

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving Public Works and Government
Services Canada/Réception des soumissions Travaux
publics et Services gouvernementaux Canada
800 Burrard Street, 12th floor
800,rue Burrard, 12e étage
Vancouver
British Columbia
V6Z 2V8
Bid Fax: (604) 775-9381

SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Public Works and Government Services Canada -
Pacific Region
800 Burrard Street, 12th floor
800, rue Burrard, 12e étage
Vancouver
British C
V6Z 2V8

Title - Sujet Concassage, transport et mise en dé	
Solicitation No. - N° de l'invitation E0276-132176/A	Amendment No. - N° modif. 003
Client Reference No. - N° de référence du client	Date 2013-02-05
GETS Reference No. - N° de référence de SEAG PW-\$PWY-004-6901	
File No. - N° de dossier PWY-2-35240 (004)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-02-11	Time Zone Fuseau horaire Pacific Standard Time PST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Mestry, Ruth (PWY)	Buyer Id - Id de l'acheteur pwy004
Telephone No. - N° de téléphone (604) 775-9385 ()	FAX No. - N° de FAX (604) 775-6633
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: PWGSC - km509.3 Alaska Highway, BC	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

Solicitation No. - N° de l'invitation

E0276-132176/A

Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.

003

File No. - N° du dossier

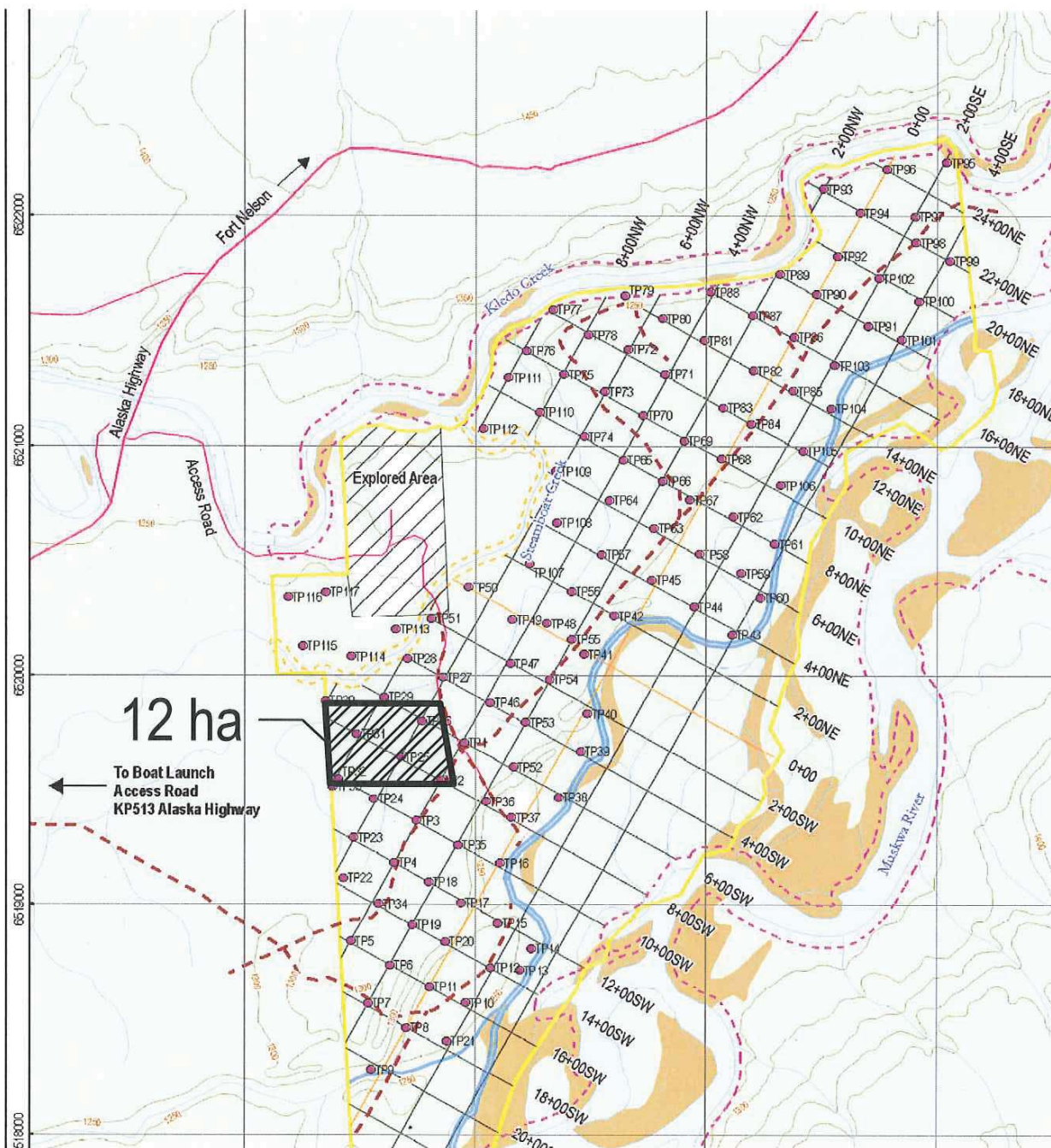
PWY-2-35240


Buyer ID - Id de l'acheteur

pw004

CCC No./N° CCC - FMS No/ N° VME

Les documents français seront disponibles sur demande



project title		titre du projet		drawing title		titre du dessin	
Clearing Gravel Pits km 509.3 and km 568.9 and R.O.W. km 555-571 Alaska Highway, BC				Kledo Creek Pit Clearing Areas			
	Public Works and Government Services Canada	Travaux publics et Services gouvernementaux Canada	designed by AHP	drawn by AHP	scale NOT TO SCALE	echelle	date January 2010
	REAL PROPERTY SERVICES Pacific Region		approved by AHP	approuvé par	project no. R.017173.013		projet no.
			PWGSC Project Manager	Administrateur de Projets TPSGC	sheet 08	feuille	
			Ron Iverson				

GRANULAR EVALUATION		CLIENT: PWGSC		TESTPIT NO: V33101023-TP02		
Kledo Creek Source		EXCAVATOR: CAT 322B		PROJECT NO: V33101023		
North of Fort Nelson, BC		6519545N; 471849E; Zone 10				
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> BULK <input type="checkbox"/> CRREL CORE <input type="checkbox"/> SHELBY TUBE <input type="checkbox"/> GRAB CORE						
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND						
Depth (m)	LITHOLOGICAL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	GROUND ICE DESCRIPTION AND COMMENTS	<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Bulk Density (kg/m³) 500 1000 1500 2000 </div> <div> <input type="checkbox"/> PLASTIC M.C. <input type="checkbox"/> LIQUID 20 40 60 80 </div> </div> <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> CLAY (%) 20 40 60 80 </div> <div> <input type="checkbox"/> SILT (%) 20 40 60 80 </div> <div> <input type="checkbox"/> SAND (%) 20 40 60 80 </div> <div> <input type="checkbox"/> GRAVEL (%) 20 40 60 80 </div> </div>	Depth (ft)
0	LFH 0 to 4 cm SILT - organics, damp, loose, dark brown					0
	SAND - medium grained, poorly graded, damp, dark brown					
1			1			
	COBBLE and GRAVEL - bouldery (~20%), some sand (~15-20%), trace silt, rounded	<input checked="" type="checkbox"/>	4			5
2			3			
3			2			10
4						
	END OF TEST PIT 4.25 m - excessive sloughing - standing water					15
5						
6						20
6.5						21

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REVIEWED BY: JTD
DRAWING NO:

COMPLETION DEPTH: 4.25m
COMPLETE: 6/4/2009
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SIEVE ANALYSIS REPORT

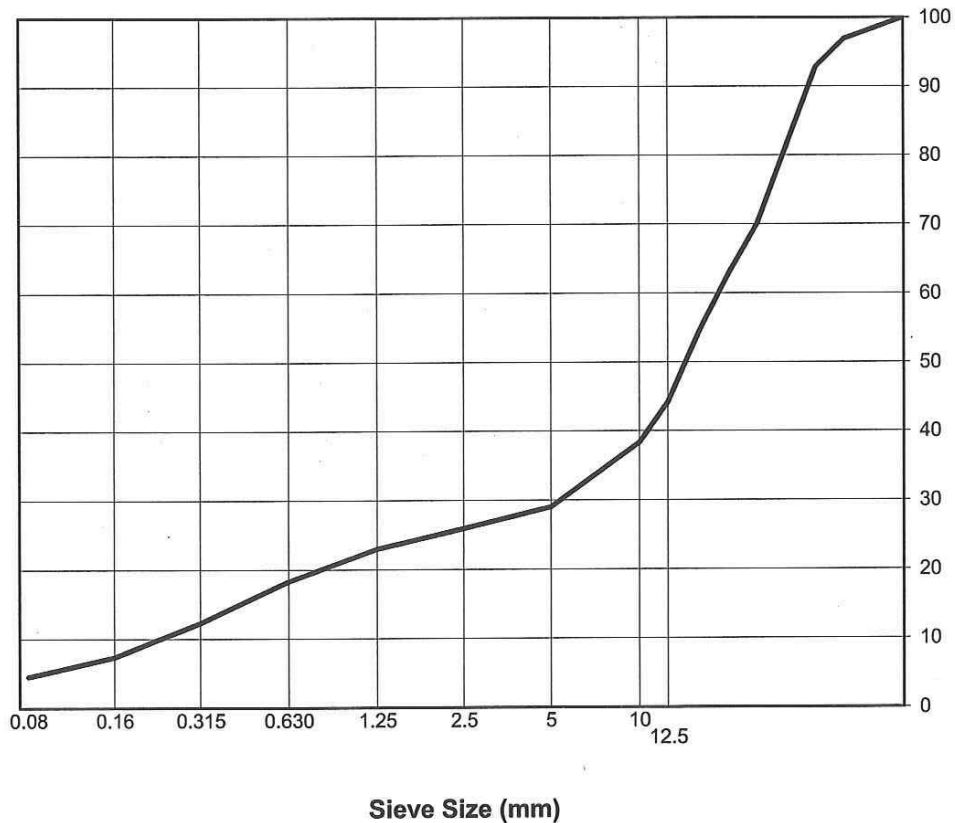
Washed Sieve: ASTM C136 and C117

Project No.: V33101023
Project: Call #3 - Geo.Inv.at Alaska Hwy km 509
Client: Public Works & Govt. Services Canada
Attention: John Gerolamy
Email: john.Gerolamy@gwgsc-tpsgc.gc.ca
Description: GRAVEL - sandy, trace silt
Source: Kledo Pit
Sample Location: Depth: 1.2m - 1.8m

Sample No.: TP 2 - 4
Date Sampled: June 4, 2009
Sampled by: _____
Date Tested: July 1, 2009
Tested by: MC Office: Edmonton
Moisture Content: 4.1%
No. Crushed Faces Two (2) or Three (3)
Crushed Faces _____

Supplier: _____

Sieve Size	Percent Passing
80	100
50	97
40	93
25	70
20	63
16	55
12.5	44
10	38
5	29
2.5	26
1.25	23
0.63	18
0.315	12
0.16	7
0.08	4.5



Remarks:

Granular Subsurface Investigation

Reviewed By: _____ P.Eng

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GRANULAR EVALUATION		CLIENT: PWGSC		TESTPIT NO: V33101023-TP25	
Kledo Creek Source		EXCAVATOR: CAT 322B		PROJECT NO: V33101023	
North of Fort Nelson, BC		6519645N; 471675E; Zone 10			
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB SAMPLE	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> BULK	<input type="checkbox"/> CRREL CORE
BACKFILL TYPE		<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT
		<input type="checkbox"/> SHELBY TUBE	<input type="checkbox"/> GRAB CORE	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND

Depth (m)	LITHOLOGICAL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	GROUND ICE DESCRIPTION AND COMMENTS	<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Bulk Density (kg/m³) 500 1000 1500 2000 </div> <div> <input type="checkbox"/> PLASTIC M.C. LIQUID 20 40 60 80 </div> </div>	<div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> CLAY (%) 20 40 60 80 </div> <div> <input checked="" type="checkbox"/> SILT (%) 20 40 60 80 </div> <div> <input checked="" type="checkbox"/> SAND (%) 20 40 60 80 </div> <div> <input checked="" type="checkbox"/> GRAVEL (%) 20 40 60 80 </div> </div>	Depth (ft)
0	LFH 0 to 5 cm SILT - organics, damp, loose, dark brown SAND - trace silt, fine grained, poorly graded, damp, loose, dark brown		1				0
1	GRAVEL - sandy, some cobbles, trace boulders, trace silt; sand is medium grained, grey-brown		2				1
2			3				2
3			4				3
4	END OF TEST PIT @ 4.0 m - excessive sloughing - standing water						4
5							5
6							6
6.5							6.5



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REVIEWED BY: JTD

DRAWING NO:

COMPLETION DEPTH: 4m

COMPLETE: 6/11/2009

Page 1 of 1

SIEVE ANALYSIS REPORT

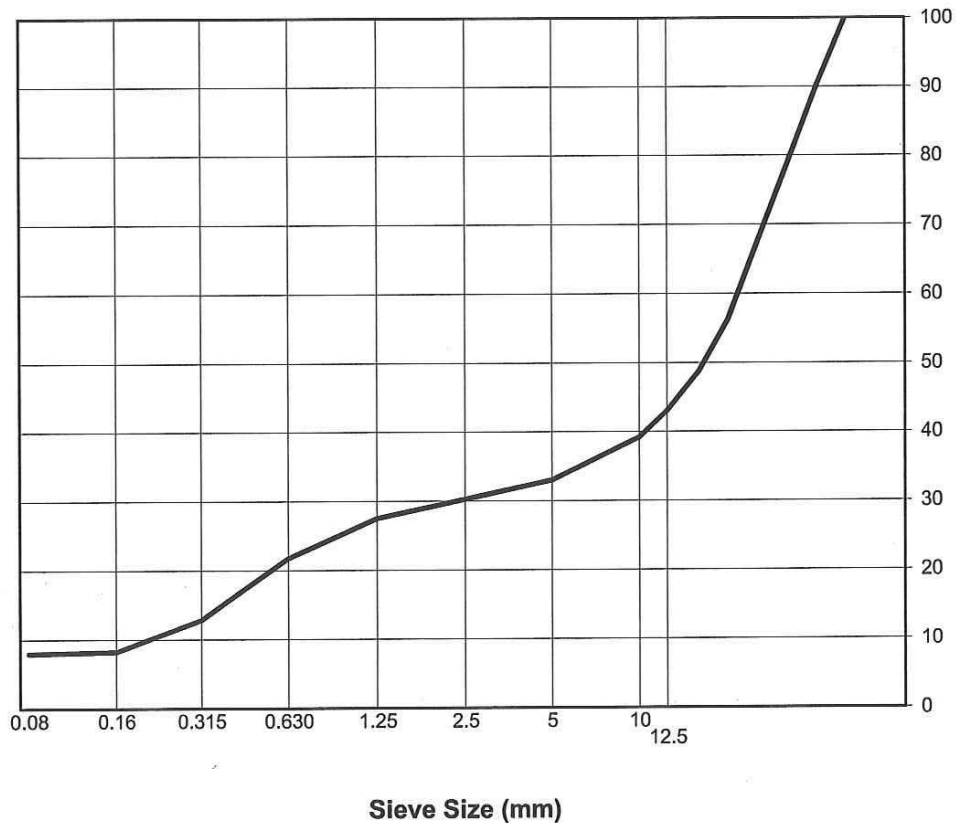
Washed Sieve: ASTM C136 and C117

Project No.: V33101023
Project: PWGSC SO Call#3-Geo.Inv.at Alaska H
Client: Public Works & Govt. Services Canada
Attention: John Gerolamy
Email: john.Gerolamy@gwgsc-tpsgc.gc.ca
Description: GRAVEL - sandy, trace silt
Source: Kledo Pit
Sample Location: Depth: 1.5m - 2.0m

Sample No.: TP 25 - 2
Date Sampled: June 11, 2009
Sampled by:
Date Tested: July 28, 2009
Tested by: MC Office: Edmonton
Moisture Content: 3.4%
No. Crushed Faces Two (2) or Three (3)
Crushed Faces

Supplier:

Sieve Size	Percent Passing
50	100
40	90
25	67
20	56
16	49
12.5	43
10	39
5	33
2.5	30
1.25	28
0.63	22
0.315	13
0.16	8
0.08	8.0



Remarks:

Granular Subsurface Investigation

Reviewed By: _____ P.Eng

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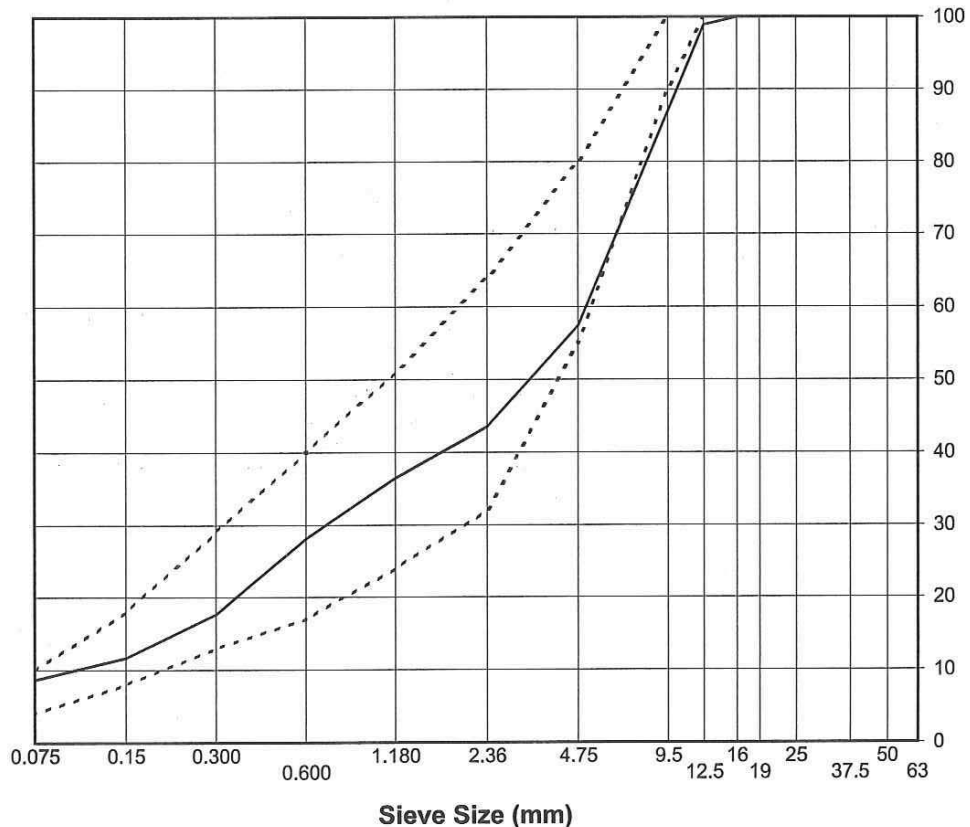
SIEVE ANALYSIS REPORT

Washed Sieve: ASTM C136 and C117

Project No.: V33101023
Project: Call #3 - Geo.Inv.at Alaska Hwy km 509
Client: Public Works & Govt. Services Canada
Attention: John Gerolamy
Email: john.Gerolamy@gwgsc-tpsgc.gc.ca
Description: Sand & Gravel (12.5mm Max Crushed)
Source: Kledo Pit
Supplier:
Sample Location: Depth: 1.5-2.0m

Sample No.: TP 25-2
Date Sampled: June 11, 2009
Sampled by:
Date Tested: August 5, 2009
Moisture Content (as received): 3.0%
Two Crushed Faces 50%
Coarse Fine
Relative Density (OD) 2.59 N/T
Relative Density (SSD) 2.62 N/T
Apparent Relative Density 2.68 N/T
Absorption 1.3% N/T

Sieve Size	Percent Passing
16	100
12.5	99
9.5	87
4.75	57
2.36	43
1.18	36
0.600	28
0.300	18
0.150	12
0.075	8.7



Remarks: Table 02741-8 Coarse Aggregate Grading Requirements

Test Pit sample laboratory crushed to passing 12.5 mm. Plasticity (ATT 54): Non-Plastic Medium.

Tested by: SB Office: Edmonton Reviewed By: P.Eng

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GRANULAR EVALUATION		CLIENT: PWGSC		TESTPIT NO: V33101023-TP26		
Kledo Creek Source		EXCAVATOR: CAT 322B		PROJECT NO: V33101023		
North of Fort Nelson, BC		6519802N; 471768E; Zone 10				
SAMPLE TYPE <input type="checkbox"/> GRAB SAMPLE <input type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> BULK <input type="checkbox"/> CRREL CORE <input type="checkbox"/> SHELBY TUBE <input type="checkbox"/> GRAB CORE						
BACKFILL TYPE <input type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND						
Depth (m)	LITHOLOGICAL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	GROUND ICE DESCRIPTION AND COMMENTS	<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Bulk Density(kg/m³) 500 1000 1500 2000 </div> <div> <input type="checkbox"/> CLAY (%) 20 40 60 80 <input type="checkbox"/> SILT (%) 20 40 60 80 <input type="checkbox"/> SAND (%) 20 40 60 80 <input type="checkbox"/> GRAVEL (%) 20 40 60 80 </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div> <input type="checkbox"/> PLASTIC M.C. LIQUID 20 40 60 80 </div> </div>	Depth (ft)
0	LFH 0 to 4 cm SILT - organics, damp, loose, dark brown SAND - trace silt, fine grained, poorly graded, damp, loose, dark brown		1			0
1	GRAVEL - sandy, some cobbles, trace boulders, trace silt, rounded, medium grained, grey brown		2			
2	SAND (~40%) and GRAVEL (~40%) - some cobbles (~15%), trace boulders		3 4			5
3			5			10
4			6			15
5	END OF TEST PIT @ 4.5 m - excessive sloughing - standing water					20
6						21
6.5						

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REVIEWED BY: JTD
DRAWING NO:

COMPLETION DEPTH: 4.5m
COMPLETE: 6/11/2009
Page 1 of 1

SIEVE ANALYSIS REPORT

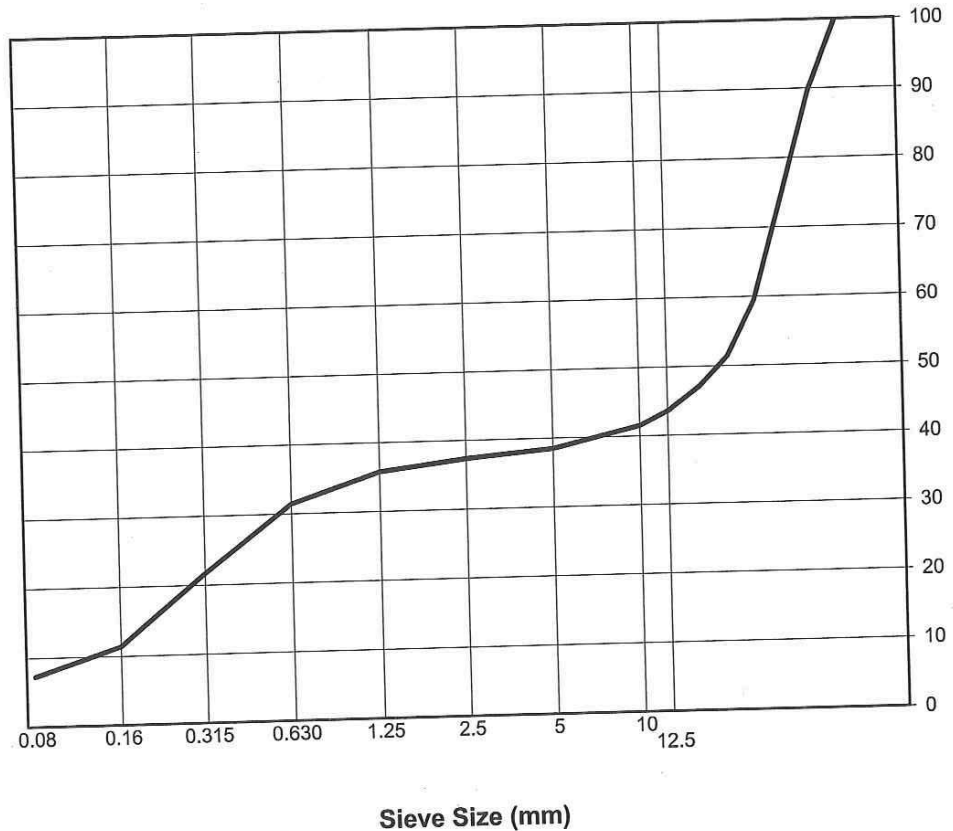
Washed Sieve: ASTM C136 and C117

Project No.: V33101023
Project: PWGSC SO Call#3-Geo.Inv.at Alaska H
Client: Public Works & Govt. Services Canada
Attention: John Gerolamy
Email: john.Gerolamy@gwgsc-tpsgc.gc.ca
Description: GRAVEL - sandy, trace silt
Source: Kledo Pit
Sample Location: Depth: 1.6m - 2.2m

Sample No.: TP 26 - 3
Date Sampled: June 11, 2009
Sampled by: _____
Date Tested: July 28, 2009
Tested by: MC Office: Edmonton
Moisture Content: 5.2%
No. Crushed Faces Two (2) or Three (3)
Crushed Faces _____

Supplier: _____

Sieve Size	Percent Passing
50	100
40	90
25	59
20	51
16	47
12.5	44
10	42
5	39
2.5	37
1.25	36
0.63	31
0.315	22
0.16	11
0.08	7.3



Remarks: _____

Granular Subsurface Investigation

Reviewed By: _____ P.Eng

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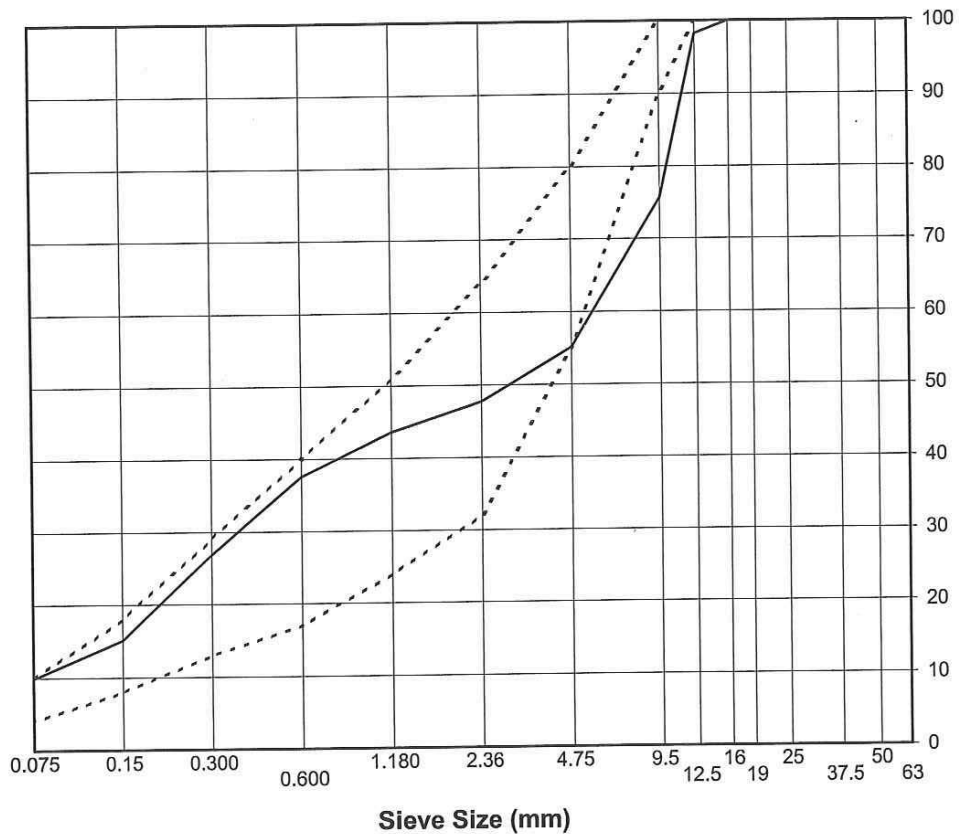
SIEVE ANALYSIS REPORT

Washed Sieve: ASTM C136 and C117

Project No.: V33101023
Project: Call #3 - Geo.Inv.at Alaska Hwy km 509
Client: Public Works & Govt. Services Canada
Attention: John Gerolamy
Email: john.Gerolamy@gwgsc-tpsgc.gc.ca
Description: Sand & Gravel (12.5mm Max Crushed)
Source: Kledo Pit
Supplier: _____
Sample Location: Depth: 1.6-2.2m

Sample No.: TP 26-3
Date Sampled: June 11, 2009
Sampled by: _____
Date Tested: August 5, 2009
Moisture Content (as received): 3.9%
Two Crushed Faces 50%
Relative Density (OD) 2.59 N/T
Relative Density (SSD) 2.62 N/T
Apparent Relative Density 2.68 N/T
Absorption 1.2% N/T

Sieve Size	Percent Passing
16	100
12.5	98
9.5	76
4.75	55
2.36	48
1.18	44
0.600	38
0.300	27
0.150	15
0.075	9.9



Remarks: Table 02741-8 Coarse Aggregate Grading Requirements

Test Pit sample laboratory crushed to passing 12.5 mm. Plasticity (ATT 54): Non-Plastic Friable.


Tested by: SB Office: Edmonton Reviewed By: _____ P.Eng

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GRANULAR EVALUATION		CLIENT: PWGSC	TESTPIT NO: V33101023-TP29
Kledo Creek Source		EXCAVATOR: CAT 322B	PROJECT NO: V33101023
North of Fort Nelson, BC		6519906N; 471602E; Zone 10	
SAMPLE TYPE	<input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> BULK	<input type="checkbox"/> CRREL CORE <input type="checkbox"/> GROUT <input type="checkbox"/> SHELBY TUBE <input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> GRAB CORE <input type="checkbox"/> SAND
BACKFILL TYPE	<input type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH		

Depth (m)	LITHOLOGICAL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	GROUND ICE DESCRIPTION AND COMMENTS	<input type="checkbox"/> Bulk Density(kg/m³) 500 1000 1500 2000 PLASTIC M.C. LIQUID 20 40 60 80	◆ CLAY (%) ◆ 20 40 60 80 ● SILT (%) ● 20 40 60 80 ▲ SAND (%) ▲ 20 40 60 80 ■ GRAVEL (%) ■ 20 40 60 80	Depth (ft)
0	LFH 0 to 5 cm						0
	SILT - organics, damp, loose, dark brown to black						
	SAND - trace organics, rounded, damp, loose, dark brown		1				
1							
	GRAVEL - sandy, trace cobbles, trace boulders, trace silt, rounded		2				
2							
3			3				
4			4				
4.2	END OF TEST PIT @ 4.2 m - excessive sloughing - standing water						
5							
6							
6.5							

 EBA Engineering Consultants Ltd.	LOGGED BY: T. Takeda	COMPLETION DEPTH: 4.2m
	REVIEWED BY: JTD	COMPLETE: 6/12/2009
	DRAWING NO:	Page 1 of 1

GRANULAR EVALUATION		CLIENT: PWGSC		TESTPIT NO: V33101023-TP30			
Kledo Creek Source		EXCAVATOR: CAT 322B		PROJECT NO: V33101023			
North of Fort Nelson, BC		6519890N; 471348E; Zone 10					
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> BULK <input type="checkbox"/> CRREL CORE <input type="checkbox"/> SHELBY TUBE <input type="checkbox"/> GRAB CORE							
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input checked="" type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND							
Depth (m)	LITHOLOGICAL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	GROUND ICE DESCRIPTION AND COMMENTS	<input type="checkbox"/> Bulk Density(kg/m³) <input type="checkbox"/> 500 1000 1500 2000	<input type="checkbox"/> CLAY (%) <input type="checkbox"/> 20 40 60 80	Depth (ft)
					PLASTIC M.C. LIQUID 20 40 60 80	<input type="checkbox"/> SILT (%) <input type="checkbox"/> 20 40 60 80	
0	LFH 0 to 5 cm SILT - organics, damp, loose, dark brown		1				0
	GRAVEL - sandy, some cobbles, trace boulders, rounded; sand is medium grained, poorly graded, damp, loose, grey brown		2				
1			3				
2			4				
2.7	END OF TEST PIT @ 2.7 m - excessive sloughing - standing water						
3							
4							
5							
6							
6.5							



EBA Engineering Consultants Ltd.

LOGGED BY: T. Takeda

REVIEWED BY: JTD

DRAWING NO:

COMPLETION DEPTH: 2.7m

COMPLETE: 6/12/2009

Page 1 of 1

SIEVE ANALYSIS REPORT

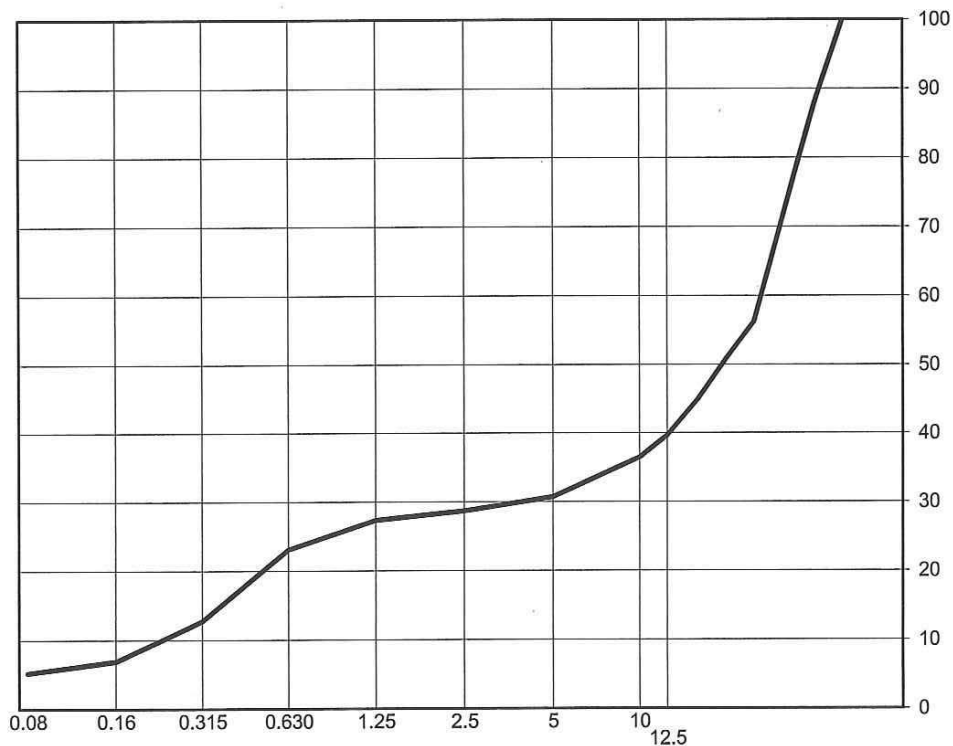
Washed Sieve: ASTM C136 and C117

Project No.: V33101023
Project: Call #3 - Geo.Inv.at Alaska Hwy km 509
Client: Public Works & Govt. Services Canada
Attention: John Gerolamy
Email: john.Gerolamy@gwgsc-tpsgc.gc.ca
Description: GRAVEL - sandy, trace silt
Source: Kledo Pit
Sample Location: Depth: 1.0-1.5m

Sample No.: TP 30-3
Date Sampled: June 12, 2009
Sampled by: _____
Date Tested: July 27, 2009
Tested by: SB Office: Edmonton
Moisture Content: 3.9%
No. Crushed Faces Two (2) or Three (3)
Crushed Faces _____

Supplier: _____

Sieve Size	Percent Passing
50	100
40	88
25	56
20	51
16	45
12.5	40
10	36
5	31
2.5	29
1.25	27
0.63	23
0.315	13
0.16	7
0.08	5.2



Sieve Size (mm)

Remarks:

Granular Subsurface Investigation

Reviewed By: _____ P.Eng

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SIEVE ANALYSIS REPORT

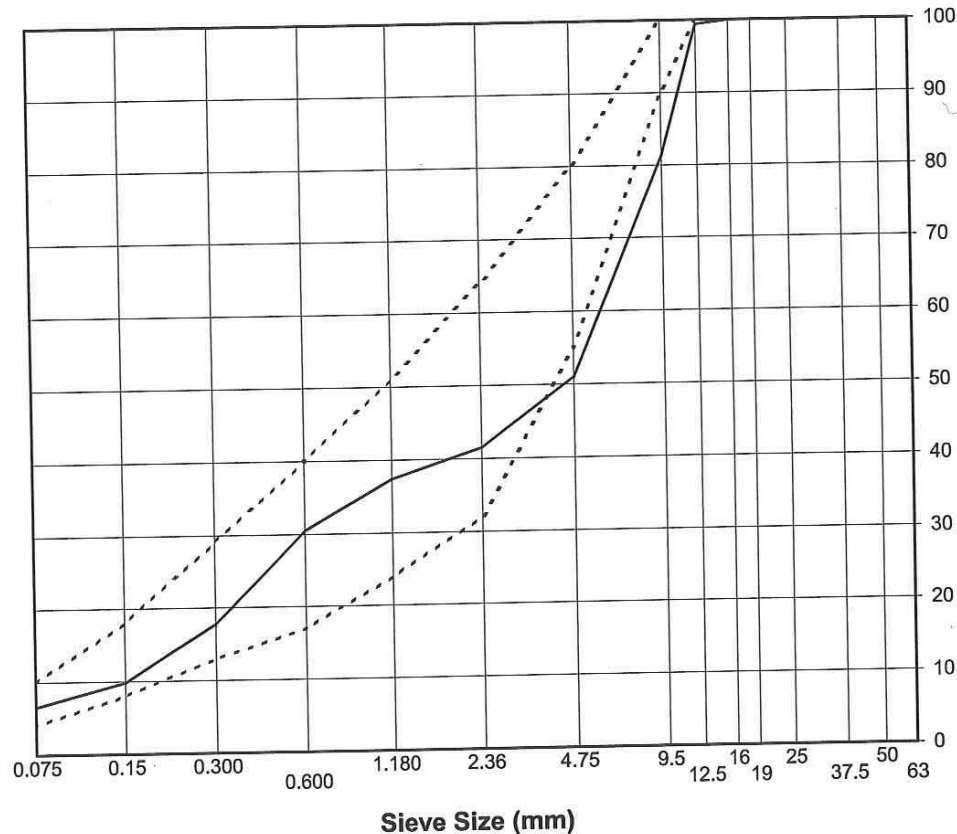
Washed Sieve: ASTM C136 and C117

Project No.: V33101023
 Project: Call #3 - Geo.Inv.at Alaska Hwy km 509
 Client: Public Works & Govt. Services Canada
 Attention: John Gerolamy
 Email: john.Gerolamy@gwgsc-tpsgc.gc.ca
 Description: Sand & Gravel (12.5mm Max Crushed)
 Source: Kledo Pit
 Supplier:
 Sample Location: Depth: 1.0-1.5m

Sample No.: TP 30-2
 Date Sampled: June 12, 2009
 Sampled by:
 Date Tested: August 5, 2009
 Moisture Content (as received): 3.6%
 Two Crushed Faces 50%

	Coarse	Fine
Relative Density (OD)	2.59	N/T
Relative Density (SSD)	2.62	N/T
Apparent Relative Density	2.68	N/T
Absorption	130.0%	N/T

Sieve Size	Percent Passing
16	100
12.5	99
9.5	81
4.75	51
2.36	42
1.18	37
0.600	30
0.300	18
0.150	10
0.075	6.6



Remarks: Table 02741-8 Coarse Aggregate Grading Requirements
 Test Pit sample laboratory crushed to passing 12.5 mm. Plasticity (ATT 54): Non-Plastic Friable.


Tested by: SB Office: Edmonton Reviewed By: P.Eng

Data presented hereon is for the sole use of the stipulated client. EBA is not responsible, nor can be held liable, for use made of this report by any other party, with or without the knowledge of EBA. The testing services reported herein have been performed by an EBA technician to recognized industry standards, unless otherwise noted. No other warranty is made. These data do not include or represent any interpretation or opinion of specification compliance or material suitability. Should engineering interpretation be required, EBA will provide it upon written request.

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GRANULAR EVALUATION		CLIENT: PWGSC		TESTPIT NO: V33101023-TP31	
Kledo Creek Source		EXCAVATOR: CAT 322B		PROJECT NO: V33101023	
North of Fort Nelson, BC		6919745N; 471483E; Zone 10			
SAMPLE TYPE		<input type="checkbox"/> GRAB SAMPLE	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> BULK	<input type="checkbox"/> CRREL CORE
BACKFILL TYPE		<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT
		<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND	<input type="checkbox"/> SHELBY TUBE	<input type="checkbox"/> GRAB CORE

Depth (m)	LITHOLOGICAL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	GROUND ICE DESCRIPTION AND COMMENTS	Bulk Density (kg/m³)		PLASTIC M.C. LIQUID		CLAY (%)		SILT (%)		SAND (%)		GRAVEL (%)		Depth (ft)
					500	1000	20	40	60	80	20	40	60	80	20	40	
0	LFH 0 to 5 cm SILT - organics, damp, loose, dark brown																0
	SAND - silty, fine grained, poorly graded damp, loose, dark brown		1														
1	GRAVEL - some sand, some cobbles, trace boulders, trace silt, rounded		2														
2	- sand is medium grained		3														
3			4														
4			5														
5	END OF TEST PIT @ 5.0 m - excessive sloughing - standing water																
6																	
6.5																	

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		REVIEWED BY: JTD	COMPLETE: 6/12/2009
		DRAWING NO:	Page 1 of 1

GRANULAR EVALUATION		CLIENT: PWGSC		TESTPIT NO: V33101023-TP32	
Kledo Creek Source		EXCAVATOR: CAT 322B		PROJECT NO: V33101023	
North of Fort Nelson, BC		6519550N; 471401E; Zone 10			
SAMPLE TYPE		<input type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> BULK <input type="checkbox"/> CRREL CORE <input type="checkbox"/> SHELBY TUBE <input type="checkbox"/> GRAB CORE			
BACKFILL TYPE		<input type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND			

Depth (m)	LITHOLOGICAL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	GROUND ICE DESCRIPTION AND COMMENTS	Bulk Density(kg/m³) 500 1000 1500 2000 PLASTIC M.C. LIQUID 20 40 60 80	CLAY (%) 20 40 60 80 SILT (%) 20 40 60 80 SAND (%) 20 40 60 80 GRAVEL (%) 20 40 60 80	Depth (ft)
0	LFH 0 to 4 cm SILT - damp, loose, dark brown		1				0
1	SAND and GRAVEL - some cobbles, trace boulders, trace silt, rounded		2				3
2							6
3	END OF TEST PIT @ 2.5 m - excessive sloughing - standing water						9
4							12
5							15
6							18
6.5							21

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	REVIEWED BY: JTD	COMPLETE: 6/12/2009
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