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**THERMAL CONDUCTIVITY, THERMAL DIFFUSIVITY, DENSITY AND
POROSITY OF CRYSTALLINE ROCKS**

Malcolm J. Drury

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Thermal conductivity, thermal diffusivity, density and porosity
of crystalline rocks

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ABSTRACT

Tables of thermal conductivity, thermal diffusivity, density and porosity are presented for several groups of crystalline rocks, measured by the Geothermics Group of the Earth Physics Branch during its existence from 1962 to 1986. Mean and standard deviations are also given for each major rock type. Mean conductivity ranges from 1.96 W/mK for basalt to 3.50 W/mK for granite. Mean diffusivity ranges from 0.69 mm²/s for basalt to 1.34 mm²/s for granite.

RESUME

Des tableaux de conductivité thermique, diffusivité thermique, densité et porosité sont présentés pour plusieurs groupes de roches cristallines. Ces propriétés ont été mesurées par les chercheurs en géothermie de la Direction de la physique du globe au cours de son existence depuis 1962 jusqu'à 1986. Les moyennes et les écarts types sont aussi donnés pour chacun des principaux types de roches. La conductivité thermique moyenne varie entre 1.96 W/mK pour les basaltes et 3.50 W/mK pour les granites. La diffusivité moyenne varie entre 0.69 mm²/s pour les basaltes et 1.34 mm²/s pour les granites.

INTRODUCTION

From its beginning in 1962 to its termination in 1986 the Geothermics Group of the Earth Physics Branch (formerly the Dominion Observatory) was responsible for much of the measurement of heat flow in Canada. Such measurement requires data of thermal conductivity, and so the group has built up a considerable computer-based file of such data. Since 1982 the author has also been responsible for making measurements of thermal diffusivity of rocks for the Canadian Nuclear Fuel Waste Management Programme, and a file of such data, although considerably smaller than that for conductivity, is also maintained. Thermal diffusivity, s , is required when modelling of the effects of transient thermal events is undertaken. It is related to thermal conductivity, K , specific heat C and density ρ by:

$$s = K/C\rho$$

The purpose of this report is to make available the considerable number of data, particularly of thermal conductivity, on crystalline rocks. Few data on thermal diffusivity exist in the literature, and those included in this report represent a valuable addition. Extensive compilations of thermal property data for rocks have been published in the past by Clark (1966), Kappelmeyer and Haenel (1974) and Roy et al. (1981). This report includes data for granite, diorite, gneiss, schist, serpentinite, gabbro, amphibolite, monzonite, granophyre, norite and basalt. With the exception of the basalts and some monzonites, all samples are from the Canadian Precambrian Shield. The basalts are from the Mid-Atlantic Ridge (Deep Sea Drilling Project site 395A) and a deep borehole in Iceland. Their physical properties have been reported by Hyndman et al. (1984) and Drury (1985). Some monzonites are from the Coast Range Complex of British Columbia.

All rock property data in this report were obtained on solid discs. Thermal conductivity was measured on a divided bar apparatus of the type described by Jessop (1970), either on a series of discs of different thickness, or on a single disc, nominally 10mm thick. Thermal diffusivity was measured on the same single disc as used for conductivity, using a method developed at Earth Physics Branch and described by Drury et al. (1983). It is a modification of a method proposed by Angstrom (1863). Most conductivity measurements were accompanied by density and porosity determinations. Density was obtained from accurate measurement of sample dimensions and mass. Porosity was determined by weighing samples when dry and after being saturated under partial vacuum for approximately 12 hours, with volume being determined by measurement of dimensions. The entries for physical property data in the tables that follow reflect the precision of the measurements (3 significant figures for

conductivity, diffusivity and density and 2 significant figures for porosity). Conductivity, diffusivity and density measurements are accurate to within 2%, and porosity is accurate to approximately 10%.

Mineralogical data were obtained by estimates from hand specimens of core, from point counting on thin sections, or from stained, polished discs. The mineralogy and method of determination are given for each sample.

The data tables have been grouped according to major rock types, and each may contain entries for several sub-groups. For example, the main group granite contains data for biotite granite, syenogranite and monzogranite, as well as for samples identified simply as granite. There are some cases of duplication of data among tables. For example, the data for monzogranite appear in both the granite and monzonite tables. This approach has been taken to allow the user to find data for rocks that are part of a continuous transitional series mineralogically in more than one possible table. Crystalline rocks that have a foliation or schistosity (e.g. gneiss, schist) are grouped in their own tables regardless of the mineralogy, because thermal conductivity and diffusivity are tensor quantities, and the thermal properties of a foliated rock can vary substantially depending on the direction of foliation relative to the thermal gradient. It has not been possible to incorporate foliation or schistosity information on the tables. It is felt that the gneiss and schist tables contain sufficient data for statistically significant means to be calculated.

More than 20 people have been responsible for the measurements during the 24 year lifetime of the Geothermics Group. Periodic checks have shown that this has not introduced systematic differences in measurement results. However there is the possibility that different people would assign different names, from the list available to them, to a particular rock sample. This may result in small inconsistencies of usage in the rock names in the tables, but it is not felt to be serious.

The thermal conductivity and diffusivity of an aggregate material such as a rock is a function of the individual conductivity and diffusivity of its constituents. Several authors have proposed models for calculating conductivity from known mineral content (e.g. Brailsford and Major, 1964; Horai and Baldrige, 1972). Drury and Jessop (1983) used much of the data listed in the tables below to assess these models, and concluded that conductivity can generally be predicted to an accuracy of approximately 15% if mineral content is well known. Discrepancies between observations and predictions arise both from the inherent ambiguity of assigning a single conductivity value to a single

mineral, and to the mathematical simplifications of the models. Data on thermal properties of minerals can be found in Clark (1966) and Kappelmeier and Haenel (1974).

In the data tables, the main rock type is given in the heading, and specific sample type is shown in abbreviated form. Abbreviations are listed in Appendix 1. COND, DIFF, DENS and POR refer to conductivity (W/mK), diffusivity (mm^2/s), density (Mg/m^3) and porosity. Minerals and their percentage contents are given as a series of two-letter mineral abbreviation (Appendix 2) and content, rounded to the nearest whole number. Indeterminate or trace amounts of identifiable minerals are indicated by the mineral abbreviation without a value for its content. Each table for a main rock type group is followed by a short table of statistical information - mean and standard deviation of conductivity, and where applicable of diffusivity, density and porosity.

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Appendix A: Abbreviations for rock names

AC SCHIST	-actinolite schist	AMPHIBLIT	-amphibolite
AN GABBRO	-anorthosite gabbro	AU GNSS	-augite gneiss
BASALT	-basalt	BI GNSS	-biotite gneiss
BI GR GNSS	-biotite granite gneiss	BI GRANIT	-biotite granite
BI SCHIST	-biotite schist	BI SI GNSS	-biotite sillimanite gneiss
BI QZAMPHB	-biotite quartz amphibolite	CL GABBRO	-chlorite gabbro
CL SCHIST	-chlorite schist	DIORITE	-diorite
FL BI GNSS	-feldspar biotite gneiss	FL GNSS	-feldspar gneiss
FL GT GNSS	-feldspar garnet gneiss	FL HB GNSS	-feldspar hornblende gneiss
GABBRO	-gabbro	GR GNSS	-granitic gneiss
GRANITE	-granite	GRANOPHYR	-granophyre
GRD GNSS	-granodiorite gneiss	GRNDIORIT	-granodiorite
GT GNSS	-garnet gneiss	GT SCHIST	-garnet schist
HB GNSS	-hornblende gneiss	MET GABBRO	-metagabbro
MET QMONZN	-meta-quartz monzonite	MONZONITE	-monzonite
MZ GRANITE	-monzo-granite	NORITE	-norite
OL GABBRO	-olivine gabbro	PX GR GNSS	-pyroxene granite gneiss
PX GT GNSS	-pyroxene garnet gneiss	QDIORIT	-quartz diorite
QGABBRO	-quartz gabbro	Q MZ DIORT	-quartz monzodiorite
QMONZONIT	-quartz monzonite	QSYENIT	-quartz syenite
QZ BI GNSS	-quartz biotite gneiss	QZ FL GNSS	-quartz feldspar gneiss
QZ HB GNSS	-quartz hornblende gneiss	QZ GNSS	-quartz gneiss
QZ MZ GNSS	-quartz monzonite gneiss	SE SCHIST	-sericite schist
SERPENT	-serpentinite	SY GNSS	-syenite gneiss
SY GRANITE	-syenogranite	SYENITE	-syenite
SYODIORIT	-syenodiorite		

Appendix B: Abbreviations for mineral names

AC - actinolite	AG - aegirene	AL - allanite
AP - apatite	BI - biotite	CA - calcite
CB - carbonate	CD - cordierite	CL - chlorite
CM - cummingtonite	CP - clinopyroxene	EP - epidote
FL - feldspar	GT - garnet	HB - hornblende
HY - hypersthene	KF - potassium feldspar	MC - mica
MF - mafics	MI - microcline	MU - muscovite
OL - olivine	OP - opaques	PH - phlogopite
PL - plagioclase	PX - pyroxene	PY - pyrite
QZ - quartz	SE - sericite	SF - sphene
SI - sillimanite	SL - sulphide	SR - serpentine
ZR - zircon		

DATA FOR GRANITE - PAGE 1

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT										METHOD	
GRANITE	3.59		2.44	.005	KF 50	PL 10	QZ 35	MF 5		BI	OP					ESTIMATE
GRANITE	2.97		2.46	.004	KF 55	PL 10	QZ 25	MF 10		BI	HB	OP				ESTIMATE
GRANITE	3.41		2.65	.005	KF 40	PL 10	QZ 35	MF 15		BI	HB	OP				ESTIMATE
GRANITE	2.73		2.67	.005	KF 40	PL 20	QZ 25	MF 15		BI	HB					ESTIMATE
GRANITE	3.04		2.64		KF 40	PL 15	QZ 30	MF 15		BI	OP					ESTIMATE
GRANITE	3.44		2.65	.007	KF 40	PL 10	QZ 35	MF 15		BI	OP					ESTIMATE
GRANITE	2.70		2.57	.005	KF 60	PL 10	QZ 20	MF 10		BI	OP					ESTIMATE
GRANITE	3.34		2.62	.005	KF 60	PL 10	QZ 30	MF 15		BI	HB	OP				ESTIMATE
GRANITE	4.04		2.64	.005	KF 45	PL 15	QZ 35	MF 15		BI	HB	OP				ESTIMATE
GRANITE	3.03		2.63	.004	KF 45	PL 10	QZ 30	MF 15		BI	OP					ESTIMATE
GRANITE	3.04		2.58	.005	KF 50	PL 10	QZ 30	MF 10		BI	HB	OP				ESTIMATE
GRANITE	3.77		2.62	.004	KF 50	PL 5	QZ 35	MF 10		BI	HB	OP				ESTIMATE
GRANITE	3.35		2.64	.005	KF 45	PL 10	QZ 35	MF 10		BI	HB	OP				ESTIMATE
GRANITE	3.40		2.62	.004	KF 50	PL 10	QZ 30	MF 10		BI	OP					ESTIMATE
GRANITE	3.69		2.71	.004	KF 55	PL 5	QZ 35	MF 5		HB	OP	BI				ESTIMATE
GRANITE	3.36		2.64	.003	KF 50	PL 5	QZ 30	MF 15		HB	OP	BI				ESTIMATE
GRANITE	4.07		2.61	.003	KF 35	PL 12	QZ 38	MF 15		BI	EP	OP				POINT COUNT
GRANITE	3.87		2.61	.003	KF 45	PL 20	QZ 35	MF 10		HB	BI	OP				ESTIMATE
GRANITE	3.40		2.64	.006	KF 55	PL 5	QZ 30	MF 10		HB	BI	OP				ESTIMATE
GRANITE	4.27		2.62		PL 5	KF 45	QZ 40	MF 10		BI	EP	MU				ESTIMATE
GRANITE	3.37		2.57		PL 20	KF 45	QZ 33	MF 2		OP	BI					ESTIMATE
GRANITE	3.10		2.64		PL 18	KF 45	QZ 30	MF 7		BI	EP	OP				ESTIMATE
GRANITE	3.29		2.59		PL 20	KF 50	QZ 28	MF 2		BI	OP					ESTIMATE
GRANITE	3.22		2.63		PL 15	KF 55	QZ 26	MF 4		BI	OP					ESTIMATE
GRANITE	3.03		2.62		PL 18	KF 50	QZ 30	MF 2		BI	OP					ESTIMATE
GRANITE	3.39		2.62		PL 20	KF 45	QZ 30	MF 5		BI	OP	EP				ESTIMATE
GRANITE	3.51		2.59		PL 15	KF 42	QZ 30	MF 3		BI	EP					ESTIMATE
GRANITE	3.55		2.63		PL 20	KF 40	QZ 32	MF 8		BI	OP					ESTIMATE
GRANITE	3.48		2.61		KF 60	QZ 30	MF 10			BI	OP					ESTIMATE
GRANITE	3.69		2.63		PL 15	KF 50	QZ 30	MF 5		BI	OP					ESTIMATE
GRANITE	3.27		2.65		KF 13	PL 32	QZ 53	MU 2								ESTIMATE
GRANITE	3.20		2.65		KF 40	QZ 40	PL 10	MF 10		BI						ESTIMATE
GRANITE	3.05		2.67		KF 42	PL 23	QZ 27	MF 8		EP	OP					ESTIMATE
GRANITE	3.28		2.70		KF 45	PL 15	QZ 32	MF 18		BI	OP	EP				ESTIMATE
GRANITE	3.05		2.74		FL 47	QZ 21	MF 32			CB	OP	BI	CL			ESTIMATE
GRANITE	3.25		2.67		KF 50	PL 10	QZ 25	MF 15		EP	OP	BI				ESTIMATE
GRANITE	3.32		2.63		KF 50	PL 15	QZ 25	MF 10		BI	OP	EP				ESTIMATE
GRANITE	2.81		2.65		KF 50	PL 15	QZ 25	MF 10		BI	OP					ESTIMATE
GRANITE	2.74		2.66		KF 40	PL 20	QZ 25	MF 15		BI	EP					ESTIMATE
GRANITE	2.86		2.67		KF 40	PL 15	QZ 25	MF 20		AG	BI					ESTIMATE
GRANITE	2.40		2.70		KF 31	PL 28	QZ 26	MF 20		BI	AG	OP				POINT COUNT
GRANITE	2.91		2.68		KF 40	PL 17	QZ 29	MF 14		BI	CB	OP				POINT COUNT
GRANITE	2.82		2.66		KF 35	PL 25	QZ 28	MF 12		BI	OP	CB				ESTIMATE
GRANITE	2.72		2.66		KF 35	PL 20	QZ 25	MF 20		BI	OP					ESTIMATE
GRANITE	2.91		2.65		KF 50	PL 10	QZ 25	MF 15		BI	EP	OP				ESTIMATE
GRANITE	3.32		2.59		PL 22	MI 40	QZ 32	MF 8		BI	OP					ESTIMATE
GRANITE	3.32		2.59		PL 26	MI 40	QZ 30	MF 4		BI	OP					ESTIMATE
GRANITE	3.12		2.67		FL 56	QZ 26	MF 18	BI		OP						ESTIMATE
GRANITE	3.26		2.63		MI 40	PL 13	QZ 30	MF 17		BI	OP					ESTIMATE
GRANITE	4.20		2.59		MI 53	QZ 40	PL 5	MF 2		OP						ESTIMATE

DATA FOR GRANITE - PAGE 2

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT										METHOD	
GRANITE	4.63		2.61		MI 38	QZ 50	PL 8	MF 4		BI	OP					ESTIMATE
GRANITE	3.65		2.58		MI 38	PL 35	QZ 22	MF 5		EP	OP					ESTIMATE
GRANITE	5.06		2.60		MI 35	QZ 62	MF 3			OP						ESTIMATE
GRANITE	2.93		2.72		MI 32	PL 18	QZ 26	MF 24		BI	OP					ESTIMATE
GRANITE	3.62		2.60		MI 42	PL 25	QZ 28	MF 6		BI	OP					ESTIMATE
GRANITE	3.09		2.66		MI 38	PL 20	QZ 25	MF 18		BI	OP					ESTIMATE
GRANITE	2.55		2.69		FL 53	QZ 28	MF 19	BI		OP						ESTIMATE
GRANITE	3.17		2.67		MI 50	PL 15	QZ 25	MF 20		BI	EP					ESTIMATE
GRANITE	3.31		2.60		MI 44	PL 20	QZ 34	MF 2		OP						ESTIMATE
GRANITE	4.00		2.58		MI 50	PL 10	QZ 35	MF 10		BI	OP					ESTIMATE
GRANITE	3.19		2.59		MI 40	PL 20	QZ 36	MF 4		OP						ESTIMATE
GRANITE	3.03		2.69		MI 40	PL 18	QZ 22	MF 20		BI	EP	OP				ESTIMATE
BI GRANIT	2.76		2.72		FL 46	QZ 22	MF 32	BI		OP						ESTIMATE
GRANITE	2.35		2.82		FI 44	QZ 22	MF 34	BI		OP	EP	SR				POINT COUNT
GRANITE	4.97		2.59		MI 42	QZ 55	MF 3			BI	EP					ESTIMATE
BI GRANIT	3.14		2.69		FL 49	QZ 24	MF 27	BI		EP	OP					ESTIMATE
GRANITE	3.69		2.61		MI 40	PL 18	QZ 31	MF 11	BI	OP						ESTIMATE
GRANITE	3.18		2.59		MI 48	PL 15	QZ 32	MF 5		BI	OP					ESTIMATE
GRANITE	3.27		2.62	.007	FL 60	QZ 35	MF 5			BI	OP					ESTIMATE
GRANITE	3.66		2.62	.006	KF 35	PL 25	QZ 35	MF 5		BI						ESTIMATE
GRANITE	2.85		2.59	.005	KF 55	PL 15	QZ 25	MF 5		BI						ESTIMATE
GRANITE	3.41		2.61	.006	KF 40	PL 20	QZ 35	MF 5		BI	EP					ESTIMATE
GRANITE	3.13		2.64	.003	KF 45	PL 15	QZ 30	MF 10		BI	EP	OP				ESTIMATE
GRANITE	3.38		2.62	.005	FL 55	QZ 35	MF 10	BI	OP							ESTIMATE
GRANITE	3.55		2.60	.006	KF 45	PL 15	QZ 35									ESTIMATE
GRANITE	3.36		2.63	.006	KF 50	PL 10	QZ 35	MF 5		BI						ESTIMATE
GRANITE	3.35		2.63	.005	KF 45	PL 15	QZ 30	MF 10		BI	OP					ESTIMATE
GRANITE	3.37		2.59	.005	KF 50	PL 10	QZ 30	MF 10		BI	OP					ESTIMATE
GRANITE	3.09		2.68	.004	KF 40	PL 10	QZ 25	MF 25		BI						ESTIMATE
GRANITE	3.44		2.67	.003	KF 40	PL 10	QZ 40	MF 10		BI	OP					ESTIMATE
GRANITE	3.58		2.67	.003	FL 50	QZ 40	MF 10			BI	OP					POINT COUNT
GRANITE	3.40		2.61	.004	KF 65	QZ 25	MF 10			BI						ESTIMATE
GRANITE	3.54		2.60	.006	KF 50	PL 15	QZ 30	MF 5		BI	OP					ESTIMATE
GRANITE	3.21		2.59	.008	KF 65	QZ 30	PL 05									ESTIMATE
GRANITE	3.15		2.66	.004	KF 35	PL 25	QZ 35	MF 5		BI	OP					ESTIMATE
GRANITE	3.24		2.62	.003	KF 60	QZ 30	MF 10			BI						ESTIMATE
GRANITE	3.35		2.59	.005	KF 60	PL 8	QZ 30	MF 2		BI						ESTIMATE
GRANITE	3.12		2.58	.008	KF 50	PL 20	QZ 28	MF 2		BI	OP					ESTIMATE
GRANITE	3.41		2.59	.008	KF 50	PL 10	QZ 35	MF 5		BI	EP					ESTIMATE
GRANITE	3.36		2.60	.005	KF 55	PL 10	QZ 30	MF 5		BI	OP					ESTIMATE
GRANITE	3.16		2.65	.003	KF 40	PL 15	QZ 30	MF 15		BI	OP	EP				ESTIMATE
GRANITE	3.29		2.61	.006	KF 55	PL 5	QZ 35	MF 5		BI	OP					ESTIMATE
GRANITE	3.19		2.61	.006	KF 50	PL 15	QZ 33	MF 2		BI	OP					ESTIMATE
GRANITE	3.23		2.64	.004	KF 40	PL 20	QZ 30	MF 10		BI	EP	OP				ESTIMATE
GRANITE	3.78		2.59	.004	KF 45	PL 15	QZ 38	MF 2		OP	EP					ESTIMATE
GRANITE	3.43		2.68	.002	KF 50	PL 10	QZ 35	MF 5		BI	OP					ESTIMATE
GRANITE	3.55		2.58	.003	KF 50	PL 10	QZ 36	MF 4		BI	OP					ESTIMATE
GRANITE	3.52		2.62	.004	KF 45	PL 10	QZ 30	MF 15		BI						ESTIMATE
GRANITE	3.44		2.63	.004	KF 45	PL 15	QZ 30	MF 10		BI	OP					ESTIMATE
GRANITE	3.30		2.62	.004	KF 50	PL 10	QZ 30	MF 10		BI	OP					ESTIMATE

DATA FOR GRANITE - PAGE 3

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT							METHOD	
GRANITE	3.53		2.63	.003	KF 40	PL 15	QZ 25	MF 15	BI	OP	EP	ESTIMATE	
GRANITE	3.20		2.62	.006	KF 50	PL 15	QZ 25	MF 10	BI			ESTIMATE	
GRANITE	3.28		2.63	.002	KF 50	PL 15	QZ 25	MF 10	BI	EP		ESTIMATE	
GRANITE	3.28		2.64	.002	KF 45	PL 15	QZ 30	MF 10	BI	OP		ESTIMATE	
GRANITE	3.34		2.61	.004	KF 55	PL 10	QZ 20	MF 15	BI	OP		ESTIMATE	
GRANITE	3.36		2.61	.004	KF 55	PL 15	QZ 30	MF 10	BI	OP		ESTIMATE	
GRANITE	3.49		2.61	.004	KF 50	PL 15	QZ 30	MF 5	BI			ESTIMATE	
GRANITE	3.28		2.63	.005	KF 50	PL 8	QZ 28	MF 14	BI	OP		ESTIMATE	
GRANITE	3.38		2.62	.005	KF 50	PL 20	QZ 25	MF 5	BI			ESTIMATE	
GRANITE	3.40		2.61	.004	KF 55	PL 10	QZ 25	MF 10	BI	EB		ESTIMATE	
GRANITE	3.30		2.62	.003	KF 60	QZ 25	MF 15		BI			ESTIMATE	
GRANITE	3.34		2.62	.009	KF 50	PL 15	QZ 30	MF 5	BI			ESTIMATE	
GRANITE	3.36		2.62	.007	KF 50	PL 15	QZ 25	MF 10	BI	OP		ESTIMATE	
GRANITE	3.43		2.61	.007	KF 60	PL 10	QZ 25	MF 5	BI			ESTIMATE	
GRANITE	3.45		2.64	.006	KF 55	PL 10	QZ 30	MF 5	BI			ESTIMATE	
GRANITE	3.23		2.63	.003	KF 40	PL 20	QZ 30	MF 10	BI			ESTIMATE	
GRANITE	3.24		2.62	.004	KF 45	PL 20	QZ 30	MF 5	BI	EP		ESTIMATE	
GRANITE	3.47		2.62	.004	KF 50	PL 18	QZ 30	MF 2	BI			ESTIMATE	
GRANITE	3.37		2.62	.005	KF 65	PL 10	QZ 20	MF 5	BI	OP		ESTIMATE	
GRANITE	3.21		2.62	.004	KF 60	PL 10	QZ 25	MF 5	BI			ESTIMATE	
GRANITE	3.53		2.63	.004	KF 50	PL 10	QZ 30	MF 10	BI			ESTIMATE	
GRANITE	3.57		2.61	.004	KF 40	PL 25	QZ 30	MF 5	BI	AL		ESTIMATE	
GRANITE	3.37		2.69	.003	QZ 30	FL 55	MF 15		BI	OP		ESTIMATE	
BI GRANIT	3.16		2.76	.003	QZ 25	FL 50	MF 25		BI	OP		ESTIMATE	
BI GRANIT	2.59		2.70	.002	QZ 25	FL 50	MF 25		BI	OP		ESTIMATE	
BI GRANIT	3.30		2.70	.001	QZ 35	FL 50	MF 15		BI	OP		ESTIMATE	
GRANITE	3.53		2.63	.003	QZ 35	FL 55	MF 10		BI	OP		ESTIMATE	
BI GRANIT	3.69		2.67	.003	QZ 35	FL 45	MF 20		BI	OP		ESTIMATE	
GRANITE	3.73		2.69	.003	QZ 40	FL 45	MF 15		BI	OP		ESTIMATE	
GRANITE	3.10		2.68	.112	QZ 25	FL 55	MF 20		BI	SL		ESTIMATE	
BI GRANIT	3.16		2.62	.003	QZ 25	FL 55	MF 20		BI	OP		ESTIMATE	
GRANITE	3.55		2.62	.004	QZ 35	KF 40	PL 10	MF 15	BI	OP		ESTIMATE	
GRANITE	3.80		2.62	.004	QZ 35	KF 40	PL 15	MF 10	BI	OP		ESTIMATE	
GRANITE	3.24		2.61	.003	FL 70	QZ 23	MF 07					ESTIMATE	
GRANITE	3.04		2.58	.003	KF 65	QZ 20	BI 12	PL 03				ESTIMATE	
GRANITE	3.12		2.59	.004	FL 80	QZ 15	BI 05					ESTIMATE	
GRANITE	3.38		2.60	.005	FL 85	QZ 13	BI 02					ESTIMATE	
GRANITE	3.69		2.66	.004	FL 60	QZ 30	BI 10					ESTIMATE	
GRANITE	3.28		2.61	.004	FL 68	QZ 15	BI 15	MU 02				ESTIMATE	
GRANITE	3.48		2.63	.003	KF 55	PL 5	QZ 30	MF 10	BI	OP		ESTIMATE	
GRANITE	3.14		2.63	.004	KF 55	PL 5	QZ 30	MF 10	BI	OP		ESTIMATE	
GRANITE	3.34		2.62	.005	KF 55	PL 5	QZ 30	MF 10	BI	EP	OP	ESTIMATE	
GRANITE	3.48		2.61	.007	KF 55	PL 10	QZ 30	MF 5	BI	OP		ESTIMATE	
GRANITE	4.11		2.98	.004	KF 45	PL 25	QZ 35	MF 5	BI	OP		ESTIMATE	
GRANITE	3.25		2.62	.005	KF 55	PL 10	QZ 25	MF 10	BI	EP	OP	ESTIMATE	
GRANITE	3.50		2.64	.005	KF 50	PL 10	QZ 30	MF 10	BI	OP		ESTIMATE	
GRANITE	3.40		2.62		KF 50	PL 20	QZ 30	MF 5	BI	OP		ESTIMATE	
GRANITE	3.66		2.62	.005	KF 36	PL 24	QZ 32	MF 13	BI	CL	SL	OP	POINT COUNT
GRANITE	4.82		2.58	.012	KF 36	PL 15	QZ 43	MF 6	BI	CB	OP	POINT COUNT	
GRANITE	3.49		2.55	.002	KF 60	PL 10	QZ 25	MF 5	BI	OP		ESTIMATE	

DATA FOR GRANITE - PAGE 4

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT										METHOD
GRANITE	4.01		2.40	.049	KF 55	PL 10	QZ 30	MF 5		BI	OP	EP		ESTIMATE	
GRANITE	3.38		2.55	.002	KF 60	PL 10	QZ 22	MF 8		BI	OP			ESTIMATE	
GRANITE	3.88		2.30	.074	KF 50	PL 12	QZ 35	MF 3		BI	OP			ESTIMATE	
GRANITE	3.68		2.57	.010	KF 55	PL 8	QZ 35	MF 2		BI	OP			ESTIMATE	
GRANITE	3.55		2.62	.003	KF 58	PL 5	QZ 35	MF 2		BI	OP			ESTIMATE	
GRANITE	3.99		2.37	.076	KF 48	PL 10	QZ 40	MF 2		BI	OP			ESTIMATE	
GRANITE	3.87		2.40	.057	KF 34	PL 18	QZ 39	MF 8		BI	MU	OP		POINT COUNT	
GRANITE	3.71		2.61	.010	KF 40	PL 29	QZ 28	MF 3		BI	EP			POINT COUNT	
GRANITE	3.68		2.52	.032	KF 50	PL 20	QZ 25	MF 5		OP	BI			ESTIMATE	
GRANITE	3.78		2.36	.083	KF 50	PL 10	QZ 40							ESTIMATE	
GRANITE	3.54		2.62	.003	KF 52	PL 15	QZ 35	MF 3		OP	BI			ESTIMATE	
GRANITE	3.48		2.61	.003	KF 53	PL 15	QZ 35	MF 2		OP	BI			ESTIMATE	
GRANITE	3.48		2.62	.004	KF 50	PL 15	QZ 35	MF 5		BI	OP			ESTIMATE	
GRANITE	3.48		2.55	.020	KF 52	PL 10	QZ 35	MF 3		OP	BI			ESTIMATE	
GRANITE	3.50		2.61	.004	KF 53	PL 8	QZ 35	MF 4		BI	OP			ESTIMATE	
GRANITE	3.53		2.58	.004	KF 53	PL 10	QZ 35	MF 2		BI	OP			ESTIMATE	
GRANITE	3.57		2.62	.003	KF 45	PL 10	QZ 35	MF 10		OP	BI			ESTIMATE	
GRANITE	3.20		2.50	.005	KF 55	PL 5	QZ 35	MF 5		EP	OP			ESTIMATE	
GRANITE	3.60		2.61	.003	KF 50	PL 14	QZ 35	MF 1		OP	BI			ESTIMATE	
GRANITE	3.19		2.64	.002	KF 40	PL 15	QZ 35	MF 10		OP	BI			ESTIMATE	
GRANITE	3.47		2.63	.005	KF 50	PL 10	QZ 35	MF 5		OP	BI			ESTIMATE	
GRANITE	2.92		2.65	.003	KF 40	PL 18	QZ 35	MF 7		OP	BI			ESTIMATE	
GRANITE	3.17		2.63	.004	KF 50	PL 15	QZ 25	MF 10		BI	OP			ESTIMATE	
GRANITE	3.38		2.61	.004	KF 44	PL 16	QZ 36	MF 4		BI	OP			POINT COUNT	
GRANITE	3.50		2.61	.003	KF 53	PL 10	QZ 35	MF 2		BI	OP	EP		ESTIMATE	
GRANITE	3.51		2.61	.003	KF 60	PL 10	QZ 25	MF 5		BI	OP			ESTIMATE	
GRANITE	3.42		2.64	.005	KF 40	PL 18	QZ 37	MF 5		OP	BI			ESTIMATE	
GRANITE	3.65		2.58	.006	KF 53	PL 10	QZ 35	MF 2		OP	BI			ESTIMATE	
GRANITE	3.62		2.60	.014	KF 48	PL 5	QZ 35	MF 2		OP	EP			ESTIMATE	
GRANITE	3.61		2.51	.037	KF 50	PL 10	QZ 35	MF 5		BI	OP			ESTIMATE	
GRANITE	3.38		2.63	.004	KF 35	PL 20	QZ 35	MF 5		EP	OP			POINT COUNT	
GRANITE	3.58		2.61	.004	KF 45	PL 15	QZ 30	MF 10		OP	BI			ESTIMATE	
GRANITE	3.37		2.74	.004	QZ 30	KF 40	PL 15	MF 25		GT	BI			ESTIMATE	
GRANITE	3.32	1.46	2.62	.002	QZ 28	PL 30	KF 34	BI 05	MU 01	CL 01	MF 01			POINT COUNT	
GRANITE	3.13	1.41	2.62	.002	QZ 20	PL 32	KF 41	BI 04	OP 01	MF 02				POINT COUNT	
GRANITE	3.13	1.30	2.62	.001	QZ 26	PL 33	KF 34	BI 06	CL 01					POINT COUNT	
GRANITE	2.89	1.15	2.62	.002	QZ 32	PL 42	KF 18	BI 05	MU 01	CL 01	OP 01			POINT COUNT	
GRANITE	3.38	1.50	2.64	.002	QZ 29	PL 35	KF 29	BI 04	CL 01	OP 01	MF 01			POINT COUNT	
GRANITE	3.41	1.58	2.62	.001	QZ 28	PL 32	KF 34	BI 04	MU 01	CL 01				POINT COUNT	
GRANITE	3.49	1.49	2.62	.002	QZ 31	PL 37	KF 27	BI 03	CL 01	OP 01				POINT COUNT	
GRANITE	3.05	1.29	2.63	.002	QZ 26	PL 37	KF 27	BI 07	MU 01	CL 01	OP 01			POINT COUNT	
GRANITE	3.53	1.42	2.61	.002	QZ 25	PL 29	KF 40	BI 03	MU 02	OP 01				POINT COUNT	
GRANITE	3.40	1.68	2.62	.003	QZ 27	PL 33	KF 31	BI 06	MU 01	CL 01	OP 01			POINT COUNT	
GRANITE	3.50	1.72	2.61	.003	QZ 30	PL 31	KF 30	BI 04	MU 02	CL 01	EP 01	OP 01		POINT COUNT	
GRANITE	3.45	1.53	2.63	.002	QZ 32	PL 27	KF 34	BI 03	MU 01	OP 02	MF 01			POINT COUNT	
GRANITE	3.50	1.28	2.61	.003	QZ 28	PL 28	KF 37	BI 03	MU 01	EP 01	OP 01	MF 01		POINT COUNT	
GRANITE	3.20	1.09	2.63	.002	QZ 23	PL 37	KF 31	BI 05	MU 01	CL 01	EP 01	OP 01		POINT COUNT	
GRANITE	3.75	1.22	2.62	.004	QZ 30	PL 32	KF 34	BI 03	MU 01					POINT COUNT	
GRANITE	3.75	1.38	2.62	.004	QZ 29	PL 47	KF 18	BI 02	MU 01	CL 01	OP 01	MF 01		POINT COUNT	
GRANITE	3.78	1.39	2.62	.003	QZ 28	PL 47	KF 22	BI 02	MF 01					POINT COUNT	

DATA FOR GRANITE - PAGE 5

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT							METHOD	
GRANITE	3.61	1.35	2.62	.005	QZ 34	PL 33	KF 28	BI 03	MU 01	MF 01			POINT COUNT
GRANITE	3.73	1.38	2.63	.004	QZ 27	PL 28	KF 42	BI 01	MF 02				POINT COUNT
GRANITE	3.80	1.27	2.63	.003	QZ 30	PL 41	KF 24	BI 03	MU 01	MF 01			POINT COUNT
GRANITE	3.61	1.25	2.62	.003	QZ 35	PL 29	KF 31	BI 02	MU 01	CL 01	MF 01		POINT COUNT
GRANITE	3.80	1.28	2.61	.004	QZ 30	PL 36	KF 32	BI 02					POINT COUNT
GRANITE	3.69	1.34	2.62	.003	QZ 32	PL 40	KF 23	BI 02	MU 01	MF 02			POINT COUNT
GRANITE	3.89	1.00	2.61	.005	QZ 20	PL 41	KF 35	BI 03	MU 01				POINT COUNT
GRANITE	3.68	1.24	2.63	.006	QZ 34	PL 33	KF 31	BI 01	MU 01				POINT COUNT
GRANITE	3.45	1.28	2.62	.004	QZ 23	PL 39	KF 33	BI 03	MU 01	MF 01			POINT COUNT
GRANITE	3.58	1.08	2.64	.004	QZ 27	PL 40	KF 27	BI 03	MU 01	OP 01	MF 01		POINT COUNT
GRANITE	3.51	1.15	2.63	.004	QZ 29	PL 36	KF 29	BI 04	MU 01	MF 01			POINT COUNT
GRANITE	3.28	1.05	2.59	.007	QZ 32	PL 36	KF 25	BI 05	MF 02				POINT COUNT
GRANITE	3.25	.90	2.91	.007	QZ 12	PL 24	KF 61	BI 01	MU 01	CL 01			POINT COUNT
GRANITE	3.40		2.63	.006	QZ 30	PL 40	KF 20	BI 03	MF 07				ESTIMATE
GRANITE	3.27		2.62	.003	QZ 28	PL 37	KF 27	BI 07					STAINED DISC
GRANITE	3.46		2.66	.003	QZ 32	PL 35	KF 27	BI 05					STAINED DISC
GRANITE	3.32		2.66	.004	QZ 28	PL 35	KF 32	BI 04					STAINED DISC
GRANITE	3.47		2.62	.004	QZ 32	PL 31	KF 32	BI 04					STAINED DISC
GRANITE	3.07		2.63	.003	QZ 25	PL 38	KF 30	BI 06					STAINED DISC
GRANITE	3.45		2.62	.005	QZ 29	PL 34	KF 32	BI 04					STAINED DISC
GRANITE	3.30		2.63	.005	QZ 29	PL 40	KF 25	BI 05					STAINED DISC
GRANITE	3.41		2.62	.003	QZ 31	PL 36	KF 28	BI 04					STAINED DISC
GRANITE	3.41		2.45	.004	QZ 32	PL 33	KF 29	BI 05					STAINED DISC
GRANITE	3.41		2.45	.004	QZ 26	PL 37	KF 32	BI 04					STAINED DISC
GRANITE	3.49		2.62	.003	QZ 32	PL 35	KF 28	BI 04					STAINED DISC
GRANITE	3.44		2.56	.004	QZ 24	PL 33	KF 36	BI 06					STAINED DISC
GRANITE	2.99		2.62	.004	QZ 35	PL 30	KF 31	BI 03					STAINED DISC
GRANITE	3.40		2.62	.006	QZ 30	PL 30	KF 35	BI 04					STAINED DISC
GRANITE	3.44		2.63	.005	QZ 30	PL 31	KF 34	BI 04					STAINED DISC
GRANITE	3.45		2.63	.005	QZ 31	PL 31	KF 33	BI 04					STAINED DISC
GRANITE	3.51		2.63	.004	QZ 33	PL 37	KF 24	BI 05					STAINED DISC
GRANITE	3.39		2.63	.006	QZ 33	PL 31	KF 32	BI 03					STAINED DISC
GRANITE	3.64		2.63	.006	QZ 29	PL 34	KF 34	BI 02					STAINED DISC
GRANITE	3.14		2.64	.004	QZ 30	PL 26	KF 38	BI 05					STAINED DISC
GRANITE	3.61		2.59	.006	QZ 31	PL 28	KF 39	BI 01					STAINED DISC
GRANITE	3.38		2.64	.003	QZ 28	PL 34	KF 31	BI 06					STAINED DISC
GRANITE	3.40		2.63	.008	QZ 32	PL 28	KF 34	BI 05					STAINED DISC
GRANITE	3.34		2.62	.008	QZ 29	PL 31	KF 36	BI 03					STAINED DISC
GRANITE	3.49		2.62	.004	QZ 30	PL 30	KF 34	BI 05					STAINED DISC
GRANITE	3.61		2.61	.005	QZ 27	PL 34	KF 35	BI 03					STAINED DISC
GRANITE	3.44		2.61	.006	QZ 32	PL 31	KF 33	BI 03					STAINED DISC
GRANITE	3.66		2.62	.005	QZ 31	PL 37	KF 27	BI 04					STAINED DISC
GRANITE	3.60		2.62	.005	QZ 30	PL 34	KF 30	BI 05					STAINED DISC
GRANITE	3.64		2.67	.006	QZ 33	PL 37	KF 26	BI 03					STAINED DISC
GRANITE	3.59		2.61	.005	QZ 31	PL 32	KF 30	BI 06					STAINED DISC
GRANITE	3.68		2.62	.005	QZ 32	PL 32	KF 32	BI 03					STAINED DISC
GRANITE	3.59		2.62	.005	QZ 30	PL 34	KF 30	BI 05					STAINED DISC
GRANITE	3.49		2.63	.005	QZ 28	PL 29	KF 37	BI 05					STAINED DISC
GRANITE	3.44		2.63	.006	QZ 27	PL 31	KF 35	BI 06					STAINED DISC
GRANITE	3.46		2.62	.006	QZ 26	PL 37	KF 31	BI 05					STAINED DISC

DATA FOR GRANITE - PAGE 9

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT								METHOD
MZ GRANITE	3.81	1.30	2.64	.006	QZ 32	PL 34	KF 29	BI 03	OP 01	MF 01			POINT COUNT
MZ GRANITE	3.68	1.18	2.61	.005	QZ 33	PL 42	KF 24	OP 01					POINT COUNT
MZ GRANITE	3.88	1.23	2.64	.005	QZ 32	PL 36	KF 27	BI 03	OP 01	MF 01			POINT COUNT
MZ GRANITE	3.88	1.18	2.63	.005	QZ 31	PL 37	KF 27	BI 04	OP 01				POINT COUNT
MZ GRANITE	3.59	1.29	2.63	.005	QZ 30	PL 33	KF 29	BI 06	MU 01	OP 01			POINT COUNT
MZ GRANITE	3.63	1.60	2.65	.003	QZ 28	PL 36	KF 30	BI 05	MF 01				POINT COUNT

	Mean	S.D.	Number
Conductivity (W/mK)	3.50	0.37	396
Diffusivity (mm ² /s)	1.34	0.21	171
Density (Mg/m ³)	2.63	0.05	396
Porosity	0.006	0.011	345

DATA FOR MONZONITE - PAGE 1

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT										METHOD
QMONZONIT	3.05		2.71	.004	KF 35	PL 30	QZ 25	MF 10		HB	BI	OP			ESTIMATE
QMONZONIT	2.56		2.68	.006	FL 60	QZ 25	MF 15	BI	HB						ESTIMATE
QMONZONIT	2.66				PL 31	MI 31	QZ 24	MF 15	BI	HB	OP	EP	AL		POINT COUNT
QMONZONIT	3.18				FL 65	QZ 20	MF 15	BI	HB						ESTIMATE
QMONZONIT	3.17				FL 60	QZ 25	MF 15	BI							ESTIMATE
QMONZONIT	2.93		2.64	.005	FL 65	QZ 20	MF 15	BI							ESTIMATE
QMONZONIT	3.27				FL 65	QZ 27	MF 08	BI							ESTIMATE
QMONZONIT	3.01				FL 60	QZ 25	MF 15	BI							ESTIMATE
QMONZONIT	3.15		2.64	.002	PL 30	MI 30	QZ 33	MF 07	BI	OP	SF	MU	AL		POINT COUNT
QMONZONIT	3.14		2.65	.005	FL 65	QZ 25	MF 10	BI							ESTIMATE
QMONZONIT	2.77				FL 55	QZ 15	MF 30	BI	HB						ESTIMATE
QMONZONIT	2.17		2.74	.007	FL 70	QZ 10	MF 20	BI	HB						ESTIMATE
MONZONITE	2.72				FL 75	QZ 05	MF 20	BI	HB						ESTIMATE
QMONZONIT	2.58				FL 70	QZ 15	MF 15	BI							ESTIMATE
QMONZONIT	2.42				FL 70	QZ 15	MF 15	BI							ESTIMATE
MONZONITE	2.58		2.69	.007	FL 85	MF 15	HB	BI							ESTIMATE
MONZONITE	2.73		2.66	.009	PL 36	MI 35	QZ 11	MF 18	HB	BI	SF	OP	AL		POINT COUNT
QMONZONIT	3.09		2.66		PL 30	KF 30	QZ 25	MF 15		BI	EP	OP			ESTIMATE
QMONZONIT	2.99		2.61		PL 30	KF 35	QZ 25	MF 10		BI	EP	OP			ESTIMATE
QMONZONIT	4.10		2.65		PL 30	KF 30	QZ 30	MF 10		CL	BI	OP			POINT COUNT
QMONZONIT	2.03		2.66		KF 35	PL 30	QZ 8	MF 27		BI	OP	EP			ESTIMATE
QMONZONIT	3.07		2.64		KF 29	PL 27	QZ 28	MF 16		BI	MU	CB	OP		POINT COUNT
QMONZONIT	2.57		2.64		FL 60	QZ 20	MF 20			BI	OP				ESTIMATE
MONZONITE	2.25		2.80		KF 27	PL 32	QZ 3	MF 28		AG	CB	MU	BI		POINT COUNT
QMONZONIT	3.03		2.62		FL 55	QZ 20	MF 25			BI	EP	OP			ESTIMATE
QMONZONIT	2.82		2.70		KF 30	PL 25	QZ 20	MF 25		BI	AG	OP			ESTIMATE
QMONZONIT	2.66		2.69		KF 32	PL 28	QZ 20	MF 25		BI	AG	CB	OP		ESTIMATE
QMONZONIT	2.68		2.70		KF 28	PL 25	QZ 22	MF 25		BI	AG	CB	OP		ESTIMATE
QMONZONIT	2.31		2.74		KF 27	PL 23	QZ 25	MF 25		BI	AG	CB	OP		POINT COUNT
QMONZONIT	2.97		2.66		KF 28	PL 25	QZ 26	MF 21		BI	AG	CB			ESTIMATE
QMONZONIT	3.08		2.66		KF 28	PL 22	QZ 24	MF 26		BI	EP	OP			ESTIMATE
QMONZONIT	2.77		2.64		KF 35	PL 30	QZ 20	MF 15		BI	OP				ESTIMATE
QMONZONIT	2.66		2.70		KF 30	PL 25	QZ 20	MF 25		AG	BI	CB			ESTIMATE
QMONZONIT	2.72		2.67		KF 25	PL 25	QZ 20	MF 30		AG	BI	CB			ESTIMATE
QMONZONIT	2.71		2.71		KF 30	PL 15	QZ 20	MF 35		AG	BI	CB	OP		ESTIMATE
QMONZONIT	2.87		2.66		KF 32	PL 28	QZ 25	MF 15		BI	AG	OP			ESTIMATE
QMONZONIT	3.03		2.65		KF 30	PL 35	QZ 25	MF 15		BI	OP				ESTIMATE
QMONZONIT	2.65		2.66		KF 30	PL 35	QZ 20	MF 15		BI	OP	CB			ESTIMATE
QMONZONIT	2.79		2.67		KF 30	PL 35	QZ 25	MF 10		BI	CB				ESTIMATE
QMONZONIT	2.52		2.66		KF 35	PL 32	QZ 20	MF 13		BI	CB	OP			ESTIMATE
QMONZONIT	2.38		2.66		KF 35	PL 30	QZ 15	MF 15		BI	AG	OP			ESTIMATE
QMONZONIT	2.76		2.69		KF 30	PL 30	QZ 20	MF 20		BI	EP	SF			ESTIMATE
QMONZONIT	2.69		2.67		KF 30	PL 35	QZ 15	MF 15		BI	OP				ESTIMATE
QMONZONIT	2.55		2.70		KF 30	PL 30	QZ 20	MF 20		BI	OP				ESTIMATE
QMONZONIT	2.55		2.68		KF 35	PL 30	QZ 20	MF 15		BI	AG	OP	CB		ESTIMATE
QMONZONIT	2.67		2.67		KF 40	PL 35	QZ 15	MF 10		BI	CB	OP			ESTIMATE
QMONZONIT	2.86		2.67		KF 40	PL 35	QZ 15	MF 10		BI	EP				ESTIMATE
QMONZONIT	2.55		2.66		KF 40	PL 35	QZ 15	MF 10		BI	OP				ESTIMATE
QMONZONIT	2.67		2.65		KF 40	PL 30	QZ 20	MF 10		BI	EP	CB			ESTIMATE
QMONZONIT	2.60		2.74		KF 25	PL 25	QZ 25	MF 25		AG	BI	OP			ESTIMATE

DATA FOR MONZONITE - PAGE 2

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT										METHOD
QMONZONIT	3.93		2.62		PL 27	MI 28	QZ 30	MF 15		BI	OP	EP	MU	ESTIMATE	
QMONZONIT	3.82		2.61		PL 27	MI 29	QZ 36	MF 08		BI	EP			ESTIMATE	
QMONZONIT	3.37		2.61		PL 31	MI 35	QZ 28	MF 6		BI	OP	EP		ESTIMATE	
QMONZONIT	3.33		2.61		PL 30	MI 34	QZ 32	MF 4		BI	OP			ESTIMATE	
QMONZONIT	3.74		2.60		PL 32	MI 35	QZ 20	MF 3		BI	OP			ESTIMATE	
QMONZONIT	3.02		2.60		MI 35	PL 40	QZ 20	MF 5		BI				ESTIMATE	
QMONZONIT	3.03		2.57		PL 35	MI 38	QZ 22	MF 5		EP	OP			ESTIMATE	
QMONZONIT	3.11		2.59		PL 34	MI 35	QZ 25	MF 6		BI	EP	OP		ESTIMATE	
QMONZONIT	3.05		2.60		MI 38	PL 30	QZ 28	MF 5		BI				ESTIMATE	
QMONZONIT	2.96		2.67		FL 61	QZ 23	MF 16	BI		OP	MU	EP	CB	POINT COUNT	
QMONZONIT	3.43		2.60		MI 34	PL 30	QZ 30	MF 6		BI	OP			ESTIMATE	
QMONZONIT	4.93		2.62		PL 30	MI 26	QZ 32	MF 12	EP	BI	OP			ESTIMATE	
QMONZONIT	3.45		2.63		MI 28	PL 28	QZ 30	MF 14		BI	OP			ESTIMATE	
QMONZONIT	3.49		2.61		MI 34	PL 30	QZ 32	MF 4		BI	OP			ESTIMATE	
QMONZONIT	3.42		2.60	.004	KF 40	PL 35	QZ 20	MF 5		BI	OP			ESTIMATE	
QMONZONIT	3.11		2.74	.004	KF 25	PL 25	QZ 25	MF 25		BI	HB			ESTIMATE	
QMONZONIT	2.99		2.70	.002	KF 25	PL 25	QZ 20	MF 30		BI	HB	OP		ESTIMATE	
QMONZONIT	3.22		2.70	.003	KF 25	PL 30	QZ 30	MF 10		BI	OP		CB	POINT COUNT	
QMONZONIT	3.03		2.69	.003	KF 30	PL 30	QZ 20	MF 20		BI	HB	OP		ESTIMATE	
QMONZONIT	3.27		2.65	.003	KF 30	PL 25	QZ 30	MF 15		BI	OP			ESTIMATE	
QMONZONIT	2.97		2.66	.003	PL 30	KF 25	QZ 25	MF 25		BI	HB	OP		ESTIMATE	
QMONZONIT	3.14		2.64	.006	KF 30	PL 35	QZ 25	MF 10		BI	OP			ESTIMATE	
QMONZONIT	2.92		2.65	.006	KF 30	PL 30	QZ 25	MF 15		BI	HB			ESTIMATE	
QMONZONIT	3.48		2.62	.004	KF 25	PL 30	QZ 30	MF 15		BI				ESTIMATE	
QMONZONIT	3.31		2.64	.003	KF 25	PL 35	QZ 25	MF 15		BI	MU			ESTIMATE	
QMONZONIT	3.06		2.62	.003	KF 45	PL 35	QZ 15	MF 5		BI	HB			ESTIMATE	
QMONZONIT	3.59		2.61	.004	KF 40	PL 30	QZ 25	MF 5		BI	EP	HB		ESTIMATE	
QMONZONIT	2.78				KF 34	PL 30	QZ 22	MF 14		BI	HB	OP		ESTIMATE	
QMONZONIT	3.09				KF 35	PL 25	QZ 30	MF 10		BI	HB	OP		ESTIMATE	
QMONZONIT	2.95				KF 35	PL 25	QZ 25	MF 15		HB	BI			ESTIMATE	
QMONZONIT	3.27				KF 20	PL 36	QZ 28	MF 16		HB	BI	OP		POINT COUNT	
QMONZONIT	2.71				KF 40	PL 30	QZ 20	MF 10		HB	BI	OP		ESTIMATE	
QMONZONIT	2.92		2.62	.004	QZ 25	KF 35	PL 25	MF 15		BI	OP			ESTIMATE	
QMONZONIT	3.08		2.63	.004	KF 55	PL 10	QZ 25	MF 20		BI	OP			ESTIMATE	
QMONZONIT	2.60		2.67	.004	KF 30	PL 30	QZ 25	MF 15		BI	OP			ESTIMATE	
QMONZONIT	3.50		2.66	.002	KF 35	PL 32	QZ 25	MF 8		OP	BI			ESTIMATE	
QMONZONIT	2.95		2.66	.003	KF 30	PL 30	QZ 25	MF 15		BI	OP			ESTIMATE	
QMONZONIT	3.22		2.66	.002	KF 35	PL 30	QZ 25	MF 10		BI	OP			ESTIMATE	
QMONZONIT	3.05		2.65	.003	KF 35	PL 25	QZ 30	MF 10		BI	OP			ESTIMATE	
QMONZONIT	3.02		2.65	.005	KF 35	PL 28	QZ 25	MF 13		OP	BI			ESTIMATE	
QMONZONIT	3.15		2.62	.005	KF 35	PL 25	QZ 25	MF 15		BI	OP			ESTIMATE	
QMONZONIT	3.03		2.67	.000	KF 35	PL 25	QZ 25	MF 15		BI	OP			ESTIMATE	
QMONZONIT	2.68		2.63	.005	KF 32	PL 25	QZ 30	MF 13		OP	BI			ESTIMATE	
QMONZONIT	2.90		2.64	.003	KF 35	PL 25	QZ 30	MF 10		OP	BI			ESTIMATE	
QMONZONIT	3.16		2.64	.004	KF 35	PL 30	QZ 30	MF 5		OP	EP	BI		ESTIMATE	
QMONZONIT	3.41		2.65	.004	KF 30	PL 30	QZ 30	MF 10		BI	EP	OP		POINT COUNT	
QMONZONIT	3.08		2.67	.003	QZ 25	KF 30	PL 25	MF 20		BI	HB	GT	OP	ESTIMATE	
QMONZONIT	2.64		2.79	.002	QZ 15	KF 35	PL 30	MF 20		GT	HB	BI		ESTIMATE	
QZ MZ GNSS	2.62	.87	2.72	.003	QZ 12	KF 30	PL 28	HB 11	GT 09	BI 05	CL 03	OP 02		POINT COUNT	

DATA FOR MONZONITE - PAGE 4

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT								METHOD
MZ GRANITE	3.73	1.27	2.62	.005	QZ 29	PL 35	KF 31	BI 02	CL 01	OP 01	MF 01		POINT COUNT
MZ GRANITE	3.63	1.48	2.61	.006	QZ 27	PL 38	KF 31	BI 03	MF 01				POINT COUNT
MZ GRANITE	3.64	1.19	2.61	.006	QZ 32	PL 38	KF 26	BI 03	MF 01				POINT COUNT
MZ GRANITE	3.65	1.56	2.63	.006	QZ 27	PL 43	KF 25	BI 03	MU 01	OP 01			POINT COUNT
MZ GRANITE	3.90	1.70	2.62	.005	QZ 29	PL 33	KF 35	BI 03					POINT COUNT
MZ GRANITE	3.83	1.14	2.62	.005	QZ 28	PL 32	KF 33	BI 06	MF 01				POINT COUNT
MZ GRANITE	3.80	1.50	2.62	.005	QZ 29	PL 40	KF 26	BI 04	MU 01				POINT COUNT
MZ GRANITE	3.38	1.82	2.62	.005	QZ 27	PL 40	KF 28	BI 04	MU 01				POINT COUNT
MZ GRANITE	3.41	1.68	2.63	.005	QZ 28	PL 38	KF 28	BI 05	MF 01				POINT COUNT
MZ GRANITE	3.78	1.21	2.61	.005	QZ 30	PL 32	KF 36	BI 01	MF 01				POINT COUNT
MZ GRANITE	3.72	1.14	2.61	.006	QZ 30	PL 38	KF 29	BI 03					POINT COUNT
MZ GRANITE	3.79	1.87	2.62	.005	QZ 29	PL 36	KF 30	BI 03	MU 01	MF 01			POINT COUNT
MZ GRANITE	3.42	1.47	2.62	.003	QZ 31	PL 36	KF 28	BI 03	MU 01	MF 01			POINT COUNT
MZ GRANITE	2.96	1.00	2.78	.004	QZ 26	PL 38	KF 21	BI 11	MU 01	OP 02	AL 01		POINT COUNT
MZ GRANITE	3.29	1.21	2.62	.004	QZ 29	PL 39	KF 29	BI 03					POINT COUNT
MZ GRANITE	3.50	1.31	2.59	.003	QZ 34	PL 33	KF 22	MF 01					POINT COUNT
MZ GRANITE	3.19	1.20	2.62	.004	QZ 30	PL 42	KF 23	BI 03	CL 01	MU 01			POINT COUNT
MZ GRANITE	3.07	1.64	2.62	.004	QZ 26	PL 35	KF 35	BI 02	OP 01	MF 01			POINT COUNT
MZ GRANITE	3.18		2.62	.004	QZ 23	PL 37	KF 34	BI 03	CL 01	OP 02			POINT COUNT
MZ GRANITE	3.45		2.62	.004	QZ 36	PL 39	KF 21	BI 02	MF 02				POINT COUNT
MZ GRANITE	3.15	1.42	2.63	.005	QZ 28	PL 41	KF 27	BI 03	MF 01				POINT COUNT
MZ GRANITE	3.79	1.24	2.61	.004	QZ 28	PL 41	KF 26	BI 03	MU 01	OP 01			POINT COUNT
MZ GRANITE	3.79	1.43	2.62	.004	QZ 30	PL 37	KF 27	BI 03	MU 01	MF 02			POINT COUNT
MZ GRANITE	3.46	1.57	2.64	.004	QZ 27	PL 34	KF 32	BI 05	OP 01	MF 01			POINT COUNT
MZ GRANITE	3.66	1.58	2.63	.005	QZ 21	PL 35	KF 38	BI 05	OP 01				POINT COUNT
MZ GRANITE	3.72	1.04	2.61	.005	QZ 31	PL 33	KF 32	BI 03	MU 01				POINT COUNT
MZ GRANITE	3.83	1.43	2.62	.005	QZ 34	PL 37	KF 23	BI 04	MF 02				POINT COUNT
MZ GRANITE	3.52	1.35	2.63	.004	QZ 25	PL 33	KF 35	BI 05	MU 01	OP 01			POINT COUNT
MZ GRANITE	3.56	1.47	2.62	.005	QZ 29	PL 36	KF 30	BI 04	MF 01				POINT COUNT
MZ GRANITE	3.64	1.56	2.62	.004	QZ 30	PL 33	KF 33	BI 03	MF 01				POINT COUNT
MZ GRANITE	3.70	1.18	2.62	.004	QZ 30	PL 35	KF 31	BI 03	MF 01				POINT COUNT
MZ GRANITE	3.49	1.00	2.63	.005	QZ 27	PL 38	KF 28	BI 04	OP 01				POINT COUNT
MZ GRANITE	3.55	1.39	2.60	.005	QZ 19	PL 29	KF 49	BI 01	MU 01	MF 01			POINT COUNT
MZ GRANITE	2.95	1.27	2.63	.004	QZ 29	PL 37	KF 28	BI 04	OP 01	MF 01			POINT COUNT
MZ GRANITE	3.75	1.45	2.62	.005	QZ 31	PL 30	KF 36	BI 02	MF 01				POINT COUNT
MZ GRANITE	3.55	1.14	2.62	.005	QZ 34	PL 40	KF 23	BI 02	MF 01				POINT COUNT
MZ GRANITE	3.63	1.26	2.62	.004	QZ 31	PL 37	KF 28	BI 03	MF 01				POINT COUNT
MZ GRANITE	3.58	1.28	2.60	.006	QZ 27	PL 35	KF 36	BI 01	MF 01				POINT COUNT
MZ GRANITE	3.60	1.19	2.62	.006	QZ 32	PL 36	KF 27	BI 04	MF 01				POINT COUNT
MZ GRANITE	3.63	1.16	2.62	.006	QZ 29	PL 36	KF 31	BI 03	MF 01				POINT COUNT
MZ GRANITE	3.68	1.09	2.62	.005	QZ 29	PL 33	KF 33	BI 04	OP 01				POINT COUNT
MZ GRANITE	3.42	1.66	2.62	.005	QZ 29	PL 39	KF 26	BI 04	MU 01	MF 01			POINT COUNT
MZ GRANITE	3.22	1.03	2.63	.002	QZ 24	PL 45	KF 25	BI 04	MU 01	MF 01			POINT COUNT
MZ GRANITE	3.58	1.32	2.63	.005	QZ 29	PL 37	KF 29	BI 04	MU 01				POINT COUNT
MZ GRANITE	3.77	1.30	2.61	.004	QZ 35	PL 35	KF 26	BI 03	MF 01				POINT COUNT
MZ GRANITE	3.57	1.49	2.62	.005	QZ 31	PL 37	KF 28	BI 03	MF 01				POINT COUNT
MZ GRANITE	3.42	1.26	2.63	.005	QZ 34	PL 35	KF 27	BI 03	MF 01				POINT COUNT
MZ GRANITE	3.68	1.35	2.61	.005	QZ 27	PL 25	KF 44	BI 03	MF 01				POINT COUNT
MZ GRANITE	3.81	1.30	2.64	.006	QZ 32	PL 34	KF 29	BI 03	OP 01	MF 01			POINT COUNT

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ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT										METHOD			
MZ GRANITE	3.68	1.18	2.61	.005	QZ 33	PL 42	KF 24	OP 01										POINT COUNT
MZ GRANITE	3.88	1.23	2.64	.005	QZ 32	PL 36	KF 27	BI 03	OP 01	MF 01								POINT COUNT
MZ GRANITE	3.88	1.18	2.63	.005	QZ 31	PL 37	KF 27	BI 04	OP 01									POINT COUNT
MZ GRANITE	3.59	1.29	2.63	.005	QZ 30	PL 33	KF 29	BI 06	MU 01	OP 01								POINT COUNT
MZ GRANITE	3.63	1.60	2.65	.003	QZ 28	PL 36	KF 30	BI 05	MF 01									POINT COUNT
QMONZONIT	3.90		2.67	.003	QZ 10	FL 50	MF 40				HB	SL	CL					ESTIMATE
QMONZONIT	3.62		2.70	.004	QZ 10	FL 45	MF 45				HB	SL	EP	CL				ESTIMATE
QMONZONIT	4.27		2.69	.004	QZ 5	FL 55	MF 40				HB	SL	EP	CL				ESTIMATE
QMONZONIT	3.80		2.63	.009	QZ 10	FL 55	MF 35				HB	SL	CL					ESTIMATE
QMONZONIT	4.03		2.65	.006	QZ 10	FL 60	MF 30				HB	EP	SL	CL				ESTIMATE
QMONZONIT	4.43		2.67	.004	QZ 10	FL 55	MF 35				HB	EP	SL	CL				ESTIMATE
QMONZONIT	4.08		2.66	.003	QZ 10	FL 60	MF 30				HB	SL	EP	CL				ESTIMATE
QMONZONIT	3.89		2.65	.006	QZ 10	FL 45	MF 45				HB	EP	SL	CL				ESTIMATE
QMONZONIT	3.78		2.67	.004	QZ 10	FL 55	MF 35				EP	CL	SL					ESTIMATE
QMONZONIT	4.61		2.67	.004	QZ 10	FL 55	MF 35				EP	CL	SL					ESTIMATE
QMONZONIT	4.04		2.65	.004	QZ 15	FL 65	MF 20				HB	EP	SL					ESTIMATE
QMONZONIT	3.91		2.66	.008	QZ 10	FL 55	MF 35				HB	EP	SL	CL				ESTIMATE

	Mean	S.D.	Number
Conductivity (W/mK)	3.29	0.55	214
Diffusivity (mm ² /s)	1.31	0.26	100
Density (Mg/m ³)	2.65	0.05	194
Porosity	0.004	0.001	136

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ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT										METHOD
SYODIORIT	2.54		2.76	.005	KF 30	PL 20	QZ 5	MF 45		HB	BI	OP			ESTIMATE
SYODIORIT	2.66		2.78	.015	PL 60	MF 40				HB	EP	BI			ESTIMATE
SYODIORIT	2.71		2.83	.002	KF 40	PL 15	QZ 3	MF 42		HB	EP	BI	OP		POINT COUNT
GRNDIORIT	2.81		2.70	.004	KF 9	PL 38	QZ 18	MF 35		HB	BI	OP			POINT COUNT
GRNDIORIT	3.10		2.48	.001	PL 65	QZ 20	MF 15	BI							ESTIMATE
GRNDIORIT	2.69		2.76	.005	PL 48	QZ 20	MF 32	BI	HB	EP	MI	OP	SF		POINT COUNT
GRNDIORIT	3.12				PL 60	QZ 25	MF 15	BI							ESTIMATE
GRNDIORIT	2.90				PL 60	QZ 20	MF 20	BI							ESTIMATE
GRNDIORIT	2.84				PL 65	QZ 20	MF 15	BI							ESTIMATE
GRNDIORIT	2.85				FL 65	QZ 20	MF 15	BI							ESTIMATE
GRNDIORIT	3.29		2.65	.007	FL 60	QZ 25	MF 15	BI							ESTIMATE
GRNDIORIT	3.11				FL 65	QZ 20	MF 15	BI							ESTIMATE
GRNDIORIT	2.72				FL 60	QZ 25	MF 15	BI							ESTIMATE
GRNDIORIT	3.09				FL 60	QZ 25	MF 15	BI							ESTIMATE
GRNDIORIT	2.84				FL 55	QZ 25	MF 20	BI							ESTIMATE
GRNDIORIT	3.29				FL 65	QZ 15	MF 20	BI							ESTIMATE
GRNDIORIT	3.33				FL 65	QZ 25	MF 10	BI							ESTIMATE
GRNDIORIT	3.00				PL 51	QZ 32	MF 18	BI	OP	MI	AP	SF			POINT COUNT
GRNDIORIT	3.52				FL 60	QZ 25	MF 15	BI							ESTIMATE
SYODIORIT	2.45				PL 55	MI 20	QZ 05	MF 20	BI						ESTIMATE
SYODIORIT	2.39				FL 70	MF 25	QZ 05	BI	HB						ESTIMATE
GRNDIORIT	2.88		2.66	.002	FL 70	MF 20	QZ 10	BI							ESTIMATE
SYODIORIT	2.44		2.71	.006	FL 70	MF 25	QZ 05	BI							ESTIMATE
SYODIORIT	2.71				FL 75	MF 20	QZ 05	HB	BI						ESTIMATE
SYODIORIT	2.34				FL 75	QZ 05	MF 20	HB	BI						ESTIMATE
SYODIORIT	2.34		2.70	.006	FL 75	QZ 05	MF 20	HB	BI						ESTIMATE
SYODIORIT	2.53				FL 85	PL 70	MI 15	MF 15	HB						ESTIMATE
SYODIORIT	2.73				FL 75	PL	MI	QZ 05	MF 20						ESTIMATE
SYODIORIT	2.70		2.67	.002	FL 85	PL	MI	MF 15	HB						ESTIMATE
SYODIORIT	2.56				FL 80	PL	MI	MF 20	HB						ESTIMATE
SYODIORIT	2.54		2.72	.005	FL 80	PL	MI	MF 20	HB						ESTIMATE
SYODIORIT	2.38				FL 80	PL	MI	MF 20	HB						ESTIMATE
SYODIORIT	2.43				FL 75	MF 25	HB	BI							ESTIMATE
SYODIORIT	2.60				FL 70	MF 30	HB	BI							ESTIMATE
SYODIORIT	2.27				FL 80	PL	MI	MF 20	HB						ESTIMATE
GRNDIORIT	2.32		2.70	.002	FL 75	MF 15	HB	QZ 10							ESTIMATE
SYODIORIT	2.34				FL 80	MF 20	HB								ESTIMATE
GRNDIORIT	2.22				FL 70	MF 25	QZ 05	HB	BI						ESTIMATE
SYODIORIT	1.97				PL 66	MF 26	HB	BI	QZ 08	AP	SF	OP	AL		POINT COUNT
GRNDIORIT	2.77				FL 80	MF 10	BI	QZ 10							ESTIMATE
SYODIORIT	2.31		2.71	.009	FL 75	MF 25	HB	BI							ESTIMATE
GRNDIORIT	2.37				FL 75	MF 15	HB	QZ 10							ESTIMATE
GRNDIORIT	2.42		2.69	.007	FL 65	MF 25	HB	QZ 10							ESTIMATE
SYODIORIT	2.52				PL 65	QZ 13	MF 22	BI	HB	SF	OP	AP	AL		POINT COUNT
SYODIORIT	2.22				FL 70	MF 30	HB	BI							ESTIMATE
GRNDIORIT	2.74				FL 70	MF 20	BI	QZ 10							ESTIMATE
GRNDIORIT	2.76		2.65		PL 35	KF 25	QZ 25	MF 15		BI	EP	OP			ESTIMATE
GRNDIORIT	3.04		2.61		PL 40	KF 25	QZ 25	MF 10		BI	EP				ESTIMATE
GRNDIORIT	2.01		2.74		PL 36	QZ 28	MF 36			BI	OP				POINT COUNT
GRNDIORIT	1.95		2.74		PL 50	QZ 15	MF 35			BI	CL				ESTIMATE

DATA FOR DIORITE - PAGE 2

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT						METHOD			
GRNDIORIT	2.52		2.73		PL 48	QZ 20	MF 32		CL	EP	BI	OP	POINT COUNT	
GRNDIORIT	2.63		2.65		PL 45	KF 20	QZ 20	MF 15		BI			ESTIMATE	
GRNDIORIT	2.86		2.64		PL 45	KF 20	QZ 20	MF 15		BI	OP		ESTIMATE	
SYODIORIT	2.72		2.69		KF 35	PL 10	QZ 5	MF 50		BI	AG	EP	OP	ESTIMATE
SYODIORIT	2.86		2.71		KF 35	PL 18	QZ 15	MF 32		BI	AG	CB	OP	ESTIMATE
SYODIORIT	2.54		2.68		KF 30	PL 20	QZ 15	MF 30		BI	AG	EP		ESTIMATE
SYODIORIT	2.65		2.76		KF 30	PL 18	QZ 10	MF 42		AG	BI	OP		ESTIMATE
SYODIORIT	2.10		2.91		FL 30	QZ 5	MF 65	AG		BI	OP	CB		ESTIMATE
SYODIORIT	3.34		3.16		FL 30	QZ 15	MF 55			AG	BI	OP		ESTIMATE
GRNDIORIT	2.44		2.66		KF 20	PL 35	QZ 15	MF 30		BI	EP	OP	CB	ESTIMATE
SYODIORIT	2.25		2.75		KF 20	PL 40	QZ 10	MF 30		BI	AG	OP	CB	ESTIMATE
GRNDIORIT	2.63		2.66		KF 20	PL 35	QZ 18	MF 27		BI	AG	OP		ESTIMATE
SYODIORIT	2.32		2.81		KF 30	PL 20	QZ 5	MF 45		AG	BI	OP	EP	ESTIMATE
SYODIORIT	2.05		2.83		KF 30	PL 20	QZ 5	MF 45		AG	BI	OP		ESTIMATE
GRNDIORIT	2.69		2.66		KF 25	PL 32	QZ 20	MF 23		AG	BI	OP		ESTIMATE
GRNDIORIT	2.75		2.69		KF 20	PL 30	QZ 25	MF 25		BI	EP	OP		ESTIMATE
SYODIORIT	2.52		2.69		KF 30	PL 20	QZ 10	MF 40		AG	BI			ESTIMATE
SYODIORIT	2.47		2.74		KF 30	PL 20	QZ 5	MF 45		AG	BI	OP		ESTIMATE
GRNDIORIT	2.92		2.67		KF 25	PL 35	QZ 25	MF 15		BI	OP			ESTIMATE
GRNDIORIT	2.60		2.66		FL 60	QZ 25	MF 15			BI	EP	OP		ESTIMATE
GRNDIORIT	2.71		2.67		FL 65	QZ 22	MF 13			BI	OP			ESTIMATE
GRNDIORIT	2.67		2.68		FL 65	QZ 22	MF 13			BI	EP	OP		ESTIMATE
GRNDIORIT	2.90		2.66		FL 65	QZ 25	MF 10			BI	OP	SF		ESTIMATE
GRNDIORIT	2.97		2.66		KF 25	PL 35	QZ 30	MF 10		BI	CB			ESTIMATE
SYODIORIT	2.09		2.74		KF 30	PL 15	QZ 5	MF 50		AG	BI	OP		ESTIMATE
SYODIORIT	2.16		2.80		KF 30	PL 20	QZ 5	MF 45		AG	BI	EP	SF	ESTIMATE
GRNDIORIT	2.71		2.67		KF 21	PL 31	QZ 31	MF 17		AG	BI	CB	MU	POINT COUNT
GRNDIORIT	3.11		2.69		PL 48	QZ 30	MF 22	BI		OP	EP			ESTIMATE
GRNDIORIT	4.38		2.77		FL 28	QZ 45	MF 27			BI	OP			ESTIMATE
GRNDIORIT	5.30		2.64		FL 48	QZ 48	MF 4			BI	EP			ESTIMATE
GRNDIORIT	4.78		2.63		FL 60	QZ 38	MF 2	BI		OP				ESTIMATE
GRNDIORIT	3.14		2.62		FL 62	QZ 31	MF 7	BI		OP				ESTIMATE
GRNDIORIT	3.28		2.60		FL 63	QZ 33	MF 4			OP	EP			ESTIMATE
GRNDIORIT	3.61		2.61		FL 62	QZ 35	MF 3			EP	OP			ESTIMATE
GRNDIORIT	3.24		2.61		FL 64	QZ 32	MF 4	BI		OP				ESTIMATE
GRNDIORIT	3.48		2.62		PL 45	MI 18	QZ 35	MF 2		BI	OP			ESTIMATE
GRNDIORIT	3.23		2.57		PL 45	MI 20	QZ 22	MF 13		EP	OP			ESTIMATE
GRNDIORIT	2.94		2.65		PL 40	MI 15	QZ 26	MF 19		BI	OP			ESTIMATE
GRNDIORIT	3.32		2.61		FL 45	QZ 50	MF 5			BI	EP			ESTIMATE
GRNDIORIT	3.63		2.61		FL 60	QZ 38	MF 2			BI	OP			ESTIMATE
GRNDIORIT	3.58		2.68		FL 42	QZ 35	MF 23	BI		EP	OP			ESTIMATE
GRNDIORIT	3.09		2.60		FL 68	QZ 28	MF 4	BI						ESTIMATE
GRNDIORIT	2.98		2.62		PL 44	MI 20	QZ 26	MF 10		BI	OP			ESTIMATE
GRNDIORIT	3.50		2.70		PL 38	QZ 37	KF 7	MF 18	BI	OP				POINT COUNT
GRNDIORIT	3.15		2.66		PL 40	MI 18	QZ 29	MF 13		BI	EP	OP		ESTIMATE
GRNDIORIT	3.24		2.71		PL 35	MI 15	QZ 28	MF 22	BI	OP				ESTIMATE
GRNDIORIT	3.60		2.64		PL 35	MI 18	QZ 30	MF 14	BI	OP	EP			ESTIMATE
GRNDIORIT	4.29		2.63		PL 44	MI 16	QZ 33	MF 7		BI	OP			ESTIMATE
GRNDIORIT	2.88		2.67	.004	FL 60	QZ 25	MF 15	HB						ESTIMATE
GRNDIORIT	2.83		2.66	.003	FL 60	QZ 25	MF 15	HB						ESTIMATE

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ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT										METHOD		
GRNDIORIT	3.24		2.65		QZ 27	PL 47	KF 21	HB 01	BI 02	EP 01	OP 01						POINT COUNT
GRNDIORIT	3.32		2.70	.005	QZ 25	PL 45	KF 22	HB 01	BI 04	EP 01	SF 01	OP 01					POINT COUNT
GRNDIORIT	3.14		2.64	.005	QZ 25	PL 46	KF 21	HB 02	BI 03	EP 01	SF 01	OP 01					POINT COUNT
GRNDIORIT	3.20		2.64	.004	QZ 29	PL 45	KF 18	HB 01	BI 03	EP 01	SF 01	OP 01	CL 01				POINT COUNT
GRNDIORIT	3.20		2.64	.005	QZ 27	PL 47	KF 19	HB 01	BI 02	EP 01	SF 01	OP 01	CL 01				POINT COUNT
GRNDIORIT	3.27		2.63	.005	QZ 28	PL 44	KF 20	HB 01	BI 03	EP 01	SF 01	OP 01	CL 01				POINT COUNT
GRNDIORIT	3.08		2.62	.005	QZ 25	PL 45	KF 18	HB 01	BI 03	EP 05	SF 01	OP 01	CL 01				POINT COUNT
GRNDIORIT	3.38		2.61	.009	QZ 25	PL 48	KF 22	CL 03	EP 01	OP 01							POINT COUNT
GRNDIORIT	3.11		2.65	.005	QZ 27	PL 47	KF 17	HB 01	BI 03	EP 02	SF 01	OP 01	CL 01				POINT COUNT
GRNDIORIT	3.04		2.64	.006	QZ 28	PL 45	KF 19	HB 01	BI 03	EP 01	SF 01	OP 01	CL 01				POINT COUNT
GRNDIORIT	3.45		2.64	.004	QZ 28	PL 48	KF 18	HB 01	BI 02	EP 01	SF 01	CL 01					POINT COUNT
GRNDIORIT	3.22		2.63	.005	QZ 26	PL 48	KF 19	BI 03	EP 01	CL 01	SF 01	OP 01					POINT COUNT
GRNDIORIT	3.13		2.64	.005	QZ 23	PL 47	KF 22	HB 01	BI 03	CL 01	EP 01	OP 01	SF 01				POINT COUNT
GRNDIORIT	3.00		2.65	.006	QZ 24	PL 47	KF 20	HB 01	BI 04	CL 01	EP 01	SF 01	OP 01				POINT COUNT
GRNDIORIT	3.10		2.64	.005	QZ 24	PL 45	KF 24	HB 01	BI 03	SF 01	EP 01	OP 01					POINT COUNT
GRNDIORIT	3.10		2.63	.006	QZ 21	PL 51	KF 21	HB 01	BI 03	EP 01	SF 01	OP 01					POINT COUNT
GRNDIORIT	2.98		2.63	.006	QZ 24	PL 47	KF 22	HB 02	BI 03	EP 01	SF 01						POINT COUNT
GRNDIORIT	3.04		2.64	.005	QZ 18	PL 50	KF 24	HB 01	BI 03	EP 02	SF 01	OP 01					POINT COUNT
GRNDIORIT	2.24		2.66	.004	QZ 27	PL 45	KF 20	HB 01	BI 03	EP 01	CL 01	SP 01	OP 01				POINT COUNT
GRNDIORIT	3.08		2.65	.005	QZ 23	PL 45	KF 24	HB 01	BI 03	EP 01	CL 01	SP 01	OP 01				POINT COUNT
GRNDIORIT	3.17		2.64	.005	QZ 26	PL 47	KF 20	HB 01	BI 03	EP 01	SF 01	OP 01					POINT COUNT
GRNDIORIT	3.04		2.65	.005	QZ 24	PL 47	KF 21	HB 01	BI 04	EP 01	SF 01	OP 01					POINT COUNT
GRNDIORIT	3.01		2.59	.006	QZ 25	PL 46	KF 21	HB 01	BI 04	EP 01	SF 01	OP 01					POINT COUNT
GRNDIORIT	3.01		2.63	.005	QZ 26	PL 52	KF 17	HB 01	BI 01	EP 01	SF 01	OP 01					POINT COUNT
GRNDIORIT	3.11		2.63	.006	QZ 26	PL 50	KF 20	HB 02	BI 01	EP 01							POINT COUNT
GRNDIORIT	3.01		2.67	.005	QZ 26	PL 47	KF 20	HB 01	BI 03	EP 01	SF 01	OP 01					POINT COUNT
GRNDIORIT	3.00		2.64	.005	QZ 20	PL 51	KF 23	BI 04	EP 01	OP 01							POINT COUNT
GRNDIORIT	3.26		2.63	.005	QZ 27	PL 45	KF 22	HB 01	BI 03	EP 01	SF 01						POINT COUNT
GRNDIORIT	3.14		2.63	.005	QZ 25	PL 48	KF 19	HB 02	BI 03	EP 01	SF 01	OP 01					POINT COUNT
GRNDIORIT	3.04		2.64	.004	QZ 24	PL 48	KF 21	HB 02	BI 02	EP 01	SF 01	OP 01					POINT COUNT
GRNDIORIT	2.90		2.65	.005	QZ 25	PL 46	KF 20	HB 02	BI 04	EP 01	SF 01	OP 01					POINT COUNT
GRNDIORIT	3.30		2.65	.005	QZ 24	PL 48	KF 18	HB 02	BI 02	CL 03	EP 01	SF 01	OP 01				POINT COUNT
GRNDIORIT	3.05		2.64	.004	QZ 21	PL 48	KF 24	HB 01	BI 02	CL 01	EP 01	SF 01	OP 01				POINT COUNT
GRNDIORIT	3.25		2.61	.007	QZ 22	PL 50	KF 21	CL 04	EP 01	SF 01	OP 01						POINT COUNT
GRNDIORIT	3.25		2.63	.006	QZ 27	PL 47	KF 18	HB 01	EP 01	CL 04	SF 01	OP 01					POINT COUNT
GRNDIORIT	3.20		2.61	.004	QZ 24	PL 48	KF 21	CL 05	SF 01	OP 01							POINT COUNT
GRNDIORIT	3.14		2.65	.003	QZ 24	PL 47	KF 20	HB 01	BI 03	CL 01	EP 01	SF 01					POINT COUNT
GRNDIORIT	3.06		2.66	.003	QZ 23	PL 47	KF 22	HB 02	BI 02	CL 01	EP 01	SF 01	OP 01				POINT COUNT
GRNDIORIT	3.18		2.65	.003	QZ 26	PL 46	KF 21	HB 02	BI 02	CL 01	EP 01	SF 01					POINT COUNT
GRNDIORIT	3.02		2.65	.003	QZ 29	PL 45	KF 20	HB 01	BI 02	EP 01	SF 01	CL 01					POINT COUNT
GRNDIORIT	3.06		2.67	.003	QZ 21	PL 48	KF 24	HB 01	BI 01	CL 02	EP 01	SF 01	OP 01				POINT COUNT
GRNDIORIT	3.21		2.65	.003	QZ 23	PL 52	KF 19	HB 01	BI 02	EP 01	SF 01	CL 01					POINT COUNT
GRNDIORIT	3.23		2.65	.003	QZ 25	PL 49	KF 20	HB 01	BI 02	EP 01	SF 01	OP 01					POINT COUNT
GRNDIORIT	3.10		2.65	.004	QZ 23	PL 48	KF 22	HB 02	BI 02	EP 01	SF 01	CL 01					POINT COUNT
GRNDIORIT	3.07		2.64	.004	QZ 28	PL 46	KF 18	HB 01	BI 04	EP 01	SF 01	OP 01					POINT COUNT
GRNDIORIT	3.14		2.65	.004	QZ 20	PL 49	KF 22	HB 01	BI 04	EP 02	SF 01	CL 01					POINT COUNT
GRNDIORIT	3.08		2.65	.004	QZ 25	PL 47	KF 21	HB 01	BI 03	EP 01	SF 01	OP 01					POINT COUNT
GRNDIORIT	3.20		2.64	.004	QZ 23	PL 47	KF 24	OP 01	BI 03	EP 01	SF 01						POINT COUNT
GRNDIORIT	3.15		2.66	.003	QZ 23	PL 48	KF 22	HB 01	BI 02	EP 01	SF 01	OP 01	CL 01				POINT COUNT
GRNDIORIT	3.03		2.64	.004	QZ 20	PL 48	KF 24	HB 01	BI 03	EP 02	SF 01	OP 01					POINT COUNT

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ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT									METHOD
GRNDIORIT	3.22		2.65	.003	QZ 28	PL 46	KF 18	HB 01	BI 03	EP 01	SF 01	OP 01	CL 01	POINT COUNT
GRNDIORIT	3.08		2.65	.003	QZ 27	PL 46	KF 20	HB 01	BI 01	CL 02	EP 01	SF 01	OP 01	POINT COUNT
GRNDIORIT	3.06		2.64	.004	QZ 26	PL 45	KF 22	HB 01	BI 03	EP 02	OP 01			POINT COUNT
GRNDIORIT	3.19		2.64	.003	QZ 25	PL 49	KF 21	HB 01	BI 02	EP 01	SF 01			POINT COUNT
GRNDIORIT	2.99		2.65	.003	QZ 26	PL 44	KF 22	HB 01	BI 04	EP 01	SF 01	CL 01		POINT COUNT
GRNDIORIT	3.08		2.65	.002	QZ 23	PL 46	KF 23	HB 01	BI 03	EP 01	SF 01	OP 01	CL 01	POINT COUNT
GRNDIORIT	3.05		2.65	.003	QZ 25	PL 48	KF 21	HB 01	BI 03	EP 01	OP 01			POINT COUNT
GRNDIORIT	3.10		2.63	.003	QZ 24	PL 49	KF 21	HB 01	BI 03	EP 01	OP 01			POINT COUNT
GRNDIORIT	3.05		2.65	.004	QZ 23	PL 48	KF 21	HB 01	BI 04	EP 02	SF 01			POINT COUNT
GRNDIORIT	3.22		2.63	.004	QZ 22	PL 44	KF 24	HB 01	BI 01	CL 03	EP 03	SF 01	OP 01	POINT COUNT
GRNDIORIT	3.03		2.63	.003	QZ 28	PL 43	KF 21	HB 01	BI 04	EP 01	SF 01	OP 01		POINT COUNT
GRNDIORIT	3.06		2.65	.004	QZ 23	PL 46	KF 24	HB 01	BI 03	EP 02	SF 01			POINT COUNT
GRNDIORIT	3.10		2.63	.004	QZ 20	PL 49	KF 24	HB 01	BI 03	EP 01	OP 01	SF 01		POINT COUNT
GRNDIORIT	3.85		2.61	.004	QZ 25	PL 43	KF 28	HB 01	BI 01	EP 01	CL 01			POINT COUNT
GRNDIORIT	2.98		2.62	.004	QZ 28	PL 44	KF 22	HB 01	BI 03	EP 01	OP 01			POINT COUNT
GRNDIORIT	4.46		2.64	.004	QZ 20	PL 50	KF 22	HB 01	BI 03	EP 02	OP 01	SF 01		POINT COUNT
GRNDIORIT	3.93	.94	2.65	.004	BI 04	QZ 39	PL 43	MI 13	MF 01					POINT COUNT
GRNDIORIT	3.83	1.14	2.63	.003	QZ 28	PL 43	KF 22	BI 04	CL 01	MU 01	OP 01			POINT COUNT
Q MZ DIORT	2.95	1.06	2.71	.003	QZ 15	FL 55	KF 07	BI 18	OP 01	MF 05				POINT COUNT
Q MZ DIORT	2.16	.64	2.82	.004	PL 45	KF 06	BI 45	AP 01	SF 02	AL 01				POINT COUNT
Q MZ DIORT	2.77	1.28	2.71	.003	QZ 11	PL 53	KF 09	BI 22	SF 01	EP 02	CA 03			POINT COUNT
QDIORIT	2.58	.85	2.70	.002	QZ 14	PL 66	KF 06	BI 12	OP 01	MF 01				POINT COUNT
GRNDIORIT	3.33	.98	2.66	.002	QZ 29	FL 44	KF 11	BI 15	MF 01					POINT COUNT
GRNDIORIT	3.85	.97	2.62	.002	QZ 31	FL 44	KF 20	BI 04						POINT COUNT
GRNDIORIT	3.80	1.34	2.64	.003	QZ 35	PL 46	KF 13	BI 05	MU 01					POINT COUNT
GRNDIORIT	2.36	.93	2.73	.005	QZ 27	FL 51	KF 07	BI 14	OP 01					POINT COUNT
GRNDIORIT	3.62	1.87	2.63	.003	QZ 40	PL 49	KF 10	OP 01						POINT COUNT
GRNDIORIT	3.61	1.73	2.63	.004	QZ 31	PL 44	KF 19	BI 04	MU 01	OP 01				POINT COUNT
GRNDIORIT	3.55	1.64	2.63	.004	QZ 29	PL 43	KF 22	BI 04	CL 01	MU 01				POINT COUNT
GRNDIORIT	3.62	1.01	2.65	.002	QZ 41	FL 48	KF 07	BI 02	CL 01	MU 01				POINT COUNT
GRNDIORIT	3.45	1.24	2.62	.004	QZ 32	PL 48	KF 17	BI 01	MU 01	OP 01				POINT COUNT
GRNDIORIT	3.52	1.40	2.62	.004	QZ 28	PL 47	KF 19	BI 05	MU 01					POINT COUNT
GRNDIORIT	3.84	1.58	2.61	.004	QZ 29	PL 44	KF 22	BI 03	MU 01	MF 01				POINT COUNT
GRNDIORIT	3.47	1.34	2.65	.003	QZ 30	PL 51	KF 12	BI 06	MU 01					POINT COUNT
GRNDIORIT	4.35	1.75	2.63	.004	QZ 41	FL 39	KF 19	BI 01	MU 01					POINT COUNT
GRNDIORIT	3.43	1.01	2.62	.004	QZ 29	PL 42	KF 22	BI 06	MF 01					POINT COUNT
GRNDIORIT	3.44	1.01	2.63	.005	QZ 30	PL 42	KF 21	BI 06	MF 01					POINT COUNT
GRNDIORIT	3.64	1.39	2.63	.006	QZ 31	PL 43	KF 20	BI 05	MF 01					POINT COUNT
GRNDIORIT	3.38	1.02	2.65	.004	QZ 31	PL 48	KF 13	BI 06	MU 01	MF 01				POINT COUNT
GRNDIORIT	3.54	1.06	2.62	.006	QZ 32	PL 46	KF 16	BI 04	MF 02					POINT COUNT
GRNDIORIT	3.48	1.37	2.63	.006	QZ 27	PL 45	KF 22	BI 05	MF 01					POINT COUNT

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ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT						METHOD
GRNDIORIT	3.18	1.21	2.63	.003	QZ 36	FL 46	KF 15	BI 02	MU 01		POINT COUNT
GRNDIORIT	3.33	1.91	2.64	.003	QZ 40	FL 41	KF 16	BI 03			POINT COUNT
GRNDIORIT	3.84	1.43	2.63	.001	QZ 33	PL 54	KF 09	BI 03	OP 01		POINT COUNT
GRNDIORIT	3.71	1.27	2.62	.005	QZ 36	PL 40	KF 20	BI 03	MF 01		POINT COUNT
GRNDIORIT		1.49			QZ 33	PL 41	KF 22	BI 03			POINT COUNT

	Mean	S.D.	Number
Conductivity (W/mK)	3.01	0.45	345
Diffusivity (mm ² /s)	1.22	0.25	59
Density (Mg/m ³)	2.67	0.06	301
Porosity	0.004	0.002	248

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ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT							METHOD
QZ FL GNSS	3.07		2.64	.004	KF 30	PL 20	QZ 26	MF 24	BI	OP	EP	POINT COUNT
QZ FL GNSS	3.17		2.61	.005	KF 20	PL 35	QZ 33	MF 12	BI	OP	EP	POINT COUNT
QZ FL GNSS	3.01		2.70	.005	KF 40	PL 10	QZ 25	MF 25	HB	BI	OP	ESTIMATE
FL GNSS	2.41		2.70		PL 50	QZ 10	MF 40		BI	OP		ESTIMATE
GRD GNSS	2.78		2.73		KF 15	PL 35	QZ 20	MF 30	BI	OP	EP	ESTIMATE
FL GNSS	2.60		2.71		KF 25	PL 15	QZ 18	MF 42	BI	AG	EP	CB ESTIMATE
FL GNSS	2.72		2.70		KF 20	PL 15	QZ 20	MF 45	BI	AG	EP	OP ESTIMATE
SY GNSS	2.24		2.80		KF 35	PL 5	QZ 5	MF 45	AG	BI		ESTIMATE
GRD GNSS	2.85		2.79		FL 50	QZ 18	MF 32		BI	AG	OP	ESTIMATE
SY GNSS	2.40		2.93		FL 40	MF 60			AG	BI	OP	ESTIMATE
SY GNSS	2.48		2.64		KF 50	PL 15	QZ 15	MF 20	AG	BI		ESTIMATE
BI GNSS	2.68		2.75		PL 23	QZ 27	MF 50	BI	OP	EP		ESTIMATE
BI GNSS	2.40		2.81		PL 28	QZ 19	MF 49	BI	OP	EP		ESTIMATE
BI GNSS	3.16		2.74		PL 28	QZ 29	MF 41	BI	OP	EP		ESTIMATE
BI GNSS	2.65		2.72		PL 29	QZ 25	MF 46	BI	OP	EP		ESTIMATE
BI GNSS	2.05		2.76		FL 40	QZ 15	MF 45	BI	OP			ESTIMATE
BI GNSS	2.62		2.70		FL 43	QZ 15	MF 42	BI	OP			ESTIMATE
BI GNSS	2.47		2.72		FL 34	QZ 18	MF 48	BI	OP	EP		ESTIMATE
BI GNSS	3.26		2.67		FL 22	QZ 35	MF 43	BI	OP			ESTIMATE
BI GNSS	3.12		2.72		FL 22	QZ 31	MF 44	BI	OP	CB		ESTIMATE
BI GNSS	3.11		2.70		FL 25	QZ 30	MF 45	BI	OP	EP		ESTIMATE
BI GNSS	3.05		2.72		FL 35	QZ 25	MF 40	BI	OP			ESTIMATE
BI GNSS	2.78		2.78		FL 28	QZ 20	MF 52	BI	OP			ESTIMATE
BI GNSS	2.50		2.73		FL 32	QZ 15	MF 53	BI	OP	EP		ESTIMATE
QZ GNSS	3.78		2.66		QZ 35	FL 25	MF 40	BI	OP			ESTIMATE
FL GNSS	2.31		2.75		FL 45	QZ 12	MF 43	BI	OP	EP		ESTIMATE
FL GNSS	2.70		2.69		FL 40	QZ 23	MF 37	BI	OP			ESTIMATE
BI GNSS	2.80		2.71		FL 42	QZ 12	MF 46	BI	EP	OP		ESTIMATE
BI GNSS	2.83		2.71		FL 35	QZ 20	MF 45	BI	OP	CB		ESTIMATE
FL GNSS	4.20		2.62		FL 48	QZ 50	MF 2		OP			ESTIMATE
BI GNSS	2.83		2.72		FL 35	QZ 22	MF 43	BI	EP	OP		ESTIMATE
FL GNSS	2.74		2.78		FL 35	QZ 20	MF 45	BI	EP	OP		ESTIMATE
FL GNSS	2.95		2.66		FL 30	QZ 25	MF 45	BI	EP	OP		ESTIMATE
FL GNSS	2.23		2.77		FL 48	QZ 16	MF 36	BI	OP	OP		ESTIMATE
BI GNSS	2.74		2.72		FL 40	QZ 20	MF 40	BI	OP			ESTIMATE
BI GNSS	2.15		2.80	.002	BI 65	FL 35						ESTIMATE
BI GNSS	2.33		2.79	.005	BI 65	FL 35						ESTIMATE
FL GNSS	2.53		2.71	.005	FL 55	QZ 20	MF 25		BI	OP		ESTIMATE
FL GNSS	2.96		2.67	.004	FL 50	QZ 25	MF 25		BI	HB	OP	ESTIMATE
FL GNSS	3.30		2.72	.005	FL 45	QZ 30	MF 25		BI	HB	OP	ESTIMATE
FL GNSS	2.95		2.66	.004	FL 50	QZ 25	MF 25		BI			ESTIMATE
FL GNSS	2.86		2.74	.004	FL 45	QZ 25	MF 30		BI	HB		ESTIMATE
FL GNSS	2.99		2.67	.003	FL 50	QZ 25	MF 25		BI	HB	OP	ESTIMATE
FL GNSS	2.17		2.70	.003	FL 55	QZ 20	MF 25		BI	OP		ESTIMATE
FL GNSS	2.76		2.66	.003	FL 50	QZ 25	MF 25		BI	OP		ESTIMATE
FL GNSS	2.99		2.66	.003	FL 50	QZ 25	MF 25		BI	HB	OP	ESTIMATE
FL GNSS	2.91		2.69	.003	FL 45	QZ 25	MF 30		HB	BI	OP	ESTIMATE
FL GNSS	2.75		2.75	.003	FL 45	QZ 20	MF 35		HB	BI	OP	ESTIMATE
FL GNSS	2.26		2.71	.004	FL 55	QZ 20	MF 25		BI	HB	OP	ESTIMATE

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ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT								METHOD		
GRNDIORIT	3.18	1.21	2.63	.003	QZ	36	FL	46	KF	15	BI	02	MU	01	POINT COUNT
GRNDIORIT	3.33	1.91	2.64	.003	QZ	40	FL	41	KF	16	BI	03			POINT COUNT
GRNDIORIT	3.84	1.43	2.63	.001	QZ	33	PL	54	KF	09	BI	03	OP	01	POINT COUNT
GRNDIORIT	3.71	1.27	2.62	.005	QZ	36	PL	40	KF	20	BI	03	MF	01	POINT COUNT
GRNDIORIT		1.49			QZ	33	PL	41	KF	22	BI	03			POINT COUNT

	Mean	S.D.	Number
Conductivity (W/mK)	3.01	0.45	345
Diffusivity (mm ² /s)	1.22	0.25	59
Density (Mg/m ³)	2.67	0.06	301
Porosity	0.004	0.002	248

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ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT							METHOD	
FL GNSS	2.55		2.75	.004	FL 45	QZ 15	MF 40		HB	BI	OP		ESTIMATE
FL GNSS	2.80		2.70	.004	FL 50	QZ 25	MF 25		BI	HB			ESTIMATE
FL GNSS	2.94		2.77	.004	FL 40	QZ 25	MF 35		BI	HB	OP		ESTIMATE
FL GNSS	2.95		2.72	.004	FL 45	QZ 25	MF 30		BI	HB	EP		ESTIMATE
FL GNSS	2.86		2.72	.004	FL 50	QZ 25	MF 25		BI	HB	OP		ESTIMATE
FL GNSS	2.86		2.71	.004	FL 50	QZ 25	MF 25		BI	HB			ESTIMATE
FL GNSS	2.93		2.71	.004	FL 50	QZ 25	MF 25		BI	HB	OP		ESTIMATE
FL GNSS	2.56		2.75	.004	FL 55	QZ 20	MF 25		BI	HB			ESTIMATE
FL GNSS	2.81		2.78	.005	FL 40	QZ 20	MF 40		BI	HB	OP		ESTIMATE
FL GNSS	2.84		2.75	.004	FL 50	QZ 25	MF 25		BI	HB			ESTIMATE
FL GNSS	2.84		2.66	.004	FL 55	QZ 25	MF 20		BI	HB			ESTIMATE
FL GNSS	1.99		2.78	.006	FL 65	QZ 10	MF 25		HB	BI	OP		ESTIMATE
FL GNSS	2.62		2.72	.004	FL 55	QZ 20	MF 25		HB	BI			ESTIMATE
FL GNSS	3.02		2.66	.005	FL 50	QZ 30	MF 20		BI	OP			ESTIMATE
FL GNSS	2.57		2.71	.004	FL 50	QZ 15	MF 35		BI	HB	OP		ESTIMATE
FL GNSS	2.86		2.74	.005	FL 50	QZ 15	MF 35		HB	BI	OP	SF	ESTIMATE
FL GNSS	2.34		2.66	.004	FL 65	QZ 15	MF 20		BI	OP			ESTIMATE
FL GNSS	2.93		2.70	.003	FL 45	QZ 15	MF 40		BI	HB	OP		ESTIMATE
QZ GNSS	3.55		2.68	.004	KF 15	PL 20	QZ 40	MF 15	BI	HB			ESTIMATE
QZ GNSS	3.33		2.62	.004	KF 20	PL 15	QZ 35	MF 30	BI	HB	OP		ESTIMATE
FL GNSS	2.84		2.76	.004	FL 60	QZ 15	MF 25		BI	OP			ESTIMATE
FL GNSS	2.59		2.80	.003	FL 65	QZ 10	MF 25		BI	OP			ESTIMATE
QZ GNSS	3.23		2.68	.002	KF 20	PL 20	QZ 40	MF 20	BI	OP			ESTIMATE
FL GNSS	2.68		2.78	.004	FL 50	QZ 15	MF 35		BI	OP			ESTIMATE
QZ GNSS	3.00		2.67	.003	FL 45	QZ 35	MF 20		BI	OP			ESTIMATE
FL GNSS	2.73		2.77	.004	FL 60	QZ 20	MF 20		BI	OP			ESTIMATE
FL GNSS	2.67		2.76	.003	FL 50	QZ 20	MF 30		BI	HB	OP		ESTIMATE
FL HB GNSS	2.36		2.84	.002	PL 25	KF 20	QZ 5	MF 50	HB	BI			ESTIMATE
QZ GNSS	3.57		2.65	.004	KF 25	PL 30	QZ 35	MF 10	BI	OP			ESTIMATE
FL GNSS	2.63		2.78	.005	FL 45	QZ 15	MF 40		HB	BI	OP		ESTIMATE
FL GNSS	2.95		2.67	.002	FL 60	QZ 25	MF 15		BI	OP	EP		ESTIMATE
FL GNSS	2.07				KF 40	PL 10	QZ 5	MF 45	HB	BI	OP		ESTIMATE
QZ BI GNSS	3.12		2.81	.004	QZ 25	FL 45	MF 30		BI	GT	OP	HB	ESTIMATE
FL GNSS	2.65		2.65	.004	QZ 20	FL 70	MF 10		BI	OP			ESTIMATE
QZ BI GNSS	3.13		2.70	.003	QZ 25	FL 60	MF 15		BI	OP			ESTIMATE
QZ FL GNSS	3.49		2.68	.002	QZ 25	FL 30	MF 45		BI	GT	OP		ESTIMATE
QZ FL GNSS	3.68		2.76	.002	QZ 35	FL 25	MF 40		BI	GT	OP		ESTIMATE
QZ FL GNSS	3.81		2.70	.003	QZ 35	FL 25	MF 35		BI	GT	OP		ESTIMATE
QZ BI GNSS	3.00		2.68	.002	QZ 25	FL 35	MF 40		BI	OP			ESTIMATE
FL BI GNSS	2.72		2.71	.002	QZ 20	FL 40	MF 40		BI	OP			ESTIMATE
QZ GNSS	2.87		2.74	.001	QZ 25	FL 40	MF 35		GT	BI	OP		ESTIMATE
FL GNSS	2.25		2.68	.001	QZ 15	FL 50	MF 35		BI	OP			ESTIMATE
FL GNSS	5.73		2.64	.003	QZ 20	FL 30	MF 50		HB	BI	SL		ESTIMATE
FL GNSS	1.93		2.73	.003	QZ 5	FL 65	MF 30		BI	GT			ESTIMATE
FL GNSS	2.44		2.69	.001	QZ 15	FL 60	MF 20		BI	OP			ESTIMATE
QZ GNSS	4.38		2.67	.002	QZ 35	FL 45	MF 20		BI	GT	SL		ESTIMATE
QZ FL GNSS	3.39		2.76	.003	QZ 30	KF 35	PL 20	MF 15	EP	MU	BI		ESTIMATE
QZ FL GNSS	4.99		2.71	.004	QZ 40	FL 50	MF 10		GT	MU	BI		ESTIMATE
QZ FL GNSS	4.27		2.66	.004	QZ 30	FL 55	MF 15		BI	GT	SL		ESTIMATE
QZ BI GNSS	4.28		2.63	.003	QZ 30	FL 40	MF 30		BI	SL			ESTIMATE

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ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT												METHOD
BI GR GNSS	2.97		2.88	.003	GT 40	QZ 38	BI 13	PL 06	OP 03								POINT COUNT
QZ BI GNSS	1.96		2.83	.002	BI 25	QZ 60					HB	FL					ESTIMATE
QZ BI GNSS	2.60		2.84	.003	BI 35	QZ 30	FL 35										ESTIMATE
QZ HB GNSS	1.94		2.91	.002	HB 40	FL 35	QZ 25				BI						ESTIMATE
GRD GNSS	2.02		2.67	.003	PL 50	QZ 20	MI 15	BI 12	MU 03	EP	AP						ESTIMATE
QZ BI GNSS	3.69		2.73	.002	QZ 65	PL 24	BI 01			MU	GT	EP	OP				ESTIMATE
QZ BI GNSS	4.22		2.66	.003	FL 50	QZ 35	BI 15										ESTIMATE
QZ BI GNSS	4.05		2.69	.002	FL 50	QZ 30	BI 20										ESTIMATE
BI SI GNSS	5.09		2.74	.003	QZ 63	BI 26	SI 10	MU 02		OP							POINT COUNT
QZ BI GNSS	3.01		2.66	.005	QZ 25	PL 50	BI 25			MU							ESTIMATE
QZ BI GNSS	2.92		2.62	.003	FL 50	QZ 40	BI 10										ESTIMATE
BI GR GNSS	3.46		2.76	.002	FL 32	QZ 40	BI 20	GT 08									ESTIMATE
BI GR GNSS	3.63		2.77	.002	FL 32	QZ 40	BI 25	GT 03									ESTIMATE
BI GR GNSS	3.02		2.74	.002	FL 32	QZ 40	BI 25	GT 03									ESTIMATE
QZ FL GNSS	3.03		2.66	.006	KF 35	PL 25	QZ 25	MF 15		BI	EP	OP					ESTIMATE
QZ FL GNSS	3.72		2.55	.026	KF 52	PL 10	QZ 38	MF 5		QZ	BI						ESTIMATE
QZ FL GNSS	3.22		2.65	.004	FL 45	PL 10	QZ 30	MF 30		BI	EP	CL	OP				ESTIMATE
QZ FL GNSS	3.19		2.64	.004	KF 35	PL 25	QZ 30	MF 10		BI	OP						ESTIMATE
BI GNSS	2.77		2.77	.004	QZ 20	KF 20	PL 20	MF 40		BI	HB	GT	OP				ESTIMATE
FL GNSS	2.93		2.69	.003	QZ 25	KF 40	PL 10	MF 25		BI	HB	OP					ESTIMATE
FL GNSS	3.66		2.62	.003	QZ 30	KF 20	PL 35	MF 15		BI	GT	OP					ESTIMATE
GT GNSS	2.43		2.83	.006	QZ 04	KF 17	PL 28	BI 29	CP 10	GT 09	OP 02	HB 01					POINT COUNT
BI GNSS	2.40		2.80	.005	QZ 10	KF 15	PL 25	MF 50		BI	GT	OP					ESTIMATE
GT GNSS	2.47		2.79	.004	QZ 08	KF 19	PL 31	BI 23	GT 09	CL 09	OP 01						POINT COUNT
BI GNSS	2.49		2.79	.005	QZ 10	KF 10	PL 30	MF 50		BI	GT	OP					ESTIMATE
BI GNSS	2.38		2.76	.010	QZ 10	KF 10	PL 30	MF 50		GT	BI	AC	CL				ESTIMATE
GT GNSS	2.56		2.85	.007	QZ 06	KF 39	PL 08	HB 15	GT 23	CL 06	OP 03						POINT COUNT
GT GNSS	2.58		2.84	.005	QZ 05	KF 35	PL 15	MF 45		GT	HB	OP					ESTIMATE
FL GNSS	3.67		2.69	.003	QZ 28	KF 48	PL 10	HB 07	GT 04	CL 03							POINT COUNT
FL GNSS	2.43		2.64	.003	QZ 10	KF 20	PL 35	MF 35		HB	BI	OP					ESTIMATE
FL GNSS	2.49		2.70	.002	QZ 10	KF 15	PL 40	MF 35		HB	GT	BI					ESTIMATE
FL GNSS	2.56		2.70	.004	QZ 10	KF 25	PL 35	MF 30		HB	GT	OP					ESTIMATE
FL GNSS	2.65		2.69	.005	QZ 10	KF 25	PL 35	MF 30		HB	GT	OP					ESTIMATE
FL GNSS	2.95		2.78	.002	QZ 20	KF 45	PL 15	GT 12	CP 04	OP 02	HB 01	MF 01					POINT COUNT
FL GNSS	2.72		2.79	.005	QZ 09	KF 52	PL 07	BI 02	CL 18	GT 10	OP 02						POINT COUNT
FL GNSS	2.54		2.87	.003	QZ 10	KF 25	PL 35	MF 30		GT	HB	OP					ESTIMATE
FL GT GNSS	2.50		2.78	.005	QZ 09	KF 39	PL 16	CL 17	GT 17	OP 02							POINT COUNT
FL GT GNSS	2.50		2.80	.005	QZ 06	KF 36	PL 24	GT 18	CL 15	OP 01							POINT COUNT
FL GT GNSS	2.47		2.80	.007	QZ 04	KF 43	PL 19	CL 17	GT 16	OP 01							POINT COUNT
FL GT GNSS	2.51		2.83	.006	QZ 03	KF 47	PL 17	GT 16	CL 15	OP 01	MF 01						POINT COUNT
FL GT GNSS	2.43		2.84	.006	QZ 02	KF 44	PL 20	GT 19	CL 10	HB 03	OP 01	MF 01					POINT COUNT
FL GT GNSS	2.43		2.82	.004	QZ 04	KF 40	PL 20	HB 09	GT 15	CL 10	OP 01	MF 01					POINT COUNT
FL GT GNSS	2.46		2.83	.009	QZ 11	KF 35	PL 20	GT 19	CL 14	OP 01							POINT COUNT
FL GT GNSS	2.52		2.75	.026	QZ 02	KF 29	PL 27	CL 21	GT 19	BI 01	OP 01						POINT COUNT
FL GNSS	2.46		2.76	.009	QZ 09	KF 23	PL 30	GT 21	CL 15	OP 02							POINT COUNT
FL GT GNSS	2.69		2.81	.009	QZ 05	KF 31	PL 21	GT 23	CL 17	OP 02	MF 01						POINT COUNT
FL GNSS	2.24		2.74	.006	QZ 03	KF 34	PL 29	CL 13	GT 08	HB 06	BI 02	OP 04	MF 01				POINT COUNT
FL GT GNSS	2.65		2.79	.009	QZ 09	KF 32	PL 20	CL 21	GT 16	OP 01	MF 01						POINT COUNT
FL GNSS	2.54		2.86	.007	QZ 09	KF 36	PL 26	HB 14	GT 11	BI 01	OP 02	MF 01					POINT COUNT
FL GNSS	2.50		2.85	.006	QZ 03	KF 38	PL 27	HB 11	GT 14	CL 05	OP 02						POINT COUNT

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ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT										METHOD
FL GNSS	2.59		2.79	.004	QZ 10	KF 30	PL 30	MF 30		GT	AC	CL	OP	ESTIMATE	
FL GT GNSS	2.50		2.82	.005	QZ 07	KF 36	PL 25	GT 19	CL 07	OP 03	MF 03			POINT COUNT	
FL GT GNSS	2.56		2.82	.005	QZ 06	KF 33	PL 23	CL 22	GT 14	OP 01	MF 01			POINT COUNT	
FL GT GNSS	2.69		2.81	.004	QZ 11	KF 33	PL 25	GT 18	CL 09	OP 04				POINT COUNT	
FL GNSS	2.67		2.74	.013	QZ 07	KF 28	PL 21	CL 21	GT 20	BI 01	OP 01	MF 01		POINT COUNT	
FL GNSS	3.31		2.78	.003	QZ 17	KF 18	PL 26	GT 25	CP 08	HB 02	CL 02	OP 02		POINT COUNT	
FL GT GNSS	2.61		2.78	.002	QZ 11	KF 33	PL 28	GT 14	CP 09	HB 02	OP 03			POINT COUNT	
FL GT GNSS	2.74		2.82	.003	QZ 16	KF 44	PL 07	GT 14	CP 11	HB 02	CL 02	BI 01	OP 03	POINT COUNT	
FL GNSS	2.74		2.74	.001	QZ 15	KF 30	PL 25	MF 30	GT	AC	CL	OP		ESTIMATE	
FL GNSS	2.55		2.68	.003	QZ 10	KF 45	PL 10	MF 35		GT	CP	HB	OP	ESTIMATE	
FL GNSS	2.77		2.77	.003	QZ 23	KF 21	PL 30	BI 14	GT 06	HB 03	CL 01	OP 01	CP 01	POINT COUNT	
FL GNSS	2.63		2.70	.004	QZ 13	KF 28	PL 31	BI 14	GT 08	HB 04	OP 01	MF 01		POINT COUNT	
FL GNSS	3.47		2.70	.002	QZ 03	KF 59	PL 07	BI 01	CP 12	HB 11	OP 03	MF 04		POINT COUNT	
BI GNSS	3.15		2.73	.003	QZ 24	KF 20	PL 16	BI 25	HB 08	OP 07				POINT COUNT	
BI GNSS	2.44		2.77	.003	QZ 14	KF 24	PL 28	BI 21	CP 07	HB 05	OP 01			POINT COUNT	
BI GNSS	2.57		2.70	.007	QZ 13	KF 22	PL 20	BI 32	GT 07	CL 04	CP 01	OP 01		POINT COUNT	
FL GNSS	2.86		2.68	.003	QZ 18	KF 26	PL 24	BI 22	HB 06	GT 02	OP 01	MF 01		POINT COUNT	
FL GNSS	2.94		2.73	.002	QZ 20	KF 17	PL 36	BI 07	GT 08	CL 08	OP 03	HB 01		POINT COUNT	
FL GNSS	2.70		2.53	.004	QZ 20	KF 15	PL 42	GT 12	BI 06	CL 05				POINT COUNT	
FL GNSS	2.84		2.68	.007	QZ 20	KF 30	PL 20	MF 30		BI	GT	OP		ESTIMATE	
FL GNSS	2.67		2.71	.003	QZ 15	KF 30	PL 25	MF 30		BI	GT	HB		ESTIMATE	
FL GNSS	3.11		2.68	.005	QZ 25	KF 20	PL 30	MF 25		BI	GT	HB		ESTIMATE	
FL GNSS	2.90		2.74	.002	QZ 20	KF 20	PL 30	MF 30		BI	GT	OP		ESTIMATE	
FL GNSS	2.73		2.75	.003	QZ 20	KF 20	PL 30	MF 30		BI	GT	OP		ESTIMATE	
FL GNSS	2.99		2.76	.002	QZ 22	KF 12	PL 39	GT 15	BI 06	CL 04	OP 02			POINT COUNT	
FL GNSS	2.50		2.75	.003	QZ 11	KF 21	PL 46	BI 10	GT 08	CL 02	HB 01	MF 01		POINT COUNT	
BI GNSS	2.80		2.72	.002	QZ 25	KF 18	PL 23	BI 21	GT 11	OP 01	MF 01			POINT COUNT	
BI GNSS	3.21		2.74	.002	QZ 21	KF 19	PL 19	BI 35	GT 04	OP 02				POINT COUNT	
FL GNSS	2.65		2.73	.002	QZ 09	KF 22	PL 36	BI 18	GT 14	OP 01				POINT COUNT	
FL GNSS	2.82		2.72	.002	QZ 13	KF 23	PL 36	BI 14	GT 08	CL 04	OP 01			POINT COUNT	
FL GNSS	2.42		2.76	.002	QZ 08	KF 22	PL 31	BI 14	GT 12	HB 08	CP 02	OP 01	MF 02	POINT COUNT	
FL GNSS	3.22		2.67	.002	QZ 30	KF 20	PL 30	MF 20		BI	GT	OP		ESTIMATE	
QZ MZ GNSS	2.62	.87	2.72	.003	QZ 12	KF 30	PL 28	HB 11	GT 09	BI 05	CL 03	OP 02		POINT COUNT	
FL GT GNSS	3.09	.65	3.10	.001	QZ 04	KF 19	PL 30	HB 08	GT 18	CP 07	HY 12	OP 02		POINT COUNT	
QZ MZ GNSS	2.18		2.75	.002	QZ 08	KF 33	PL 28	BI 02	HB 17	GT 10	OP 02			POINT COUNT	
QZ MZ GNSS	2.03	.83	2.75	.002	QZ 06	KF 37	PL 31	HB 10	CP 04	GT 09	OP 01			POINT COUNT	
QZ MZ GNSS	2.12	.89	2.75	.003	QZ 03	KF 33	PL 22	HB 14	CP 10	GT 14	OP 03	MF 01		POINT COUNT	
PX GR GNSS	2.10	.82	2.82	.004	QZ 15	KF 27	PL 15	BI 22	CP 09	GT 09	CL 02	OP 01		POINT COUNT	
FL HB GNSS	2.12	.79	2.79	.002	QZ 04	KF 11	PL 62	BI 03	HB 13	GT 04	OP 01	MF 02		POINT COUNT	
FL GNSS	2.33	.82	2.72	.004	QZ 12	KF 32	PL 45	BI 01	HB 05	GT 03	OP 01	MF 01		POINT COUNT	
FL GNSS	2.57	.98	2.77	.001	QZ 19	KF 19	PL 46	BI 07	HB 02	GT 04	CP 02	MF 01		POINT COUNT	
FL BI GNSS	2.30	.86	2.92	.003	QZ 12	KF 09	PL 46	BI 18	GT 08	CP 06	MF 01			POINT COUNT	
FL GNSS	2.00	.88	2.75	.002	QZ 05	KF 35	PL 42	BI 03	HB 09	GT 05	MF 01			POINT COUNT	
FL GT GNSS	2.09	.73	2.89	.003	QZ 01	KF 25	PL 47	GT 11	CP 08	HB 05	OP 02	AP 01		POINT COUNT	
QZ MZ GNSS	2.35	1.12	2.75	.003	QZ 09	KF 26	PL 49	HB 09	GT 03	BI 02	CL 01	MF 01		POINT COUNT	
FL HB GNSS	2.63	1.12	2.73	.003	QZ 13	KF 20	PL 47	HB 13	GT 03	BI 02	OP 01	AP 01		POINT COUNT	
FL GNSS	2.54	.86	2.73	.003	QZ 16	KF 20	PL 53	GT 04	BI 03	CP 02	CL 01	OP 01		POINT COUNT	
FL GNSS	2.10	.81	2.75	.004	QZ 05	KF 23	PL 55	BI 08	HB 06	GT 02	MF 01			POINT COUNT	
FL GT GNSS	2.15	.74	2.77	.004	QZ 02	KF 48	PL 33	GT 09	CP 03	HB 02	OP 02	MF 01		POINT COUNT	
QZ MZ GNSS	2.43	.70	2.70	.004	QZ 15	KF 35	PL 42	GT 03	HB 01	CP 01	CL 01	MF 02		POINT COUNT	

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ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT										METHOD
QZ MZ GNSS	2.24	1.18	2.78	.003	QZ 04	KF 22	PL 55	CL 07	GT 06	CP 03	OP 02	BI 01			POINT COUNT
FL GT GNSS	2.53	.96	2.90	.002	QZ 05	PL 50	CL 20	CP 11	GT 08	OP 04	EP 01	AP 01			POINT COUNT
QZ MZ GNSS	2.22	.66	2.80	.002	QZ 08	KF 12	PL 57	BI 12	CP 06	GT 04	AP 01				POINT COUNT
QZ MZ GNSS	2.25	.88	2.83	.004	QZ 04	KF 41	PL 33	HB 08	GT 08	CL 04	OP 01	MF 01			POINT COUNT
QZ MZ GNSS	2.32		2.77	.004	QZ 06	KF 42	PL 33	HB 09	GT 06	BI 01	OP 01	CP 01	MF 01		POINT COUNT

	Mean	S.D.	Number
Conductivity (W/mK)	2.87	0.57	254
Diffusivity (mm ² /s)	0.86	0.14	21
Density (Mg/m ³)	2.73	0.07	253
Porosity	0.004	0.003	220

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ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT										METHOD	
BI SCHIST	1.75		2.76		PL 45	QZ 20	MF 35	BI	EP							ESTIMATE
BI SCHIST	1.86		2.73		PL 38	QZ 25	MF 37	BI	EP	OP						POINT COUNT
BI SCHIST	2.10		2.71		PL 45	QZ 15	MF 40			BI	EP	OP				ESTIMATE
BI SCHIST	2.24		2.74		PL 45	QZ 20	MF 35			BI	EP	OP				ESTIMATE
BI SCHIST	2.20		2.72		PL 50	QZ 20	MF 30			BI	EP	CL				ESTIMATE
BI SCHIST	2.24		2.71		PL 53	QZ 16	MF 31			BI	EP	CL	OP			POINT COUNT
BI SCHIST	2.13		2.72		PL 45	QZ 15	MF 40			BI	EP	CL				ESTIMATE
BI SCHIST	1.93		2.71		PL 45	QZ 15	MF 60			BI	EP	CL	OP			ESTIMATE
BI SCHIST	2.20		2.72		PL 50	QZ 15	MF 25			BI	CL	EP				ESTIMATE
BI SCHIST	1.77		2.73		PL 50	QZ 15	MF 35			BI	EP	CL				ESTIMATE
BI SCHIST	1.68		2.73		PL 50	QZ 15	MF 35			BI	EP	CL				ESTIMATE
BI SCHIST	2.21		2.72		PL 45	QZ 15	MF 40			BI	EP	CL				ESTIMATE
BI SCHIST	2.00		2.74		PL 50	QZ 15	MF 35			BI	CL	EP				ESTIMATE
BI SCHIST	1.94		2.74		PL 45	QZ 15	MF 40			BI	CL	EP	OP			ESTIMATE
BI SCHIST	2.36		2.72		PL 50	QZ 20	MF 30			BI	EP	OP	CL			ESTIMATE
AC SCHIST	2.29		2.72		PL 50	QZ 20	MF 30			AC	CL	EP	OP			POINT COUNT
BI SCHIST	1.99		2.73		PL 50	QZ 15	MF 35			BI	AC	CL	OP			ESTIMATE
BI SCHIST	2.24		2.74		PL 45	QZ 15	MF 40			BI	EP	CL				ESTIMATE
BI SCHIST	2.53		2.70		PL 45	QZ 20	MF 35			BI	EP	CL	CB			ESTIMATE
BI SCHIST	2.11		2.72		PL 45	QZ 20	MF 35			BI	EP	CL	OP			ESTIMATE
BI SCHIST	2.15		2.74		PL 50	QZ 18	MF 32			BI	EP	CL				ESTIMATE
BI SCHIST	2.30		2.75		PL 55	QZ 20	MF 25			BI	OP	EP				ESTIMATE
BI SCHIST	2.60		2.70		PL 45	QZ 20	MF 35			BI	EP	OP				ESTIMATE
BI SCHIST	2.31		2.77		PL 50	QZ 20	MF 30			BI	OP	EP				ESTIMATE
BI SCHIST	2.33		2.74		PL 45	QZ 15	MF 40			BI	CL	EP				ESTIMATE
BI SCHIST	2.11		2.73		PL 40	QZ 15	MF 45			BI	CL	EP				ESTIMATE
BI SCHIST	2.32		2.73		PL 45	QZ 15	MF 40			BI	EP	CL				ESTIMATE
BI SCHIST	2.82		2.73		PL 40	QZ 25	MF 25			BI	EP	CL				ESTIMATE
BI SCHIST	1.75		2.74		PL 44	QZ 14	MF 42			BI	OP					POINT COUNT
BI SCHIST	2.05		2.75		PL 50	QZ 18	MF 32			BI	EP	CL				ESTIMATE
BI SCHIST	2.66		2.73		PL 40	KF 10	QZ 25	MF 25		BI	EP					ESTIMATE
BI SCHIST	2.23		2.74		PL 41	QZ 18	MF 41			BI	CL	CM	EP			POINT COUNT
BI SCHIST	2.81		2.73		PL 45	QZ 25	MF 30			BI	CL	OP				ESTIMATE
BI SCHIST	2.08		2.74		PL 45	QZ 15	MF 40			BI	EP	OP				ESTIMATE
BI SCHIST	1.89		2.76		PL 50	QZ 15	MF 35			BI	EP	CL				ESTIMATE
BI SCHIST	2.38		2.76		PL 45	QZ 18	MF 37			BI	CL	EP				ESTIMATE
BI SCHIST	2.20		2.77		PL 37	QZ 22	MF 41			BI	CM	AC	EP			POINT COUNT
BI SCHIST	2.09		2.76		PL 40	QZ 20	MF 40			BI	CM	AC	EP			ESTIMATE
BI SCHIST	2.07		2.74		PL 50	QZ 18	MF 32			BI	EP	OP				ESTIMATE
BI SCHIST	2.44		2.72		PL 53	KF 5	QZ 25	MF 17		BI	CL	OP				POINT COUNT
BI SCHIST	2.40		2.72		PL 50	QZ 20	MF 30			BI	CL	OP				ESTIMATE
BI SCHIST	2.15		2.69		PL 50	QZ 15	MF 35			BI	EP	CL				ESTIMATE
BI SCHIST	2.38		2.72		PL 45	QZ 20	MF 45			BI	EP	CL				ESTIMATE
BI SCHIST	2.59		2.60		PL 45	KF 8	QZ 25	MF 22		BI	CL	EP				ESTIMATE
BI SCHIST	2.78		2.68		PL 45	QZ 25	MF 30			BI	CL					ESTIMATE
BI SCHIST	3.41		2.68		PL 45	QZ 25	MF 30			BI	CL	PY				ESTIMATE
BI SCHIST	2.50		2.68		PL 55	QZ 20	MF 25			BI	EP	CL				ESTIMATE
BI SCHIST	4.11		2.66		PL 50	QZ 35	MF 15			BI	EP	CL				ESTIMATE
BI SCHIST	3.53		2.65		PL 50	QZ 35	MF 15			BI	OP					ESTIMATE

DATA FOR SCHIST - PAGE 2

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT										METHOD	
BI SCHIST	2.77		2.70		PL 45	QZ 20	MF 35				BI	CL	OP			ESTIMATE
BI SCHIST	3.17		2.69		PL 55	QZ 25	MF 20				BI	CL	PY			ESTIMATE
BI SCHIST	3.56		2.77		PL 50	QZ 30	MF 30				BI	CL	OP			ESTIMATE
BI SCHIST	3.03		2.69		PL 50	QZ 25	MF 25				BI	CL	EP			ESTIMATE
BI SCHIST	2.96		2.73		PL 24	QZ 28	MF 48	BI			OP	EP				POINT COUNT
BI SCHIST	3.02		2.71		PL 22	QZ 33	MF 45	BI			OP	EP				ESTIMATE
BI SCHIST	2.52		2.75		PL 25	QZ 30	MF 45	BI			OP	EP				POINT COUNT
BI SCHIST	3.07		2.72		PL 22	QZ 32	MF 46	BI			OP	EP				ESTIMATE
BI SCHIST	2.62		2.75		PL 29	QZ 20	MF 51	BI			OP	EP				ESTIMATE
BI SCHIST	2.37		2.86		FL 10	QZ 18	MU 23	MF 49			BI	EP	OP	SI		POINT COUNT
BI SCHIST	2.68		2.73		FL 45	QZ 20	MF 35	BI			OP	CB				ESTIMATE
BI SCHIST	3.04		2.70		FL 35	QZ 25	MF 40	BI			EP	MU				ESTIMATE
BI SCHIST	2.90		2.66		FL 36	QZ 26	MF 38	BI			OP	EP	CB			ESTIMATE
BI SCHIST	2.87		2.70		FL 50	QZ 10	MF 40	BI			OP	EP				ESTIMATE
BI SCHIST	2.86		2.70		FL 36	QZ 28	MF 36	BI			OP	EP	CB			ESTIMATE
BI SCHIST	2.98		2.73		FL 25	QZ 30	MF 45	BI			OP	CB				ESTIMATE
BI SCHIST	3.04		2.72		FL 34	QZ 26	MF 40	BI			OP	CB				ESTIMATE
BI SCHIST	3.21		2.73		FL 35	QZ 26	MF 39	BI			OP					ESTIMATE
BI SCHIST	2.84		2.73		FL 40	QZ 18	MF 42	BI			EP	CB				ESTIMATE
BI SCHIST	3.14		2.72		PL 38	QZ 29	MF 33	BI			OP	EP	MU			POINT COUNT
BI SCHIST	2.79		2.72		FL 42	QZ 17	MF 41	BI			OP	EP				ESTIMATE
BI SCHIST	3.06		2.73		FL 39	QZ 25	MF 36				OP	CB				ESTIMATE
BI SCHIST	2.58		2.74		FL 40	QZ 20	MF 40	BI			EP	CB	OP			ESTIMATE
BI SCHIST	3.13		2.74		FL 37	QZ 24	MF 39	BI			OP	CB				POINT COUNT
BI SCHIST	2.91		2.73		PL 38	QZ 24	MF 40	BI			OP	EP				ESTIMATE
BI SCHIST	3.21		2.71		PL 25	QZ 30	MF 45	BI			EP	OP				ESTIMATE
BI SCHIST	2.54		2.71		FL 35	QZ 20	MF 45	BI			EP	OP	CB			ESTIMATE
BI SCHIST	2.79		2.74		FL 38	QZ 20	MF 42	BI			EP					ESTIMATE
BI SCHIST	2.96		2.71		FL 32	QZ 26	MF 41	BI			OP	CB				ESTIMATE
BI SCHIST	2.23		2.72		FL 50	QZ 10	MF 40	BI			OP	EP				ESTIMATE
BI SCHIST	2.97		2.74		PL 25	QZ 31	MF 44	BI			OP	EP				POINT COUNT
BI SCHIST	3.07		2.71		FL 35	QZ 25	MF 40	BI			OP	EP	CB			ESTIMATE
CL SCHIST	7.65		2.90	.004	FL 10	MU 45	MF 45				CL	OP				POINT COUNT
GT SCHIST	3.82		2.76	.002	QZ 20	FL 20	MF 60				GT	BI	OP			ESTIMATE
BI SCHIST	3.18		2.70	.005	QZ 10	FL 30	MF 60				BI	GT	OP			ESTIMATE
BI SCHIST	2.53		2.57	.011	QZ 20	FL 20	MF 60				BI	CD	GT			ESTIMATE
BI SCHIST	4.44		2.67	.003	QZ 30	FL 30	MF 40				BI	GT	SL			ESTIMATE
BI SCHIST	3.15		2.58	.003	QZ 20	FL 35	MF 45				BI	SL				ESTIMATE
BI SCHIST	3.67		2.58	.003	QZ 25	FL 30	MF 45				BI	GT	SL			ESTIMATE
BI SCHIST	1.84		2.75	.001	QZ 10	FL 30	MF 60				BI	HB	OP			ESTIMATE
GT SCHIST	3.40		2.78	.003	QZ 25	FL 30	MF 45				BI	GT	OP			ESTIMATE
BI SCHIST	4.12		2.70	.009	QZ 35	FL 30	MF 35				BI	OP				ESTIMATE
BI SCHIST	3.85		2.72	.002	QZ 20	FL 45	MF 35				BI	HB	OP			ESTIMATE
BI SCHIST	2.17		2.87	.001	QZ 20	FL 45	MF 35				BI	HB	OP			ESTIMATE
BI SCHIST	3.44		2.73	.002	QZ 30	FL 30	MF 40				BI	GT	OP			ESTIMATE
BI SCHIST	4.38		2.72	.002	QZ 35	FL 30	MF 35				BI	GT	OP			ESTIMATE
BI SCHIST	2.05		2.89	.003	QZ 10	FL 50	MF 40				BI	HB	OP			ESTIMATE
BI SCHIST	3.58		2.89	.001	QZ 20	FL 20	MF 60				GT	BI				ESTIMATE
BI SCHIST	3.39		3.09	.004	QZ 15	FL 15	MF 70				GT	BI	CD	OP		ESTIMATE
BI SCHIST	2.31		2.69	.004	QZ 15	FL 45	MF 40				BI	OP				ESTIMATE

DATA FOR SCHIST - PAGE 3

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT								METHOD	
BI SCHIST	2.04		2.70	.004	QZ 10	FL 45	MF 20			BI	OP			ESTIMATE
BI SCHIST	3.74		2.69	.003	QZ 30	FL 40	MF 30			BI	SL			ESTIMATE
BI SCHIST	2.78		2.68	.004	QZ 20	FL 45	MF 35			BI	OP			ESTIMATE
BI SCHIST	3.85		2.75	.003	QZ 30	FL 30	MF 40			GT	BI	OP		ESTIMATE
BI SCHIST	2.46		2.71	.015	QZ 10	KF 5	PL 40	MF 45		BI	AC	CL	GT	ESTIMATE
CL SCHIST	2.86		2.96	.001	QZ 15	FL 40	MF 45			CL	SL	EP		ESTIMATE
CL SCHIST	2.82		2.97	.005	QZ 10	FL 50	MF 40			CL	EP	SL		ESTIMATE

	Mean	S.D.	Number
Conductivity (W/mK)	2.73	0.78	106
Diffusivity (mm ² /s)	-	-	-
Density (Mg/m ³)	2.73	0.07	106
Porosity	0.004	0.003	25

DATA FOR SERPENTINITE - PAGE 1

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT				METHOD
SERPENT	3.05		2.74	.003	SR 70	MF 20	OP 05	CL 05	ESTIMATE
SERPENT	2.85		2.66	.008	SR 70	MF 20	OP 05	CL 05	ESTIMATE
SERPENT	3.05		2.75	.002	SR 85	MF 10	OP 05		ESTIMATE
SERPENT	2.93		2.79	.003	SR 70	MF 25	OP 05		ESTIMATE
SERPENT	2.44		2.76	.016	SR 90	OP 10			ESTIMATE
SERPENT	3.03		2.63	.017	SR 90	OP 05	MF 05		ESTIMATE
SERPENT	2.85		2.60	.008	SR 75	MF 15	OP 05	CL 05	ESTIMATE
SERPENT	3.42		2.71	.006	SR 75	MF 10	OP 10	CL 05	ESTIMATE
SERPENT	3.37		2.69	.010	SR 85	MF 10	OP 05		ESTIMATE
SERPENT	3.20		2.68	.009	SR 90	MF 05	OP 05		ESTIMATE
SERPENT	3.43		2.71	.008	SR 80	MF 15	OP 05		ESTIMATE
SERPENT	3.44		2.68	.009	SR 85	MF 10	OP 05		ESTIMATE
SERPENT	3.41		2.66	.011	SR 85	MF 10	OP 05		ESTIMATE
SERPENT	3.27		2.66	.011	SR 85	MF 10	OP 05		ESTIMATE
SERPENT	3.45		2.66	.009	SR 80	MF 15	OP 05		ESTIMATE
SERPENT	3.40		2.66	.011	SR 90	MF 05	OP 05		ESTIMATE
SERPENT	3.65		2.64	.008	SR 85	MF 10	OP 05		ESTIMATE
SERPENT	3.12		2.66	.012	SR 95	OP 05			ESTIMATE
SERPENT	3.48		2.63	.010	SR 85	MF 10	OP 05		ESTIMATE
SERPENT	3.38		2.66	.008	SR 90	MF 05	OP 05		ESTIMATE
SERPENT	3.52		2.61	.011	SR 85	MF 10	OP 05		ESTIMATE
SERPENT	3.73		2.63	.010	SR 85	MF 10	OP 05		ESTIMATE
SERPENT	3.69		2.62	.008	SR 90	MF 05	OP 05		ESTIMATE
SERPENT	4.00		2.63	.009	SR 90	MF 05	OP 05		ESTIMATE
SERPENT	3.67		2.56	.018	SR 90	MF 05	OP 05		ESTIMATE
SERPENT	3.52		2.55	.017	SR 85	MF 10	OP 05		ESTIMATE
SERPENT	3.65		2.57	.015	SR 85	MF 10	OP 05		ESTIMATE
SERPENT	3.70		2.59	.010	SR 90	MF 05	OP 05		ESTIMATE
SERPENT	3.47		2.58	.015	SR 95	OP 05			ESTIMATE
SERPENT	3.85		2.54	.014	SR 95	OP 05			ESTIMATE
SERPENT	4.23		2.56	.015	SR 95	OP 05			ESTIMATE
SERPENT	3.77		2.55	.015	SR 95	OP 05			ESTIMATE
SERPENT	3.94		2.59	.012	SR 95	OP 05			ESTIMATE
SERPENT	4.02		2.54	.015	SR 95	OP 05			ESTIMATE
SERPENT	3.86		2.57	.017	SR 95	OP 05			ESTIMATE
SERPENT	3.55		2.52	.022	SR 95	OP 05			ESTIMATE
SERPENT	3.90		2.54	.016	SR 95	OP 05			ESTIMATE
SERPENT	4.17		2.71	.027	SR 95	OP 05			ESTIMATE
SERPENT	3.46		2.50	.024	SR 95	OP 05			ESTIMATE
SERPENT	3.45		2.52	.019	SR 95	OP 05			ESTIMATE
SERPENT	3.36		2.49	.019	SR 95	OP 05			ESTIMATE
SERPENT	3.33		2.48	.024	SR 95	OP 05			ESTIMATE

DATA FOR SERPENTINITE - PAGE 2

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT		METHOD
SERPENT	3.29		2.50	.019	SR 95	OP 05	ESTIMATE
SERPENT	3.58		2.59	.028	SR 95	OP 05	ESTIMATE
SERPENT	3.50		2.51	.021	SR 95	OP 05	ESTIMATE
SERPENT	2.96		2.46	.028	SR 95	OP 05	ESTIMATE
SERPENT	3.09		2.57	.019	SR 95	OP 05	ESTIMATE
SERPENT	3.51		2.53	.019	SR 95	OP 05	ESTIMATE

	Mean	S.D.	Number
Conductivity (W/mK)	3.46	0.36	48
Diffusivity (mm ² /s)	-	-	-
Density (Mg/m ³)	2.62	0.08	48
Porosity	0.014	0.006	48

DATA FOR GABBRO - PAGE 1

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT						METHOD	
GABBRO	2.22				PL 40	MF 60		CP	HB	BI	OP	POINT COUNT
QGABBRO	2.84		2.83		FL 50	QZ 5	MF 45	CP	EP	AC	CL	ESTIMATE
QGABBRO	2.87		2.80		FL 50	QZ 15	MF 35	EP	CL	OP		ESTIMATE
QGABBRO	3.03		2.86		FL 50	QZ 20	MF 30	EP	CL	OP		ESTIMATE
QGABBRO	2.74		2.91		FL 54	QZ 9	MF 37	EP	AC	CL	OP	POINT COUNT
QGABBRO	2.79		2.93		FL 55	QZ 10	MF 35	AC	EP	OP	CL	ESTIMATE
QGABBRO	2.96		2.97		FL 55	QZ 5	MF 40	AC	EP	CL	SL	ESTIMATE
QGABBRO	2.83		2.94		FL 60	QZ 5	MF 35	AC	EP	CL	OP	ESTIMATE
QGABBRO	2.90		2.86		FL 65	QZ 10	MF 25	AC	EP	CL	OP	ESTIMATE
QGABBRO	2.47		2.82		FL 60	QZ 5	MF 35	AC	EP	CL	OP	ESTIMATE
QGABBRO	2.81		2.85		FL 60	QZ 10	MF 30	AC	EP	CL	OP	ESTIMATE
QGABBRO	2.76		2.90		FL 58	QZ 10	MF 32	AC	EP	CL	OP	POINT COUNT
QGABBRO	2.83		2.78		FL 50	QZ 10	MF 40	EP	AC	CL	OP	ESTIMATE
QGABBRO	3.43		2.95		PL 50	QZ 20	MF 30	AC	EP	OP		ESTIMATE
QGABBRO	3.43		2.96		PL 55	QZ 20	MF 25	AC	EP	OP		ESTIMATE
QGABBRO	3.54		2.90		PL 50	QZ 20	MF 25	AC	EP	OP		ESTIMATE
QGABBRO	4.09		2.81		PL 54	QZ 24	MF 22	AC	EP	BI	OP	POINT COUNT
QGABBRO	3.74		2.86		PL 45	QZ 25	MF 30	AC	EP	BI	OP	ESTIMATE
QGABBRO	3.49		2.83		PL 50	QZ 20	MF 30	AC	EP	OP		ESTIMATE
QGABBRO	3.55		2.82		PL 50	QZ 20	MF 30	AC	EP	OP		ESTIMATE
QGABBRO	3.36		2.83		PL 55	QZ 20	MF 25	AC	EP	OP		ESTIMATE
QGABBRO	3.64		2.84		PL 50	QZ 25	MF 25	AC	EP	OP	CL	ESTIMATE
QGABBRO	3.59		2.84		PL 50	QZ 25	MF 25	AC	EP	OP	CL	ESTIMATE
QGABBRO	3.39		2.82		PL 50	QZ 20	MF 30	AC	EP	CL	OP	ESTIMATE
QGABBRO	3.27		2.81		PL 52	QZ 15	MF 33	AC	EP	CL	OP	ESTIMATE
QGABBRO	3.58		2.76		PL 60	QZ 20	MF 20	AC	EP	CL		ESTIMATE
QGABBRO	3.46		2.81		PL 50	QZ 20	MF 30	AC	EP	OP		ESTIMATE
QGABBRO	3.01		2.82		PL 50	QZ 10	MF 40	AC	EP	OP	CL	ESTIMATE
QGABBRO	3.04		2.78		PL 40	QZ 15	MF 45	AC	EP	OP	CL	ESTIMATE
QGABBRO	3.51		2.79		PL 50	QZ 20	MF 30	AC	EP	CL	OP	ESTIMATE
QGABBRO	3.57		2.80		PL 55	QZ 20	MF 25	AC	EP	CL	OP	ESTIMATE
QGABBRO	3.16		2.79		PL 45	QZ 20	MF 35	AC	EP	CL	OP	ESTIMATE
QGABBRO	3.47		2.79		PL 50	QZ 20	MF 30	AC	EP	OP		ESTIMATE

DATA FOR GABBRO - PAGE 2

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT										METHOD			
CL GABBRO	2.11	.75	3.00	.002	PL 42	CP 36	CL 14	OP 07	MF 01									POINT COUNT
CL GABBRO	2.07	.74	3.01	.003	PL 42	CP 34	CL 15	OP 08	BI 01									POINT COUNT
GABBRO	2.16	.82	3.01	.001	PL 37	CP 41	CL 09	OP 13										POINT COUNT
MET GABBRO	2.30	.67	3.17	.003	PL 38	HB 17	CP 15	OP 12	GT 08	BI 08	AP 02							POINT COUNT
MET GABBRO	2.27	.70	3.13	.002	PL 45	CP 20	HB 12	BI 08	OP 08	GT 03	KF 02	AP 02						POINT COUNT
GABBRO	3.11	1.27	2.97	.004	QZ 02	PL 46	BI 32	MU 18	AP 01	SF 01								POINT COUNT

	Mean	S.D.	Number
Conductivity (W/mK)	3.06	0.52	39
Diffusivity (mm ² /s)	0.83	0.22	6
Density (Mg/m ³)	2.88	0.10	38
Porosity	0.003	0.001	6

DATA FOR AMPHIBOLITE - PAGE 1

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT										METHOD
AMPHIBLIT	2.00		2.90	.007	PL 45	MF 55				HB	EP	OP			ESTIMATE
AMPHIBLIT	2.67		2.96	.007	PL 33	QZ 3	MF 64			HB	BI	SF	OP		POINT COUNT
AMPHIBLIT	2.42		2.93	.005	PL 40	QZ 5	MF 55			HB	BI	OP			ESTIMATE
AMPHIBLIT	2.33		2.73	.004	PL 50	QZ 10	MF 40			HB	BI				ESTIMATE
AMPHIBLIT	2.37		2.90	.022	PL 4	QZ 5	MF 91			BI	HB	CM	CL		POINT COUNT
AMPHIBLIT	3.14		2.99	.007	PL 31	MF 69				HB	OP				POINT COUNT
AMPHIBLIT	2.55		2.98	.003	PL 25	QZ 3	MF 72			HB	SF	OP	EP		POINT COUNT
AMPHIBLIT	2.61		2.72	.005	PL 50	QZ 10	MF 40			HB	BI	OP			ESTIMATE
AMPHIBLIT	2.64		2.85	.004	PL 40	QZ 10	MF 50			HB	BI				ESTIMATE
AMPHIBLIT	2.53		2.81	.005	PL 30	QZ 10	MF 60			HB	BI	OP			ESTIMATE
AMPHIBLIT	2.60		2.94	.004	PL 35	QZ 15	MF 50			HB	BI	OP			ESTIMATE
AMPHIBLIT	2.36		3.08	.003	PL 3	MF 97				HB	BI	OP	EP		POINT COUNT
AMPHIBLIT	2.36		2.86	.004	PL 25	QZ 5	MF 70			HB	BI	OP			ESTIMATE
AMPHIBLIT	2.81		2.74	.003	PL 50	QZ 10	MF 40			HB	BI	OP			ESTIMATE
AMPHIBLIT	2.54		2.73	.003	FL 55	QZ 5	MF 35			HB	BI				ESTIMATE
AMPHIBLIT	2.55		2.77	.003	KF 15	PL 40	QZ 5	MF 40		HB	BI	OP			ESTIMATE
AMPHIBLIT	2.01		2.71	.002	PL 50	KF 5	QZ 5	MF 40		HB	BI	OP			ESTIMATE
AMPHIBLIT	2.25		2.85	.002	PL 45	QZ 5	MF 50			HB	BI				ESTIMATE
AMPHIBLIT	2.12		2.83	.004	PL 45	QZ 2	MF 53			HB	BI	OP			ESTIMATE
AMPHIBLIT	2.66		2.96	.004	PL 20	MF 80				HB					ESTIMATE
AMPHIBLIT	2.53		2.89	.003	KF 15	PL 35	MF 50			HB	OP				ESTIMATE
AMPHIBLIT	2.34		2.79	.002	QZ 5	PL 55	MF 40			HB	BI	OP			ESTIMATE
AMPHIBLIT	1.82		2.80	.016	QZ 5	PL 45	MF 50			HB	BI	OP			ESTIMATE
AMPHIBLIT	2.62		2.97	.002	QZ 10	PL 45	MF 50			HB	BI	OP			ESTIMATE
AMPHIBLIT	2.15		2.86	.003	QZ 5	PL 40	MF 55			HB	BI	OP			ESTIMATE
AMPHIBLIT	1.96		3.02	.002	QZ 5	PL 45	MF 50			HB	BI	OP			ESTIMATE
AMPHIBLIT	3.75		2.77	.002	QZ 5	PL 45	MF 50			HB	BI				ESTIMATE
AMPHIBLIT	1.97		3.00	.001	HB 55	PL 40	SF 03	AP 01	OP 01						POINT COUNT
AMPHIBLIT	1.70		3.01	.003	FL 25	HB 75									ESTIMATE
AMPHIBLIT	2.08		3.14	.001	HB 50	PL 40	BI 10								ESTIMATE
AMPHIBLIT	2.35		2.77	.003	PL 35	KF 5	MF 40			HB	BI	OP			ESTIMATE
AMPHIBLIT	1.80		2.90	.007	PL 35	MF 65				HB	BI	OP			ESTIMATE
AMPHIBLIT	2.06		2.71	.005	PL 35	MF 65				HB	BI	OP			ESTIMATE
AMPHIBLIT	2.25		3.04	.002	QZ 01	PL 33	BI 08	HB 54	GT 02	OP 01	MF 01				POINT COUNT
AMPHIBLIT	2.19	.85	2.97	.002	QZ 01	PL 44	HB 40	BI 08	OP 03	GT 02	AP 01	MF 01			POINT COUNT
AMPHIBLIT	2.22	.77	3.10	.003	PL 36	HB 49	GT 07	CP 06	BI 01	OP 01					POINT COUNT
AMPHIBLIT	3.93	.92	2.79	.003	QZ 31	PL 41	BI 04	MU 22	EP 02						POINT COUNT

	Mean	S.D.	Number
Conductivity (W/mK)	2.41	0.46	38
Diffusivity (mm ² /s)	-	-	-
Density (Mg/m ³)	2.89	0.12	38
Porosity	0.004	0.004	38

DATA FOR GRANOPHYRE - PAGE 1

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT						METHOD	
GRANOPHYR	3.41		2.68		FL 50	QZ 30	MF 20	CL	EP	OP		ESTIMATE
GRANOPHYR	3.30		2.68		FL 40	QZ 30	MF 30	CL	EP	OP		ESTIMATE
GRANOPHYR	3.37		2.68		FL 40	QZ 30	MF 30	CL	EP	OP		ESTIMATE
GRANOPHYR	3.78		2.72		FL 40	QZ 33	MF 27	CL	BI	EP	OP	POINT COUNT
GRANOPHYR	3.34		2.69		FL 45	QZ 30	MF 25	CL	BI	EP	OP	ESTIMATE
GRANOPHYR	3.35		2.71		FL 45	QZ 30	MF 25	CL	BI	EP	OP	ESTIMATE
GRANOPHYR	3.24		2.71		FL 45	QZ 30	MF 25	CL	EP	BI	OP	ESTIMATE
GRANOPHYR	3.17		2.73		FL 42	QZ 29	MF 29	CL	BI	EP	OP	ESTIMATE
GRANOPHYR	3.30		2.73		FL 40	QZ 30	MF 30	CL	BI	EP	OP	ESTIMATE
GRANOPHYR	3.39		2.71		FL 40	QZ 30	MF 30	CL	BI	OP		ESTIMATE
GRANOPHYR	3.05		2.69		FL 35	QZ 30	MF 35	CL	BI	OP	EP	ESTIMATE
GRANOPHYR	3.24		2.63		FL 40	QZ 30	MF 30	CL	EP	OP		ESTIMATE
GRANOPHYR	3.49		2.74		FL 40	QZ 25	MF 35	EP	CL	OP		ESTIMATE
GRANOPHYR	3.43		2.72		FL 40	QZ 30	MF 30	CL	EP	OP		ESTIMATE
GRANOPHYR	3.49		2.69		FL 50	QZ 30	MF 20	EP	CL	OP		ESTIMATE
GRANOPHYR	3.27		2.69		FL 45	QZ 25	MF 30	CL	EP	OP		ESTIMATE
GRANOPHYR	3.28		2.70		FL 41	QZ 28	MF 31	CL	EP	OP		POINT COUNT
GRANOPHYR	3.33		2.72		FL 45	QZ 30	MF 25	EP	CL	OP		ESTIMATE
GRANOPHYR	3.50		2.73		FL 35	QZ 32	MF 33	EP	CL	OP		ESTIMATE
GRANOPHYR	3.20		2.69		FL 47	QZ 28	MF 25	EP	CL	OP		ESTIMATE
GRANOPHYR	3.23		2.67		FL 42	QZ 28	MF 30	EP	CL	OP		ESTIMATE
GRANOPHYR	3.30		2.69		FL 45	QZ 30	MF 25	EP	CL	OP		ESTIMATE
GRANOPHYR	3.62		2.66		FL 48	QZ 32	MF 20	EP	CL	OP		ESTIMATE
GRANOPHYR	3.25		2.68		FL 42	QZ 28	MF 30	EP	CL	OP		ESTIMATE
GRANOPHYR	3.98		2.65		FL 48	QZ 33	MF 19	EP	OP	CL		POINT COUNT
GRANOPHYR	3.15		2.68		FL 40	QZ 25	MF 35	CL	EP	OP		ESTIMATE
GRANOPHYR	3.21		2.69		FL 45	QZ 25	MF 30	CL	EP	OP		ESTIMATE
GRANOPHYR	3.18		2.68		FL 43	QZ 25	MF 32	CL	EP	OP		ESTIMATE
GRANOPHYR	3.81		2.74		FL 42	QZ 33	MF 25	EP	CL	OP	CB	POINT COUNT
GRANOPHYR	3.20		2.68		FL 40	QZ 25	MF 25	EP	CL	OP	CB	ESTIMATE
GRANOPHYR	3.19		2.70		FL 50	QZ 25	MF 25	EP	CL	OP	CB	ESTIMATE
GRANOPHYR	3.16		2.68		FL 45	QZ 25	MF 30	EP	CL	OP	CB	ESTIMATE
GRANOPHYR	3.01		2.67		FL 35	QZ 25	MF 40	EP	CL	OP	CB	ESTIMATE
GRANOPHYR	3.15		2.69		FL 42	QZ 27	MF 31	EP	CL	OP		ESTIMATE
GRANOPHYR	3.00		2.68		FL 45	QZ 28	MF 27	EP	CL	OP	CB	POINT COUNT
GRANOPHYR	3.08		2.68		FL 40	QZ 28	MF 32	EP	CL	CB	SL	ESTIMATE
GRANOPHYR	3.46		2.74		FL 40	QZ 30	MF 30	EP	CL	SL		ESTIMATE
GRANOPHYR	3.05		2.67		FL 40	QZ 30	MF 30	EP	CL	OP		ESTIMATE
GRANOPHYR	3.00		2.67		FL 40	QZ 30	MF 30	EP	CL	OP		ESTIMATE
GRANOPHYR	3.10		2.68		FL 48	QZ 25	MF 28	EP	OP	CL		ESTIMATE
GRANOPHYR	3.06		2.65		FL 45	QZ 25	MF 30	EP	OP	CL		ESTIMATE

DATA FOR GRANOPHYRE - PAGE 2

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT						METHOD	
GRANOPHYR	2.92		2.66		FL 42	QZ 25	MF 33		CL	EP	OP	POINT COUNT
GRANOPHYR	3.31		2.68		FL 48	QZ 30	MF 22		EP	CL	OP	ESTIMATE
GRANOPHYR	3.65		2.74		FL 48	QZ 32	MF 20		EP	CL	OP	ESTIMATE
GRANOPHYR	3.05		2.66		FL 50	QZ 30	MF 20		EP	CL	OP	ESTIMATE
GRANOPHYR	3.04		2.66		FL 45	QZ 30	MF 25		CL	EP	OP	ESTIMATE
GRANOPHYR	3.09		2.67		FL 50	QZ 25	MF 25		CL	EP	OP	ESTIMATE
GRANOPHYR	3.14		2.75		FL 50	QZ 25	MF 25		CL	EP	OP	ESTIMATE

	Mean	S.D.	Number
Conductivity (W/mK)	3.28	0.23	48
Diffusivity (mm ² /s)	-	-	-
Density (Mg/m ³)	2.69	0.03	48
Porosity	-	-	-

DATA FOR NORITE - PAGE 1

ROCK TYPE	COND	DENS	POR	MINERALS AND PER CENT CONTENT								METHOD
NORITE	3.09	2.80		PL 40	QZ 15	MF 45		HY	CP	AC	EP	ESTIMATE
NORITE	3.16	2.79		PL 50	QZ 20	MF 30		AC	EP	OP		ESTIMATE
NORITE	3.09	2.78		PL 45	QZ 20	MF 35		AC	EP	OP		ESTIMATE
NORITE	2.81	2.77		PL 54	QZ 9	MF 37		HY	CP	CL	AC	POINT COUNT
NORITE	3.13	2.78		PL 50	QZ 15	MF 35		HY	CP	AC	EP	ESTIMATE
NORITE	2.73	2.75		PL 50	QZ 5	MF 45		HY	CP	AC	EP	ESTIMATE
NORITE	2.74	2.80		PL 56	QZ 3	MF 41		HY	CP	AC	EP	POINT COUNT
NORITE	2.83	2.78		PL 50	QZ 5	MF 45		HY	CP	AC	EP	ESTIMATE
NORITE	3.02	2.78		PL 60	QZ 10	MF 40		HY	CP	AC	EP	ESTIMATE
NORITE	2.93	2.81		PL 50	QZ 10	MF 40		HY	CP	AC	EP	ESTIMATE
NORITE	2.74	2.70		PL 50	QZ 5	MF 45		HY	CP	AC	EP	ESTIMATE
NORITE	2.87	2.80		PL 50	QZ 5	MF 45		HY	CP	AC	EP	ESTIMATE
NORITE	3.00	2.78		PL 50	QZ 10	MF 40		HY	CP	AC	EP	ESTIMATE
NORITE	2.90	2.79		PL 50	QZ 12	MF 40		HY	CP	AC	EP	ESTIMATE
NORITE	2.88	2.81		PL 55	QZ 10	MF 35		HY	CP	AC	EP	ESTIMATE
NORITE	2.89	2.81		PL 55	QZ 10	MF 35		HY	CP	EP	CL	ESTIMATE
NORITE	2.76	2.80		PL 55	QZ 4	MF 41		HY	CP	EP	CL	POINT COUNT
NORITE	2.78	2.80		PL 50	QZ 5	MF 45		HY	CP	EP	AC	ESTIMATE
NORITE	2.82	2.80		PL 55	QZ 5	MF 40		HY	CP	EP	CL	ESTIMATE
NORITE	2.76	2.80		PL 55	QZ 5	MF 40		HY	CP	EP	CL	ESTIMATE
NORITE	2.76	2.80		PL 57	QZ 4	MF 39		HY	CP	EP	BI	POINT COUNT
NORITE	2.78	2.79		PL 55	QZ 5	MF 40		HY	CP	EP	OP	ESTIMATE
NORITE	2.78	2.80		PL 50	QZ 5	MF 45		HY	CP	EP	OP	ESTIMATE
NORITE	3.06	2.80		PL 45	QZ 5	MF 50		HY	CP	EP	BI	ESTIMATE
NORITE	2.99	2.80		PL 50	QZ 5	MF 45		HY	CP	EP	BI	ESTIMATE
NORITE	2.90	2.80		PL 55	QZ 5	MF 40		HY	CP	EP	BI	ESTIMATE
NORITE	2.89	2.78		PL 50	QZ 3	MF 47		HY	CP	EP	AC	POINT COUNT
NORITE	2.79	2.70		PL 45	QZ 5	MF 50		HY	CP	EP	AC	ESTIMATE
NORITE	2.94	2.78		PL 50	QZ 5	MF 45		HY	CP	EP	BI	ESTIMATE
NORITE	2.85	2.79		PL 50	QZ 5	MF 45		HY	CP	AC	OP	ESTIMATE
NORITE	3.18	2.97		PL 45	QZ 5	MF 50		HY	CP	AC	OP	ESTIMATE
NORITE	3.37	2.80		PL 60	QZ 10	MF 30		HY	CP	EP		ESTIMATE
NORITE	2.88	2.78		PL 50	QZ 5	MF 45		HY	CP	AC	EP	ESTIMATE
NORITE	3.08	2.78		PL 55	QZ 10	MF 35		HY	CP	EP		ESTIMATE
NORITE	3.01	2.80		PL 50	QZ 10	MF 40		HY	CP	EP	BI	ESTIMATE
NORITE	3.60	2.91		PL 50	QZ 6	MF 44		HY	CP	EP	SL	POINT COUNT
NORITE	3.50	2.91		PL 45	QZ 5	MF 50		HY	CP	SL		ESTIMATE
NORITE	3.54	2.89		PL 45	QZ 5	MF 50		HY	CP	SL		ESTIMATE
NORITE	3.33	2.75		PL 65	QZ 5	MF 30		HY	CP	SL		ESTIMATE
NORITE	3.19	2.90		PL 65	QZ 5	MF 30		HY	CP	SL		ESTIMATE
NORITE	2.74	2.83		PL 50	QZ 2	MF 48		AC	CP	OP		ESTIMATE
NORITE	3.19	3.17		PL 60	QZ 10	MF 30		EP	AC	CP		ESTIMATE
NORITE	2.87	2.81		FL 49	QZ 9	MF 42		CL	BI	EP		POINT COUNT
NORITE	2.75	2.84		PL 50	QZ 5	MF 45		AC	CP	EP		ESTIMATE
NORITE	2.68	2.83		PL 45	QZ 5	MF 50		AC	CP	EP	OP	ESTIMATE
NORITE	2.63	2.83		PL 45	QZ 5	MF 50		AC	CP	EP	OP	ESTIMATE
NORITE	2.63	2.84		PL 40	QZ 5	MF 55		AC	CP	EP	OP	ESTIMATE
NORITE	2.51	2.81		PL 50	QZ 5	MF 45		AC	CP	EP	OP	ESTIMATE
NORITE	2.76	2.79		PL 35	QZ 5	MF 60		EP	AC	CP	OP	ESTIMATE
NORITE	2.74	2.94		PL 60	QZ 5	MF 35		AC	EP	OP		ESTIMATE

DATA FOR NORITE - PAGE 2

ROCK TYPE	COND	DENS	POR	MINERALS AND PER CENT CONTENT								METHOD	
NORITE	2.89	2.81		FL 65	QZ 5	MF 30		AC	EP	OP			ESTIMATE
NORITE	2.61	2.83		PL 50	QZ 4	MF 46		HY	CP	EP	AC		ESTIMATE
NORITE	2.53	2.84		PL 40	QZ 5	MF 55		HY	CP	EP	AC		ESTIMATE
NORITE	2.32	2.83		PL 53	QZ 2	MF 45		HY	CP	AC	BI		POINT COUNT
NORITE	2.47	2.81		PL 55	QZ 5	MF 40		HY	CP	AC			ESTIMATE
NORITE	2.81	2.70		FL 65	QZ 5	MF 30		HY	CP	AC	EP		ESTIMATE
NORITE	2.71	2.78		PL 55	QZ 5	MF 40		HY	CP	AC	EP		ESTIMATE
NORITE	2.65	2.79		PL 61	QZ 1	MF 38		HY	AC	CL	BI		POINT COUNT
NORITE	2.47	2.80		PL 40	MF 60			HY	AC	CL	BI		ESTIMATE
NORITE	2.42	2.79		PL 48	QZ 01	MF 52		HY	CP	AC	OP		POINT COUNT
NORITE	2.40	2.79		PL 45	MF 55			HY	CP	AC	OP		ESTIMATE
NORITE	2.79	2.84		PL 55	MF 45			HY	CP	AC	OP		ESTIMATE
NORITE	2.45	2.80		PL 45	MF 55			HY	CP	AC	OP		ESTIMATE
NORITE	2.38	2.80		PL 40	MF 60			HY	CP	AC	OP		ESTIMATE
NORITE	2.34	2.81		PL 50	MF 50			HY	CP	AC	OP		ESTIMATE
NORITE	2.38	2.80		PL 45	MF 55			HY	CP	AC	OP		ESTIMATE
NORITE	2.37	2.79		PL 45	MF 55			HY	CP	AC	OP		ESTIMATE
NORITE	2.39	2.76		PL 50	MF 50			HY	CP	AC	OP		ESTIMATE
NORITE	2.92	2.77		PL 65	MF 35			HY	CP	AC	OP		ESTIMATE
NORITE	2.46	2.77		PL 50	MF 50			HY	CP	AC	BI		ESTIMATE
NORITE	2.51	2.75		PL 55	MF 45			HY	CP	AC	BI		ESTIMATE
NORITE	2.63	2.74		PL 65	MF 35			HY	CP	AC	BI		ESTIMATE
NORITE	2.08	2.56		PL 65	MF 35			HY	CP	AC	SL		ESTIMATE
NORITE	3.08	2.74		PL 60	QZ 5	MF 35		CL	BI	EP	OP		POINT COUNT
NORITE	2.95	2.77		PL 55	QZ 5	MF 40		HY	CP	OP			ESTIMATE
NORITE	2.79	2.80		PL 50	QZ 5	MF 45		HY	CP	OP			ESTIMATE
NORITE	2.50	2.79		PL 50	QZ 5	MF 45		HY	CP	OP			ESTIMATE
NORITE	2.38	2.79		PL 55	QZ 5	MF 40		HY	CP	AC	OP		ESTIMATE
NORITE	2.38	2.80		PL 48	QZ 2	MF 50		HY	CP	AC	OP		ESTIMATE
NORITE	2.33	2.79		PL 60	QZ 5	MF 35		HY	CP	AC	OP		ESTIMATE
NORITE	2.38	2.80		PL 60	MF 40			HY	CP	AC	OP		ESTIMATE
NORITE	2.33	2.81		PL 67	MF 33			CL	CP	BI	AC		POINT COUNT
NORITE	2.40	2.81		PL 65	MF 35			CL	CP	BI	AC		ESTIMATE
NORITE	2.40	2.81		PL 65	MF 35			HY	CP	CL	BI		ESTIMATE
NORITE	2.47	2.81		PL 60	MF 40			HY	CP	CL	BI		ESTIMATE
NORITE	2.46	2.80		PL 60	MF 40			HY	CP	CL	BI		ESTIMATE
NORITE	2.41	2.80		PL 55	MF 45			HY	CP	CL	BI		ESTIMATE
NORITE	2.43	2.80		PL 55	MF 45			HY	CP	CL	BI		ESTIMATE
NORITE	2.31	2.78		PL 55	MF 45			HY	CP	CL	BI		ESTIMATE
NORITE	2.46	2.80		PL 55	MF 45			HY	CP	AC	OP		ESTIMATE
NORITE	2.42	2.80		PL 55	MF 45			HY	CP	AC	OP		ESTIMATE
NORITE	2.43	2.80		PL 50	MF 50			HY	CP	AC	OP		ESTIMATE
NORITE	2.41	2.81		PL 58	QZ 4	MF 38		HY	CP	AC	BI		POINT COUNT
NORITE	2.43	2.80		PL 55	QZ 5	MF 40		HY	CP	AC	BI		ESTIMATE

DATA FOR NORITE - PAGE 3

ROCK TYPE	COND	DENS	POR	MINERALS AND PER CENT CONTENT								METHOD
NORITE	2.44	2.80		PL 50	QZ 5	MF 45		HY	CP	AC	BI	ESTIMATE
NORITE	2.45	2.80		PL 50	QZ 5	MF 45		HY	CP	AC	BI	ESTIMATE
NORITE	2.49	2.80		PL 50	QZ 5	MF 45		HY	CP	AC	BI	ESTIMATE
NORITE	2.57	2.80		PL 50	QZ 5	MF 45		HY	CP	AC	BI	ESTIMATE
NORITE	2.58	2.80		PL 50	QZ 5	MF 45		HY	CP	AC	BI	ESTIMATE

	Mean	S.D.	Number
Conductivity (W/mK)	2.72	0.31	99
Diffusivity (mm ² /s)	-	-	-
Density (Mg/m ³)	2.80	0.06	99
Porosity	-	-	-

DATA FOR BASALT - PAGE 1

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT						METHOD
					PL 40	CP 40	MF 20	CL	EP	OP	
BASALT	2.19				PL 40	CP 40	MF 20	CL	EP	OP	POINT COUNT
BASALT	2.70		2.81	.002	FL 45	MF 55		HB	EP	SL	ESTIMATE
BASALT	2.40		2.79	.003	FL 45	MF 55		CP	EP	SL	ESTIMATE
BASALT	1.90		2.97	.003							
BASALT	1.65	.69	2.68	.047							
BASALT	1.77	.64	2.78	.037							
BASALT	1.79	.60	2.85	.022							
BASALT	1.93	.61	2.50	.126							
BASALT	1.52	.58	2.23	.211							
BASALT	1.87	.64	2.77	.031							
BASALT	1.82	.66	2.69	.032							
BASALT	1.80	.61	2.88	.008							
BASALT	1.94	.66	2.57	.065							
BASALT	2.20	.72	2.81	.012							
BASALT	2.36	.85	2.45	.115							
BASALT	1.76	.78	2.26	.162							
BASALT	1.91	.65	2.27	.193							
BASALT	1.79	.68	2.75	.010							
BASALT	2.28	.74	2.74	.012							
BASALT	2.09	.68	2.71	.021							
BASALT	1.87	.74	2.95	.004							
BASALT	1.89	.62	2.24	.172							
BASALT	1.83	.84	2.88	.001							
BASALT	2.08	.65	2.82	.008							
BASALT	2.21	.93	2.97	.003							
BASALT	2.00	.70	2.86	.005							
BASALT	2.11	.70	2.91	.004							
BASALT	1.94	.69	3.01	.007							
BASALT	1.74	.66	2.81	.003							
BASALT	2.03	.56	2.95	.011							
BASALT	2.03	.76	2.90	.019							
BASALT	1.94	.59	2.92	.019							
BASALT	1.98	.69	2.97	.010							
BASALT	1.91	.56	3.28	.008							
BASALT	2.07	.79	2.70	.132							
BASALT	1.99	.71	3.11	.005							
BASALT	2.25	.81	2.81	.024							
BASALT	2.20	.82	2.90	.009							
BASALT	2.01	.65	3.03	.004							
BASALT	2.15	.75	2.94	.007							
BASALT	2.23	.80	2.64	.004							
BASALT	1.74	.64	2.86	.023							
BASALT	1.72	.68	2.85	.022							
BASALT	1.81	.65	2.84	.021							

DATA FOR BASALT - PAGE 2

ROCK TYPE	COND	DIFF	DENS	POR	MINERALS AND PER CENT CONTENT	METHOD
BASALT	1.77	.74	2.83	.023		
BASALT	1.73	.70	2.85	.023		
BASALT	1.71	.64	2.78	.056		
BASALT	1.79	.64	2.84	.026		
BASALT	1.67	.64	2.87	.020		
BASALT	1.93	.72	2.89	.012		
BASALT	1.82	.72	2.87	.015		

	Mean	S.D.	Number
Conductivity (W/mK)	1.96	0.22	51
Diffusivity (mm ² /s)	0.69	0.08	47
Density (Mg/m ³)	2.83	0.17	50
Porosity	0.036	0.053	50