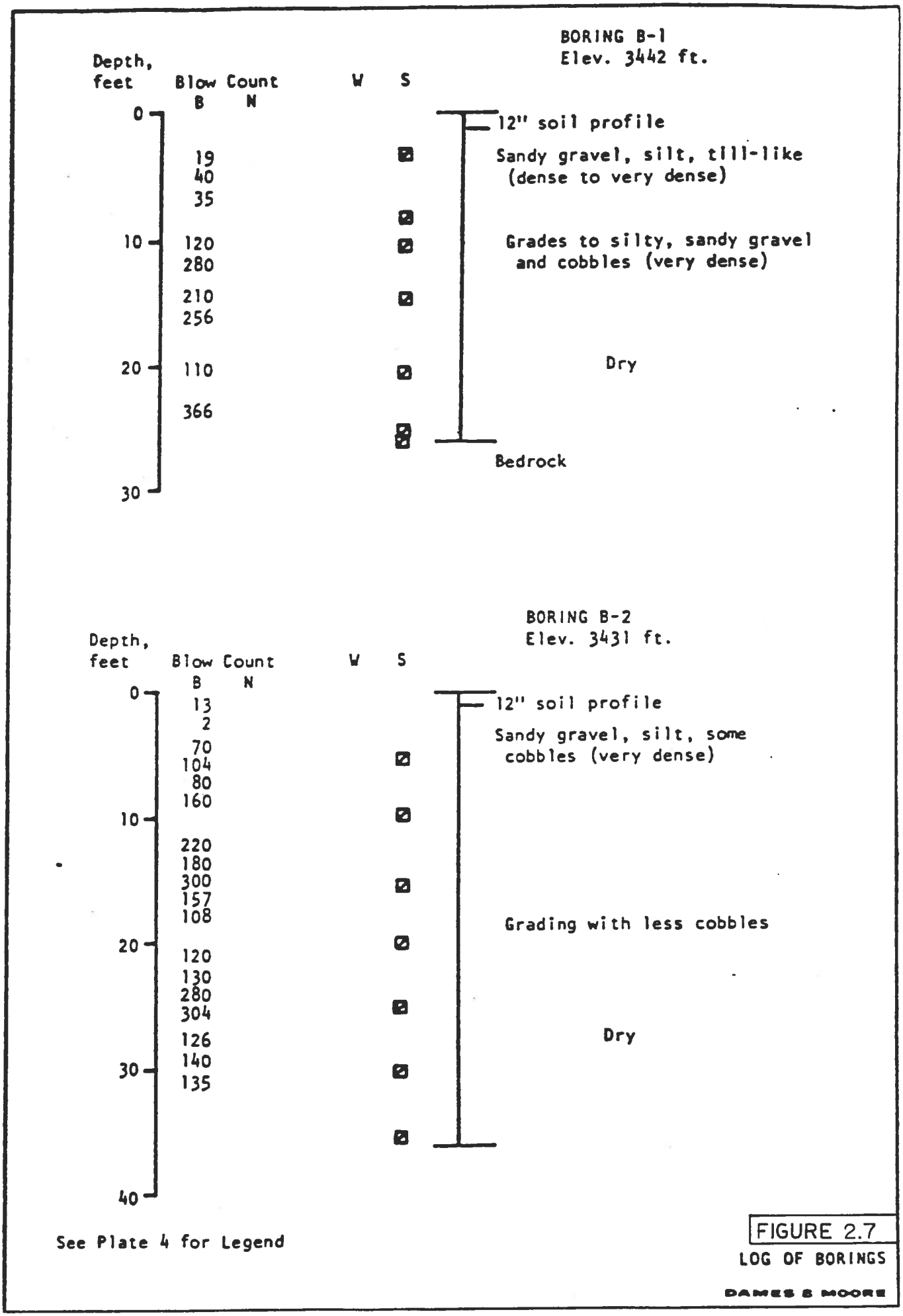
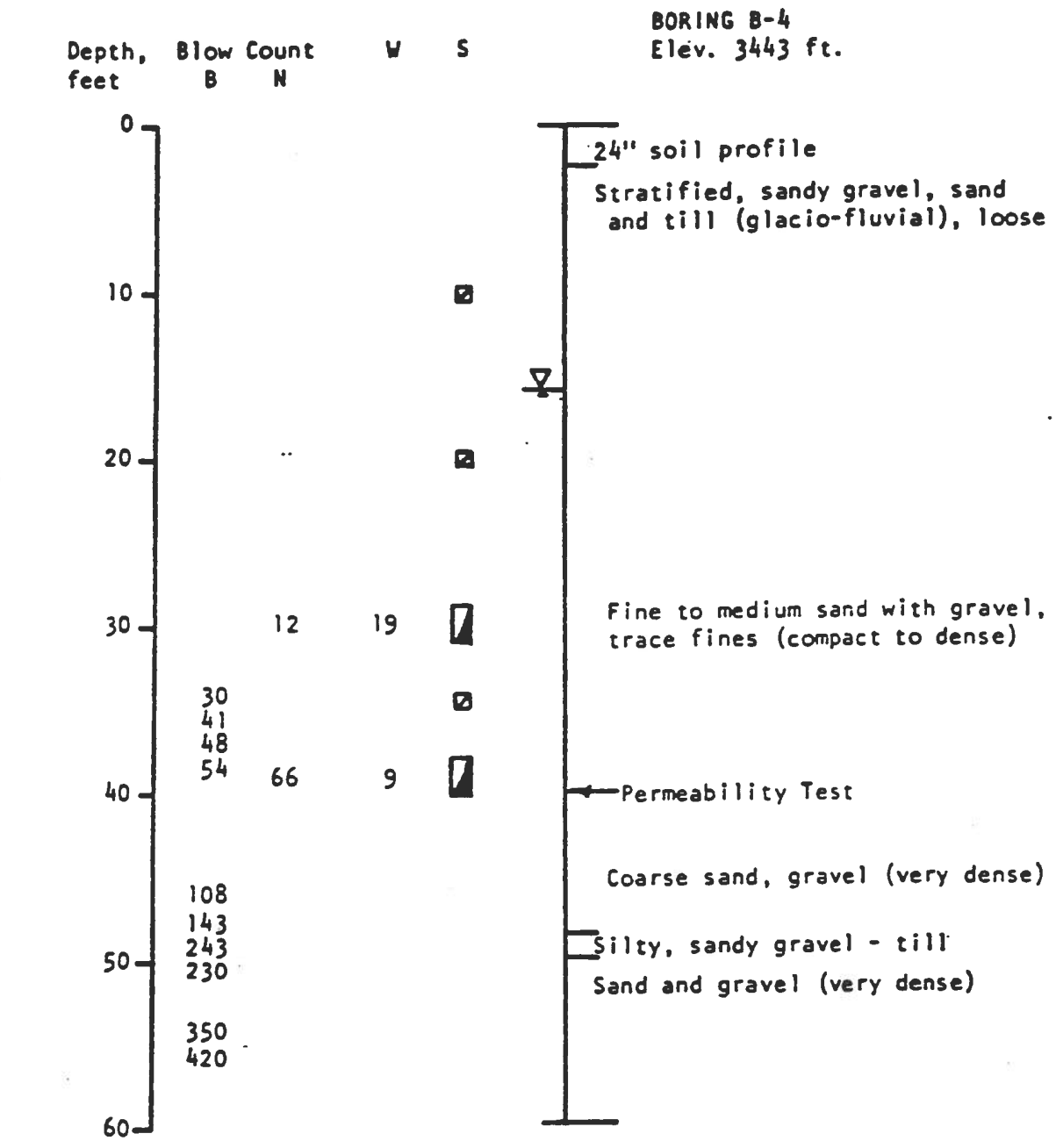


FIGURE 2.7
LOG OF BORINGS

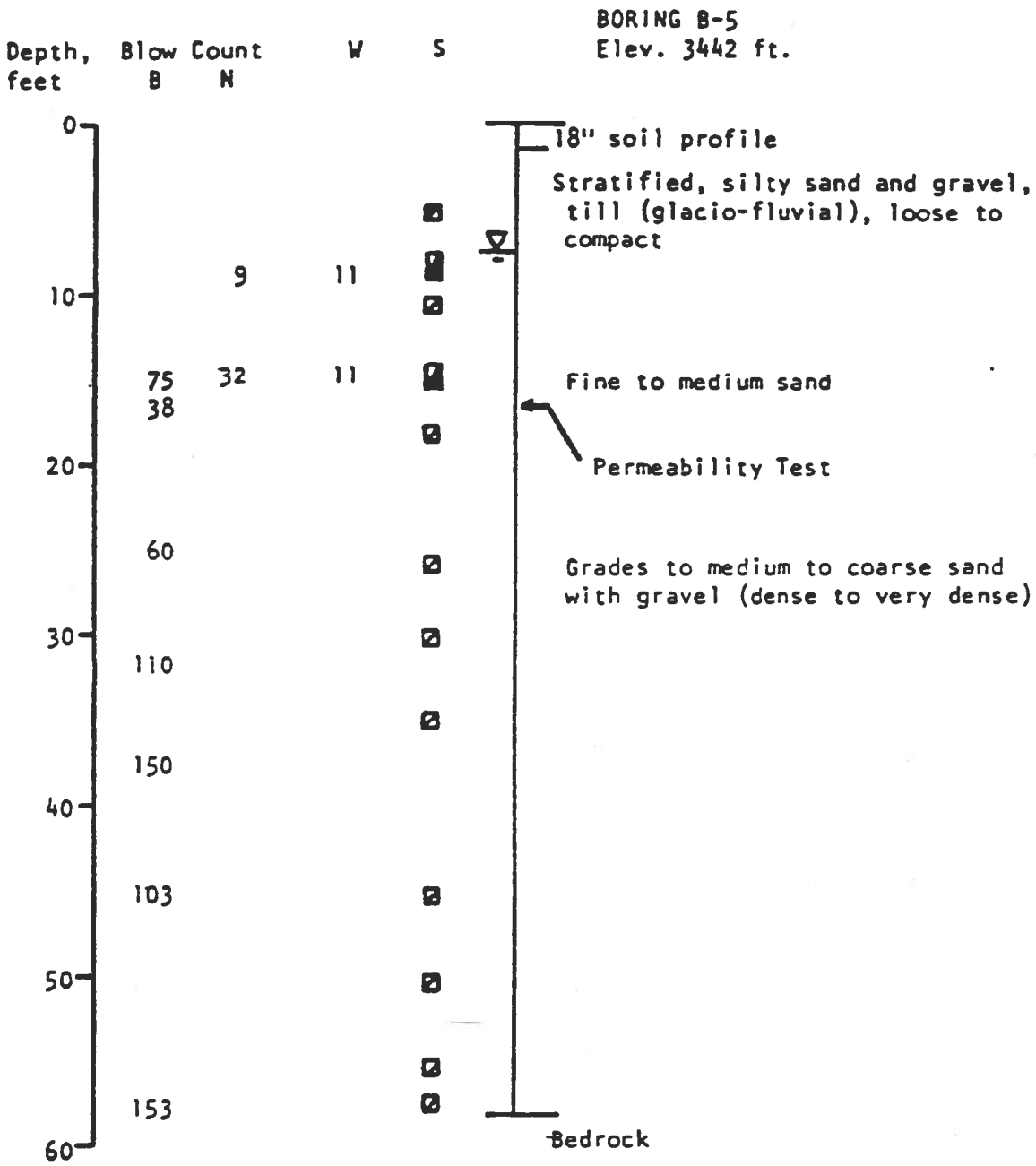
DAMES & MOORE



See Plate 4 for Legend

FIGURE 2.8
LOG OF BORING

DAMES & MOORE

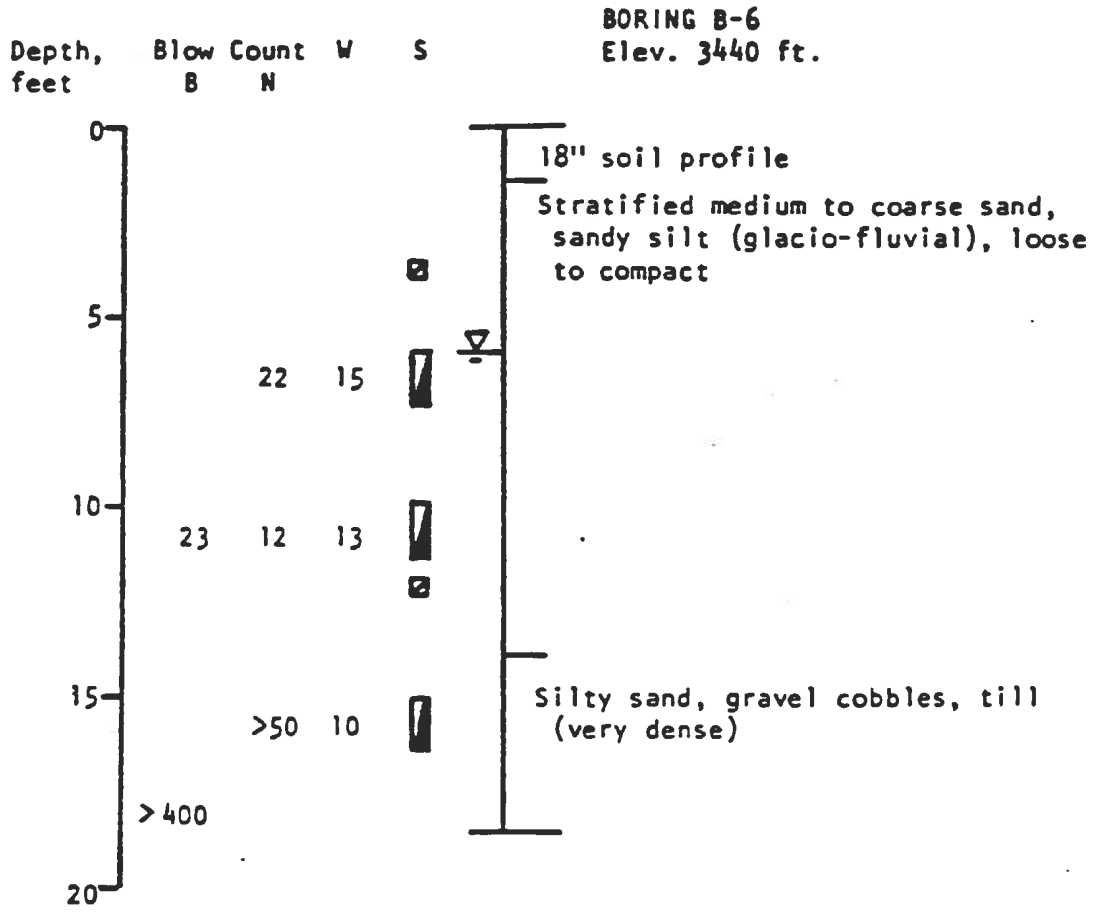


See Plate 4 for Legend

FIGURE 2.9
LOG OF BORING

DAMES & MOORE

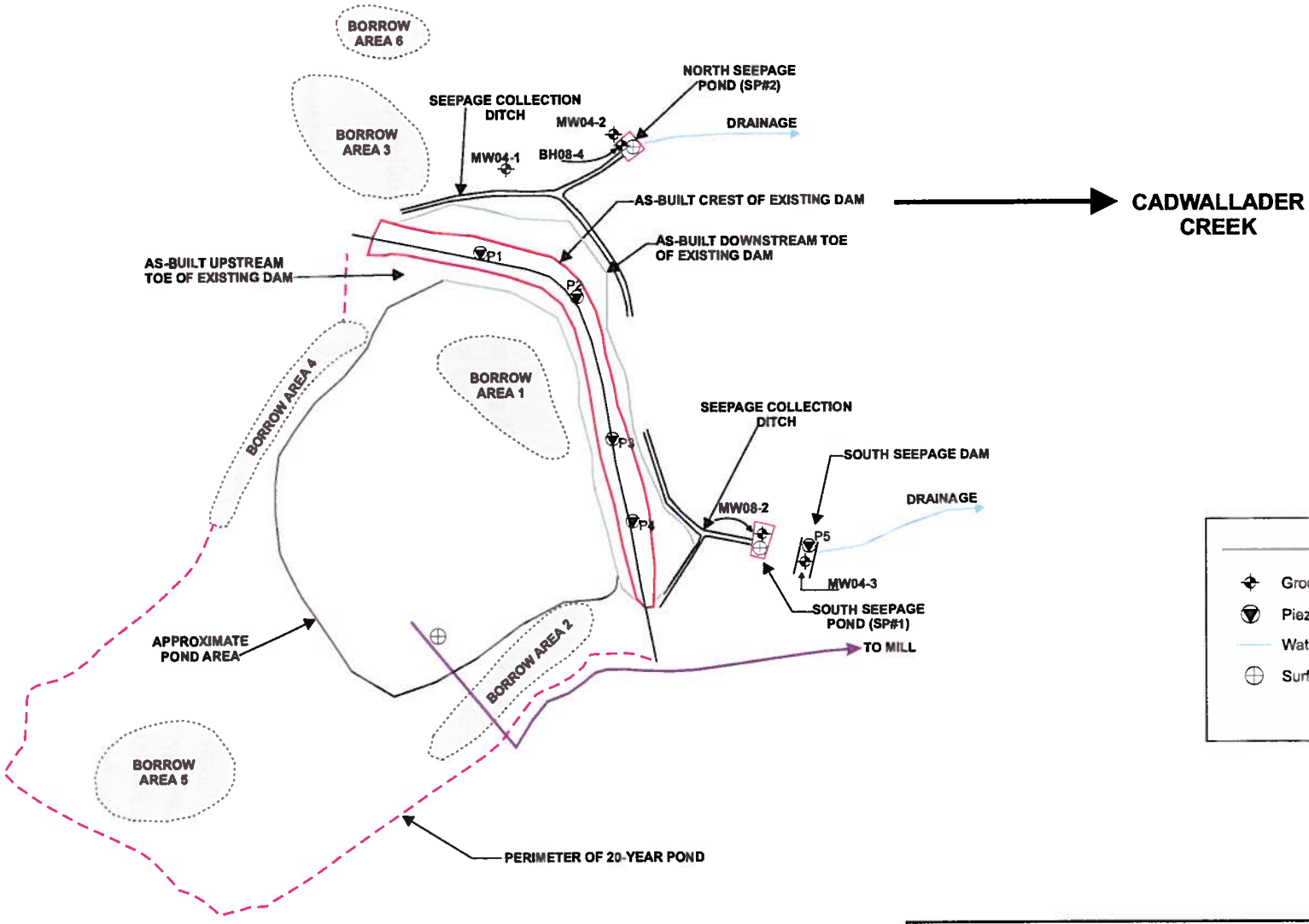
CHECKED BY _____ DATE _____
FILE _____
BY _____ DATE _____



See Plate 4 for Legend

FIGURE 2.10
LOG OF BORING

DAMES & MOORE



Bralorne Gold Mine - Technical Assessment Report

LORAX ENVIRONMENTAL

Exploratory groundwater drilling downgradient of the tailings management area (May, 2008)

Figure 2-2

Borehole Log for Borehole BH08_2.

WELL ID:	BH08_2	**DATE STARTED:**	22-May-08
PROJECT:	Bralorne 486-1	**DATE COMPLETED:**	22-May-08
COORDINATES:	10U 512536E 5825232N elev 958m (+/- 8m)	**LOGGED BY:**	J Stockwell
		CLIENT:	Bralorne

Depth (ft)	Log Notes	
10	Coarse cobbles, gravel, sand. Dry. Waste rock	**Drill: Foremost DR-12, air-hammer**
20	Coarse cobbles, gravel, sand. Dry. Waste rock	**6" steel casing**
	Cobbles and boulders at 18 fbs. Native contact.	
30	Water table at 23 fbs. Bedrock at 25 fbs. Fractured. Collapse. Difficult to discern exact bedrock contact.	
	Bedrock to 31 fbs. EOH.	
40	Install MW08_1	
	Bedrock: Iron stained/cemented conglomerate. Shale. Cobble float.	
50		
60		
70		
80		
90		
100		
110		
120		
130		
140		
150		
160		
170		
180		
190		
200		
210		
220		
230		
240		
250		

Misc. Notes

Borehole Log BH08_4.

WELL ID:	BH08_4	**DATE STARTED:**	23-May-08
PROJECT:	Bralorne 486-1	**DATE COMPLETED:**	23-May-08
COORDINATES:	10U 511518E 5626055N elev 979m (+/- 6m)	**LOGGED BY:**	J Stockwell
		CLIENT:	Bralorne

Depth (ft)	Log Notes	
	Gravel - sand w/ silt. Moist. (Fill)	
10	Brown/grey, sandy gravel. Moist.	**Drill: Foremost DR-12, air-hammer**
	Moist. More cobbles.	**6" steel casing**
20		
	Sand layer	
30	Dry. Silt layer.	
	Sand. Dry.	
40	Sand. Moist.	
	Boulder.	
50	Coarse. Dry.	
	Gravel with sand and cobbles.	
60		
	Sand with gravel and cobbles.	
70	Silty.	
	76 fbs. Silty/sandy gravel. Moist. (Till) No water table. EOH.	
80		
90	Basal till with interbedded sand/gravel deposits. Same as adjacent to tailings borrow pit.	
	No noticeable saturated layers.	
100	Blew on moist layers, no water or mist.	
110	Backfill hole with interlayers of 1 bag of chips per 20 feet of cuttings.	
120		
130		
140		
150		
160		
170		
180		
190		
200		
210		
220		
230		
240		
250		

Misc. Notes

APPENDIX D

TETRA TECH EBA'S GENERAL CONDITIONS — GEOTECHNICAL REPORT

GENERAL CONDITIONS

GEOTECHNICAL REPORT

This report incorporates and is subject to these “General Conditions”.

1.0 USE OF REPORT AND OWNERSHIP

This geotechnical report pertains to a specific site, a specific development and a specific scope of work. It is not applicable to any other sites nor should it be relied upon for types of development other than that to which it refers. Any variation from the site or development would necessitate a supplementary geotechnical assessment.

This report and the recommendations contained in it are intended for the sole use of Tetra Tech EBA’s Client. Tetra Tech EBA does not accept any responsibility for the accuracy of any of the data, the analyses or the recommendations contained or referenced in the report when the report is used or relied upon by any party other than Tetra Tech EBA’s Client unless otherwise authorized in writing by Tetra Tech EBA. Any unauthorized use of the report is at the sole risk of the user.

2.0 ALTERNATE REPORT FORMAT

Where Tetra Tech EBA submits both electronic file and hard copy versions of reports, drawings and other project-related documents and deliverables (collectively termed Tetra Tech EBA’s instruments of professional service), only the signed and/or sealed versions shall be considered final and legally binding. The original signed and/or sealed version archived by Tetra Tech EBA shall be deemed to be the original for the Project.

Both electronic file and hard copy versions of Tetra Tech EBA’s instruments of professional service shall not, under any circumstances, no matter who owns or uses them, be altered by any party except Tetra Tech EBA. Tetra Tech EBA’s instruments of professional service will be used only and exactly as submitted by Tetra Tech EBA.

Electronic files submitted by Tetra Tech EBA have been prepared and submitted using specific software and hardware systems. Tetra Tech EBA makes no representation about the compatibility of these files with the Client’s current or future software and hardware systems.

3.0 ENVIRONMENTAL AND REGULATORY ISSUES

Unless stipulated in the report, Tetra Tech EBA has not been retained to investigate, address or consider and has not investigated, addressed or considered any environmental or regulatory issues associated with development on the subject site.

4.0 NATURE AND EXACTNESS OF SOIL AND ROCK DESCRIPTIONS

Classification and identification of soils and rocks are based upon commonly accepted systems and methods employed in professional geotechnical practice. This report contains descriptions of the systems and methods used. Where deviations from the system or method prevail, they are specifically mentioned.

Classification and identification of geological units are judgmental in nature as to both type and condition. Tetra Tech EBA does not warrant conditions represented herein as exact, but infers accuracy only to the extent that is common in practice.

Where subsurface conditions encountered during development are different from those described in this report, qualified geotechnical personnel should revisit the site and review recommendations in light of the actual conditions encountered.

5.0 LOGS OF TESTHOLES

The testhole logs are a compilation of conditions and classification of soils and rocks as obtained from field observations and laboratory testing of selected samples. Soil and rock zones have been interpreted. Change from one geological zone to the other, indicated on the logs as a distinct line, can be, in fact, transitional. The extent of transition is interpretive. Any circumstance which requires precise definition of soil or rock zone transition elevations may require further investigation and review.

6.0 STRATIGRAPHIC AND GEOLOGICAL INFORMATION

The stratigraphic and geological information indicated on drawings contained in this report are inferred from logs of testholes and/or soil/rock exposures. Stratigraphy is known only at the locations of the testhole or exposure. Actual geology and stratigraphy between testholes and/or exposures may vary from that shown on these drawings. Natural variations in geological conditions are inherent and are a function of the historic environment. Tetra Tech EBA does not represent the conditions illustrated as exact but recognizes that variations will exist. Where knowledge of more precise locations of geological units is necessary, additional investigation and review may be necessary.

7.0 PROTECTION OF EXPOSED GROUND

Excavation and construction operations expose geological materials to climatic elements (freeze/thaw, wet/dry) and/or mechanical disturbance which can cause severe deterioration. Unless otherwise specifically indicated in this report, the walls and floors of excavations must be protected from the elements, particularly moisture, desiccation, frost action and construction traffic.

8.0 SUPPORT OF ADJACENT GROUND AND STRUCTURES

Unless otherwise specifically advised, support of ground and structures adjacent to the anticipated construction and preservation of adjacent ground and structures from the adverse impact of construction activity is required.

9.0 INFLUENCE OF CONSTRUCTION ACTIVITY

There is a direct correlation between construction activity and structural performance of adjacent buildings and other installations. The influence of all anticipated construction activities should be considered by the contractor, owner, architect and prime engineer in consultation with a geotechnical engineer when the final design and construction techniques are known.

10.0 OBSERVATIONS DURING CONSTRUCTION

Because of the nature of geological deposits, the judgmental nature of geotechnical engineering, as well as the potential of adverse circumstances arising from construction activity, observations during site preparation, excavation and construction should be carried out by a geotechnical engineer. These observations may then serve as the basis for confirmation and/or alteration of geotechnical recommendations or design guidelines presented herein.

11.0 DRAINAGE SYSTEMS

Where temporary or permanent drainage systems are installed within or around a structure, the systems which will be installed must protect the structure from loss of ground due to internal erosion and must be designed so as to assure continued performance of the drains. Specific design detail of such systems should be developed or reviewed by the geotechnical engineer. Unless otherwise specified, it is a condition of this report that effective temporary and permanent drainage systems are required and that they must be considered in relation to project purpose and function.

12.0 BEARING CAPACITY

Design bearing capacities, loads and allowable stresses quoted in this report relate to a specific soil or rock type and condition. Construction activity and environmental circumstances can materially change the condition of soil or rock. The elevation at which a soil or rock type occurs is variable. It is a requirement of this report that structural elements be founded in and/or upon geological materials of the type and in the condition assumed. Sufficient observations should be made by qualified geotechnical personnel during construction to assure that the soil and/or rock conditions assumed in this report in fact exist at the site.

13.0 SAMPLES

Tetra Tech EBA will retain all soil and rock samples for 30 days after this report is issued. Further storage or transfer of samples can be made at the Client's expense upon written request, otherwise samples will be discarded.

14.0 INFORMATION PROVIDED TO TETRA TECH EBA BY OTHERS

During the performance of the work and the preparation of the report, Tetra Tech EBA may rely on information provided by persons other than the Client. While Tetra Tech EBA endeavours to verify the accuracy of such information when instructed to do so by the Client, Tetra Tech EBA accepts no responsibility for the accuracy or the reliability of such information which may affect the report.