TABLE OF ANALYSES OF ELEVEN SAND AND GRAVEL SAMPLES

Map Number	LOCATION: Township (N)	Range (W)	Section	¼ Section	¼ of ¼ Section	Accessibility	Geologic formation	DESCRIPTION OF MATERIAL - PER CENT: Overburden (feet)	Limestone	Granite	Shale	Sandstone	Gneiss	Schist	Quartzite	Basalt	Rhyolite	Basic igneous (coarse-grained)	Porphyry	Caliche and iron oxide cement	Ironstone concretions	Chert	Coal fragments	Clay balls	Remarks
S-1	163	96	3	SW	SW	Poor	Meltwater channel	2-5	53	19	2	1	4	3	2	2		5		2	5	1	1		
S-2	163	95	30	NE	SE	Good	Esker	1-1½	36	14	14	3	6	7	2	1	2	2	1	2	7		1	2	
S-3	163	95	33	SE	NW	Good	Kame	1-3	55	18	4	4	3	3	5	1		4			3				
S-4	162	95	4	NW	NE	Good	Sand bar	1	40	30	2	4	4	2	4	2	2	6		2		2			
S-5	162	95	4	NW	SW	Good	Kame	1-2	36	15	28	2		6	4	3		1			5				
S-6	162	95	3	SW	SW	Good	Kame	1-2½	31	15	28	4	5	3	3			2	1	1	2		5		
S-7	162	95	5	SE	SW	Good	Meltwater channel	2	31	32	11	5	4	3	1	1		4	1		4	2		1	Caliche present
S-8	162	95	5	SE	SW	Good	Kame	3	30	16	16	2	4	8	2	4	2	2	6		2	4	2		
S-9	162	95	5	SE	SW	Good	Meltwater channel	6	35	37	10	4	6	2	2	2					2				
S-10	162	96	3	NE	NW	Fair	Kame	1-2	39	15	20	2	7	5	3	2	1	3			3				Caliche coating common
S-11	162	97	12	SE	SW	Good	Kame	½-1½	52	16	5	2	4	4	3	4		6			4				10% igneous and metamorphic decomposed

LABORATORY TESTS [1]

Map Number	Mechanical Analyses (Per cent passing various sieves) — Sieve Sizes or Numbers (U. S. Standard Series): 2½"	2"	1½"	1"	3/4"	3/8"	#4	#6	#10	#30	#40	#60	#100	#200	Liquid limit	Plastic limit	Plasticity index	L. A. abrasion % loss, grading A	Specific gravity: Bulk	Apparent	Absorption %	Unit weight lb./cu. ft.: Dry loose	Dry rodded
S-1	100	100	98	93	89	78	67	62	54	25	19	13	9	7	20	14	6	28.2	2.07	2.10	1	119.6	126.6
S-2	95	95	92	90	88	83	73	68	58	33	29	23	20	18	33	20	13	*	2.03	2.06	2	99.6	107.6
S-3	91	84	79	73	70	60	51	46	39	15	10	5	4	3	21	16	5	28.8	2.16	2.19	1	116.9	121.1
S-4	100	98	98	97	97	94	89	87	84	67	53	26	13	7	19	NP	NP	*	2.66	2.76	2	102.0	108.3
S-5	93	86	77	65	60	48	39	35	28	14	12	9	8	6	26	21	5	37.0	2.69	2.79	2	117.4	133.6
S-6	100	100	100	100	99	95	85	79	69	35	26	16	13	10	33	25	8	*	2.40	2.66	1	111.0	116.9
S-7	100	99	96	96	95	90	84	81	74	45	29	13	7	4	17	NP	NP	*	1.90	1.93	2	104.2	112.2
S-8	100	100	97	94	93	84	76	72	67	48	37	24	16	11	16	24	2	*	2.71	2.73	0	119.6	129.0
S-9	100	100	100	100	98	91	84	80	76	60	51	40	30	22	23	18	5	*	2.62	2.71	2	97.1	106.7
S-10	100	100	100	100	100	98	93	89	78	27	21	15	11	9	28	19	8	*	1.83	1.86	2	98.4	105.2
S-11	95	91	88	83	79	67	54	48	39	20	14	9	6	4	20	NP	NP	26.3	2.68	2.76	2	116.9	123.3

[1] Laboratory testing by Richard Van Horn; tests made in the Bureau of Public Roads Laboratories, Denver, Colorado.

* Insufficient material to make test.