



GRANULAR RESOURCE INVENTORY - MACKENZIE

AKLAVIK E2-ADDENDUM

NTS 107B E2

- D.E. Lawrence
- F.G. Shnay

- D.F. VanDine

For: Department of Indian and Northern Affairs

AKLAVIK EZ ADDENDUM

Field work carried out during July and August 1972 enables a review of the evaluation of granular resources of the Aklavik E_2^1 map area.

Granular deposits were visited, evaluated and soil samples were collected and tested (see grain size curves which accompany this addendum). Reference to samples, from which the textural data were derived, are given by station and sample number. Cross reference with the "Tabular summary" of the Aklavik E¹/₂ Granular Resources Inventory and U.T.M. grid system is included so that location of textural data can be established on the 1:125,000 scale Granular Resources map and on a 1:250,000 scale topographical map.

As previously reported in Granular Resource Inventory Report, good granular material exists in the area surrounding Eskimo Lakes (Granular Resource map area VII, WIII, IX, X, XI, XIV, XV) and in the northwest portion of the map area (area XII, XIII). These large coarse granular deposits have less than 20% silt and clay material. The deposits have relatively high relief and low ground ice content. The granular deposits of the southern part of the map area are smaller and have a high proportion of sand-sized and fine grained material than the northern deposits.

The morainal deposits in the middle of the map area consist of till with more than 70% silt and clay-sized material. These deposits would provide poor construction material because of the large amount of fines and the high ground ice content.

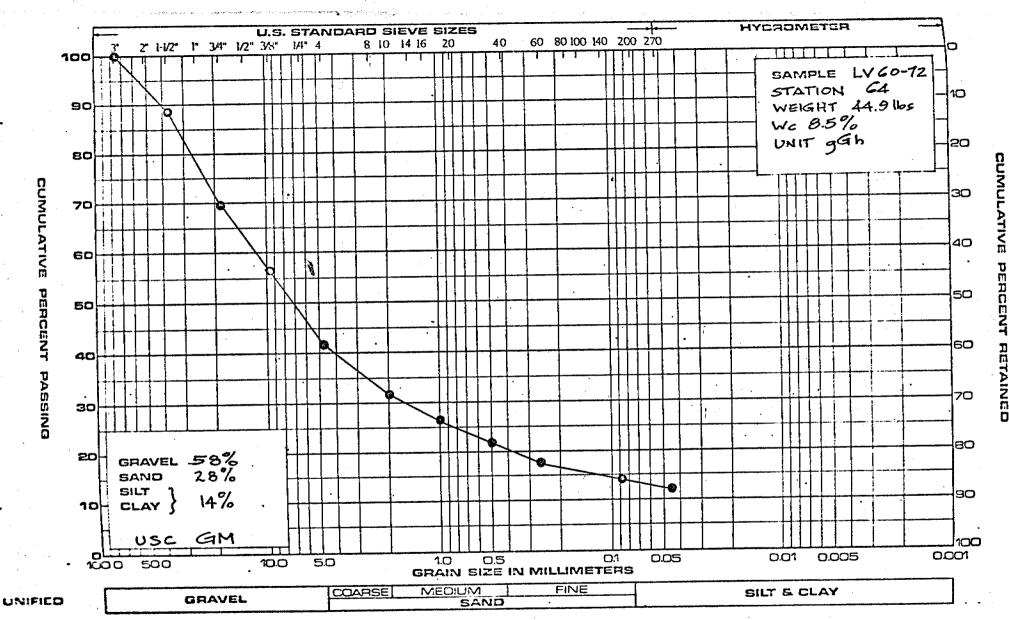
South of Inuvik, bedrock consists of carbonate and shale suitable for aggregate and subgrade material as was used on the Inuvik Airport runway and the Mackenzie Highway for the first few miles south of Inuvik.

	1	Tabular Summary		Grid Refer	
Station	Sample	Area	Unit	U.T.M.	. Comments
64	LV60-72	III(c)	gGh	PL000567	boulders up to 3 feet in diameter on the surface
76	LV69-72	II	sGh	NL640582	predominantly silt instead of sand as previously reported
77	LV70-72	IV	sgG	NL809786	finer grained material than previously reported
78	LV71-72	IV(e)	Gn	NL938875	$1\frac{1}{2}$ feet gravel over sand and gravel
81	LV73-72	V	unmapped	NL976943	•permafrost at 2 feet, cobbles up to 2" in diameter
82	LV74-72	₩.	unmapped	PM000012	kame or broken esker, sands and gravel at 2 feet
84 .	LV75-72	VIII(d)	kames	NM965249	kames on morainal till
85	LV76-72	-	unconsolidated Cretaceous	NM410105	
			material		$1\frac{1}{2}$ feet pea gravel over silty sand
87	LV77-72	XIII(b)	gGp	NM334318 .	boulders up to 2 feet in diameter on surface
90	LV78-72	XIII(P)	gGpk ·	NM258408	
91	LV79-72	XIII(b)	gGp	NM192451	small cobbles frost sorted at the surface
95	LV83-72	xv	Mm	NM593077	morainal till
96	LV84-72	xv	Mm	NM620134	morainal till
97	LV85-72	xv	gGpk	NM690248	excellent gravel
99	LV86-72	XI(d)	gGk	NM594445	excellent gravel
119	LV106-72	XIII(a)	gGk	NM345491	good gravel
125	LV110-72	I(a)	gsGp	NL536833	Inuvik gravel pit
			(<u> </u>	

•

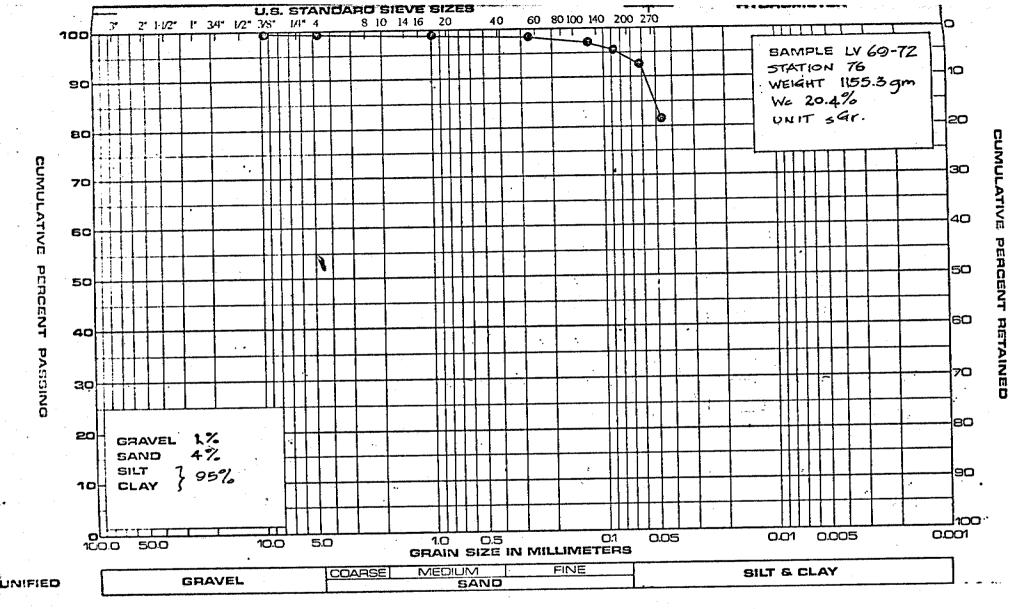
· ·

.



ATIVE PERCENT RETAINED

PERCENT

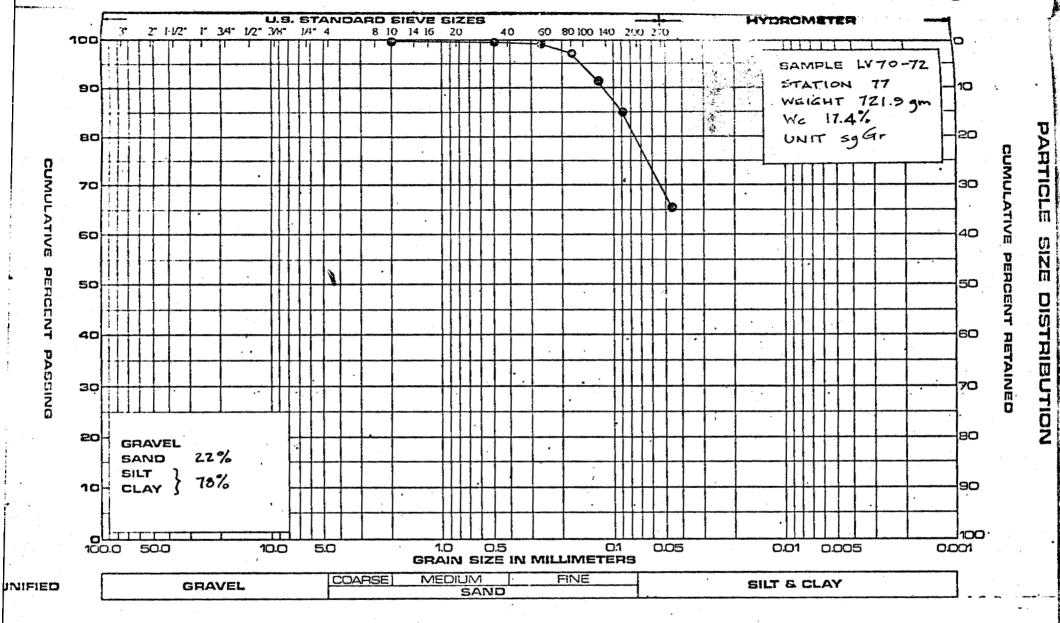


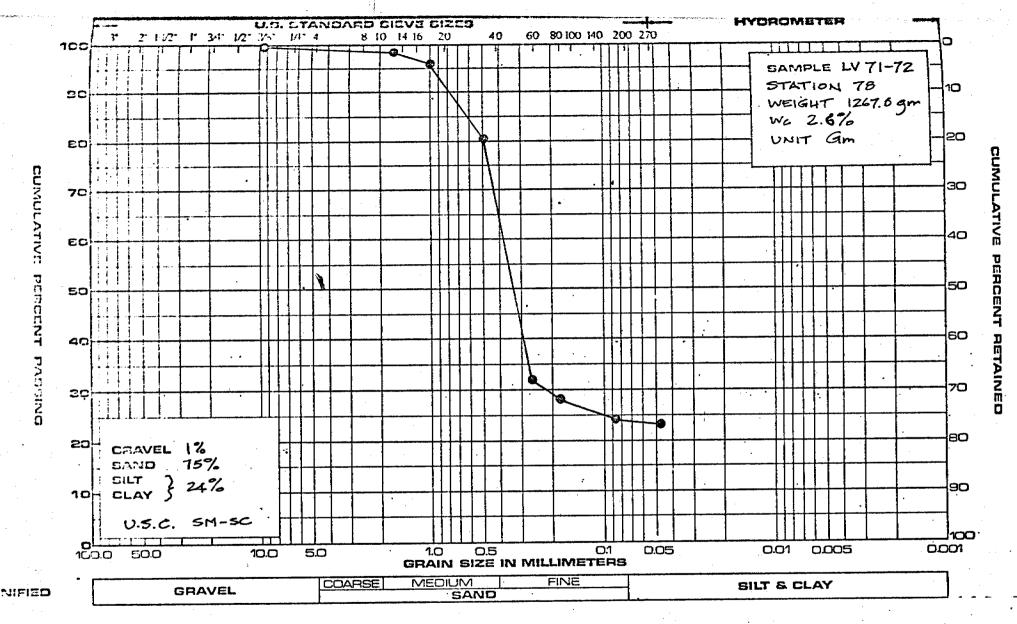


ъ

ARTICLE

DISTRIBUTION



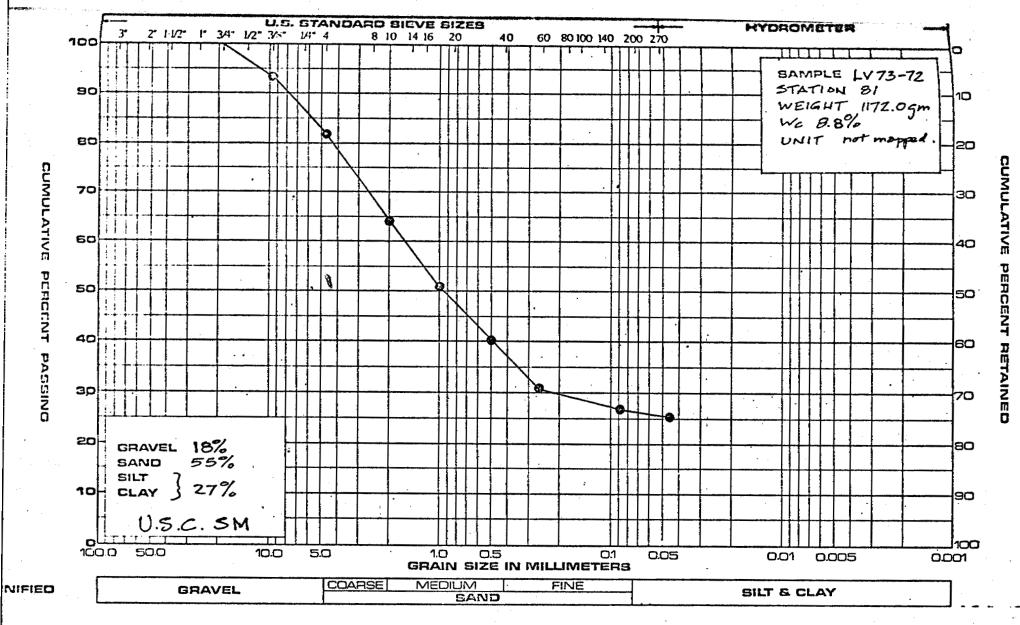




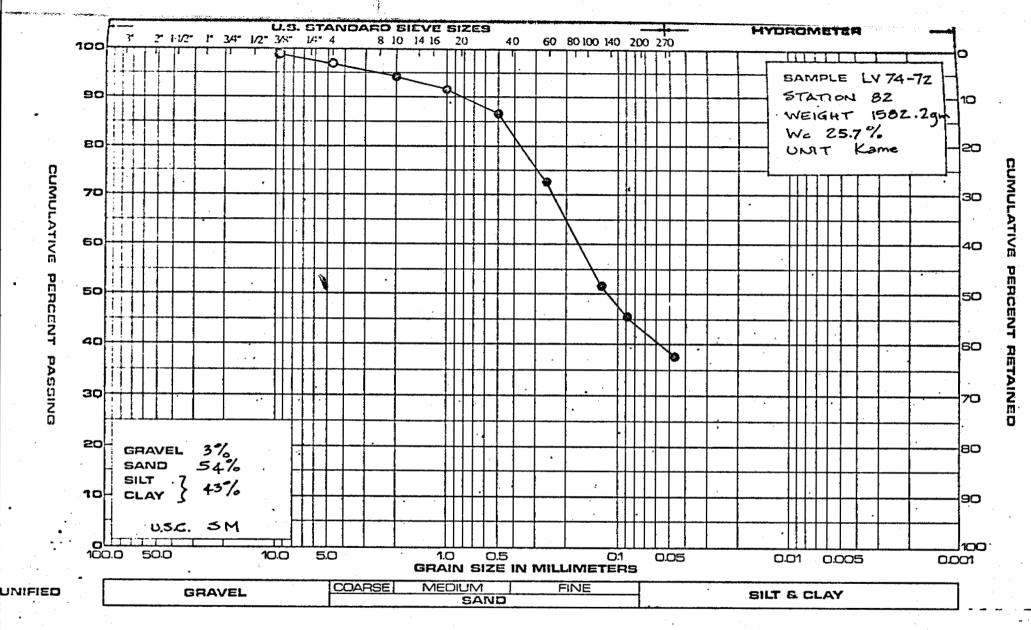
01 B

PARTICLE

DISTRIBUTION



SL RIFF OF



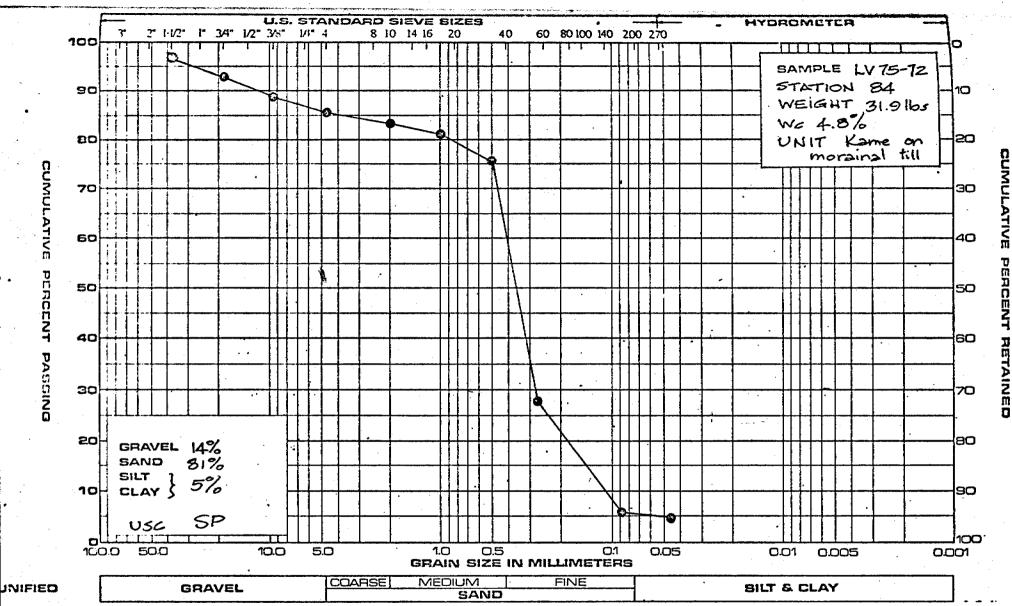


07

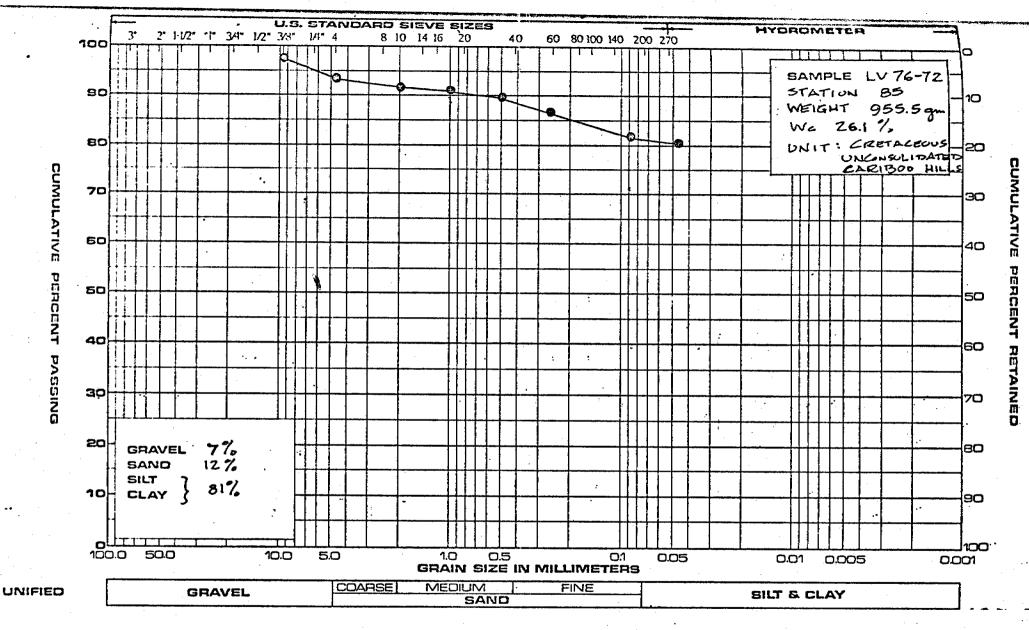
PART

SIZE

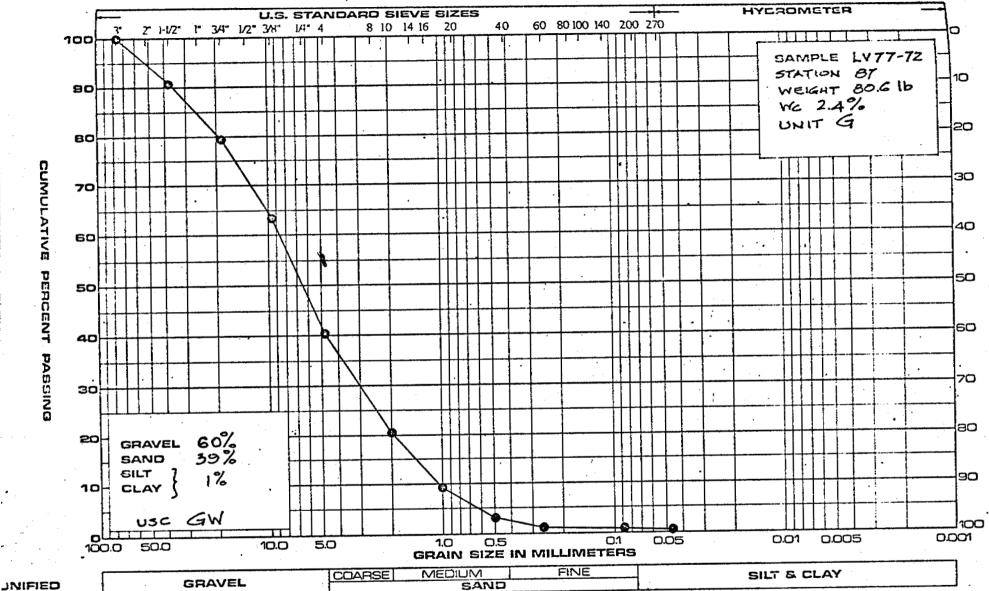
DISTRIBUTION



SURVEY OF CALL







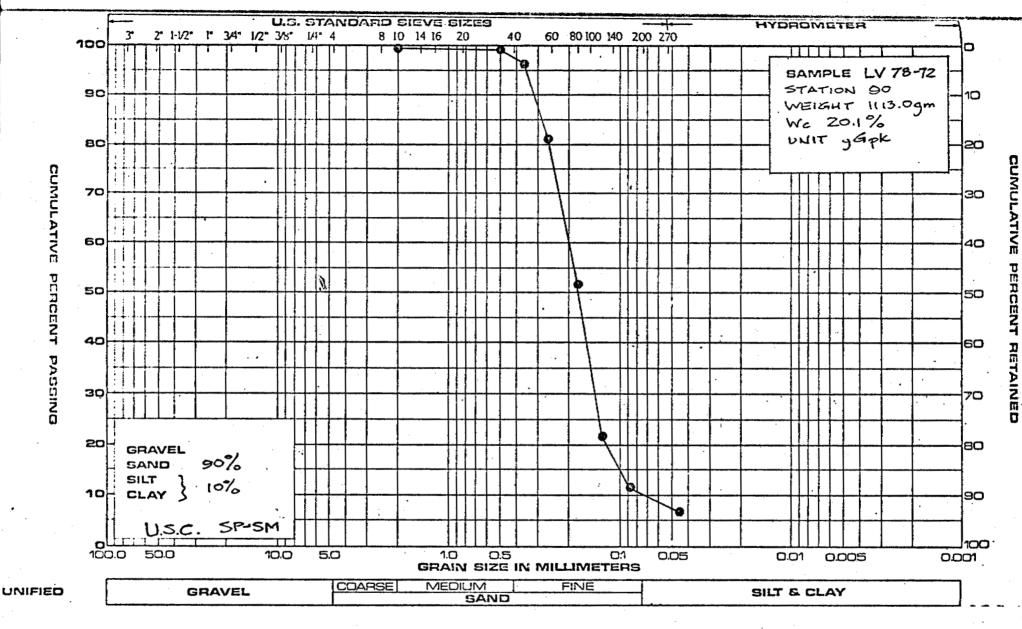


PARTICLE SIZE DISTRIBUTION

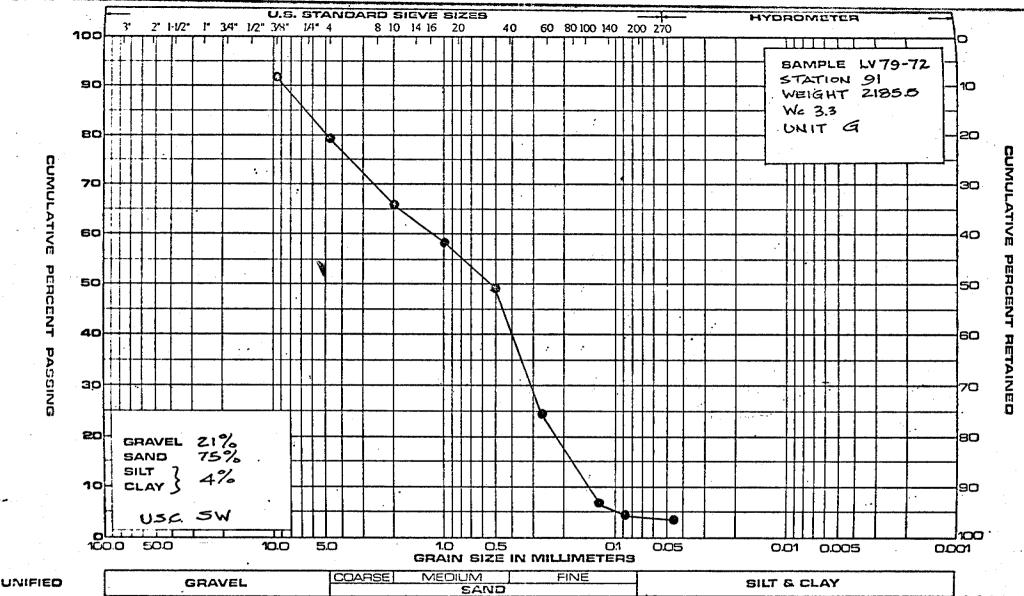
ATIVE

Π

RETAINED

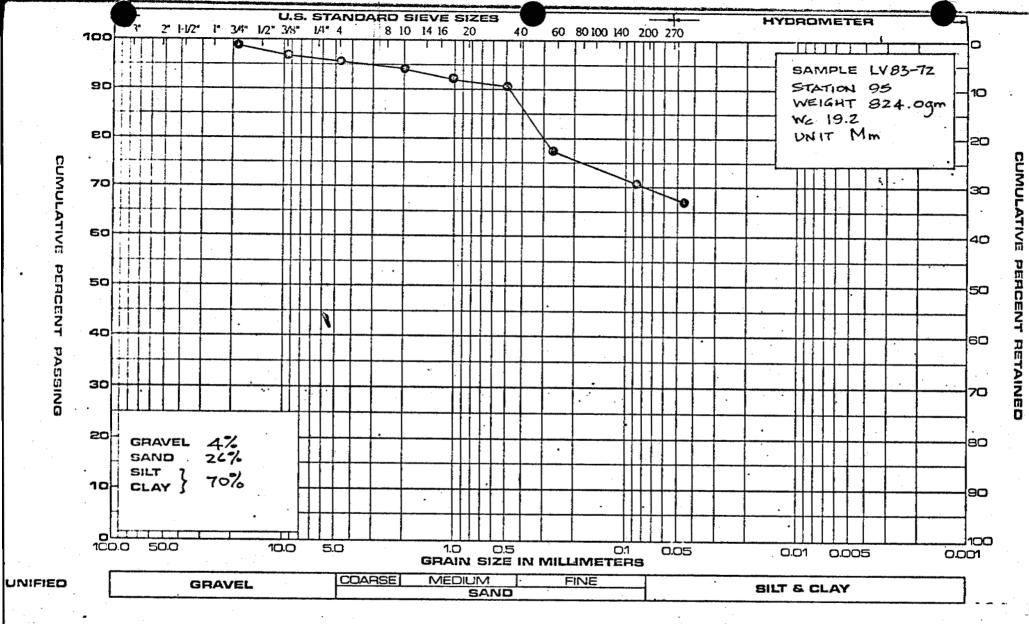


SURVEY OF ALL

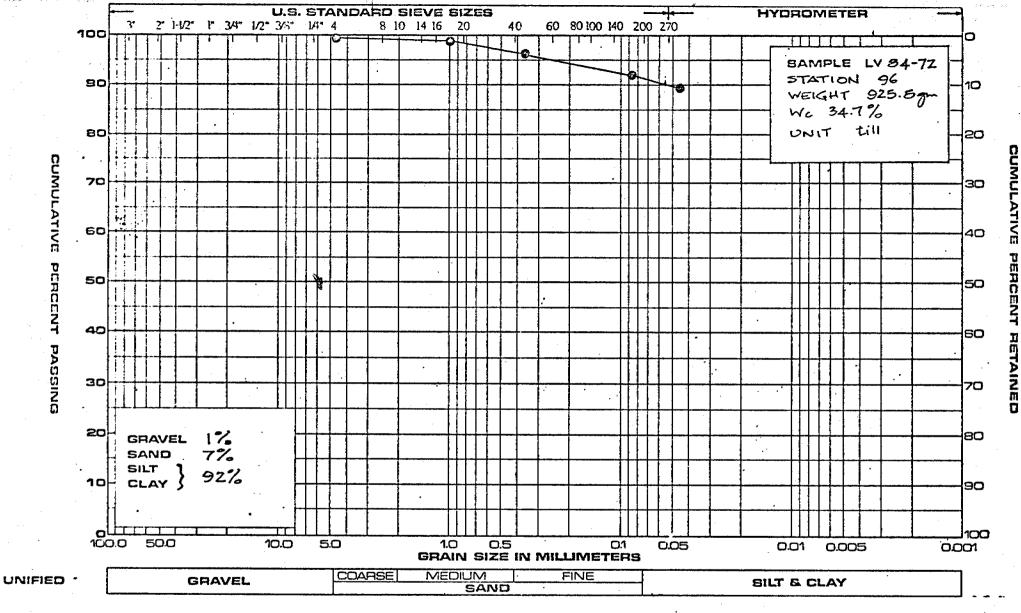




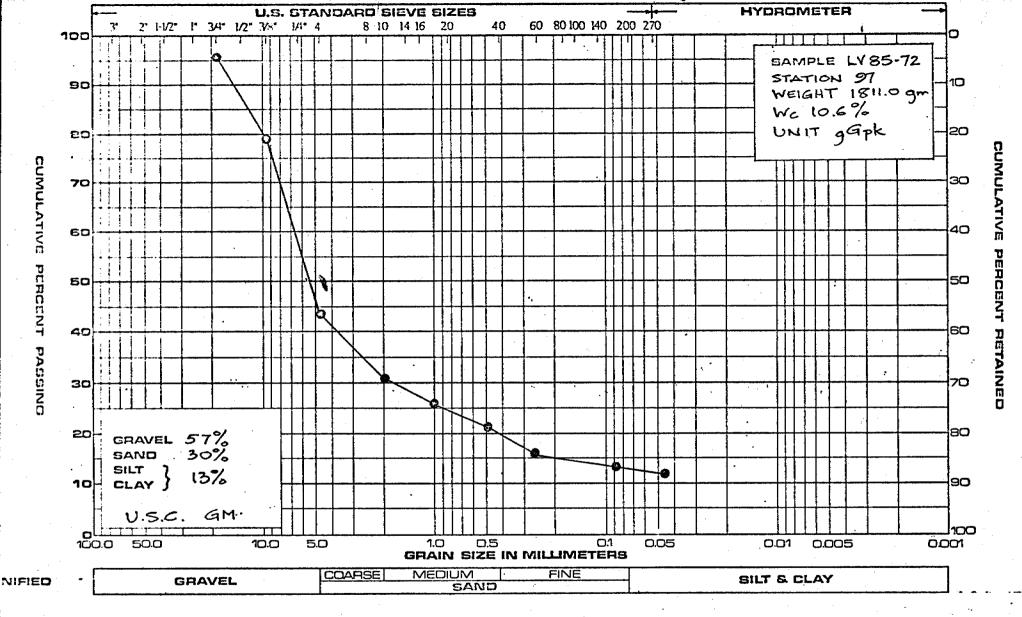
PARTICLE SIZE DISTRIBUTION







.





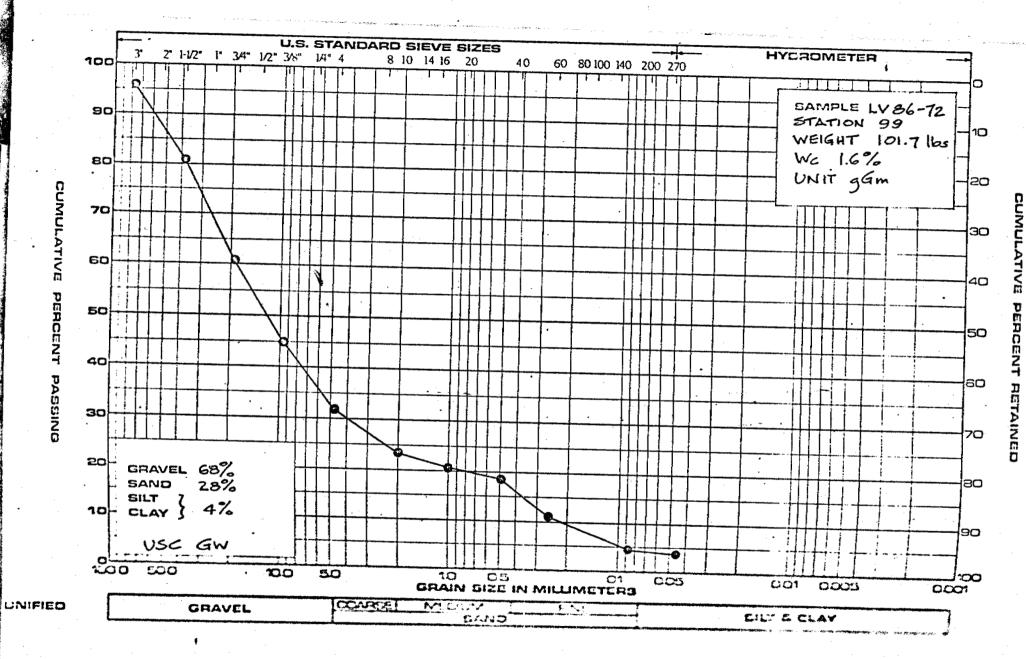
υ

ARTICLE

DISTRIBUTION

20

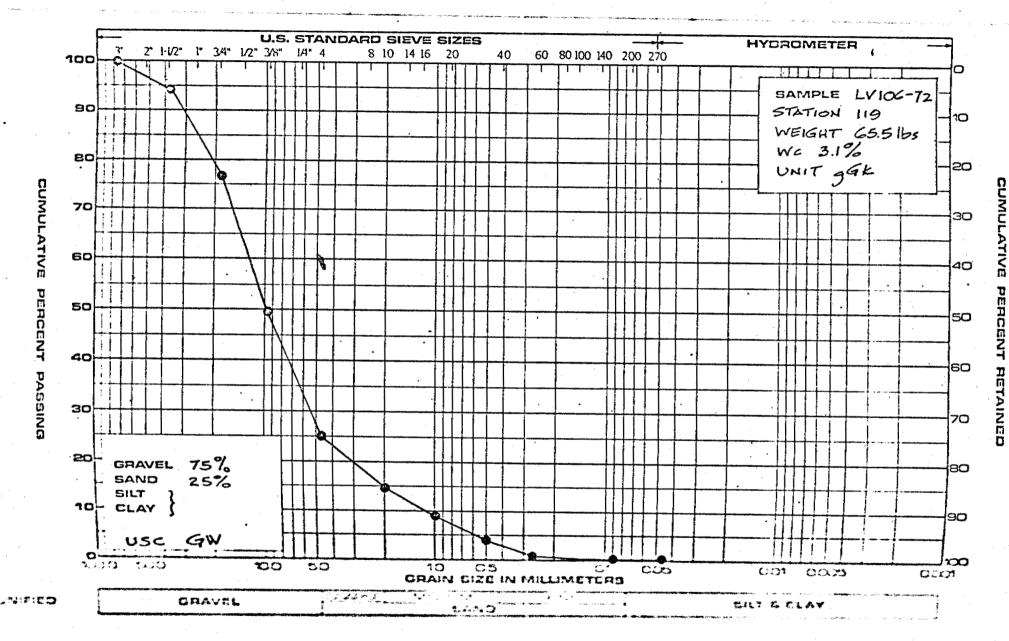
ET I



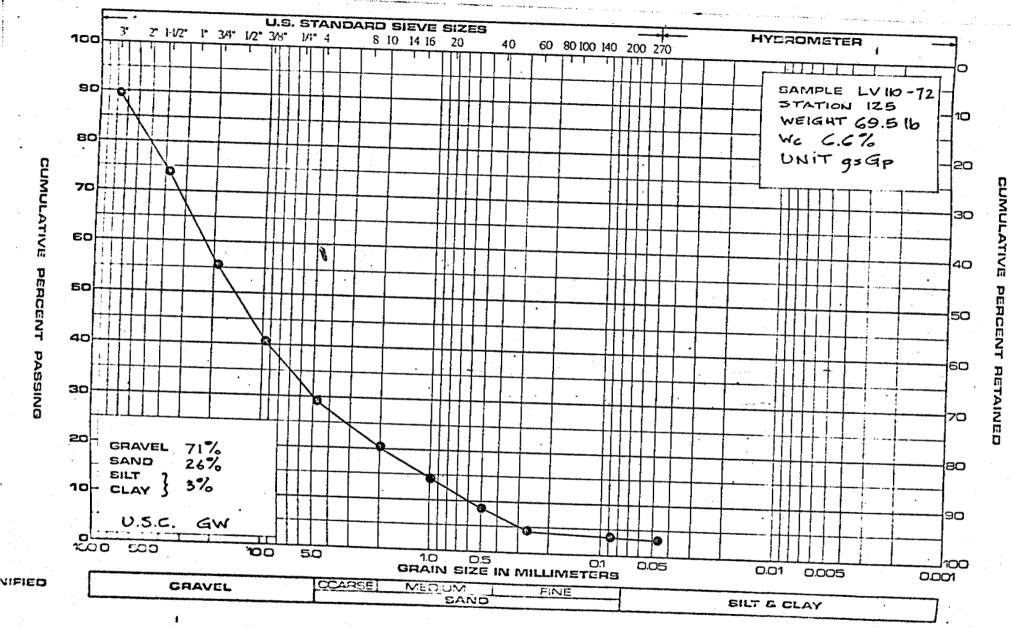
State State

A STATE AND A STATE OF

GEOLOGICAL SURVEY OF CALADA DEPARTMENT OF ENERGY, MINES AND RELS MICCH ATIVE



GEOLOGICAL SURVEY OF CASACOA DEPARTMENT OF ENDIGY, MINES AND RESIDENCES



SIZE DISTRIBUTION

PARTICLE