IZOK PROJECT FEASIBILITY STUDY WINTER HAUL ROAD

SUBMITTED TO:

Metall Mining Corporation
Edmonton, Alberta
and
Bechtel/CESL Joint Venture
Vancouver, B.C.

PREPARED BY:

EBA Engineering Consultants Ltd. Edmonton, Alberta

0101-11159

August, 1993 Revised October, 1993



D006622



2.2 BORROW EVALUATION PROGRAM

2.2.1 General Approach

A reconnaissance and evaluation of potential borrow sources was carried out during the period July 9 to July 16, 1993. The reconnaissance program was undertaken before sampling locations were chosen. This allowed a site assessment priority system to be implemented.

The various components of the borrow evaluation program are discussed in the following sub-sections.

2.2.2 Airphoto Interpretation/Data Review

Pre-field assessment included an airphoto study, a review of available geological and 1:50,000 NTS maps, and a cursory search of published geologic reports. The airphoto work was conducted by J.D. Mollard using the existing high level airphotos. Some of the airphotos used date back to 1954.

All potential source areas in the vicinity of the proposed winter haul road were identified from the available geologic data and airphotos.

2.2.3 Summer Reconnaissance and Sampling Program

The purpose of the summer borrow reconnaissance program was to examine all potential sources to select those that are required for pad construction. Samples were obtained from the selected sources for laboratory testing. The factors that were considered in selecting or rejecting any potential borrow source were:

- Material requirements in the vicinity of the source.
- Accessibility, haul distance and haul road grades.
- Material gradation, and quality.
- Potential volume, thickness, aerial extent, and variability.
- Drainage, relief, and pit development hazards.



A total of 40 shallow test pits were hand-excavated to obtain bulk samples approximately 20 kilograms in size from the upper layers of the granular deposit. All test pits were confined to the active layer, which was greater than 1 m thick at the time of the sampling program. These samples were retained for particle size distribution analysis and classification. All samples obtained during the summer borrow exploration program were delivered to EBA's Yellowknife laboratory. All laboratory testing was conducted in accordance with CSA procedures and specifications. Test results are presented in the Appendix B. The laboratory program performed included:

- Washed particle size analysis
- Natural moisture content
- Visual classification of soil

The stratigraphy of ice-contact glaciofluvial deposits can be complex. Eskers are composed of stratified, often cross-bedded, sands and gravel's. Gradation analyses, for the samples obtained from the active layer, indicate that the material is highly variable. The material sampled varies from fine-grained sand to coarse-grained sandy gravel. The sand content for the samples analyzed ranged from 12 to 99 percent with the average being 64 percent. The fines content i.e. material with particle size less than 80 microns, for these samples averaged less than 2 percent. The variation in moisture content for samples obtained ranged from 1 to 6 percent, although most were less than 3 percent.

The sample locations and deposit outlines are illustrated on the 1:50,000 photo mosaics presented in Volume II of this report. The approximate aerial extent of the deposits was determined on the basis of the site reconnaissance. The estimated volume of granular material available at each of the 47 granular resource deposits are presented in Table No. A.1 in Appendix A. The surface area and associated thickness has been estimated on the basis of the site reconnaissance and terrain information obtained from high level airphotos.



APPENDIX A

IZOK PROJECT FEASIBILITY STUDY WINTER HAUL ROAD

TABLE No. A.1
GRANULAR DEPOSIT SUMMARY

Test pits



GRANULAR	LANDFORM	ESTIMATED	i	JTM LOCATIO	N .	SAMPLE	MOISTURE	USC	SOIL
DEPOSIT		VOLUME	ZONE	NORTHING	EASTING	NUMBER	CONTENT		DESCRIPTION
		(cu. m)	:	(m)	(m)		(%)		
. 1	Esker	50,000	12	7 282 789	417 490	13	1.1	SP	SAND AND GRAVEL-trace silt
2	Outwash	Limited	12	7 283 113	415 211	12	2.0	SP	SAND-some gravel, trace sitt
3	Esker	1,000,000 +	12	7 285 890	414 628	10	6.3	GP	GRAVEL AND SAND-trace silt
3	Esker	· -	12	7 286 153	413 991	11	1.9	SP	SAND AND GRAVEL-trace silt
3	Esker	-	12	7 286 244	414 909	9	2.2	SP	SAND AND GRAVEL-trace silt
3	Esker	-	12	7 286 957	412 892	7	1.7	SP	SAND-trace gravel, trace silt
.3	Esker	-	12	7 287 012	412 911	8	2.1	SP	SAND-gravelly, trace silt
4	Esker	1,000,000 +	12	7 286 705	410 893	40	2.2	SP	SAND-trace gravel, trace silt
4	Esker	-	12	7 289 462	407 187	39	1.9	SP	SAND-gravelly, trace silt
4	Esker	•	12	7 293 527	403 791	38	2.4	SP	SAND-trace gravel, trace silt
	Esker/Kame	45,000	12	7 295 545	402 373	37	1.5	SP	SAND-trace gravel, trace silt
6 .	Esker	60,000	12	7 298 525	401 344	36	3.5	SP	SAND-gravelly, trace silt
7	Outwash	Limited	12	7 299 800	403,000	-			
8	Esker	45,000	12	7 301 945	401 279	35	2.4	SP.	SAND-trace gravel, trace silt
9	Outwash	Limited	12	7 304 400	402 600	<u>-</u>			

GRANULAR	LANDFORM	ESTIMATED	Ų	TM LOCATIO	N _	SAMPLE	MOISTURE	USC	SOIL
DEPOSIT		VOLUME	ZONE	NORTHING	EASTING	NUMBER	CONTENT		DESCRIPTION
		(cu. m)		(m)	(m)	,	(%)		
. 10	Outwash	Limited	12	7 306 500	402 350	-			
11	Outwash	Limited	12	7 110 100	402 600	-		÷	
12	Outwash	100,000	12	7 313 368	402 366	34	1.9	SP	SAND AND GRAVEL-trace silt
13	Esker	200,000	12	7 315 204	399 647	33	2.9	GP	GRAVEL-sandy, trace silt
14	Esker	300,000	12	7 317 089	398 561	32	4.1	SP	SAND-trace gravel, trace silt
15	Outwash	Limited	12	7 315 600	402 400	-		-	
16	Outwash	Limited	12	7 320 600	405 000	-			
17	Outwash	Limited	12	7 321 800	403 400	-			
18	Esker	1,000,000 +	12	7 356 774	387 685	31	0.9	GP	GRAVEL-sandy, trace silt
19	Esker	1,000,000 +	12	7 364 315	391 722	30	3.1	G W/G M	GRAVEL AND SAND-trace silt
19	Esker		12	7 365 392	389 829	29	2.6	SP/SM	SAND AND GRAVEL-trace silt
19 i	Esker	-	12	7 369 583	385 461	28	3.2	GP	GRAVEL AND SAND-trace silt
20	Esker	300,000	12	7 372 858	382 265	27	2.9	GP	GRAVEL AND SAND-trace silt
20	Esker	-	12	7 376 832	382 653	26	1.9	sw	SAND AND GRAVEL-trace silt
21	Esker	20,000	12	7 380 300	380 500	•	· .		

	LANDFORM	ESTIMATED		TM LOCATIO	Ň.	SAMPLE	MOISTURE	USC	SOIL
DEPOSIT		VOLUME	ZONE	NORTHING	EASTING	NUMBER	CONTENT		DESCRIPTION
· · · · · · · · · · · · · · · · · · ·		(cu. m)		(m)	(m)		(%)		
22	Esker	40,000	12	7 390 795	380 287	25	3.7	SP	SAND AND GRAVEL-trace silt
23	Esker	Limited	12	7 391 800	377 000	. -			
24	Esker	120,000	12	7 395 260	377 116	24	1.5	GP	GRAVEL AND SAND-trace silt
25	Esker	50,000	12	7 401 601	376 247	23	4.6	SP	SAND-trace gravel, trace silt
26	Esker	35,000	12	7 409 600	371 700	-		:	
27	Esker	400,000	12	7 410 673	372 332	22	2.3	SP	SAND AND GRAVEL-trace silt
27	Esker	-	12	7 415 622	370 732	21	3.4	`SP	SAND-trace gravel, trace sitt
28	Outwash	200,000	11	7 424 220	628 880	20	3.1	SP	SAND AND GRAVEL-trace silt
29	Esker	Limited	11	7 425 450	629 000	-			
30	Esker	Limited	11	7 428 500	627 000	-			
31	Esker	75,000	11	7 430 529	626 217	19	2.0	SP	SAND AND GRAVEL-trace silt
32	Esker	30,000	11	7 434 000	625 000	-		-	
33	Esker	400,000	11	7 439 668	622 320	18	4.0	S P/S M	SAND-trace silt
34	Esker	Limited	11	7 441 400	621 600	-		. j	
35	Esker	Limited	11	7 443 100	621 000	_			

GRANULAR	LANDFORM	ESTIMATED	Ū	TM LOCATIO	N	SAMPLE	MOISTURE	USC	SOIL
DEPOSIT		VOLUME	ZONE	NORTHING	EASTING	NUMBER	CONTENT		DESCRIPTION
		(cu. m)		(m)	(m)		(%)		
36	Esker	25,000	11	7 444 978	620 462	17	1.5	GP	GRAVEL-some sand, trace silt
37	Esker	75,000	11	7 448 848	619 478	16	4.1	S P/S M	SAND-trace gravel, trace silt
38	Outwash	60,000	11	7 464 685	612 418	15	1.6	GW	GRAVEL AND SAND-trace silt
39	Esker	100,000	1:1	7 470 985	611 676	6	1.6	SP	SAND-gravelly, trace sitt
40	Esker	Limited	11	7 474 000	610 150	• :			
41	Outwash	Limited	11	7 485 000	606 000	-			
. 42	Kame	20,000	11	7 490 350	603 500	•			
43	Esker/Kame	35,000	11	7 491 735	600 036	. 5	3.2	SP	SAND-gravelly, trace silt
44	Outwash	Limited	11	7 498 300	605 700	<u>.</u>			
45	Esker	1,000,000 +	11	7 508 725	603 800	. 4	2.0	SP	SAND-trace gravel, trace silt
45	Esker	-	11	7 508 095	601 701	2	1.8	GP	GRAVEL AND SAND-trace silt
45	Esker	•	11	7 508 725	598 916	3	1.7	SP	SAND-gravelly, trace sitt
46	Outwash	400,000	11	7 510 062	601 500	1	2.5	SP	SAND-some gravel, trace silt
47	Outwash	75,000	11	7 512 950	601 625	14	3.3	GP	GRAVEL AND SAND-trace silt

APPENDIX B

IZOK PROJECT FEASIBILITY STUDY WINTER HAUL ROAD

GRAIN SIZE DISTRIBUTION RESULTS



		ct: IZOK PROJECT FEASIBILITY STUDY ss: COMPONENT "C" HAUL ROADS						Sample N				Τ			
_								Sample Lo		UTM ZONE					
	HAUL ROADS	<u> </u>							_	N. 7 282	789				
Project Nu	mber: 0101	<u>-1115</u>	9							E. 417	490				
Date Samp	METALL MINING CORPORATION						Time:				Temp:				
Client: ME	METALL MINING CORPORATION						Date Test	_{ed:} 93/	07/23		By: BL				
#1	#105, 4208 - 97 STREET						Date Tested: 93/07/23 By: BL Natural Moisture Content: 1.1 %								
-	EDMONTON, ALBERTA						Natural Moisture Content: 1.1 % Crushed Faces: Faces:								
	EDMONTON, ALBERTA						Orusilod 1	dccs			10003.				
Attention:	MR. K.J. HII				* ***										
	ption: SAND		PAV	FI	TRACE	SILT OF	CVNICC								
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Remarks:	COLOUR PL	AIL #3	•												
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-							ın		eve sizes	(mm)					
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Sieve	% Passing		100	800		0.16	0.315				<u>بر</u>	ç	12.5	e 2	22
Sieve	% Passing		100	800		0.16	0.315				G	Ş	12.5	2 ⊠	2
			90	800		0.16	0.315				45	Ş	12.5	e &	82
40	100.0		100	800		0.16	0.315				L O	Ş	12.5	9 Q	2
40 25	100.0		90	800		0.16	0.315				\$	ţ	12.5	20 20	25
40 25 20	100.0 93.6 88.7		90 80	800		0.16	0.315				S	Ş	12.5	8 &	25
40 25	100.0		90 80 70 60	800		0.16	0.315				2	ç	12.5	9 R	25
40 25 20 16	100.0 93.6 88.7 83.6		90 80 70	800		0.16	0.315					Ş	12.5	20 20	82
40 25 20 16 12.5	100.0 93.6 88.7 83.6 77.6		90 80 70 60	800		0.16	0.315				2	ş	12.5	90 02	22
40 25 20 16 12.5	100.0 93.6 88.7 83.6 77.6 69.1	PERCENT PASSING	90 80 70 60 50	800		0.16	0.315					Ş	12.5	92 S2	23
40 25 20 16 12.5 10 5	100.0 93.6 88.7 83.6 77.6 69.1 50.7		90 80 70 60	800		0.16	0.315				2	ç	12.5	20	82
40 25 20 16 12.5 10 5 2.5	100.0 93.6 88.7 83.6 77.6 69.1 50.7 37.9		90 80 70 60 50 40 30	800		0.16	0.315					Ş	12.5	91 S2	23
40 25 20 16 12.5 10 5 2.5 1.25	100.0 93.6 88.7 83.6 77.6 69.1 50.7 37.9		90 80 70 60 50	800		0.16	0.315				2	ç	12.5	20	22
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•	OK PROJEC		UILI	3100					Number:				- 11 ∠				
	COMPONENT							Sample	Location								
<u>. </u>	HAUL ROADS	<u> </u>								N. 7	<u> 283 11</u>	3					
Project Nu	mber: 0101	<u>-11159</u>	9							<u>E</u> ,	415 21	<u> </u>					
Date Samp	led: 93/07	/14		By:_MA	V			Time:				_	Temp:	-			
Client: ME	TALL MINING	CORP	ORAT	ION				Date Te	sted: 93	3/07/2	3		By:_BL				
#1	#105, 4208 - 97 STREET							Natural Moisture Content: 2.0 %									
	EDMONTON, ALBERTA							Natural Moisture Content: 2:0 % Crushed Faces: Faces:									
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40	100.0		90 -					0.63	125	-		>	\$	12.5	19	20	es es
40 25 20	100.0 99.4 97.2		90 -					0.63	125	-	4		\$	0 125	91	02	62 4
40 25 20 16	100.0 99.4 97.2 96.0		90 -					0.63	125	-		2	\$	100	1 1	20	g s
40 25 20 16 12.5	100.0 99.4 97.2 96.0 94.0		90 - 80 - 70 - 50 -					0.63	125	-	4		\$	12.5	10	20	ξ2
40 25 20 16 12.5	100.0 99.4 97.2 96.0 94.0 91.0	CENT PASSING	90 -					0.63	125	-			\$	100	16	20	Q S
40 25 20 16 12.5 10	99.4 97.2 96.0 94.0 91.0 86.1		90 - 80 - 70 - 50 -					0.63	125	-			\$	0 123	16	20	Z
40 25 20 16 12.5 10 5	99.4 97.2 96.0 94.0 91.0 86.1 83.4	PERCENT PASSING	90 - 80 - 70 - 60 - 60 - 40 - 30 - 60					0.63	125	-			\$	0 10	19	20	Q S
40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 99.4 97.2 96.0 94.0 91.0 86.1 83.4 78.6 59.9	PERCENT PASSING	90 - 80 - 60 - 50 - 40					0.63	125	-			\$	12.5	10	20	S S
40 25 20 16 12.5 10 5 2.5 1.25 0.63 0.315	100.0 99.4 97.2 96.0 94.0 91.0 86.1 83.4 78.6 59.9	PERCENT PASSING	90 - 80 - 70 - 60 - 60 - 40 - 30 - 60					0.63	125	-			\$	0 12.5	91	20	ez e
40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 99.4 97.2 96.0 94.0 91.0 86.1 83.4 78.6 59.9	PERCENT PASSING	90 - 80 - 70 - 60 - 70 - 40 - 30 - 20 - 70 - 70 - 70 - 70 - 70 - 70 - 7					0.63	125	-			\$	12.5	16	20	S S

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Proiect: IZ	OK PROJEC	T FEASIBIL	ity stu	DY		Sample	Number:	10	Sour	ce #3_			
· —	OMPONENT					•		: UTM Z					
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	nber: 0101								14 628				
· •	ed: 93/07			MAV		Time:					,		
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	05, 4208 -								6.3 %	,			
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_	MR. K.J. HI				5044400								
Soil Descrip	tion: GRAV			CE SILI, O	RGANICS								<u>. </u>
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Reviewed By:

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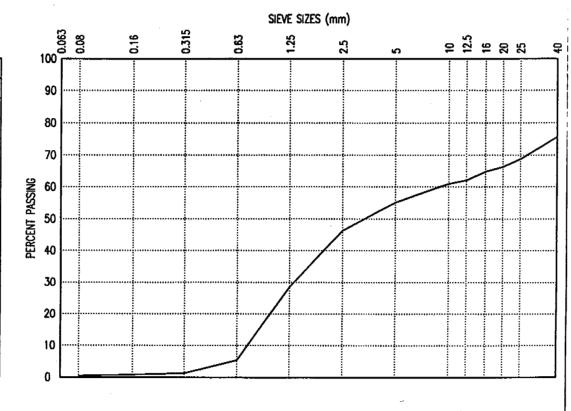
0.315

0.16 80.0

38

Project: IZOK PROJECT FEASIBILITY STUDY Address: COMPONENT "C" HAUL ROADS Project Number: 0101-11159	Sample Number: 11 Source #3 Sample Location: UTM ZONE 12 N. 7 286 153 E. 413 991
Date Sampled: 93/07/13 By: MAV Client: METALL MINING CORPORATION #105, 4208 - 97 STREET EDMONTON, ALBERTA	Time: Temp: Date Tested: 93/07/23 By: BL Natural Moisture Content: 1.9 % Crushed Faces: Faces:
Attention: MR. K.J. HILL Soil Description: SAND AND GRAVEL, TRACE SILT, ORGANICS — MEDIUM BROWN. Remarks: COLOUR PLATE #3.	

Sieve	% Passing
80	100.0
50	78.9
40	75.6
25	68.8
20	66.3
16	64.8
12.5	62.1
10	61.0
5	55.2
2.5	46.3
1.25	28.5
0.63	5.4
0.315	1.3
0.16	8.0
0.08	0.6



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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.

	IZOK PROJEC COMPONENT		JILIT			<u> </u>		Number: Location:			ce #3	3		
_	HAUL ROAD						Sumple		N. 7 286					
	umber: 0101								E. 414		<u> </u>			
_				o. MAV	<u> </u>		Times	_			T			
	mpled: 93/07/13 By: MAV METALL MINING CORPORATION								Temp: Rv: BL					
	#105 4000 07 CTDEFT													
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	140 14 1 1111													
_	MR. K.J. HII													
Soil Descri	iption: SAND	AND GR	avel,	TRACE	SILT, OF	RGANICS -	– DARK B	ROWN						
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Sieve	% Passing	10	0.063	97.7	0.16	0.315	0.63	·		S	<u> </u>	12.5	16 20	52
			0,063	0000	0.16	0.315	0.63	·		S	Ç	12.5	16	25
50	100.0		0	000	0.16		0.63	·	25		Ç	12.5	16 20	25
50 40	100.0	9	0	00.7	0.16		0.63	1.25	2.5			12.5	16	25
50 40 25	100.0 96.0 92.6	9	o	0000	0.16		0.63	1.25	2.5			12.5	16	25
50 40 25 20	100.0 96.0 92.6 88.9	9 8 7	o	900	0.16		0.63	1.25	2.5			12.5	16	25
50 40 25 20 16	100.0 96.0 92.6 88.9 85.0	9 8 7	o	977	0.16		0.63	1.25	2.5			12.5	16	52
50 40 25 20 16 12.5	100.0 96.0 92.6 88.9 85.0 82.2	9 8 7	0	900	0.16		0.63	1.25	2.5			12.5	16	25
50 40 25 20 16 12.5	100.0 96.0 92.6 88.9 85.0 82.2 76.4	9 8 7	0	977	0.16		0.63	1.25	2.5			12.5	16	25
50 40 25 20 16 12.5 10	100.0 96.0 92.6 88.9 85.0 82.2 76.4 57.7	9 8 7/ 9NISSW	0	0000	0.16		0.63	1.25	2.5			12.5	16	25
50 40 25 20 16 12.5 10 5	100.0 96.0 92.6 88.9 85.0 82.2 76.4 57.7 38.6	9 8 7	0	077	0.16		0.63	1.25	2.5			12.5	16	25
50 40 25 20 16 12.5 10 5 2.5 1.25	100.0 96.0 92.6 88.9 85.0 82.2 76.4 57.7 38.6 18.8	PERCENT PASSING 9 9 9 9 30	0	9077	0.16		0.63	1.25	2.5			12.5	16	25
50 40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 96.0 92.6 88.9 85.0 82.2 76.4 57.7 38.6 18.8 6.5	PERCENT PASSING 99 14 88	0	077	0.16		0.63	1.25	2.5			12.5	16	25
50 40 25 20 16 12.5 10 5 2.5 1.25	100.0 96.0 92.6 88.9 85.0 82.2 76.4 57.7 38.6 18.8	PERCENT PASSING 9 9 9 9 30	0	0000	0.16		0.63	1.25	2.5			12.5	16	25

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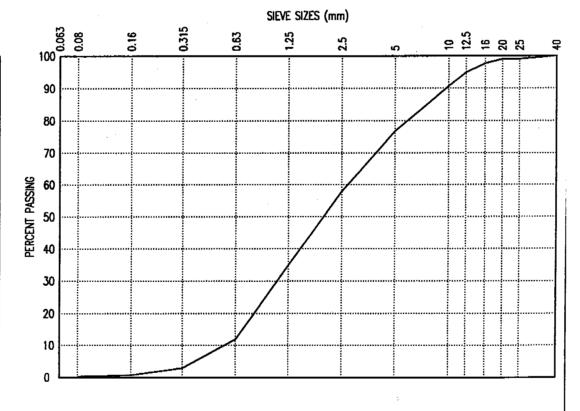
	ZOK PROJEC		IIY SIU	ץע	····	Sample Nur			ce #3			
Address:	COMPONENT	"C"				Sample Loc	ation: <u>UTM</u>	ZONE 12				
1	HAUL ROADS	<u> </u>					<u>N. 7</u>	286 957				_
Project Nu	mber: 0101	-11159			· <u>-</u>		<u>E.</u>	412 892	<u> </u>			
Date Samp	oled: 93/07	/13	By:_W	IAV	_	Time:			Temp:			
-	TALL MINING					Date Tested				-		
	05, 4208 -					Natural Mois						
	MONTON, A					Crushed Fac						
		<u> </u>				01231100 1 01						
Attention:	MR. K.J. HII	 LL										
_	ption: SAND		PAVFI S	SILT ORGAL	VICS - PE	SUMN						
JOH DESCH	haou:	, HVIOL G	WIVEL, C	JEI, ONOM	1100 - DI	· · · · · · · · · · · · · · · · · · ·		···				
		· · · · · · · · · · · · · · · · · · ·				-						_
Remarks:_										, , , , , , , , , , , , , , , , , , , 		_
.—												-
. -												
_						SIDA	- C17EC ()					
-			£ &	ω	115		E SIZES (mm)			5		
Sieve	% Passing	100	0.08	. 0.16	0.315		E SIZES (mm)		10	12.5	20	
Sieve	% Passing			0.16	0.315		•		10	12.5	50 E	22
Sieve	% Passing	100		0.16	0.315		•		10	12.5	20	\$2
				0.16	0.315		•		10	12.5	200	25
Sieve 40 25	% Passing 100.0 96.4	90 80		0.16	0.315		•		10	12.5	50	23
40	100.0	90		0.16	0.315		•		10	12.5	20	23
40 25	100.0	90 80 70		0.16	0.315		•		10	12.5	20	52
40 25 20	100.0 96.4 95.0	90 80 70		0.16	0.315		•		10	12.5	20	52
40 25 20 16	100.0 96.4 95.0 94.7	90 80 70		0.16	0.315		•		10	12.5	20	82
40 25 20 16 12.5	100.0 96.4 95.0 94.7 94.4	90 80 70		0.16	0.315		•		10	12.5	200	25
40 25 20 16 12.5	100.0 96.4 95.0 94.7 94.4 93.6	PERCENT PASSING 20 20 40 40		0.16	0.315		•		10	12.5	20	25
40 25 20 16 12.5 10	100.0 96.4 95.0 94.7 94.4 93.6 91.1	90 80 70		0.16	0.315		•		10	125	20 20	22
40 25 20 16 12.5 10 5 2.5	100.0 96.4 95.0 94.7 94.4 93.6 91.1 87.8	90 80 70 60 60 40 30		0.16	0.315		•		10	12.5	20	23
40 25 20 16 12.5 10 5 2.5 1.25	100.0 96.4 95.0 94.7 94.4 93.6 91.1 87.8 80.2	PERCENT PASSING 20 20 40 40		0.16	0.315		•		10	12.5	20 20	g g
40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 96.4 95.0 94.7 94.4 93.6 91.1 87.8 80.2 48.0	90 80 70 60 60 40 30		0.16	0.315		•		10	12.5	20	2

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3E

Project: IZOK PROJECT FEASIBILITY STUDY	Sample Number: 8 South	rce #3
Address: COMPONENT "C"	Sample Location: UTM ZONE 12	
HAUL ROADS	N. 7 287 012	
Project Number: 0101-11159	E. 412 911	
Date Sampled: 93/07/13 By: MAV	Time:	Temp:
Client: METALL MINING CORPORATION	Date Tested: 93/07/22	By: BL
#105, 4208 - 97 STREET	Natural Maisture Content: 2.1 %	
EDMONTON, ALBERTA	Crushed Faces:	Faces:
Attention: MR. K.J. HILL		
Soil Description: SAND, GRAVELLY, TRACE SILT, ORGANICS		
- MEDIUM BROWN.		
Remarks:		
	,	

Sieve	% Passing
Sieve	76 1 033119
	<u> </u>
40	100.0
25	99.0
20	99.0
16	97.7
12.5	94.9
10	90.7
5	76.7
2.5	57.9
1.25	34.9
0.63	11.9
0.315	2.9
0.16	0.8
0.08	0.3
	- 12 12 12



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Address: C	OK PROJEC COMPONENT IAUL ROADS	"C"	SIBIL	ITY :	STUDY				Sample Nur Sample Loca	ation: U		12	#4		
_	nber:_0101		9								410				
	led: 93/07			Ĥ۷	· MAV	i			Time:				Temn.		
-	TALL MINING								Date Tested					BL .	
	05, 4208 -								Natural Mois						
	MONTON, A								Crushed Fac						
	morrion, 7	DEIT	•						Crusileu rut	.es			ruces.		
Attention	MR. K.J. HIL	1	_												
	otion: SAND,		. CE	Δ\/Γ	ווס ו	C ORG	ANICS		WN						
Soil Describ	ימוסט: בייויטי	IIVACL	_ (31		L, JIL	i, ONG	ANICS	- Bro	HIV.						
в															
Remarks:					,										
_															
_			<u></u>												
_									SIEVE	: SIZES (n	nm)				
- -	97 Daning			80		91:	315			SIZES (n	,				
Sieve	% Passing		100	800	}	0.16	0.315			E SIZES (n	nm)	<u>ب</u>	<u> </u>	2	
Sieve	% Passing		100	800		0.16	0.315	2		_	•	w	Ş	2	
Sieve	% Passing		90	8000		0.16	0.315			_	•	r	ç	2	
Sieve	% Passing			800		0.16	0.33			_	•	ن.	ç	2	
Sieve	% Passing		90	8000		0.16	0.315			_	•	v,	Ç	2	
Sieve	% Passing		90 80 70	800		0.16	0.315			_	•	ις.	Ş	2	
Sieve	% Passing		90 80 70 60	80.0		0.16	0 315			_	•	9	Ç	2	
Sieve	% Passing		90 80 70	800		0.16	0.315			_	•	<i>ν</i>	Ç	2	
		PERCENT PASSING	90 80 70 60	800		0.16	0.315			_	•	5	Ç	2	
10 5 2.5	100.0 99.5 99.3		90 80 70 60 50 40	800		0.16	0 315			_	•	ις.	Ç	2	
10 5 2.5 1.25	100.0 99.5 99.3 97.8		90 80 70 60 50	500		0.16	0335			_	•	<i>σ</i>	Ç	2	
10 5 2.5 1.25 0.63	100.0 99.5 99.3 97.8 76.6	PERCENT PASSING	90 80 70 60 50 40	800		0.16	0 315			_	•	5	Ç	2	
10 5 2.5 1.25	100.0 99.5 99.3 97.8	PERCENT PASSING	90 80 70 60 50 40	800		0.16	0 115			_	•	<i>(</i> 2)	Ç	2	

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4B

•	ZOK PROJEC		101611		/1	••••		Number:			e #4_			
	COMPONENT						Sample	Location:						
	HAUL ROADS						-	_	N. 7 28	9 462				
Project Nu	mber: 0101	<u>-1115</u>	9						E. 407	187				
Date Samp	oled: 93/07	/16		Ву:М	AV		Time:				Temp:_			
Client: ME	TALL MINING	CORP	ORAT	ION			Date Te	sted: 93/	07/26		By:_Bl	L		
-	05, 4208 -							Moisture C						
	MONTON, A							Faces:						
	MONTON, 7	LULIVII	•				_ Crusileu	roces			ruces			
	MD K I DII						-							
	MR. K.J. HII			TOACE	CILT OD	CANICC	-							
Soil Descri	ption: SAND				SILI, UK	DANIC2								
	ME	DIUM E	SKOW	/N.		•					 ,			
Remarks:_										,				
· _			· · · · · · · · · · · · · · · · · · ·											
· _														
· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·									
·								sieve sizes	(mm)					
_ _ Sieve	% Passing		0.063	90.08	0.16	0.315	0.63		(mm)	4		12.5 16	50 5	52
Sieve	% Passing		1000	0.08	0.16	0.315	0.63			<u> </u>	<u>e</u>	12.5	20 2	
Sieve	% Passing		100	0.08	0.16	0.315	0.63		2.5	•		12.5	20	
			90	0.08	0.16		0.63	1.25	2.5			12.5	20 20	25
80 50 40	100.0 87.0 87.0		1	0.08	0.16		0.63	1.25	2.5			12.5	\$ 50 °	52
80 50 40 25	100.0 87.0 87.0 83.5		90	0.08	0.16		0.63	1.25	2.5			12.5	20 2	25
80 50 40 25 20	100.0 87.0 87.0 83.5 80.3		90 80 70	0.08	0.16		0.63	1.25	2.5			12.5	20 3	52
80 50 40 25 20 16	100.0 87.0 87.0 83.5 80.3 78.7		90 80 70	0.08	0.16		0.63	1.25	2.5			12.5	20 2	25
80 50 40 25 20 16 12.5	100.0 87.0 87.0 83.5 80.3 78.7 76.4		90 80 70	0.08	0.16		0.63	1.25	2.5			12.5	20 2	25
80 50 40 25 20 16 12.5	100.0 87.0 87.0 83.5 80.3 78.7 76.4 74.0		90 80 70	0.08	0.16		0.63	1.25	2.5			12.5	20 5	25
80 50 40 25 20 16 12.5 10	100.0 87.0 87.0 83.5 80.3 78.7 76.4 74.0 65.4	PERCENT PASSING	90 80 70	80.0	0.16		0.63	1.25	2.5			12.5	20 20	52
80 50 40 25 20 16 12.5 10 5	100.0 87.0 87.0 83.5 80.3 78.7 76.4 74.0 65.4 54.3		90 80 70	0.08	0.16		0.63	1.25	2.5			12.5	20 20	25
80 50 40 25 20 16 12.5 10 5 2.5 1.25	100.0 87.0 87.0 83.5 80.3 78.7 76.4 74.0 65.4 54.3 38.5		90 - 80 - 70 - 60 - 60 - 40 - 30 - 60	8000	0.16		0.63	1.25	2.5			12.5	20 20	23
80 50 40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 87.0 87.0 83.5 80.3 78.7 76.4 74.0 65.4 54.3 38.5		90 80 70 60 50 40	0.08	0.16		0.63	1.25	2.5			12.5	20	52
80 50 40 25 20 16 12.5 10 5 2.5 1.25 0.63 0.315	100.0 87.0 87.0 83.5 80.3 78.7 76.4 74.0 65.4 54.3 38.5 15.1		90 - 80 - 70 - 70 - 70 - 70 - 70 - 70 - 7	8000	0.16		0.63	1.25	2.5			12.5	20 20	23
80 50 40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 87.0 87.0 83.5 80.3 78.7 76.4 74.0 65.4 54.3 38.5		90 - 80 - 70 - 60 - 60 - 40 - 30 - 60	0.08	0.16		0.63	1.25	2.5			12.5	20	52

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										ζ	1_	
Project: 1	ZOK PROJEC	t feasibil	TY STUD	ΟY		Sample	e Number:	38	Source	#4		
_	COMPONENT			1	111			UTM ZOI				
	HAUL ROADS							N. 7 29				
_	mber: 0101					•		E. 40				
-	oled: 93/07	_				Time						
	TALL MINING	•	*			_		3/07/26				
										iy: <u>DL</u>		
	05, 4208 -		<u> </u>					Content:				
EL	MONTON, AL	LBEKIA				Crushe	d Faces:_		F	aces:		
_	MR. K.J. HIL											
Soil Descri	ption: SAND,	TRACE GR	AVEL, S	ILT, ORGA	NICS - M	edium Br	OWN.					
Remarks:_												
. -												
. —		****										
							SIEVE SIZE	S (mm)				
Sieve	% Passing	6	90.0	0.16	0.315	0.63	1.25	2.5	s.	10 12.5	16	52 5
	T	100					•				7	
		90										
		. 80										
<u> </u>		δU		······································		Ī	/					***************************************
25	100.0	70				/-						
20 16	98.6	울 60										
12.5	98.3 97.2	ASSIN		-								
10	96.8	£ 50				/		·········.				
5	96.0	PERCENT PASSING				/		<u></u>				
2.5	94.2	- 7										
1.25	88.3	30			/							
0.63	60.8	20			/				<u>.</u>			
0.315	24.0	20										
0.16	6.5	10				······						
80.0	1.2	ا ه					į					

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, Reviewed By:_

Project: IZ	OK PROJEC	T FEAS	BILI	Y STUD	Υ		Samp	le Number:	57 So1	urce #5		
Address: C	COMPONENT	"C"					_ Samp	le Location:	UTM ZONE 1	2		
Н	AUL ROADS	5							N. 7 295 54	15		
Project Nun	mber: 0101	-1115	9					_	E. 402 37	3		
•	led: 93/07				AV		 Time:	_		Temp:		
•	TALL MINING				•				07/26			,
	05, 4208 -								ontent: 1.5			
	MONTON, A								Miconic.			
		LULIVIII	•				Crusii	eu ruces		ruces	 	
	MR. K.J. HII	11					_					
			- CD	WEL C	LT ODG	ANICC						
Soil Descrip	otion: SAND	, IIVAC	_ GR	WEL, SI	LI, UKG	ANICS - I	DRUWN.					
	· .											
Remarks:												
_												
_	- 	- 							<u>, ,</u>	, <u>,</u>		·
	T-178-11 to											
•	y- 198+ ba					22		SIEVE SIZES	(mm)		,	
Sieve	% Passing			90.08	0.16	0.315	0.63	Sieve sizes	ing .	o =	12.5	
Sieve	% Passing		100	0.08	0.16	0.315	0.63		· •	° 01	12.5	Ç
Sieve	% Passing	,	100	90.0	0.16	0.315	0.63		· •	s	12.5	Ç
Sieve	% Passing		اسر				0.63	1.25	· •	2 10	12.5	Ç
Sieve	% Passing		90					1.25	· •	s 01	12.5	5
Sieve	% Passing		90					1.25	· •	s	12.5	5
Sieve	% Passing		90					1.25	· •	S 10	12.5	\$
Sieve	% Passing		90 - 80 - 70 - 60 -					1.25	· •	e 10	12.5	5
			90 - 80 - 70 -					1.25	· •	S 10	12.5	Ş
12.5	100.0	PERCENT PASSING	90 - 80 - 70 - 60 -					1.25	· •	6 10	12.5	5
12.5 10 5 2.5	100.0		90 - 80 - 70 - 60 - 50 -					1.25	· •	S 10	12.5	•
12.5 10 5 2.5 1.25	100.0 99.7 94.8 83.1 65.8		90 - 80 - 70 - 60 -					1.25	· •	S 10	12.5	
12.5 10 5 2.5 1.25 0.63	100.0 99.7 94.8 83.1 65.8 43.4		90 - 80 - 70 - 60 - 50 -					1.25	· •	S 01	12.5	5
12.5 10 5 2.5 1.25 0.63 0.315	100.0 99.7 94.8 83.1 65.8 43.4 15.2		90 80 70 60 50 40 30 -					1.25	· •	S 10	12.5	
12.5 10 5 2.5 1.25 0.63	100.0 99.7 94.8 83.1 65.8 43.4		90 80 70 60 70 40 30 70 70 70 70 70 70 7					1.25	· •	S 10	12.5	

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	ZOK PROJEC								36 Sc					
Address:(COMPONENT	"C"					Sample	Location:_	UTM ZONE	: 12				
	HAUL ROADS	<u> </u>					_	_	N. 7 298	525				
Project Nu	mber: 0101	-1115	9				<u> </u>		E. 401	344				
Date Samp	led: 93/07	/16		By: M	AV		Time:				Temp:_			
Client: ME	TALL MINING	CORP	ORAT	TION					07/26		By: BL			
	05, 4208 -						•		ontent: 3.		_,			
•	MONTON, A								oment,		Faces:			
	monion, A	COLIVIA					_ Crustied	ruces			ruces			
	MP K I WII													
	MR. K.J. HII			TDAOC	OUT OF		 							
Soil Descri	ption: SAND	, GRAVI	LLY,	IKACE	SILI, OF	GANICS -	- DARK BRO	JWN.						
Remarks:											-			
	•••													
								_						
	•		+											
-		- 	***************************************			ю		sieve size s	(mm)		·			
Sieve	% Passing	-	2000	0.08	0.16	0.315	0.63		(mm)	ഹ		12.5	2 2 9	<u> </u>
Sieve	% Passing	-	100	0.08	0.16	0.315	0.63			<u> </u>	10	12.5	2 8 2	\$2
80	% Passing		100				0.63	1.25	2.5		10	12.5	2 8 2	GZ .
			90				0.63	1.25	2.5		10	12.5	20 °2	87
80 50 40	100.0 97.1 97.1						0.63	1.25	2.5		10	12.5	° 20 °	g.
80 50 40 25	100.0 97.1 97.1 94.9		90				0.63	1.25	2.5		10	12.5	20 20	Q
80 50 40 25 20	100.0 97.1 97.1 94.9 92.5		90 80 70				0.63	1.25	25		10	12.5	20 2	Ç.
80 50 40 25 20	100.0 97.1 97.1 94.9		90 80 70				0.63	1.25	25		10	12.5	20 20	g
80 50 40 25 20 16 12.5	100.0 97.1 97.1 94.9 92.5 88.8 86.3		90 80 70				0.63	1.25	25		01	12.5	20 2	g.
80 50 40 25 20 16 12.5	100.0 97.1 97.1 94.9 92.5 88.8 86.3 83.3		90 80 70				0.63	1.25	25		10	12.5	20 20	g
80 50 40 25 20 16 12.5 10	100.0 97.1 97.1 94.9 92.5 88.8 86.3 83.3 73.3		90 80 70				0.63	1.25	25		01	12.5	20 10	g.
80 50 40 25 20 16 12.5 10 5	100.0 97.1 97.1 94.9 92.5 88.8 86.3 83.3 73.3 58.2		90 80 70 60 50				0.63	1.25	25		10	12.5	20	g
80 50 40 25 20 16 12.5 10 5 2.5 1.25	100.0 97.1 97.1 94.9 92.5 88.8 86.3 83.3 73.3 58.2 34.3		90 80 70				0.63	1.25	25		01	12.5	20 20	57
80 50 40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 97.1 97.1 94.9 92.5 88.8 86.3 83.3 73.3 58.2 34.3 9.4		90 80 70 60 50				0.63	1.25	25		10	12.5	20 20	72
80 50 40 25 20 16 12.5 10 5 2.5 1.25 0.63 0.315	100.0 97.1 97.1 94.9 92.5 88.8 86.3 83.3 73.3 58.2 34.3 9.4 3.0		90 80 70 60 50 40 30 20				0.63	1.25	25		10	12.5	20 20	8
80 50 40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 97.1 97.1 94.9 92.5 88.8 86.3 83.3 73.3 58.2 34.3 9.4		90 80 70 60 50 40				0.63	1.25	25		10	12.5	20 20	72

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. —	ZOK PROJEC			. 0.00				Number:			e #8			
Address:	COMPONENT	"C"					_ Sample	Location:_	UTM ZONE	12				
	HAUL ROAD	S					_		N. 7 301 9)45 				
Project Nu	mber: 0101	-1115	9				_	_	E. 401 2	79				
Date Samp	oled: 93/07	/16		By: MA	٧		Time:				Temp:			
	TALL MINING					,			07/26					
	05, 4208								ontent: 2.4					
				.1		••			***************************************					
	MONTON, A	LDENIA	\				_ Crushe	d Faces:		—	Faces:			
	MD K I III	1.1					-							
_	MR. K.J. HI		- 004	VE C	T 000		-	18.1						
Soil Descri	ption: SAND	, IKACI	L GRA	WEL, SI	LI, UKG	ANICS - L	JGHT BROW	íN.						
_				_ ,										
Remarks:_	·•.·													
_														
_														
-			•											
-	·					ν.		SIEVE SIZES	(mm)					
Sieve	% Passing		1000	80:0	0.16	0.315	0.63		72 (mm)	S	0	12.5	16 20	40
Sieve	% Passing		100	0.08	0.16	0.315	0.63			2	<u> </u>	12.5	20	4
Sieve	% Passing		100	0.08	0.16	0.315	0.63			5	10	12.5	20	\$
Sieve	% Passing		٦٣٣	0.08	0.16	0.315	0.63			9	10	12.5	20	9
Sieve	% Passing		90 -	0.08	0.16	0.315	0.63			5	8	12.5	20	
			90				0.63	125	25		9	12.5	20	9
20	100.0		90				0.63	125	25		10	12.5	16	\$
			90				0.63	125	25		9	12.5	20	9
20	100.0		90				0.63	125	25		10	12.5	16	4
20 16 12.5	100.0 98.7 97.6		90				0.63	125	25			12.5	20	4
20 16 12.5 10 5	100.0 98.7 97.6 96.8 90.0		90				0.63	125			10	12.5	16 20	\$
20 16 12.5	100.0 98.7 97.6 96.8 90.0 77.5		90				0.63	125	25			12.5	16	4
20 16 12.5 10 5 2.5	100.0 98.7 97.6 96.8 90.0		90 80 70 60 50 40 30				0.63	125	25		10	12.5	16 20	\$
20 16 12.5 10 5 2.5 1.25 0.63	100.0 98.7 97.6 96.8 90.0 77.5 62.0 40.6		90 80 60 50 40				0.63	125	25		<u> </u>	12.5	20	4
20 16 12.5 10 5 2.5 1.25 0.63 0.315	100.0 98.7 97.6 96.8 90.0 77.5 62.0 40.6 12.9		90 80 70 60 50 40 30				0.63	125	25			12.5	16 20	\$
20 16 12.5 10 5 2.5 1.25 0.63	100.0 98.7 97.6 96.8 90.0 77.5 62.0 40.6		90 80 70 60 50 40 20				0.63	125	25		10	12.5	16	4

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Project: 12	OK PROJEC	T FEASIE	BILITY S	STUDY		Sample	Number:_	34 s	ource	<u>#12</u>		
Address: (COMPONENT	"C"				Sample	Location:	UTM ZON	E 12			
_ <u>+</u>	HAUL ROADS					·	_	N. 7 313				
Project Nu	mber: 0101	-11159						E. 402	366			
•	led: 93/07/			: MAV		Time:	_	1 3 4 111 11		Temp:		
_	TALL MINING							/07/26		-		
	05, 4208 -							Content: 1.				
-			IVLLI		<u></u>							
	MONTON, AL	LDEINIA				Crushe	a Faces:			Faces:		
	MD V I UII	<u> </u>			<u></u>							
	MR. K.J. HIL		A) (F)	TO 405 CU T	00044400							
Soil Descrip				TRACE SILT,	ORGANICS					<u>-</u>		
	<u>- ME</u>	DIUM BI	ROWN.								_	
Remarks:												
•												
_												
							0.0 E 0.7E					
					5	m	SIEVE SIZES			u		
Sieve	% Passing	10	0.063 0.083	1.0	0.315	9.0	1.25	2.5	'n	2 5	2 92	<u>بر</u>
	<u> </u>	,,										
	100.0	9	90			-						
50 40	100.0 92.6	8	30		<u>!</u>	-						
25	82.7		.									
20	78.3		70									***************************************
16	75.0	PERCENT PASSING	io		<u> </u>	<u>‡</u>		<u> </u>				
12.5	71.1	. ₽¥S										
10	66.1	Ä,	×0			••••••						***************************************
5	55.4	ER 4	ю			<u>i</u>						
2.5	46.6		-					İ				
1.25	34.0		ю									
0.63	17.8	2	0		<u>-</u>							
0.315	3.4				,		***					
0.16	0.9	1	0			<u> </u>					****	
0.08	0.6	(ـــا ر									<u>.</u>

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Project:	ZOK PROJEC	t feasibii	LITY STU	JDY		Sample	e Number:_	33 Source	e #13			
Address: (COMPONENT	"C"				Sample	e Location:_	UTM ZONE 12				
	HAUL ROADS	5				•	_	N. 7 315 20				
•	mber: 0101					•		E. 399 647				
	led: 93/07			MAV		Tana	-					
				NA		_		-	_			
	TALL MINING							07/26		3L		-
<u>#1</u>	05, 4208 -	- 97 SIRI	<u>LEI</u>			. Natura	Il Moisture (Content: 2.9	<u>%</u>			
ED	MONTON, A	LBERTA				Crushe	ed Faces:		Faces	:		
						_						
Attention:	MR. K.J. HII	LL										
	ption: GRAVI		. TRACE	SILT. ORG	ANICS -	BROWN.						
OON DOOON	puon		•							-		
Remarks:												
_												
C:			m		ις.		SIEVE SIZES	(mm)				
Sieve	% Passing	400	0.063	0.16	0.315	0.63	SIEVE SIZES	. (mm)	, ;	10 12.5	16 20	52
Sieve	% Passing	100	0.063	0.16	0.315	0.63	_		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	12.5	16 20	25
2leve	% Passing	100		0.16	0.315		1.25			12.5	16 20	25
50	% Passing	90		0.16			1.25	2.5		10	16 20	25
50	100.0	100		0.16			1.25	2.5		12.5	16 20	23
50 40 25	100.0 83.9 61.9	90					1.25	2.5		12.5	16 20	25
50 40 25 20	100.0 83.9 61.9 55.5	90 80 70					1.25	2.5		12.5	16	25
50 40 25 20 16	100.0 83.9 61.9 55.5 52.3	90 80 70					1.25	2.5		10.5	16 20	25
50 40 25 20 16 12.5	100.0 83.9 61.9 55.5 52.3 48.2	90 80 70					1.25	2.5		12.5	16	25
50 40 25 20 16 12.5	100.0 83.9 61.9 55.5 52.3 48.2 44.5	90 80 70					1.25	2.5		12.5	16 20	25
50 40 25 20 16 12.5 10 5	100.0 83.9 61.9 55.5 52.3 48.2 44.5 36.2	ASSING 80 80 60 60 60 60 60 60 60 60 60 60 60 60 60					1.25	2.5		12.5	16	25
50 40 25 20 16 12.5 10 5 2.5	100.0 83.9 61.9 55.5 52.3 48.2 44.5 36.2 29.6	PERCENT PASSING OP 02 08 06 09					1.25	2.5		12.5	16 20	25
50 40 25 20 16 12.5 10 5 2.5 1.25	100.0 83.9 61.9 55.5 52.3 48.2 44.5 36.2 29.6	90 80 70					1.25	2.5		12.5	16	25
50 40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 83.9 61.9 55.5 52.3 48.2 44.5 36.2 29.6 21.0	PERCENT PASSING OP 02 08 06 09					1.25	2.5		12.5	16	25
50 40 25 20 16 12.5 10 5 2.5 1.25 0.63 0.315	100.0 83.9 61.9 55.5 52.3 48.2 44.5 36.2 29.6 21.0 11.8 7.2	PERCENT PASSING 05 09 04 08 06					1.25	2.5		12.5	16	25
50 40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 83.9 61.9 55.5 52.3 48.2 44.5 36.2 29.6 21.0	PERCENT PASSING 05 09 04 08 06					1.25	2.5		12.5	16	25

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Project: IZOK PROJECT Address: COMPONENT						•		UTM ZON	E 12	#14		
HAUL ROAD						Jumpic 1	.0000011	N. 7 317				
Project Number: 010		1					_	E. 398		•		
Date Sampled: 93/07			. MAV			Times	_					
Client: METALL MININ					· ·			07/26				
						-				By:_BL		
#105, 4208								ontent: 4				
EDMONTON, A	LBERIA					Crushed	Faces:			Faces:_		
Attention: MR. K.J. H												
Soil Description: SAND	, TRACE	GRAVE	L, SILT,	ORGANIC	S – MEI	DIUM BRO	WN.					
Remarks:												
			,									
			1.1.5		٠,	s	ieve sizes	(mm)				
Sieve % Passing		0.063		0.16	0.315	0.63	EVE SIZES	(mm)	٠,	9	·	
Sieve % Passing]	0.063		0.16	0.315				\$	- 2	<u>.</u>	
Sieve % Passing		000		0.16	0.315				3	10		
Sieve % Passing				0.16	0.315				5	0		
Sieve % Passing		90 80		0.16	0.315				ĸ	9		
Sieve % Passing		90		0.16	0.315				S	91		
Sieve % Passing		90 80 70		0.16			1.25	2.5				
Sieve % Passing		90 80 70				98	1.25	2.5				
10 100.0		90 80 70				98	1.25	2.5				
10 100.0 5 99.4	KCENT PASSING	90 80 70				98	1.25	2.5				
10 100.0 5 99.4 2.5 98.9	PERCENT PASSING	90 80 70 50 40				98	1.25	2.5				
10 100.0 5 99.4 2.5 98.9 1.25 97.4	PERCENT PASSING	90				98	1.25	2.5				
10 100.0 5 99.4 2.5 98.9 1.25 97.4 0.63 87.9	PERCENT PASSING	90 80 70 50 40				98	1.25	2.5				
10 100.0 5 99.4 2.5 98.9 1.25 97.4	PERCENT PASSING	90				98	1.25	2.5				

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Project: 12	ZOK PROJEC	T FEASIBIL	ity stu	DY		Sample	Number: 3	1 Sour	rce	#18			
	COMPONENT						Location:						
	HAUL ROADS							ı. 7 356 7					
	mber: 0101			<u>.</u>		•		. 387 68					
			- \	14//						T			
-	led: 93/07			MAY			07./0						
	TALL MINING						ested: 93/0			By: <u>BL</u>			
<u>#1</u>	<u>05, 4208 -</u>	- 97 STRE	ET			. Natural	Moisture Co	ntent: 0.9	%				
_ <u>ED</u>	MONTON, A	LBERTA				Crushe	d Faces:			Faces:_			
						_							
Attention:	MR. K.J. HII	LL											
_	ption: GRAVI		TRACE	SILT. ORGA	NICS - I	Brown.							
Jon Descri			,										
<u>.</u> .													
Remarks:											·-· ·····		
_													
							CIEVE SIZES /	mm)					
_	manga da nga nga nga nga nga nga nga nga nga ng		Z &		<u> </u>	12	SIEVE SIZES (•			-ti		
Sieve	% Passing	100	0.08	0.16	. 0.315	0.63			ις ·	10	12.5	20 %	
Sieve	% Passing	100		0.16	0.315	0.63		•	<u>د</u>	10	12.5	20 25	
		100		0.16	0.315	0.63		•	رم د	10	12.5	2 8 8	
50	100.0	100		0.16				2.5			12.5	2 8	- S
50	100.0	90					1.25	5.5			12.5	2 8 8	\$
50	100.0	90					1.25	5.5			12.5	28 %	\$
50 40 25	100.0 97.2 89.4	90 80 70					1.25	5.5			12.5	2 8	\$
50 40 25 20	100.0 97.2 89.4 76.8	90 80 70					1.25	5.5			12.5	20 %	
50 40 25 20 16	100.0 97.2 89.4 76.8 68.3	90 80 70					1.25	5.5			12.5	2 %	\$
50 40 25 20 16 12.5	100.0 97.2 89.4 76.8 68.3 58.2	90 80 70 9NISSW					1.25	5.5			12.5	20 %	\$
50 40 25 20 16 12.5	100.0 97.2 89.4 76.8 68.3 58.2 50.5	PERCENT PASSING 80 80 80 90 90 90 90 90 90 90 90 90 90 90 90 90					1.25	5.5			12.5	2 2	
50 40 25 20 16 12.5 10 5 2.5 1.25	100.0 97.2 89.4 76.8 68.3 58.2 50.5 35.2	90 80 70					1.25	5.5			12.5	20	\$
50 40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 97.2 89.4 76.8 68.3 58.2 50.5 35.2 21.9 8.6	PERCENT PASSING 80 80 80 90 90 90 90 90 90 90 90 90 90 90 90 90					1.25	5.5			12.5	20 %	
50 40 25 20 16 12.5 10 5 2.5 1.25 0.63 0.315	100.0 97.2 89.4 76.8 68.3 58.2 50.5 35.2 21.9 8.6 1.7	90 90 80 70 90 80 70 40 30 20					1.25	5.5			12.5	20	\$
50 40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 97.2 89.4 76.8 68.3 58.2 50.5 35.2 21.9 8.6	90 80 70 60 50 30					1.25	5.5			12.5	20	

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19A

110,000	OK PROJEC	T FEASIBII	LIT SIU	DY		Sample N	lumber: 3	U Sou	irce	#19			
Address: C	COMPONENT	"C"				Sample L	ocation:	ITM ZONE 1	12				
<u> </u>	IAUL ROADS	5						l. 7 364 <u>3</u>	15				
Project Nur	mber: 0101	-11159						. 391 72	22				
Date Samp	led: 93/07	/16	By:	MAV		Time:				Temp:_			
Client: ME	TALL MINING	CORPOR	ATION					7/24					
#1	05, 4208 -	- 97 STRI		,				ntent: 3.1		. —			
	MONTON, A			•									
	•					0.20.4							
Attention:	MR. K.J. HII	LL											
	otion: GRAVI		ND TRA	ACE SILT. O	RGANICS								
Son Descrip		DIUM GRE		OL DILITO	TIONITIOS.								
Domodio							,						
Remarks:													
			•					· ·			·		
	•					S	eve sizes (mm)					
Cinus	Ф D		.063 .08	16	315		eve sizes (9	2.5		w 0
Sieve	% Passing	100	0.063	0.16	0.315	0.63	EVE SIZES ((mm	<u>\$</u>	5	12.5	2 2	<u> </u>
Sieve	% Passing			0.16			1.25	2.5	S	20	12.5	20 2	g ş
Sieve	% Passing	100 90		0.16		0.63	1.25	7.5			12.5	2 2	22 P
Sieve	% Passing			0.16		0.63	1.25	2.5			12.5	2 2 2	£ \$
40 25	100.0	90				0.63	1.25	7.5				2 8	25
40 25 20	100.0 90.8 84.4	90 80 70				0.63	1.25	2.5				2 8	2 9
40 25 20 16	100.0 90.8 84.4 77.6	90 80 70				0.63	1.25	2.5				2 8	2 9
40 25 20 16 12.5	100.0 90.8 84.4 77.6 71.4	90 80 70				0.63	1.25	5.5					25
40 25 20 16 12.5	100.0 90.8 84.4 77.6 71.4 63.5	90 80 70				0.63	1.25	5.5					25
40 25 20 16 12.5 10	100.0 90.8 84.4 77.6 71.4 63.5 44.8	90 80 70 9NSSV-				0.63	1.25	5.5					25
40 25 20 16 12.5 10 5 2.5	100.0 90.8 84.4 77.6 71.4 63.5 44.8 28.0	90 80 70				0.63	1.25	5.5					25
40 25 20 16 12.5 10 5 2.5 1.25	100.0 90.8 84.4 77.6 71.4 63.5 44.8 28.0	PERCENT PASSING OP 02 08 06				0.63	1.25	5.5					25
40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 90.8 84.4 77.6 71.4 63.5 44.8 28.0 17.8	PERCENT PASSING OP 02 08 06				0.63	1.25	5.5					25
40 25 20 16 12.5 10 5 2.5 1.25 0.63 0.315	100.0 90.8 84.4 77.6 71.4 63.5 44.8 28.0 17.8 12.6 10.1	90 70 80 70 80 20 20 20 20 20 20 20 20 20 20 20 20 20				0.63	1.25	5.5					25
40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 90.8 84.4 77.6 71.4 63.5 44.8 28.0 17.8	PERCENT PASSING 00 00 00 00 00 00				0.63	1.25	5.5					25

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Λ

Project: 1	ZOK PROJEC	T FEAS	BILI	TY STUD	Y		Sample	Number: 2	9 S	ourc	e #19			
• —	COMPONENT			0.00				Location:						
_	HAUL ROADS						Sumple		N. 7 365					
_								_						· · · · · · · · · · · · · · · · · · ·
	mber: 0101							_	E. 389					
	oled: 93/07			,	W .									
Client: ME	TALL MINING	CORP	ORA	TION			Date Tes	ted: <u>93/</u> 0	07/24		By:_BL	-		
#1	05, 4208 -	- 97 S	TRE	<u> </u>			Natural I	Moisture Co	ntent: 2.	3 %				
EC	MONTON, A	LBERTA					Crushed	Faces:			Faces:			
											_			
Attention:	MR. K.J. HIL	L												
_	ption: SAND		RAVI	L TRAC	E SILT O	RGANICS -	- DARK RE	OWN						
Joil Descri	paon	7410 0			L OILI, O	110/11100	DATE DI							
Demonstra														
Remarks:_				·										
-														
							******	יונוער פוספי	·\		-			<u></u>
			23		9	:ê		ieve sizes (ĸ		<u> </u>
Sieve	% Passing		1000	0.08	0.16	. 0.315	0.63	SIEVE SIZES	(mm)	£S.	10	12.5	2 2 1	2
Sieve	% Passing] ```	0.08	0.16	0.315				4 2	10	12.5	2 2 1	Q
			100	80.0	0.16	0.315				S.	10	12.5	50 50	Q
50	100.0] ```	0.08	0.16			1.25	2.5		10	12.5	2 8 1	9
50 40	100.0		90	0.08	0.16		0.63	1.25	2.5		10	12.5	50 :	Q
50	100.0		90	80.0	0.16		0.63	1.25	2.5		10	12.5	2 2 2	g
50 40 25	100.0 93.6 82.6		90	0.08	0.16		0.63	1.25	2.5		10	12.5	7 50 2	9
50 40 25 20	100.0 93.6 82.6 74.9		90 80 70 60	80.0	0.16		0.63	1.25	2.5		10	12.5	2 2 2	g
50 40 25 20 16 12.5	100.0 93.6 82.6 74.9 71.0		90 80 70	0.08	0.16		0.63	1.25	2.5		10	12.5	20 2	g
50 40 25 20 16 12.5	100.0 93.6 82.6 74.9 71.0 68.2	CENT PASSING	90 80 70 60	80.0	0.16		0.63	1.25	2.5		10	12.5	20 2	g C
50 40 25 20 16 12.5	100.0 93.6 82.6 74.9 71.0 68.2 65.3	PERCENT PASSING	90 80 70 60 50 40	0.08	0.16		0.63	1.25	2.5		10	12.5	20 20	g
50 40 25 20 16 12.5 10	100.0 93.6 82.6 74.9 71.0 68.2 65.3 57.6	PERCENT PASSING	90 80 70 60	80.0	0.16		0.63	1.25	2.5		- 10	12.5	20 20	g
50 40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 93.6 82.6 74.9 71.0 68.2 65.3 57.6 48.3	PERCENT PASSING	90 80 70 60 50 40	80.0	0.16		0.63	1.25	2.5		10	12.5	20 20	g
50 40 25 20 16 12.5 10 5 2.5 1.25	100.0 93.6 82.6 74.9 71.0 68.2 65.3 57.6 48.3 30.6	PERCENT PASSING	90 80 70 60 50 40 30	80.0	0.16		0.63	1.25	2.5		- 0	12.5	20 20	g C
50 40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 93.6 82.6 74.9 71.0 68.2 65.3 57.6 48.3 30.6 15.5	PERCENT PASSING	90 80 70 60 50 40 30	80.0	0.16		0.63	1.25	2.5		10	12.5	20 20	72

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Project:i	ZOK PROJEC	T FEASIB	ILITY STUD	Υ		Sample	Number:_	28 Sou	rce #19			
Address:	COMPONENT	"C"					_	UTM ZONE 12				_
	HAUL ROADS							N. 7 369 58				_
_	ımber: 0101					•	-	E. 385 46				
	oled: 93/07			AV		Time:	-					
	ETALL MINING							07/24				
	105, 4208 -							-				
	DMONTON, A		LLI					ontent: 3.2				
	MONTON, A	LDERIA		<u></u>		Crushed	Faces:		Faces:			_
	MD K L III											
_	MR. K.J. HII											
Soil Descri	ption: GRAVI	L AND S	AND, TRAC	E SILT, OF	RGANICS	- DARK BR	ROWN					_
					100							_
Remarks:_	<u> </u>		 .									_
_		· · · ·	- 									
_		···						***************************************				_
						_		-				_
			ε ε	6	2		ieve sizes	(mm)		•		
Sieve	% Passing	100	0.08	0.16	0.3	0.63	1.25	2.5	2	12.5	3 13	\$
90	1000											
80 50	100.0 95.8	90	·	······································			·····		······			
40	95.8	80	ļ		<u>ļ</u>	<u>.</u>						
25	81.5				İ	į					/	
20	74.3	70	ļ <u>-</u>		·	••••••			····-			
16	70.7	울 60										
12.5	65.5	SS.										
10	61.4	E 50										
5	49.9	₽ ₽ 40				<u>.</u>					İ	
2.5	41.9	<u> </u>										
1.25	34.2	30	ļ			······	<u> </u>		·····	ļļ		
0.63	16.0	20			İ		į					
0.315	8.2	20			·····		•	****	•••••		*****	
0.16	2.8	10	ļ									
0.08	1.4											1
		0	<u> </u>	•			;		<u>i</u>			L
						Reviewed	Bv:					

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Project:lZ	ZOK PROJEC	T FEAS	SIBIL	LITY STUDY		Sample Nu	mber: 27	Sourc	e #20		
Address: (COMPONENT	"C"				Sample Loc	cation: UTM	ZONE 12			
	HAUL ROADS					3300413		372 858			
Project Nu	mber: 0101	-1115	9				E.	382 265			•
Date Samp	led: 93/07	/16		By: MAV		Time:			Temp:		
-	TALL MINING						d:_93/07/2				
	05, 4208 -						isture Conten			-	
-	MONTON, A										
	monitor, 7	LDLIVIA	•			Crusned ro	ices:		races:		
A11 - 12	MD V I UII	1									
_	MR. K.J. HII				0000000						
Soil Descrip	otion: GRAVI	LL AND	SA	ND, TRACE SILT,	ORGANICS -	- DARK BROV	<u>WN</u>				
Remarks:				· · · · · · · · · · · · · · · · · · ·							
_											
							·				
			,	19	ıc.		E SIZES (mm)				
Sieve	% Passing	·	100°	0.08	0.315	0.63	1.25 2.5	so.	5 5	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	g 5
			IW								
80	100.0		90								
50	90.7		80								
40	82.4		00		<u> </u>						
25	71.8		70				ļ				
20	64.0	ပ									
16	59.7	PERCENT PASSING	60		***************************************		i i	·····			
12.5	54.8	₹.	50				ļ				
10	50.6	2					,				
5	43.2	Æ	40				<u>ا</u>			-	
2.5	37.0		30					İ			
1.25	30.4		~								
0.63	21.2		20								
0.315	9.8										
0.16	3.8		10								
80.0	1.6		ا ٥								
						Reviewed By					
						NEVIEWE(I AV					

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														~ -	',
Project: 1	ZOK PROJEC	CT FEAS	IBIL	ity s	TUDY			Sample	Number: 26	<u>s</u>	ourc	e #20	0		
Address:	COMPONENT	"C"						Sample	Location: U	TM ZONE	12				
	HAUL ROAD									. 7 376					
_	mber: 0101		9							. 382 (
					MAV			**							
-	led: 93/07								07./0						
	TALL MINING								sted: 93/0		-		L		
#1	05, 4208	– 97 S	TRE	ET				Natural	Moisture Cor	itent: 1.9	<u>%</u>				
ED	MONTON, A	LBERTA	<u> </u>					Crushed	Faces:			Faces:			
Attention:	MR. K.J. H	ILL													
_	ption: SAND		RAV	EL. T	RACE SIL	T. ORG	anics -	DARK BI	ROWN						
3011 203011				, .											
Demodes															
Remarks:															
								•							
									ND # 817F6 /						
			2	3 00	6	,	5	, ·	SIEVE SIZES (r						
Sieve	% Passing	. 1	100 S	9 9	0.16	i	0.3	9.0	1.25	2.5	ა	5	2 22	20 12	22
		ļ													_
	1000		90				-	-		-		•••••		1	
50	100.0		80												
40	97.1	ļ													
25 20	97.1 95.7		70			·····				···•		/		· •	
16	92.5	မ္	60								/			<u>. </u>	
12.5	86.1	PERCENT PASSING	*												
10	79.7	1 2	50											·	
5	56.9	1 2	40		<u>l</u>		<u>.i</u>	<u></u>							
2.5	39.5	<u> </u>	$^{\sim}$		İ				/						
1.25	26.7		30				- i								
0.63	16.0		ا ړو										į		
0.315	7.5		20												
0.16	4.3		10	·····	.									-	
0.08	3.1			-						ĺ					
			0 ,												-

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Project:	ZOK PROJEC	T FEASIE	BILITY	SIUD	<u> </u>			Sample	e Numb	er: <u>25</u>	S	ourc	e #2	2			
Address:(COMPONENT	"C"						Sample	e Locati	on: U1	M ZONE	12					
	HAUL ROADS	S								_N.	7 390	795					
Project Nu	mber: 0101	-11159								<u>E.</u>	380	287					
	led: 93/07			Ву: М/	4V			Time:_					Temp				
•	TALL MINING			· —				_			/24						
	05, 4208 -					- 12.					ent: 3.						
	MONTON, A													,.			
							-	Orasiic	70 T QCC.	"			1 4003	'			
	MP K I HI	11			··· · · · · · · · · · · · · · · · · ·												
	MR. K.J. HI		A1./C1	TDAC	VE CU T	0004	NIOC	DBOUR	·								
Soil Descri	ption: SAND	AND GR	AVEL	, IRAC	E SILI	, ORGA	MIC2 -	- RKOMV	ł. -								
						·				······							
Remarks:_																	
					1												
								···									
· ····				~			<u>v</u>	<u> </u>		SIZES (m	m)				•		
Sieve	% Passing	. 10	0.063	0.08	0.16		0.315	0.63			2.5 (a	ഹ		0 2	15.3	20	5 2 :
Sieve	% Passing	10	10063	0.08					1.25		2.5			10	C 9	20 20	25
			0.063	0.08				0.63	1.25		2.5			9 5	627	2 8	25
50	100.0	g	1						1.25		2.5			10	5. 3	20 2	25
50 40	100.0	8	30						1.25		2.5			0 5	S 4	20 2	25
50 40 25	100.0 97.9 92.0	8	90						1.25		2.5			0 \$	62 91	20 2	35
50 40 25 20	100.0 97.9 92.0 86.0	8	30 70						1.25		7.5			10	677	20 2	35
50 40 25 20	100.0 97.9 92.0 86.0 80.4	9 8 9NS	30 70 30						1.25		7.5			0 5	1,6	20	35
50 40 25 20 16 12.5	100.0 97.9 92.0 86.0 80.4 73.6	9 8 9NS	30 70						1.25		7.5			10	15.3	20 20	25
50 40 25 20 16 12.5	100.0 97.9 92.0 86.0 80.4 73.6 65.3	9 8 9NS	30 70 60						1.25		7.5			10	2.2	20	35
50 40 25 20 16 12.5 10	100.0 97.9 92.0 86.0 80.4 73.6 65.3 51.2	CENT PASSING	30 70 30						1.25		7.5			10	5.7	20	52
50 40 25 20 16 12.5 10 5	100.0 97.9 92.0 86.0 80.4 73.6 65.3 51.2 41.0	PERCENT PASSING	30 70 60						1.25		7.5			01	627	20	25
50 40 25 20 16 12.5 10	100.0 97.9 92.0 86.0 80.4 73.6 65.3 51.2	PERCENT PASSING							1.25		7.5			0.00	6.77	20	82
50 40 25 20 16 12.5 10 5 2.5 1.25	100.0 97.9 92.0 86.0 80.4 73.6 65.3 51.2 41.0	PERCENT PASSING							1.25		7.5			10	627	20	28
50 40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 97.9 92.0 86.0 80.4 73.6 65.3 51.2 41.0 34.2 24.0	PERCENT PASSING							1.25		7.5			10	6.77	20	52
50 40 25 20 16 12.5 10 5 2.5 1.25 0.63 0.315	100.0 97.9 92.0 86.0 80.4 73.6 65.3 51.2 41.0 34.2 24.0	PERCENT PASSING	60 60 60 60 60						1.25		7.5			10	677	20	25

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Project: 14	ZOK PROJEC	I FEASI	SILII I	21001			Sample	Number:	24 50	urce	17 44			
Address:(COMPONENT	"C"					Sample	Location:_	UTM ZON	E 12				
_!	HAUL ROADS	3						_	N. 7 395	260				
Project Nu	mber: 0101	<u>-11159</u>						_	E. 377	116				
Date Samp	led: 93/07	/15		By: MA	٧		Time:				Temp:_			
	TALL MINING				·		_	ested: 93/						
	05, 4208 -							Moisture C	•		. —			
	MONTON, A							i Faces:					<u> </u>	
	monton, ru	LOCIVITY					Ciustic	1 1 dces			ruces.			
Attantion	MR. K.J. HIL	1												
	ption: GRAVE		CAND	TDACE	CILT O	DCANICS	באשחקק							
Soil Descri	ption: Grove	L AND	SMIND	, ITACE	SILI, U	TUANICS	- DAUMN.	•						
Remarks:_														
_									****					
_	-								***					
-	-							eiDÆ eiZEe	()				***********	
-				တ္	ω	55		SIEVE SIZES				٠,		
Sieve	% Passing		70.063	0.08	0.16	0.315	. 0.63	SIEVE SIZES	(mm)	ن بن	ć	- 12.5	2 2	. 25
			٦٣	90.0	0.16	0.315				£.	0	12.5	20	25
80	87.3		0.063	0.08	0.16	0.315				s,	Ç	12.5	20	
80 50	87.3 67.5	;	٦٣	0.08	0.16	0.315				so.	Q.	12.5	16	25
80 50 40	87.3 67.5 65.8	:	30	0.08	0.16	0.315				S.	Ç	12.5	16 20	25
80 50 40 25	87.3 67.5 65.8 60.1	:	30	0.08	0.16	0.315				ις.	Û,	12.5	16 20	25
80 50 40 25 20	87.3 67.5 65.8 60.1 57.2	;	30	90.0	0.16	0.315				£0		12.5	16	25
80 50 40 25 20	87.3 67.5 65.8 60.1 57.2 54.6	;	30 30 50	0.08	0.16	0.315				· C	U	12.5	16 20	25
80 50 40 25 20 16 12.5	87.3 67.5 65.8 60.1 57.2 54.6 51.3	;	30	90.0	0.16	0.315				ç	ę	12.5	16 20	25
80 50 40 25 20 16 12.5	87.3 67.5 65.8 60.1 57.2 54.6 51.3 48.7	;	90 90 70 60	0.08	0.16	0.315					· ·	12.5	16 20	25
80 50 40 25 20 16 12.5 10	87.3 67.5 65.8 60.1 57.2 54.6 51.3 48.7	CENT PASSING	30 30 50	8000	0.16	0.315				\$	e e	12.5	16	25
80 50 40 25 20 16 12.5 10 5	87.3 67.5 65.8 60.1 57.2 54.6 51.3 48.7 43.0 38.2	PERCENT PASSING	90 90 70 60	0.08	0.16	0.315					•	12.5	16 20	25
80 50 40 25 20 16 12.5 10 5 2.5 1.25	87.3 67.5 65.8 60.1 57.2 54.6 51.3 48.7 43.0 38.2 23.5	PERCENT PASSING	30 30 30 30	8000	0.16	0.315				2	6	12.5	16	25
80 50 40 25 20 16 12.5 10 5	87.3 67.5 65.8 60.1 57.2 54.6 51.3 48.7 43.0 38.2	PERCENT PASSING	30 70 50	90'0	0.16	0.315				5	•	12.5	16	25
80 50 40 25 20 16 12.5 10 5 2.5 1.25 0.63	87.3 67.5 65.8 60.1 57.2 54.6 51.3 48.7 43.0 38.2 23.5 7.2	PERCENT PASSING	30 30 30 30	8000	0.16	0.315				\$		12.5	16	25

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	OK PROJECTOMPONENT							Number:								
	AUL ROADS						_ 3011101	. Loculon		7 401						
_							-			376						
-	nber: 0101			1/4\/												
•	led: 93/07/			MAV			_									
Client: ME	TALL MINING	CORPORA	TION				-	ested: 9					BL_			
#1	05, 4208 <i>-</i>	- 97 STRE	ET				_ Natura	l Moisture	Conte	nt: <u>4.6</u>	3 %					
_ED	MONTON, AL	_BERTA					Crushe	ed Faces:_				Faces	s:			
		·					_									
Attention:	MR. K.J. HIL	L					_									
	otion: SAND,		RAVEL	. SILT.	ORGAN	IICS - D	- Dark Broy	WN.								
SON DOSON	Juoii			,,	2											
Remarks:																
																
							·	 								
· <u>-</u>															,	
			3 ~		·	10	m	SIEVE SIZ	-						•	
Sieve	% Passing	100	0.08		0.16	0.315	0.63	SIEVE SIZ	ES (mm		ĸ		10 12.5	- <u>1</u>	22	3
Sieve	% Passing	100	0.08		0.16	0.315	0.63	_	-		<u> </u>		10 20 20 20 20 20 20 20 20 20 20 20 20 20	15	. 50	67
Sieve	% Passing	100° 90	0.08		0.16	0.315	0.63	_	-		\$		10	16	20	6
Sieve	% Passing	90	0.08		0.16	0.315	0.63	_	-				10	15	. 50	67
		90	0.08		0.16	0.315	0.63	_	-		6		10	15	. 50	3
25	100.0	90	0.08		0.16	0.315	0.63	_	-		\$		10	19	20	67
25 20	100.0	90 80 70						_	-		5		10	16	20	67
25 20 16	100.0 99.6 99.3	90 80 70 9NISS						1.25	-		\$		10	91	50	67
25 20 16 12.5	100.0 99.6 99.3 98.5	90 80 70 9NISS						1.25	-		5		10	91	20	67
25 20 16 12.5	100.0 99.6 99.3 98.5 97.3	90 80 70 9NISS						1.25	-		5		10	16	20	67
25 20 16 12.5 10	100.0 99.6 99.3 98.5 97.3 93.7	90 80 70 9NISSY						1.25	-		5		10	16	20	67
25 20 16 12.5 10 5 2.5	100.0 99.6 99.3 98.5 97.3 93.7 88.8	90 80 70 9NISS						1.25	-		5		10	91		9
25 20 16 12.5 10 5 2.5 1.25	100.0 99.6 99.3 98.5 97.3 93.7 88.8 80.2	PERCENT PASSING 20 08 08 08 08 09 09 09 09 09 09 09 09 09 09 09 09 09						1.25	-		5		10	16		67
25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 99.6 99.3 98.5 97.3 93.7 88.8 80.2 52.5	PERCENT PASSING 05 06 06 06 06						1.25	-		5		10	16		67
25 20 16 12.5 10 5 2.5 1.25 0.63 0.315	100.0 99.6 99.3 98.5 97.3 93.7 88.8 80.2 52.5 15.2	PERCENT PASSING 20 08 08 08 08 09 09 09 09 09 09 09 09 09 09 09 09 09						1.25	-		5		10	16	20	67
25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 99.6 99.3 98.5 97.3 93.7 88.8 80.2 52.5	DERCENT PASSING 06 06 06 06 06 06 06 06 06 06 06 06 06						1.25	-				10	91		67

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27A

-		FEASIBILITY ST	JDY		-		22 s		#27			
Address:	COMPONENT	"C"			Sample	Location:	UTM ZON	<u>IE 12</u>				
<u> </u>	HAUL ROADS						N. 7 41	0 673				
Project Nu	mber: 0101-	-11159					E. 372	2 332				
Date Samp	oled: 93/07/	<u>′15</u> By:_	MAV		Time:_				Temp:_			
Client: ME	TALL MINING	CORPORATION			Date To	ested: 93	/07/24	<u>.</u>	By:_Bl			
#1	105, 4208 -	97 STREET			Natura	Moisture	Content:_2	2.3 %				
EC	MONTON, AL	BERTA										
		-							-			
Attention:	MR. K.J. HIL	1										
		and gravel, tr	ACE SILT (DCANICS	_ RRAWN	1						
2011 Descri	ption: Shirt	AND GILAVEL, IN	AUL SILI, C	MOANICS	- DIVONIA						<u>-</u>	

Remarks:_				_								
Remarks:_												······································
Remarks:												
Remarks:			-			CIDIT CITO	S ()					
Remarks:_ 			ω		M	SIEVE SIZE						
Remarks:	% Passing	0.063	91.0	0.315	. 0.63			G	Ç	12.5	20	3
Sieve		100	0.16	0.315	0.63			47	UI	12.5	20	3
Sieve	100.0	100	0.16	0.315	0.63			· ·	10	12.5	20 6	3
Sieve 80 50	100.0	100	0.16			1.25				12.5	20 20	3
Sieve	100.0	90				125	522			12.5	20 20 30 30 30 30 30 30 30 30 30 30 30 30 30	3
Sieve 80 50 40	100.0 94.9 90.7	90 80 70				125	2.5			12.5	20 20 20 20 20 20 20 20 20 20 20 20 20 2	3
Sieve 80 50 40 25	100.0 94.9 90.7 86.2	90 80 70				125	2.5			12.5	16	3
Sieve 80 50 40 25	100.0 94.9 90.7 86.2 81.3	90 80 70				125	2.5			12.5	20 20 30 30 30 30 30 30 30 30 30 30 30 30 30	3
Sieve 80 50 40 25 20 16 12.5	100.0 94.9 90.7 86.2 81.3 79.4 76.3 73.5	90 80 70				125	2.5			12.5	16	3
Sieve 80 50 40 25 20 16 12.5 10 5	100.0 94.9 90.7 86.2 81.3 79.4 76.3 73.5 64.3	90 80 70 60				125	2.5			12.5	16	3
Sieve 80 50 40 25 20 16 12.5	100.0 94.9 90.7 86.2 81.3 79.4 76.3 73.5	90 80 70				125	2.5			12.5	16	3

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10.1

3.1

1.9

10

0.315

0.16

0.08

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.

Project: 12	ZOK PROJECT	T FEASIB	ility stu	DY		Sample Num	nber: 21	Sc	urce	<u>#</u> 27			
. —	COMPONENT					Sample Loca							
	HAUL ROADS							7 415					
_	mber: 0101-							370 7					
-	led: 93/07/		By: N	MAV		Time:							
-	TALL MINING					Date Tested:							
	05, 4208 -									.y. <u> </u>			
			<u>ILLI</u>	-		Natural Mois							
	MONTON, AL	BERIA		<u>. </u>		Crushed Fac	:es:		ł	·aces:			
	140 14 1 1111												
	MR. K.J. HIL					-							
Soil Descri	ption: SAND,	TRACE	GRAVEL, S	SILT, ORGA	NICS - BR	OWN.							
									· · · · ·				
Remarks:_					•								
_							-					-	
-										 		-	
-						SIEVE	E SIŽES (m	ım)				-	
 Sieve	% Passina		3,063	3.16	3315	SIEVE	•	-			12.5	2 2	
Sieve	% Passing	10	0.063	0.16	0.315	SIEVE	E SIZES (m	(m	S	0.	12.5	20	52 5
Sieve	% Passing					SIEVE	<u> </u>	2.5	\$	100	12.5	20	55 55
Sieve	% Passing	9	0			0.63	8	2.5	\$	10	12.5	20	25
Sieve	% Passing		0			0.63	8	2.5	\$	10	12.5	20	25
25	100.0	9	0			0.63	9	725	S	10	12.5	20	25
25 20	100.0	9 8 7	0			0.63	9	725	5	10	12.5	10	25
25 20 16	100.0 99.1 98.4	9 8 7	0			0.63	9	725	5	10	12.5	20	25
25 20 16 12.5	100.0 99.1 98.4 97.8	9 8 7	0			0.63	9	725	5	10	12.5	18	25
25 20 16 12.5	100.0 99.1 98.4 97.8 96.9	9 8 7	0			0.63	9	725	5	10	12.5	20	25
25 20 16 12.5 10	100.0 99.1 98.4 97.8 96.9 92.6	S 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0			0.63	9	725	5	10	12.5	20	25
25 20 16 12.5 10 5	100.0 99.1 98.4 97.8 96.9 92.6 83.5	9 8 7	0			0.63	9	725	5	10	12.5	20	25
25 20 16 12.5 10 5 2.5 1.25	100.0 99.1 98.4 97.8 96.9 92.6 83.5 56.5	PERCENT PASSING	0			0.63	9	725	5	10	12.5	20	25
25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 99.1 98.4 97.8 96.9 92.6 83.5 56.5	PERCENT PASSING	0			0.63	9	725	5	10	12.5	20	25
25 20 16 12.5 10 5 2.5 1.25	100.0 99.1 98.4 97.8 96.9 92.6 83.5 56.5	PERCENT PASSING	0			0.63	9	725	5	10	12.5	20	25

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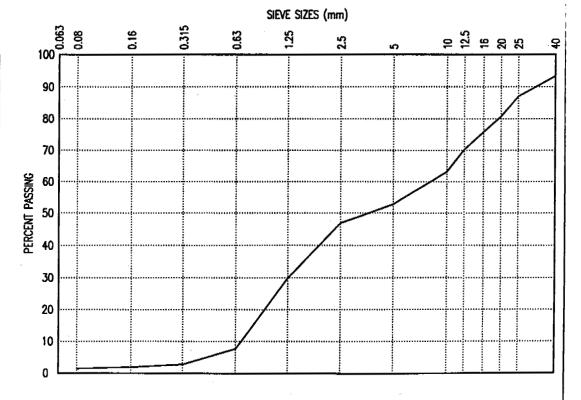
the testing services reported herein have been performed by an EBA technician to recognized industry standards, unless otherwise noted. No other warranty is made. These data do not include or represent any interpretation or opinion of specification compliance or material suitability. Should engineering interpretation be required, EBA will provide it upon written request.

	7017 DDA 167	NT CC4	CI CII	ID. OTH										
	ZOK PROJEC		SIRIF	IIT SIUL	<u> </u>		•		20 s		<u>#28</u>	·	· · <u>-</u>	
_	COMPONENT			<u>. </u>			Sample	Location:_	UTM ZONE	<u> 11 </u>				
	HAUL ROAD	<u>S</u>						_	N. 7 424	220				
Project Nu	ımber: <u>0101</u>	<u>-1115</u>	9					_	E. 628	880				
Date Sam	pled: 93/07	/15		Ву:_М	AV		Time:				Temp:_		<u>.</u>	
Client: M	ETALL MINING	COR	ORA	TION			Date Tes	ted: <u>93</u> /	07/24					
_#	105, 4208 -	- 97 9	STRE	ET			Natural	Moisture C	ontent: 3.	1 %				
EC	MONTON, A	LBERT	A								Foces:	1		
			<u>.</u>				0.12000				1 0000			
Attention:	MR. K.J. HII	.1												
	ption: SAND		:RAV	FI TDA	YE SHIT C	DCANICS		OWA						
Soil Descri	puon: Srivo	AID (ארטונ	LL, 11V/L	L SILI, C	MOMINICS -	DAKK DI	OWN						
						<u> </u>		<u> </u>			<u> </u>			
Remarks:_														
. ===											·			
_														
										_				
		•		٠.		ñ	S	IEVE SIZES						
Sieve	% Passing		- 2	- 0.08	9. H	0.315	33	1.25	2.5		_		ខ្ល	0 5
			100							'n	=		- 64 6	
1			100									¥2 ;		
	100.0		90											
50	100.0		ŀ											
40	92.9		90 80									-		
40 25	92.9 91.5		90											
40 25 20	92.9 91.5 88.7		90 80 70											
40 25 20 16	92.9 91.5 88.7 85.4		90 80 70 60											
40 25 20 16 12.5	92.9 91.5 88.7 85.4 82.1		90 80 70											
40 25 20 16 12.5	92.9 91.5 88.7 85.4 82.1 75.0		90 80 70 60 50											
40 25 20 16 12.5	92.9 91.5 88.7 85.4 82.1 75.0 58.4	PERCENT PASSING	90 80 70 60											
40 25 20 16 12.5 10 5	92.9 91.5 88.7 85.4 82.1 75.0 58.4 39.4		90 80 70 60 50											
40 25 20 16 12.5 10 5	92.9 91.5 88.7 85.4 82.1 75.0 58.4		90 80 70 60 50 40 30 ·											
40 25 20 16 12.5 10 5 2.5 1.25	92.9 91.5 88.7 85.4 82.1 75.0 58.4 39.4 20.6		90 80 70 60 50 40											
40 25 20 16 12.5 10 5 2.5 1.25 0.63	92.9 91.5 88.7 85.4 82.1 75.0 58.4 39.4 20.6 6.8		90 80 70 60 50 40 30 ·											
40 25 20 16 12.5 10 5 2.5 1.25 0.63 0.315	92.9 91.5 88.7 85.4 82.1 75.0 58.4 39.4 20.6 6.8 2.5		90 80 70 60 50 40 20 10 10 10 10 10 10 10 10 10 10 10 10 10											
40 25 20 16 12.5 10 5 2.5 1.25 0.63 0.315 0.16	92.9 91.5 88.7 85.4 82.1 75.0 58.4 39.4 20.6 6.8 2.5		90 80 70 60 60 40 30 20 60 60 60 60 60 60 60 60 60 60 60 60 60											

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Project: IZOK PROJECT FEASIBILITY STUDY Address: COMPONENT "C" HAUL ROADS Project Number: 0101-11159	Sample Number: 19 Source Sample Location: UTM ZONE 11 N. 7 430 529 E. 626 217	#31
Date Sampled: 93/07/15 By: MAV Client: METALL MINING CORPORATION #105, 4208 - 97 STREET EDMONTON, ALBERTA	Time:	By: BL
Attention: MR. K.J. HILL Soil Description: SAND AND GRAVEL, TRACE SILT, ORGANICS - DARK BROWN.		
Remarks:		

Sieve	% Passing
80	100.0
50	95.6
40	93.3
25	87.0
20	80.7
16	75.9
12.5	70.3
10	63.3
. 5	52.8
2.5	46.9
1.25	30.0
0.63	7.7
0.315	2.8
0.16	1.9
0.08	1.5



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Project: IZOK PROJECT					mber: 18 :		e #33	
Address: COMPONENT "	C .	•		Sample Loc	cation: UTM ZON			
HAUL ROADS					N. 7 43			
Project Number: 0101-					<u>E. 622</u>			
Date Sampled: 93/07/			<u>V</u>				Temp:	
Client: METALL MINING	CORPORA	TION		Date Teste	d: 93/07/23		By: BL	
#105, 4208 –	97 STRE	ET		Natural Mo	isture Content:_4	.0 %		
EDMONTON, ALE	BERTA			Crushed Fo	aces:		Faces:	
Attention: MR. K.J. HILL	-							
Soil Description: SAND,		T, ORGAN	NICS - DARK G	REY.				
		_						
Remarks:								
Normal Ka				***				
				SIE	VE SIZES (mm)		// ** /***	
Sieve 7 Presine	24	80:	.16 .315		원 자		70 MM	
Sieve % Passing	100	0.08	0.16		75 - 75 WE SIZES (mm)			
Sieve % Passing		90.0	0.16		10			4
Sieve % Passing	100	0.08	0.16		10		-	4
Sieve % Passing		0.08	0.16		10			4
Sieve % Passing	90	90.0	0.16		10			4
Sieve % Passing	90 80 70			0.653	1.25			4
Sieve % Passing	90 80 70 \$1			0.653	1.25			4
Sieve % Passing	90 80 70 \$1			0.653	1.25			4
Sieve % Passing	90 80 70 \$1			0.653	1.25			9
	90 80 70 60			0.653	1.25			4
Sieve % Passing 2.5 100.0 1.25 99.9	90 80 70 \$1			0.653	1.25			9
2.5 100.0	PERCENT PASSING 09 09 08			0.653	1.25			4
2.5 100.0 1.25 99.9	PERCENT PASSING 09 02 08 06 08 06			0.653	1.25			4
2.5 100.0 1.25 99.9 0.63 97.7	PERCENT PASSING 09 09 08			0.653	1.25			4

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Project: IZOK PR	OJECT FEASIE	BILITY	STUDY			Sample Num	ber: 17	Source	<u></u> #36			
Address: COMPO	NENT "C"					Sample Loca	tion: UTM Z	ONE 11				
HAUL F	OADS					·		444 978		•		
Project Number:								20 462				
Date Sampled: 9			Bue MAV			Time:						
Client: METALL N												
						•	93/07/23					
	208 - 97 ST	KEE					ture Content:					
EDMONIC	N, ALBERTA					Crushed Fac	es:		Faces:			
Attention: MR. K.												
Soil Description:	GRAVEL, SOME	SA	ND, TRACE	SILT, OR	GANICS				- 4			
	- DARK BRO	WN.				,						
Remarks:												

	•					*****	704.					
							SIZES (mm)					
Sieve % Po	ssina	.063	3.08	. 16	.315		•		0	2.5 6		ਲ· s
Sieve % Po	ssing 10	70.063	80.0	0.16	0.315		SIZES (mm)	v o	10	12.5	20 1	χ ς
Sieve % Po:		0.063		0.16	0.315		•	ις.	10	12.5	50 50	1 2 1
).0 i.9	90		0.16		0.63	25			12.5	20 20	52 5
80 100	0.0	- [0.16			25			12.5	20	52 5
80 100 50 85 40 73 25 53	0.0 0.9 0.8	90		0.16		0.63	25			12.5	20	1 2
80 100 50 85 40 73 25 53 20 39	0.0 0.9 0.8 0.1	90 30 70				0.63	2.5			12.5	20 20	32
80 100 50 85 40 73 25 53 20 39 16 33	0.0 0.9 0.8 0.1	90 30 70				0.63	2.5			12.5	20 20	23 S
80 100 50 85 40 73 25 53 20 39 16 33 12.5 26	0.0 0.9 0.8 0.1	90 30 70				0.63	2.5			12.5	20	33
80 100 50 85 40 73 25 53 20 39 16 33 12.5 26 10 21	0.0 0.9 0.8 0.1	90 30 70				0.63	2.5			12.5	2 8	52 5
80 100 50 85 40 73 25 53 20 39 16 33 12.5 26 10 21 5 13	0.0 9 1.8 1.1 1.9 2.2 8 8 9 7.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4	90 30 70				0.63	2.5			12.5	20 20	23
80 100 50 85 40 73 25 53 20 39 16 33 12.5 26 10 21 5 13 2.5 10	0.0 1.9 1.8 1.1 1.9 1.2 1.2 1.3 1.3 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	90 ···· 30 ···· 70 ···· 60 ····				0.63	2.5			12.5	20 23	£ \$
80 100 50 85 40 73 25 53 20 39 16 33 12.5 26 10 21 5 13 2.5 10 1.25 8	0.0 0.9 0.8 0.1 0.9 0.2 0.8 0.1 0.9 0.2 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	90 30 70				0.63	2.5			12.5	20 20	23
80 100 50 85 40 73 25 53 20 39 16 33 12.5 26 10 21 5 13 2.5 10 1.25 8 0.63 5	0.0 1.9 1.8 1.1 1.9 1.2 1.2 1.3 1.3 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	90 ···· 30 ···· 70 ···· 60 ····				0.63	2.5			12.5	20 20	£ \$
80 100 50 85 40 73 25 53 20 39 16 33 12.5 26 10 21 5 13 2.5 10 1.25 8 0.63 5 0.315 2	0.0 0.9 0.8 0.1 0.9 0.2 0.8 0.9 0.2 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	60 60 60				0.63	2.5			12.5	20 20	25 5
80 100 50 85 40 73 25 53 20 39 16 33 12.5 26 10 21 5 13 2.5 10 1.25 8 0.63 5 0.315 2	0.0 1.9 1.8 1.1 1.9 1.2 1.8 1.9 1.7 1.6 1.7 1.6 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7					0.63	2.5			12.5	20 20	23
80 100 50 85 40 73 25 53 20 39 16 33 12.5 26 10 21 5 13 2.5 10 1.25 8 0.63 5 0.315 2	0.0 0.9 0.8 0.1 0.9 0.2 0.8 0.9 0.2 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	60 60 60 60				0.63	2.5			12.5	20	52

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	ZOK PROJEC		DILLIT OIL				Number:			.C #31	
_	COMPONENT					_ Sample	Location:				
_	HAUL ROADS					-	_	N. 7 44			
	mber: 0101					-	_	E. 619	478		
Date Samp	oled: 93/07	/15	By:	MAV						Temp:	
Client: ME	TALL MINING	CORPO	PRATION		****	_ Date Te	sted: 93/	07/23		By: BL	
#1	05, 4208 -	- 97 SI	REET			_ Natural	Moisture C	ontent: <u>4</u>	.1 %		
_E0	MONTON, A	LBERTA				_ Crushed	faces:			Faces:	
						_					
Attention:	MR. K.J. HI	LL				-					
_	ption: SAND,		GRAVEL,	SILT, ORG	GANICS - N	- Medium Bro	OWN.			/	
Remarks:											
rtomarks.											
_											
_											
_							SIEVE SIZES	(mm)			data transcription of the state
- Sieve	% Passina		0.063	910	3.315						
Sieve	% Passing	1	0.063	0,16	0.315	0.63	SIEVE SIZES	(mm)	· ·	. 10	
Sieve	% Passing		000	0,16	0.315					10	\$
Sieve	% Passing		90	0.16	0.315				5	10	5
Sieve	% Passing			0.16	0.315				5	10	5
Sieve	% Passing		90		0.315	0063				10	\$
Sieve	% Passing		90 80 70			1970	125	25		10	Ş
Sieve	% Passing		90 80 70 60 60			1970	125	25			
Sieve	% Passing		90 80 70			1970	125	25			\$
			90 80 70 60 60			1970	125	25			\$
10	100.0	PERCENT PASSING	90 80 70 60 50 40			1970	125	25			
10 5 2.5 1.25	100.0 99.4 95.9 88.9	PERCENT PASSING	90			1970	125	25			5
10 5 2.5 1.25 0.63	100.0 99.4 95.9 88.9 78.4	PERCENT PASSING	90 80 70 60 50 40			1970	125	25			\$
10 5 2.5 1.25 0.63 0.315	100.0 99.4 95.9 88.9 78.4 55.5	PERCENT PASSING	90 80 70 60 50 40 30 20			1970	125	25			
10 5 2.5 1.25 0.63	100.0 99.4 95.9 88.9 78.4	PERCENT PASSING	90			1970	125	25			5

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· —			LITY S	TUDY				5 Sour				
Address: C	COMPONENT	"C"				Sample	Location:	UTM ZONE 1	1			
· <u> </u>	HAUL ROADS	S						N. 7 464 68	35			
Project Nur	mber: 0101	-11159						E. 612 41	8			
			Ву:	MAV		Time:			Temps	!		
-	TALL MINING					_		7/23	_ :	BL		
	05, 4208 -							ntent: 1.6				
	MONTON, A											
	monton, A	LULINIA				Crusne	u ruces		races	· <u> </u>		
	MD V I UII											
-	MR. K.J. HII				20044400	0.00						
Soil Descrip	otion: GRAVI	EL AND SA	AND, II	RACE SILT, (ORGANICS -	- DARK E	BROWN					
							··. · · · · · · · · · · · · · · · · · ·					
Remarks:	*****											
_												
			ъ		ю		SIEVE SIZES	(mm)				
Sieve	% Passing	100	0.063	0.16	0.315	0.63	1.25	2.5	n :	t 25.5	2 2 5	3 5
		100	' 📗	*								
		90	·						***************************************	<u> </u>		
50	100.0	80			<u></u>							
25	96.1									/	/	ŀ
20	86.2 81.0	70	·						······			
16	76.2	≌ 60	ļ <u>.</u>		<u>.</u>	<u>ļ</u>				/		
12.5	69.8	, WSS										
10	62.5	E 50	·									
5	47.2) 22 40	ļ		<u></u>	<u>.</u>						
2.5	30.3	£				ļ						
1.25	19.2	30	-							 		
0.63				ļ				1				j
0.05	8.8	20	ļ	·····	<u>‡</u>				•••••	<u></u>		***************************************
0.315	8.8 2.1	20							•••••••			
		20 10										
0.315	2.1											

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	COMPONENT			11 0.00	•				S SO UTM ZONE		_ "			
	HAUL ROADS						Sample							
	umber: 0101		9						N. 7 470 985 E. 611 676					
				5 W			_	_						
	pled: 93/07			-	1V				77 /00					
·	ETALL MINING								07/22		Ву:_В			
	105, 4208 -			<u> </u>			Natural	Moisture Co	ontent: 1.6	<u>%</u>				
_E(DMONTON, A	LBERTA	4				Crushed	Faces:			Faces:			
														
Attention:_	MR. K.J. HI	L												
Soil Descri	iption: SAND	GRAV	ELLY	TRACE	SILT, ORGA	NICS								
	ME	DIUM I	BRO	WN.										
Remarks:						-								
	-												-	***
-	-										•			
-				•••	. 400									
-								CIEVE SIZES I	(mm)					
-					9	315		SIEVE SIZES (5		
Sieve	% Passing		100 [0.08	0.16	- 0.315	0.63	SIEVE SIZES ((mm)	نى نى	9	12.5		25
Sieve	% Passing			0.08	0.16	0.315		_		ين. دم	Q	12.5	20 19	25
Sieve	% Passing		100	0.08	0.16	0.315		_		50	0	12.5	20	22
Sieve	% Passing			80.0	0.16	0.315		_		20	٩	12.5	20	25
Sieve 25	% Passing		90 80	80.0	0.16	0.315		_		<u> </u>	9	12.5	20	725
			90	0.08	0.16	0.315		_		5	9	12.5	10 10 20	25
25 20 16	100.0		90 80	80:0	0.16	0.315		_		\$		12.5	16 20	72
25 20 16 12.5	100.0 96.0 92.7 89.5		90 80 70 60	800	0.16	0.315		_		5		12.5	16 20	25
25 20 16 12.5	100.0 96.0 92.7 89.5 83.8		90 80 70	80:0	0.16	0.315		_		\$		12.5		25
25 20 16 12.5 10	100.0 96.0 92.7 89.5 83.8 65.3	PERCENT PASSING	90 80 70 60	800	0.16	0.315		_		5		12.5	16 20	25
25 20 16 12.5 10 5 2.5	100.0 96.0 92.7 89.5 83.8 65.3 44.8		90 80 70 60 50 40	80'0	0.16	0.315		_		\$		12.5	10 10 10 10 10 10 10 10 10 10 10 10 10 1	25
25 20 16 12.5 10 5 2.5 1.25	100.0 96.0 92.7 89.5 83.8 65.3 44.8 28.3		90 80 70 60 50	800	0.16	0.315		_		5		12.5	16 20	25
25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 96.0 92.7 89.5 83.8 65.3 44.8 28.3		90 80 70 60 50 40	80'0	0.16	0.315		_		\$		12.5	10 20	25
25 20 16 12.5 10 5 2.5 1.25 0.63 0.315	100.0 96.0 92.7 89.5 83.8 65.3 44.8 28.3 13.9		90 80 70 60 50 40 30 20 1	800	0.16	0.315		_		5		12.5	16 20	25
25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 96.0 92.7 89.5 83.8 65.3 44.8 28.3		90 80 70 60 50 40 30 60	800	0.16	0.315		_		\$		12.5	16 20	25

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1 10ject	ZOK PROJEC		-					e Number:_							
Address:(COMPONENT	"C"					_ Sample	Location:_	UTM ZO	NE 11					
_1	HAUL ROADS	S					_	_	N. 7 49	91 735					
Project Nu	mber: 0101	-11159)					_	E. 60	0 036					
Date Samp	oled: 93/07	/12	£	y: MA	٧		Time:_				Temp:				
Client: ME	TALL MINING	CORPO	ORATIO	N			Date T	ested: 93/	07/22						
	05, 4208						_	l Moisture (
	MONTON, A							ed Faces:							
				•••			0145110				1 0000				
Attention:	MR. K.J. HI	11					_								
_	ption: SAND		117 1	DACE	SILT OF	DCANICS .	_ NADK BB	AWA!							
Soil Descri	ption:	, GIVAVE	LLI, I	NACE .	SILI, UI	TOANICS -	- DAIN DI	OWN.							
Remarks:_															
_			•												
_						·									
-		····			·····		···								
-			:2			ۍ		SIEVE SIZES	(mm)						
_ Sieve	% Passing		0.063	0.08	0.16	0.315	0.63	SIEVE SIZES	(mm)	ĸ	Ş	12.5	16	25.00	-
-		1	0.063	80.0	0.16	0.315	0.63			s.	Ş	12.5	16	25	-
80	100.0	-	90	0.08	0.16	0.315	0.63			2	Ş	12.5	16	25	Ş
80 50	100.0		90	0.08	0.16		0.63	1.25	52		*****	12.5	16	25	9
80 50 40	100.0 80.9 78.4							1.25	2.5			12.5	9	25	5
80 50 40 25	100.0 80.9 78.4 75.1		90					1.25	2.5			12.5	16	25	9
80 50 40 25 20	100.0 80.9 78.4 75.1 72.9		90 ····· 80 ····· 70 ·····					1.25	2.5					20	•
80 50 40 25 20	100.0 80.9 78.4 75.1 72.9 71.5		90 80 70					1.25	2.5					25	
80 50 40 25 20 16 12.5	100.0 80.9 78.4 75.1 72.9 71.5 70.6		90 ····· 80 ····· 70 ·····					1.25	2.5					20 25	
80 50 40 25 20 16 12.5	100.0 80.9 78.4 75.1 72.9 71.5 70.6 69.7		90 80 70 60					1.25	2.5					25	9
80 50 40 25 20 16 12.5 10	100.0 80.9 78.4 75.1 72.9 71.5 70.6 69.7 68.4	KCENT PASSING	90 80 70					1.25	2.5					25	5
80 50 40 25 20 16 12.5 10 5	100.0 80.9 78.4 75.1 72.9 71.5 70.6 69.7 68.4 67.5	PERCENT PASSING	90 80 70 60					1.25	2.5					25	Ş
80 50 40 25 20 16 12.5 10 5 2.5 1.25	100.0 80.9 78.4 75.1 72.9 71.5 70.6 69.7 68.4 67.5	PERCENT PASSING	90 80 70 60 40 30					1.25	2.5					25	
80 50 40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 80.9 78.4 75.1 72.9 71.5 70.6 69.7 68.4 67.5 65.8	PERCENT PASSING	90 80 70 60 50					1.25	2.5					25	Ş
80 50 40 25 20 16 12.5 10 5 2.5 1.25 0.63 0.315	100.0 80.9 78.4 75.1 72.9 71.5 70.6 69.7 68.4 67.5 65.8 55.2 27.6	PERCENT PASSING	90 80 70 60 50 40 30					1.25	2.5					25	
80 50 40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 80.9 78.4 75.1 72.9 71.5 70.6 69.7 68.4 67.5 65.8	PERCENT PASSING	90 80 70 60 40 30					1.25	2.5					25	ç

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45A

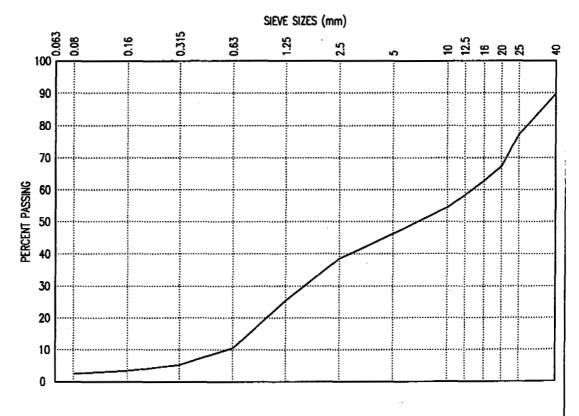
Project: IZ	OK PROJEC	t feasibil	ITY S	STUDY	Sample Num	ber: 4	Source	e #45		
	COMPONENT				Sample Loca			•		.
	IAUL ROADS		•				7 508 743			
	mber: 0101		•				603 800			
	led: 93/07,		Rv	· MAV	Time [,]			Temp:		
_	TALL MINING						'22			
	05, 4208 -									
			<u>.C.I.</u>				nt: 2.0 %			
_ <u>ED</u>	MONTON, A	LBERIA		·	Crushed Fac	es:		Faces:		
Attention:	MR. K.J. HIL	<u> </u>								
Soil Descrip	otion: SAND,	TRACE G	SAVE	L, SILT, ORGANICS – ME	DIUM BROWN.					
Remarks:										
_								•		
•					·					
			_	_	SIEVE	SIZES (mr	1)			
Sieve	% Passing		80.0	0.16	0.63	3	G 5	₽ 5	15.5	8 22 \$
		100					_			
		90							ļ ķ.	
		80								
		80				/		:	Ī	
25	100.0	70				····/···/				
16	99.0	\$ W								
12.5	98.6 98.6	PERCENT PASSING								
10	97.5	<u>=</u> 50			<u>/</u>	<i>[</i>			ļ ķ .	
5	94.2	22 40 ·			/				ļ <u>ļ</u>	
2.5	81.6	Д								
1.25	48.3	30								
0.63	9.2	20								
0.315	7.3	20			/					
0.16	6.2	10			_/				 	
0.08	3.3	n	1							
		U								
					Davida i di C					
					Reviewed By:			-		

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45B

Project: IZOK PROJECT FEASIBILITY STUDY	Sample Number: 2 Source	± #45
Address: COMPONENT "C"	Sample Location: UTM ZONE 11	
HAUL ROADS	N. 7 508 095	
Project Number: 0101-11159	E. 601 701	
Date Sampled: 93/07/12 By: MAV	Time:	Temp:
Client: METALL MINING CORPORATION	Date Tested: 93/07/22	By:BL
#105, 4208 - 97 STREET	Natural Moisture Content: 1.8 %	
EDMONTON, ALBERTA	Crushed Faces:	Faces:
ALL LE MP K I HILL		
Attention: MR. K.J. HILL		
Soil Description: GRAVEL AND SAND, TRACE SILT, ORGANICS		
- DARK BROWN.		
Remarks:		

Sieve	% Passing
80	100.0
50	94.4
40	89.7
25	77.3
20	67.3
16	62.8
12.5	58.4
10	54.5
5	46.2
2.5	38.5
1.25	25.5
0.63	10.5
0.315	5.3
0.16	3.4
0.08	2.5



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45C

Project:_\frac{17}{2}	zok projec	/ FEAS	וווטו	11 2100)Y		_ Sample N	lumber:	Sour	ce	#45				
Address:	COMPONENT	"C"					_ Sample L	ocation:	UTM ZONE 1	1					
_ <u>i</u>	HAUL ROADS						_	_	N. 7 508 72	25					
Project Nu	mber: 0101	-11159	}				_		E. 598 91	 6					
	led: 93/07			 Bv: M/				_							
	TALL MINING			T1011			_		07/22						
	05, 4208								ntent: 1.7		∪y. <u> </u>				
				<u></u>								<u>.</u>		_	
	MONTON, A	LDEKIA					_ Crushed	races:		<u> </u>	taces:				
	ND 1/ 1 11						_								
_	MR. K.J. HI						_								
Soil Descri	otion:_SAND	, GRAVE	LLY	, TRACE	SILT, OR	GANICS -	- DARK BROV	<u>VN</u>							
	<u>——</u>								******					<u>,</u>	
Remarks:_							-								
_															
_				<u></u>											
-	·														
-								eve sizes ((mm)						
 Sieve	% Passing		10063	0.08	0.16	0.315				n	Ş	12.5	9	20	Q S
Sieve	% Passing	1		0.08	0.16	0.315	 0.63 21			n	ç	12.5	16	20	Q 5
Sieve	% Passing		00					1.25	2.5			12.5	9	20	Q S
			90				0.63	1.25	2.5		···········			20	52
80	100.0] ۳				0.63	1.25	2.5		···········			20	eg "
80 50 40 25	100.0		90				0.63	1.25	5.5		···········			20	Q Y
80 50 40 25 20	100.0 93.0 84.4 80.7 77.9		90 80 70				0.63	1.25	5.5		···········			20	S2 57
80 50 40 25 20	100.0 93.0 84.4 80.7		90 80 70				0.63	1.25	5.5		···········			20	67
80 50 40 25 20 16 12.5	100.0 93.0 84.4 80.7 77.9		90 80 70				0.63	1.25	5.5		···········			20	25
80 50 40 25 20 16 12.5	100.0 93.0 84.4 80.7 77.9 75.8 74.3		90 80 70				0.63	1.25	5.5		···········			20	67
80 50 40 25 20 16 12.5	100.0 93.0 84.4 80.7 77.9 75.8 74.3		90 80 70				0.63	1.25	5.5		···········			20	SZ S
80 50 40 25 20 16 12.5	100.0 93.0 84.4 80.7 77.9 75.8 74.3	PERCENT PASSING	90 80 70 60 50				0.63	1.25	5.5		···········			20	25
80 50 40 25 20 16 12.5 10	100.0 93.0 84.4 80.7 77.9 75.8 74.3 72.7 70.2	PERCENT PASSING	90 80 70				0.63	1.25	5.5		···········			20	Q Y
80 50 40 25 20 16 12.5 10 5	100.0 93.0 84.4 80.7 77.9 75.8 74.3 72.7 70.2 66.6	PERCENT PASSING	90 80 70 60 50				0.63	1.25	5.5		···········			20	25
80 50 40 25 20 16 12.5 10 5 2.5	100.0 93.0 84.4 80.7 77.9 75.8 74.3 72.7 70.2 66.6 47.1	PERCENT PASSING	90 80 70 60 50				0.63	1.25	5.5		···········			20	Q Y
80 50 40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 93.0 84.4 80.7 77.9 75.8 74.3 72.7 70.2 66.6 47.1 8.9	PERCENT PASSING	90 80 70 60 50 40				0.63	1.25	5.5		···········			20	cz s

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Project: IZOK PROJECT FEASIBILITY STUDY								Number:_			:e #4	<u> </u>				
Address:(ddress: COMPONENT "C"							Location:	UTM ZO	NE 11						
_!	HAUL ROADS	<u> </u>							N. 75	2 950						
Project Nu	mber: 0101	-1115	9				_		E. 60	1 625		,				
_	led: 93/07/			By: M	AV		Time:				Temp	:				
	ient: METALL MINING CORPORATION							Date Tested: 93/07/23								
	05, 4208 -						-	Moisture								
	MONTON, AL							d Faces:								
	MONTON, 74	-DLKII	•			,	_ Crusne	d races:			races	l:	· · · · · · · · · · · · · · · · · · ·			
Attention:	MR. K.J. HIL	L					-									
_	ption: GRAVE		SAN	D, TRAC	E SILT, C	RGANICS	- - Dark e	BROWN								
Remarks:													• •			
											<i>7.</i>					
_																
						. ,										
_												<u> </u>				
_			:3			ıΩ		SIEVE SIZES	5 (mm)							
Sieve	% Passing		1000	80.0	0.16	0.315	0.63	SIEVE SIZES	52 (mm) .	ю		10 12.5	\$ £	3 X		
			0.063	0.08	0.16	0.315	0.63		•	ъ		12.5	3 5	22 23		
80	100.0		0000	80.0	0.16	0.315	0.63		25			12.5	2 2	2 2		
80 50	100.0			0.08	0.16			1.25	25		•••••	12.5	3 6	1 X		
80 50 40	100.0 94.7 88.9		90	0.08	0.16			1.25	2.5			12.5	30 20	1 X		
80 50 40 25	100.0 94.7 88.9 76.3		90	0.08	0.16			1.25	2.5			12.5	9 8	2 2 2		
80 50 40 25 20	100.0 94.7 88.9 76.3 70.1		90 ··· 80 ··· 70 ···	0.08	0.16			1.25	2.5			12.5		23 23		
80 50 40 25 20	100.0 94.7 88.9 76.3 70.1 65.0		90	0.08	0.16			1.25	2.5			12.5	16	25		
80 50 40 25 20 16 12.5	100.0 94.7 88.9 76.3 70.1 65.0 60.6		90 ··· 80 ··· 70 ···	0.08	0.16			1.25	2.5			12.5	39 66	25 25		
80 50 40 25 20 16 12.5	100.0 94.7 88.9 76.3 70.1 65.0 60.6 56.0		90 80 70 50	0.08	0.16			1.25	2.5			12.5	16	2 2 2		
80 50 40 25 20 16 12.5 10	100.0 94.7 88.9 76.3 70.1 65.0 60.6 56.0 43.8	PERCENT PASSING	90 80 70 60	0.08	0.16			1.25	2.5			12.5	16	25		
80 50 40 25 20 16 12.5 10 5	100.0 94.7 88.9 76.3 70.1 65.0 60.6 56.0 43.8 31.4		90 80 70 50	0.08	0.16			1.25	2.5			12.5	16	25		
80 50 40 25 20 16 12.5 10 5 2.5 1.25	100.0 94.7 88.9 76.3 70.1 65.0 60.6 56.0 43.8 31.4 20.9		90 80 70 60 50 40	0.08	0.16			1.25	2.5			12.5	16	25		
80 50 40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 94.7 88.9 76.3 70.1 65.0 60.6 56.0 43.8 31.4 20.9		90 80 70 60 50 40	80.0	0.16			1.25	2.5			12.5	16	23		
80 50 40 25 20 16 12.5 10 5 2.5	100.0 94.7 88.9 76.3 70.1 65.0 60.6 56.0 43.8 31.4 20.9		90 80 70 60 50 40	8000	0.16			1.25	2.5			12.5	16	25		

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	OK PROJEC		, IIII	31001						Source	#46			
Address:(COMPONENT	"C"					Sample	Location:	UTM Z	ONE 11				
	HAUL ROADS	3							N. 7	510 062				
Project Nu	mber: 0101	-11159					_	_	E. 6	501 500				
Date Samp	led:_93/07	/12	Ву	: MAV	1		Time:				Temp:			
	TALL MINING						_	ested: 93			Ву:_В			
	05, 4208 -						•			2.5 %				
			VLL.			<u></u>								
	MONTON, A	LDENIA			<u> </u>		. Crushed	1 Faces:			Faces:			
	MR. K.J. HI													
Soil Descrip	otion: SAND	SOME (GRAVEL	_, TRA	ce silt,	ORGANIC	S							
	<u> </u>	rk gre	<u>۲. </u>											
Remarks:														
										-				
_														
							•							
			<u></u>		<u> </u>			SIEVE SIZES	S (mm)					
Sieve	% Passina		.063		.16	.315						2.5		ν.
Sieve	% Passing	10	0.063	<u> </u>	0.16	0.315	0.63		(mm) 2		Ç	12.5	16 7	25
Sieve	% Passing		~∏					1.25	2.5		Ç	12.5	9 20	25
Sieve	% Passing		000000000000000000000000000000000000000				0.63	1.25	2.5		Ę	12.5	16 20	25
Sieve	% Passing	ç	~∏				0.63	1.25	2.5		Ę	12.5	16	25
		£	00 00 00				0.63	1.25	2.5		ţ	12.5	16 7 20	25
40	100.0	8	00 00 00				0.63	1.25	2.5		ş	12.5	16	25
40 25	100.0	8	00 00 00				0.63	1.25	2.5		ę	12.5	16	25
40 25 20	100.0 98.2 98.2	8	70				0.63	1.25	2.5		Ş	12.5	16 16	25
40 25 20 16	100.0 98.2 98.2 94.6	8	00 00 00				0.63	1.25	2.5		ş	12.5	16 16	25
40 25 20 16 12.5	100.0 98.2 98.2 94.6 93.2	8	70				0.63	1.25	2.5		•	12.5	16	25
40 25 20 16 12.5	100.0 98.2 98.2 94.6 93.2 89.5	PERCENT PASSING	60				0.63	1.25	2.5		Ş	125	16 16	25
40 25 20 16 12.5 10	100.0 98.2 98.2 94.6 93.2 89.5 82.2	PERCENT PASSING	60				0.63	1.25	2.5		•	12.5	16	25
40 25 20 16 12.5 10 5	100.0 98.2 98.2 94.6 93.2 89.5 82.2 75.3	PERCENT PASSING	60				0.63	1.25	2.5		Ş	125	16 16	25
40 25 20 16 12.5 10 5 2.5 1.25	100.0 98.2 98.2 94.6 93.2 89.5 82.2 75.3 61.4	PERCENT PASSING	60				0.63	1.25	2.5		•	12.5	16	55
40 25 20 16 12.5 10 5 2.5 1.25 0.63	100.0 98.2 98.2 94.6 93.2 89.5 82.2 75.3 61.4 33.6	PERCENT PASSING	60				0.63	1.25	2.5		•	125	16 16 20	25
40 25 20 16 12.5 10 5 2.5 1.25 0.63 0.315	100.0 98.2 98.2 94.6 93.2 89.5 82.2 75.3 61.4 33.6 14.6	PERCENT PASSING	60				0.63	1.25	2.5		ş	125	16	25

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