

AGGREGATE TEST HOLE SUMMARY SHEET

PIT: RAVEN

DISTRICT: 3

EQUIPMENT TYPE: BECKER

Testpit Number	Overburden Depth	Soil Bound. (mm)	Soil Classification	Gradation of Materials								Soundness Indicator				Material at Bottom of Hole	Waterable (m)	Remarks		
				75/150 (mm)	150/225 (mm)	+ 225 (mm)	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Degrad.	Micro Duval	Sand Equivalent				MgSO4	
											A (%)	B (%)							CA	FA
89-1		0.0/6.7	GP				60	76	22	2								1.9	FVI	
89-2		0.0/3.0	GPGM				60	65	30	5									FVI	
		3.0/4.3	GP				60	56	41	3	91	78	73		71				WSA	
		4.3/6.7	GPGM				60	55	40	5									FVI	
		6.7/9.1	SPSM				25	18	74	8									WSA	
		9.1/12.6	GP				75	54	44	2	68	57	82		76				WSA	
		12.6/14.0	ML						20	80							ML		FVI	
89-3	0.6	0.0/0.6	OB																FVI	
		0.6/6.7	SPSM				75	45	48	7									WSA	
		6.7/15.2	GPGM				75	50	44	6									WSA	
		15.2/16.5	ML					10	5	85							ML		FVI	
89-4	0.6	0.0/0.6	OB																FVI	
		0.6/12.8	GPGM				75	49	44	7	88	84	83		44	3.32	8.97		WSA, ABS: C-2.49%, F-2.95%	
		12.8/14.0	SPSM				35	20	75	5									FVI	
		14.0/15.6	SM2					10	70	20									FVI	
		15.6/16.5	ML						15	85							ML		FVI	
89-5	0.6	0.0/0.6	OB																FVI	
		0.6/3.0	GPGM				60	60	35	5									FVI	
		3.0/4.3	SPSM				60	44	51	5	90	72	78		63				WSA	
		4.3/6.7	GPGM				60	35	5										FVI	
		6.7/9.1	SPSM				36	57	7										WSA	

FVI= Field Visual Identification

BRX= Bedrock

WSA= Washed Sieve Analysis

LVI= Lab Visual Identification

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				75/150 (mm)	150/225 (mm)	+ 225 (mm)	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Degrad.	Micro Duval	Sand Equivalent				MgSO4	
											A (%)	B (%)							CA	FA
89-6	0.6	0.0/0.6	OB																FVI	
		0.6/6.7	GPGM				60	60	35	5										FVI
		6.7/9.1	SPSM				75	46	47	7										WSA
		9.1/10.4	SP				60	27	70	3								SP		WSA
89-7		0.0/3.0	GPGM				60	65	30	5										FVI
		3.0/4.3	GP				60	65	31	4										WSA
		4.3/5.3	GM2				60	45	35	20										FVI
		5.3/6.7	SM2					10	70	20										FVI
		6.7/9.3	SM4					1	53	46								9.3		WSA
		9.3/10.0	GP					80	19	1										FVI
		10.0/10.8	SM3					5	65	30										FVI
		10.8/11.6	ML						30	70									ML	FVI
89-8	0.6	0.0/0.6	OB																	FVI
		0.6/5.5	GPGM				60	57	37	6	83	83	20	62						WSA
		5.5/10.0	SPSM					30	60	10										FVI
		10.0/11.6	SC3						70	30									SC3	FVI

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				75/150 (mm)	150/225 (mm)	+ 225 (mm)	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Degrad.	Micro Duval	Sand Equivalent				MgSO4	
											A (%)	B (%)							CA	FA
89-9	0.6	0.0/0.6	OB																FVI	
		0.6/6.7	GPGM				90	49	42	9										WSA
		6.7/7.9	SPSM				50	26	69	5	78	57	66		75					WSA
		7.9/10.4	GPGM				50	60	35	5										FVI
		10.4/11.6	SPSM				25	30	63	7										WSA
		11.6/14.0	GPGM				60	65	30	5										FVI
		14.0/16.5	SM1					22	62	16								SM1		WSA
89-10	0.6	0.0/0.6	OB																	FVI
		0.6/3.0	GPGM				90	65	30	5										FVI
		3.0/6.7	SP				75	42	54	4										WSA
		6.7/11.6	SPSM				60	40	55	5										WSA
		11.6/14.0	GPGM				90	65	30	5										FVI
		14.0/16.5	SM2				60	10	68	22								SM2		WSA
89-11	0.6	0.0/0.6	OB																	FVI
		0.6/9.1	SPSM				90	40	55	5										WSA
		9.1/10.4	GPGM				50	55	40	5										FVI
		10.4/12.8	GP				50	54	42	4								GP		WSA
89-12	0.6	0.0/0.6	OB																	FVI
		0.6/1.8	GPGM				75	75	20	5										FVI
		1.8/4.3	GP				90	84	15	1										FVI
		4.3/14.0	SPSM				75	44	49	7	91	83	41		47	5.02	8.6			WSA, ABS: C-1.39%, F-2.36%
		14.0/16.4	GP				75	54	42	4	89	82	33		46	9.42	12.8	GP		WSA, ABS: C-1.35%, F-2.23%

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				75/150 (mm)	150/225 (mm)	+ 225 (mm)	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Degrad.	Micro Duval	Sand Equivalent	MgSO4								
											A (%)	B (%)				CA	FA							
89-13	0.6	0.0/0.6	OB																				FVI	
		0.6/1.8	GPGM				75	60	30	10														FVI
		1.8/7.9	SP				60	38	59	3			60		40									WSA
		7.9/12.0	GPGM				75	65	30	5														FVI
		12.0/14.0	SPSM				90	40	52	8														WSA
		14.0/16.5	GP				75	50	47	3														WSA
98-14	0.6	0.0/0.6	OB																					FVI
		0.6/4.3	SPSM				50	43	52	5			86											WSA
		4.3/6.7	GPGM				75	65	30	5														FVI
		6.7/9.1	SP				60	44	55	4			24											WSA
		9.1/14.0	GPGM				75	49	44	7														FVI
		14.0/16.5	SPSM				90	42	52	6														WSA
89-15	0.6	0.0/0.6	OB																					FVI
		0.6/14.0	SPSM				90	37	55	8			47											WSA
		14.0/16.5	SM4						60	40										SM4				WSA
89-16	0.6	0.0/0.6	OB																					FVI
		0.6/6.7	GPGM				90	53	40	7														WSA
		6.7/7.9	SPSM				50	43	49	8														WSA
		7.9/10.4	GPGM				50	65	30	5														FVI
		10.4/16.5	GP				75	62	34	4										GP				WSA

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				75/150 (mm)	150/225 (mm)	+ 225 (mm)	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Degrad.	Micro Duval	Sand Equivalent				MgSO4			
											A (%)	B (%)							CA	FA		
89-17	0.6	0.0/0.6	OB																FVI			
		0.6/1.8	GPGM				75	70	25	5										FVI		
		1.8/4.3	SPSM				75	46	48	6										WSA		
		4.3/7.9	GPGM				60	65	30	5										FVI		
		7.9/11.6	SPSM				50	40	55	5										FVI		
		11.6/14.0	GPGM				50	49	46	5										WSA		
		14.0/16.5	SPSM				50	37	56	7								SPSM		WSA		
89-18	0.6	0.0/0.6	OB																	FVI		
		0.6/7.9	SP				75	35	61	4	83	76	72		78						WSA	
		7.9/12.8	GPGM				60	60	32	8											FVI	
		12.8/14.0	SM1				50	37	50	13									SM1	13.0	WSA	
89-19	0.6	0.0/0.6	OB																		FVI	
		0.6/5.5	GPGM				100	48	47	5											WSA	
		5.5/6.7	GP				60	50	46	4	91	84	56								WSA	
		6.7/7.9	GPGM				75	65	25	10											FVI	
		7.9/10.0	GM2				60	50	30	20										8.3	FVI	
		10.0/11.9	GPGM				50	65	30	5											FVI	
		11.9/14.0	SM1				25	9	72	19										SM1		WSA

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				75/150 (mm)	150/225 (mm)	+ 225 (mm)	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Degrad.	Micro Duval	Sand Equivalent				MgSO4	
											A (%)	B (%)							CA	FA
89-20	0.6	0.0/0.6	OB																	
		0.6/4.3	GP				60	51	45	4	89	82								
		4.3/9.1	GPGM				90	55	40	5										
		9.1/10.7	GP				75	79	20	1										
		10.7/11.9	GM1				35	50	35	15										
		11.9/14.0	SM2				15	15	65	20							14.0			
		14.0/15.0	GP				35	79	20	1							GP			

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				75/150 (mm)	150/225 (mm)	+ 225 (mm)	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Degrad.	Micro Duval	Sand Equivalent				MgSO4	
											A (%)	B (%)							CA	FA
				OVERSIZE % UNKNOWN, NO FIELD LOGS IN FILE																
94-1		0.0/1.5	GP					51	48	1							GP	1.5	WSA	
94-2		0.0/5.5	GP					52	47	1							GP		WSA	
94-3		0.0/0.2	SP																FVI	
		0.2/1.4	GP					66	33	1									WSA	
		1.4/2.3	SP					34	65	1									WSA	
		2.3/3.1	SM																FVI	
		3.1/5.2	GP					52	47	1							GP		WSA	
94-4		0.0/0.2	SP																FVI	
		0.2/2.6	GP					74	25	1									WSA	
		2.6/3.9	SP					42	57	1									WSA	
		3.9/4.9	GP					55	43	2									WSA	
		4.9/5.8	SP						99	1							SP		WSA	
94-5	0.2	0.0/0.2	OB																FVI	
		0.2/5.8	GP					79	20	1							GP		WSA	
94-6	0.6	0.0/0.6	OB																FVI	
		0.6/4.2	GP					66	33	1									WSA	
		4.2/5.5	SP					33	66	1									WSA	
		5.5/5.8	GP					51	48	1							GP		WSA	

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				75/150 (mm)	150/225 (mm)	+ 225 (mm)	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Degrad.	Micro Duval	Sand Equivalent				MgSO4	
											A (%)	B (%)							CA	FA
94-7		0.0/0.9	SM1					2	86	12									WSA	
		0.9/5.0	GP					59	40	1									WSA	
		5.0/6.1	SP					49	50	1							SP		WSA	
94-8		0.0/1.1	SP																FVI	
		1.1/3.1	SP					24	75	1									WSA	
		3.1/5.2	GP					52	47	1							GP		WSA	
94-9	0.4	0.0/0.6	OB																FVI	
		0.6/5.7	GP					66	33	1							GP		WSA	
94-10	0.5	0.0/0.5	OB																FVI	
		0.5/2.9	GP					67	32	1									WSA	
		2.9/4.0	SP																FVI	
		4.0/4.2	GP																FVI	
		4.2/5.2	SP					46	53	1							SP		WSA	
94-11	0.9	0.0/0.9	OB																FVI	
		0.9/1.2	SP					39	60	1									WSA	
		1.2/3.9	GP					65	34	1									WSA	
		3.9/6.0	SP					44	55	1							SP		WSA	

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				75/150 (mm)	150/225 (mm)	+ 225 (mm)	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Degrad.	Micro Duval	Sand Equivalent				MgSO4	
											A (%)	B (%)							CA	FA
94-12	0.5	0.0/0.5	OB																FVI	
		0.5/1.6	GP					67	32	1									WSA	
		1.6/3.5	SP					47	52	1									WSA	
		3.5/4.0	GP																FVI	
		4.0/6.0	SP														SP		FVI	
94-13		0.0/4.8	GP					89	10	1								4.8	WSA	
		4.8/5.5	SP														SP		FVI	
94-14		0.0/1.0	GP																FVI	
		1.0/1.3	SP					26	72	2									WSA	
		1.3/6.0	GP					70	29	1							GP		WSA	
94-15	0.6	0.0/0.6	OB																FVI	
		0.6/5.2	SP					32	67	1									WSA	
		5.2/6.0	GP					52	48	1							GP		WSA	
94-16		0.0/6.0	GP					60	39	1							GP		WSA	
94-17		0.0/1.8	GP																FVI	
		1.8/2.8	SP					30	69	1									WSA	
		2.8/6.0	GP					68	31	1							GP		WSA	

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				75/150 (mm)	150/225 (mm)	+ 225 (mm)	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Degrad.	Micro Duval	Sand Equivalent				MgSO4	
											A (%)	B (%)							CA	FA
94-18	0.2	0.0/0.2	OB																FVI	
		0.2/2.7	GP					55	45	1									WSA	
		2.7/5.9	GP					90	9	1							GP		WSA	
94-19	0.2	0.0/0.2	OB																FVI	
		0.2/1.6	SP					43	56	1									WSA	
		1.6/6.0	GP					73	26	1							GP		WSA	
94-20		0.0/2.8	GP					93	9	1									WSA	
		2.8/5.6	GP					50	49	1									WSA	
		5.6/6.1	SP					24	74	2							SP		WSA	
94-21	0.2	0.0/0.2	OB																FVI	
		0.2/5.2	SP					43	56	1									WSA	
		5.2/6.1	SP					10	89	1							SP		WSA	
94-22	0.1	0.0/0.1	OB																FVI	
		0.1/2.6	GP					58	41	1									WSA	
		2.6/3.6	SP					40	59	1									WSA	
		3.6/5.8	GP					68	32	1									WSA	
		5.8/6.1	SP					45	54	1							SP		WSA	

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				75/150 (mm)	150/225 (mm)	+ 225 (mm)	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Degrad.	Micro Duval	Sand Equivalent				MgSO4	
											A (%)	B (%)							CA	FA
94-23	0.1	0.0/0.1	OB																FVI	
		0.1/1.0	SM2					3	77	20									WSA	
		1.0/5.9	GP					60	39	1									WSA	
		5.9/6.1	SP					5	93	2							SP		WSA	
94-24	0.1	0.0/0.1	OB																FVI	
		0.1/1.4	GM																FVI	
		1.4/3.2	SP					30	69	1									WSA	
		3.2/4.1	SP					2	96	2									WSA	
		4.1/4.8	SP					39	60	1									WSA	
		4.8/6.1	GP					79	20	1							GP		WSA	
94-25	0.1	0.0/0.1	OB																FVI	
		0.1/1.1	SM																FVI	
		1.1/2.6	GP					65	34	1									WSA	
		2.6/3.7	SP					43	56	1									WSA	
		3.7/4.7	SP					24	75	1									WSA	
		4.7/6.1	GP														GP		FVI	
94-26	0.1	0.0/0.1	OB																FVI	
		0.1/1.1	SM																FVI	
		1.1/2.5	GP					54	45	1									WSA	
		2.5/3.9	SP					9	90	1									WSA	
		3.9/6.1	GP					71	28	1							GP		WSA	

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Province of British Columbia, Ministry of Transportation, GEOTECHNICAL AND MATERIALS ENGINEERING

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				75/150 (mm)	150/225 (mm)	+ 225 (mm)	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Degrad.	Micro Duval	Sand Equivalent				MgSO4	
											A (%)	B (%)							CA	FA
94-27	0.1	0.0/0.1	OB																FVI	
		0.1/0.9	SM																FVI	
		0.9/2.1	GP					61	38	1									WSA	
		2.1/3.2	SP					12	87	1									WSA	
		3.2/6.1	GP					54	45	1								GP	WSA	

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Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: Raven #0152

Contract Area: North Island - 3

Equipment Type: Excavator

Test Pit/Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials							Soundness Indicator						Density	Absorption		Water Table Elevation (m)	Remarks	Bag #			
					75/150 mm	150/225 mm	> 225 mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.	MgSO4										
												A	B			C	F							C	F	
												(%)	(%)	(%)	(%)	(%)	(%)							(%)	(%)	(%)
13-1	0.6	117.5	116.9	CR					50	46	4												FVI; CRUSH			
	0.4	116.9	116.5	GP	5	1		300	89	10	1													FVI		
	3.0	116.5	113.5	SP					15	83	2										114.0			FVI; 2L/MIN		
13-2	0.2	118.6	118.4	CR																				FVI; CRUSH		
	0.8	118.4	117.6	GP	3	1		300	54	44	2														FVI	
	2.0	117.6	115.6	SP	2			150	41	58	1														WSA	181
	0.2	115.6	115.4	CL																					FVI	
	0.8	115.4	114.6	GP	5	2	1	350	62	36	2											115.4			FVI; 2L/MIN	
13-3	1.0	121.6	120.6	GP	8	2		300	70	29	1											120.8			FVI; 2L/MIN	
13-4	0.2	123.2	123.0	CR																					FVI; CRUSH	
	1.0	123.0	122.0	SPSM	3	2	1	300	40	52	8														WSA	738
	2.0	122.0	120.0	SP	5	2	1	300	43	56	1														WSA	739
	0.3	120.0	119.7	SP					20	78	2											119.7			FVI; 2L/MIN	

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Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: Raven #0152

Contract Area: North Island - 3

Equipment Type: Excavator

Test Pit/Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials							Soundness Indicator					Density	Absorption		Water Table Elevation (m)	Remarks	Bag #						
					75/150 mm	150/225 mm	> 225 mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.	MgSO4		C	F				C	F				
												A	B			C									F	C	F	
												(%)	(%)	(%)	(%)	(%)		(%)	(%)				(%)	(%)	(%)	(%)	(%)	(%)
13-5	0.3	131.5	131.2	GM1					48	38	14												FVI					
	1.5	131.2	129.7	GP	2			150	64	36	0													WSA	212			
	3.2	129.7	126.5	SP	2	1		180	44	54	2													WSA	213			
	1.0	126.5	125.5	GP	5	2		300	60	39	1														WSA	730		
13-6	0.3	133.2	132.9	GM1	1	1		200	48	38	14														FVI			
	4.2	132.9	128.7	GP	6	3	1	350	61	39	0	85	76	7	11										WSA; LOOSE MATERIAL	731		
13-7	6.0	131.7	125.7	SP	4	2	1	300	40	58	2															WSA	740	
13-8	1.0	130.7	129.7	GP	4	2	1	300	64	35	1															FVI		
	5.0	129.7	124.7	GP	3	1		150	53	44	3											125.2			WSA; 3L/MIN	741		
13-9	2.5	142.3	139.8	GP	5	2	1	350	54	42	4	86	81	15	13											WSA	742	
	3.5	139.8	136.3	SP	2			150	39	59	2																WSA	743
13-10	0.2	144.3	144.1	TS																							FVI; ORGANICS	
	1.5	144.1	142.6	SP	2	1		250	43	56	1	84	75	12	11												WSA; SOME CRUMBLY ROCK	744
	1.8	142.6	140.8	GP	3	2	1	300	63	35	2																WSA	745
	2.5	140.8	138.3	GP	1			150	54	44	2	81	74	12	13												WSA; FINER THAN SA-2	746

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Ministry of Transportation

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Pit: Raven #0152

Contract Area: North Island - 3

Equipment Type: Excavator

Test Pit/Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials							Soundness Indicator				Density	Absorption		Water Table Elevation (m)	Remarks	Bag #						
					75/150 mm	150/225 mm	> 225 mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.		MgSO4					C (%)	F (%)	C (%)	F (%)		
												A (%)	B (%)				C (%)	F (%)								C (%)	F (%)
13-11	0.2	145.8	145.6	TS																	FVI; ORGANICS						
	2.8	145.6	142.8	GP	8	5	1	400	62	35	3											WSA	747				
	2.5	142.8	140.3	SP	4	2	1	350	46	51	3											WSA	748				
	0.5	140.3	139.8	SP	1			150	20	79	1												FVI				
13-12	0.2	151.5	151.3	TS																			FVI; ORGANICS				
	1.5	151.3	149.8	GP	6	2	1	350	50	47	3													FVI			
	3.3	149.8	146.5	GP					63	35	2	83	73	13	13									WSA	749		
	1.0	146.5	145.5	SP	1			150	30	69	1														FVI		
13-13	0.2	152.1	151.9	TS																					FVI; ORGANICS		
	2.3	151.9	149.6	GP	4	2		300	50	47	3					61	4	14	2.8	2.7	1.9	3.5			WSA	732	
	2.5	149.6	147.1	GP	4	2		300	62	35	3														WSA; CRUMBLY ROCK	733	
	1.0	147.1	146.1	SP	1			150	35	63	2															FVI	
13-14	0.2	142.9	142.7	TS																						FVI; ORGANICS	
	3.8	142.7	138.9	GP	6	3	1	450	71	28	1															WSA; FINES DOWNWARD	734
	2.0	138.9	136.9	SP	2	1		250	42	51	2															WSA	735

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Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: Raven #0152

Contract Area: North Island - 3

Equipment Type: Excavator

Test Pit/Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials							Soundness Indicator				Density		Absorption		Water Table Elevation (m)	Remarks	Bag #				
					75/150 mm	150/225 mm	> 225 mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.	MgSO4		C	F				C	F	C	F
												A	B			C	F									
												(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)				(%)	(%)	(%)	(%)
13-15	0.2	145.7	145.5	TS																		FVI; ORGANICS				
	4.3	145.5	141.2	GP	10	5	2	450	61	36	3	84	78	12	13								WSA	736		
	1.5	141.2	139.7	GPGM	2	1		250	52	42	6												FVI; FINES DOWNWARD			
13-16	0.2	135.5	135.3	TS																			FVI; ORGANICS			
	1.3	135.3	134.0	GP	5	3	1	450	62	34	4												FVI			
	3.0	134.0	131.0	GPGM	5	3	1	450	58	37	5				47	5.9	12	2.9	2.7	1.6	3.1		WSA	737		
	1.5	131.0	129.5	SP	1			150	35	64	1												FVI			
13-17	0.2	141.0	140.8	TS																			FVI; ORGANICS			
	2.3	140.8	138.5	GPGM	10	5	2	750	64	30	6												FVI			
	3.5	138.5	135.0	SP	2	1		300	48	49	3												WSA	180		
13-18	0.2	147.2	147.0	TS																			FVI; ORGANICS			
	3.3	147.0	143.7	GP	10	5	1	600	59	40	1												WSA	178		
	2.5	143.7	141.2	SP	1	1		200	25	74	1												FVI			
13-19	0.4	150.0	149.6	TS																			FVI; ORGANICS			
	3.6	149.6	146.0	GP	10	5	2	450	65	33	2	87	83	11	9.9								WSA	174		
	2.0	146.0	144.0	GPGM	2	1		200	48	47	5												WSA	175		

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Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: Raven #0152

Contract Area: North Island - 3

Equipment Type: Excavator

Test Pit/Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials							Soundness Indicator				Density	Absorption		Water Table Elevation (m)	Remarks	Bag #				
					75/150 mm	150/225 mm	> 225 mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.		MgSO4					C	F	C	F
												A	B				C	F							
												(%)	(%)	(%)	(%)		(%)	(%)				(%)	(%)	(%)	(%)
13-20	0.4	153.6	153.2	TS																	FVI; ORGANICS				
	4.1	153.2	149.1	SP	5	2	1	450	48	49	3											WSA; COMPACTED/CEMENTED	173		
	1.5	149.1	147.6	SP	1			150	46	53	1									147.6		FVI; 4L/MIN			
13-21	0.4	154.4	154.0	TS																		FVI; ORGANICS			
	3.1	154.0	150.9	SP	4	2			44	54	2	81	76	12	12								WSA; COMPACTED/CEMENTED	171	
	2.0	150.9	148.9	GP	6	3	1		49	48	3												WSA	172	
	0.5	148.9	148.4	SP	1			150	24	75	1												FVI		
13-22	0.4	127.0	126.6	TS																			FVI; ORGANICS		
	2.6	126.6	124.0	SP	4	2		300	43	56	1													WSA; LUMPS OF COMPACTED S+G	176
	2.0	124.0	122.0	SP	2			150	33	66	1													FVI	
	1.0	122.0	121.0	GP	4	1		250	63	35	2													WSA	177
13-23	0.4	130.0	129.6	TS																				FVI; ORGANICS	
	3.6	129.6	126.0	GP	4	2	1	450	52	47	1	81	73	9.4	10									WSA	179
	1.5	126.0	124.5	GP	3	2		250	79	17	4													WSA	710
	0.5	124.5	124.0	SP	1			150	34	65	1													FVI	

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Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: Raven #0152

Contract Area: North Island - 3

Equipment Type: Excavator

Test Pit/Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials							Soundness Indicator				Density	Absorption		Water Table Elevation (m)	Remarks	Bag #				
					75/150 mm	150/225 mm	> 225 mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.		MgSO4					C	F	C	F
												A	B				C	F							
												(%)	(%)	(%)	(%)		(%)	(%)				(%)	(%)	(%)	(%)
13-24	1.0	132.2	131.2	GP	5	2		300	68	32	2										WSA	711			
	5.0	131.2	126.2	SP	3	2		300	48	50	2										FVI				
13-25	0.5	133.1	132.6	TS																	FVI; ORGANICS				
	0.5	132.6	132.1	SP					14	84	2										FVI				
	4.0	132.1	128.1	GP	6	3		300	62	37	1										WSA	712			
	1.0	128.1	127.1	SP					40	58	2										FVI				
13-26	0.4	148.4	148.0	TS																	FVI; ORGANICS				
	5.6	148.0	142.4	GP	4	2	1	300	53	46	1	84	78	12	11						WSA	713			
13-27	0.4	146.0	145.6	TS																	FVI; ORGANICS				
	0.6	145.6	145.0	GP	6	4	1	400	56	42	2										FVI				
	0.5	145.0	144.5	SM2	3	2	1	400	18	60	22										FVI				
	0.5	144.5	144.0	SP					32	66	2										FVI				
	0.3	144.0	143.7	GP	5	2		200	80	19	1										FVI				
	2.7	143.7	141.0	SP	3	2		200	34	63	3										WSA	714			
	1.0	141.0	140.0	GP	3	2		200	60	39	1										FVI				

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Ministry of Transportation

TEST PIT / HOLE SUMMARY SHEET

Pit: Raven #0152 Contract Area: North Island - 3 Equipment Type: Excavator

Test Pit/Hole Number	Layer Thickness (m)	Layer Top Elevation (m)	Layer Bottom Elevation (m)	Soil Classification	Gradation of Materials							Soundness Indicator				Density	Absorption		Water Table Elevation (m)	Remarks	Bag #				
					75/150 mm	150/225 mm	> 225 mm	Maximum Size (mm)	Gravel	Sand	Fines	Fracture		Micro Duval	Sand Eq.		MgSO4					C	F	C	F
												A	B				C	F							
												(%)	(%)	(%)	(%)		(%)	(%)				(%)	(%)	(%)	(%)
13-28	0.4	150.8	150.4	TS																	FVI; ORGANICS				
	2.0	150.4	148.4	GP	10	5	2	500	60	36	4											FVI			
	3.6	148.4	144.8	SP	4	2		250	47	50	3											WSA	715		
13-29	0.4	146.1	145.7	TS																		FVI; ORGANICS			
	4.1	145.7	141.6	GP	10	5	1	500	68	31	1											WSA	716		
	1.5	141.6	140.1	SP	4	2	1	300	44	54	2											FVI			
13-30	0.4	144.4	144.0	TS																		FVI; ORGANICS			
	3.1	144.0	140.9	GP	5	3	1	400	57	42	1			86	5	13	2.8	2.7	1.9	3.2		WSA	718		
	1.0	140.9	139.9	SP	2	1		200	17	82	1											FVI			
	1.5	139.9	138.4	SP	2	1		200	45	54	1											WSA	717		

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