

Technical Summary

November 2023

Pit Name: Lund Pit

Provincial Pit Number: 0464

Location: Lund Pit is approximately 12.8km west of Keremeos on Highway 3 (Figure 1).

Legal Land Description: The site is currently a Section 16 Map Reserve (LF# 0165072) held by the British Columbia Ministry of Transportation and Infrastructure (BC MoTI). The legal description of the Map Reserve is “All that Unsurveyed Crown land in the vicinity of District Lot 3207, Similkameen Division of Yale District and containing 34.92 hectares, more or less”. The layout of the Map Reserve boundary is shown in the legal plan (Figure 2).

Subsurface Investigation: Subsurface investigations at Lund Pit were carried out in October of 2021 by Ministry of Transportation & Infrastructure.

In 2021 eleven (11) test pits were excavated to depths ranging from 3.0 to 5.5m and in 2012, fourteen (14) test pits were excavated to depths ranging from 3.4 to 4.6m. During the test pitting, subsurface soil and groundwater conditions were logged and representative samples of the granular materials were collected for laboratory testing and future reference. Laboratory testing was carried out on thirteen (13) of these samples at AMEC laboratories to assess the gradation and durability characteristics. The tests completed were wet sieve analysis, micro deval, sand equivalent, relative density, and absorption.

Based on the results of the 2021 and 2012 investigations, one (1) granular area was defined (Figure 3). The detailed results of the subsurface testing are provided in the Test Pit Summaries and test pit locations are shown on the Pit Development Plan (Figure 3).

Material Gradation: Table 1 shows the gradation as a percentage by weight of the fines (silts and clays), sand and gravel components as well as the Unified Soil Classification (USC [included after test pit summary]) for the samples tested.

Table 1: Pit Run Gradation

Test Pit	Depth (m)	Fines (%)* <0.075mm	Sand (%)* 0.075- 4.75mm	Gravel (%)* 4.75-75mm	USC
TP21-01	2.0 - 3.1	9.6	28.5	61.8	GP-GM
TP21-02	1.5 - 2.5	6.1	30.3	63.7	GW-GM
TP21-03	0 – 3.0	3.0	24.6	72.3	GW
TP21-04	0 – 4.0	5.6	28.9	65.4	GW-GM
TP21-05	1.1 – 5.0	4.3	29.4	66.3	GW
TP21-06	0.2 – 5.0	3.4	24.2	72.4	GW
TP21-07	0.1 – 1.4	2.7	23.8	73.5	GW
TP21-08	0 – 3.8	6.1	27.8	66.2	GP-GM
TP21-09	0.15 – 4.0	3.2	20.1	76.7	GW
TP21-10	0 – 3.5	4.9	26.6	68.5	GW
2021 Averages		4.9	26.4	68.7	-
TP12-01	0 – 4.0	3	22	75	GP
TP12-05	2.2 – 4.3	7	33	60	GP-GM
TP12-10	1.1 – 4.6	6	31	63	GP-GM
2012 Averages		5.3	28.7	66	-

Table 2 shows the estimated percent of oversize rock as noted in the field during exploration.

Table 2: Oversize Field Estimates**2021**

Classification	Average (%)	Range (%)
Boulders (>375mm)	1	1 - 2
Cobbles (150-375mm)	2	1 - 4
Cobbles (75-150mm)	4	1 - 8

Maximum rock size observed was 1300mm.

2012

Classification	Average (%)	Range (%)
Boulders (>375mm)	0.7	0 - 3
Cobbles (150-375mm)	2.5	0 - 6
Cobbles (75-150mm)	6.5	2 - 12

Maximum rock size observed was 750mm.

Material Durability: Table 3 shows the results of the durability tests as well as the specifications as required in the Standard Specifications for Highway Construction.

Table 3: Durability Test Results

Test Pit	Sand Equivalent (%)	Micro Deval (%)		Absorption		Relative Density	
		Coarse	Fine	Coarse	Fine	Coarse	Fine
2021							
TP21-03	50						
TP21-04		9.3	12.4				
TP21-05				0.79	1.33	2.661	2.627
2012							
2012 Averages	48.2			0.79	1.33	2.691	2.648
BC MoTI Specifications							
Sand Equivalent	≥40 for base coarse and fine asphalt mix aggregate ≥20 for surfacing, sub-base and bridge end fill aggregates						
Micro Deval	≤30% for sub-base and bridge end fill aggregates ≤25% for surfacing & base course aggregates ≤18% for Class 1 Pavement asphalt mix aggregates ≤20% for Class 2 Pavement asphalt mix aggregates						
Absorption	<2.0% for coarse paving aggregates ≤1.0% for coarse and ≤1.5% for fine graded aggregate seals						
Relative Density	~2.65 for all aggregate products						

Material Suitability: Based on the 2021 and 2012 investigation results, the material is judged to be suitable for the following purposes:

Table 4: Suitability

	Pit Run	Crush
Lund Pit Suitability Area	Bridge End Fill SGSB	25mm WGB Asphalt Mix Aggregates Graded Agg Seals

The samples tested meet the gradation, sand equivalent, and micro-deval specifications for base course, subbase course, bridge end fill, and asphalt mix aggregate. Based on the absorption results the samples meet the specification for paving aggregates and coarse and fine graded aggregate seals.

Sulphate and Chloride Testing

Table 5 shows the sulphate and chloride test results for select samples from the suitability area. These results are provided for information and have not been considered for material suitability.

Table 5: Sulphate and Chloride Test Results

Test Pit	Water-Soluble Sulphate	Water-Soluble Chloride
TP21-04	<0.050	<50

Volume Estimates: Table 6 shows the volume estimates that can be expected for gravel from the proposed suitability area. This is based on the measured depths encountered during the subsurface investigation. The potential volumes of granular material were calculated by averaging the total thickness of granular material encountered in test pits and multiplying by the estimated surface area.

Table 6: Volume Estimates

Suitability Area ~0.8ha.	Topsoil	Overburden	Granular Material
Average Layer Thickness (m)			5
Volume (m³)			40,000

Pit Development Notes

- All development must be carried out in accordance with the Health, Safety, and reclamation Code for Mines in British Columbia, BC Ministry of Energy, Mines and Low Carbon Innovation (2022, or later edition), the Standard Specifications for Highway Construction, BC Ministry of Transportation and Infrastructure (2020, or later edition) and the Aggregate Operators Best Management Practices Handbook for BC.
- All trees, vegetation, and overburden are to be removed within 2m of the top of the pit faces. Topsoil, overburden, and aggregate cannot be removed within five meters of the reserve boundary.
- The processing area is recommended to be located on the pit floor as identified on the Pit Development Plan (near TP21-08), with mining proceeding in a northern direction as indicated.
- Processed aggregate may be stockpiled to the south of the production site (near TP21-01), where space permits as indicated on the Pit Development Plan.
- No dumping of debris or petroleum products will be permitted, and the site must be left in a clean and safe condition.
- At the completion of the pit development operations, but prior to the depletion of the pit, the sides of the pit faces, waste piles, and overburden stockpiles must be trimmed to a 1.5H:1V slope. Active pit faces must be reshaped with native granular materials.
- Upon depletion of the pit, all disturbed areas are to be reclaimed. The minimum reclamation procedure should include re-sloping of the pit faces and waste piles to a 2H:1V slope, contouring the area for appropriate drainage, spreading of overburden followed by topsoil, and seeding.

- Should any of the above conditions conflict with the Health, Safety, and Reclamation Code for Mines in British Columbia, then the Code will prevail.

Closure

The findings of this report and the soil conditions noted above are inferred from the extrapolation of limited surface and subsurface data collected during the site investigation. It should be noted that different and possibly poorer soil conditions may exist between the test pit locations and volume estimates may vary from those reported in this report.

Prepared by:

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Sr. Aggregate Resource Specialist

Reviewed by:

Samantha Kinniburgh
Sr. Aggregate Resource Specialist

Enclosures

Figures:

Figure 1 - Location Plan

Figure 2 - Legal Plan

Figure 3 – Pit Development Plan

Test Pit Summaries

Test Pit Logs (2021)

Test Pit Logs (2012)

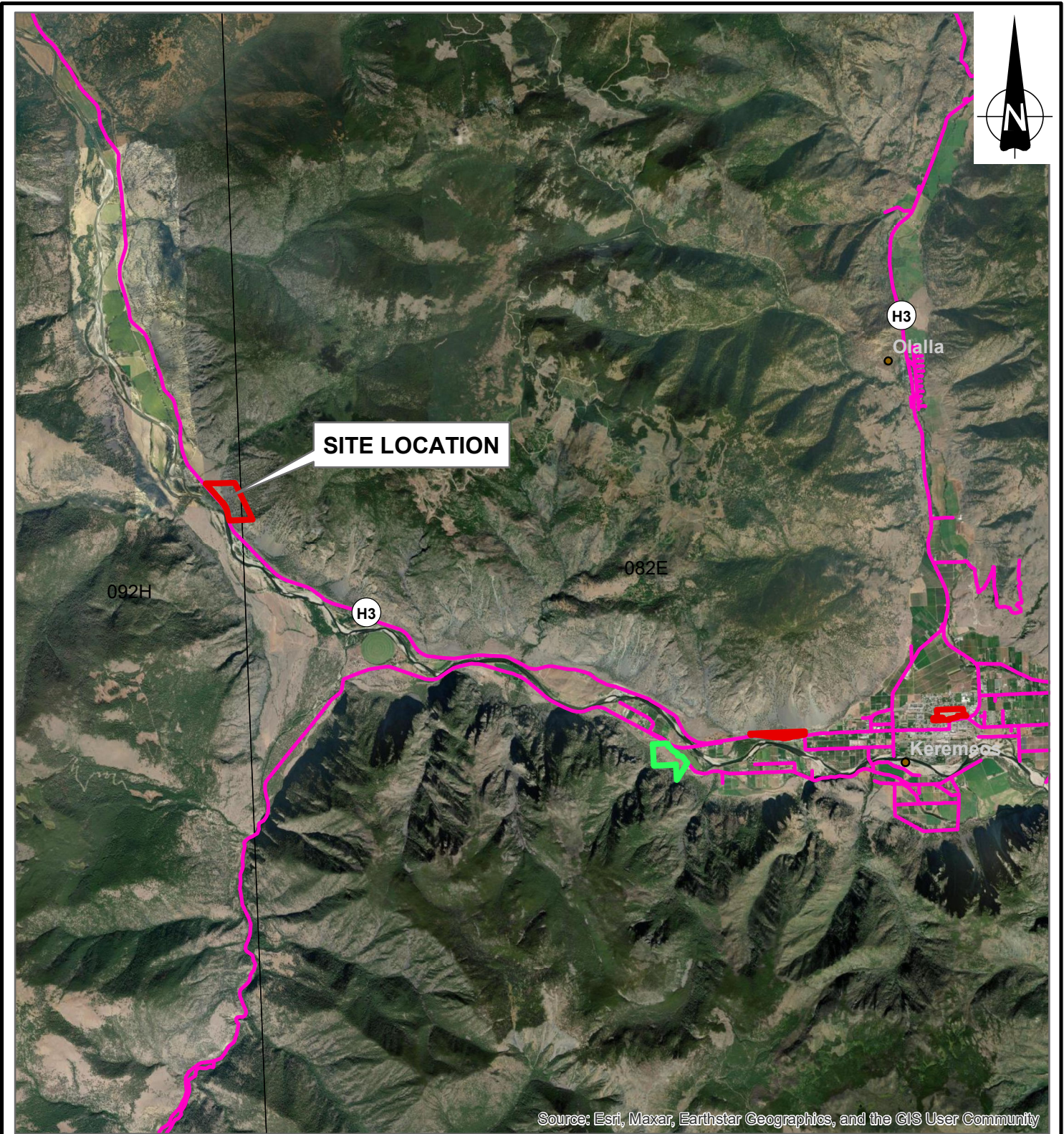
Wet Sieve Analysis Charts (2021)

Aggregate Gradation Charts (2021)

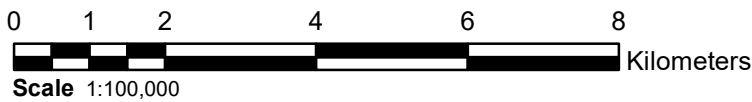
USC Legend

Photos



Figures

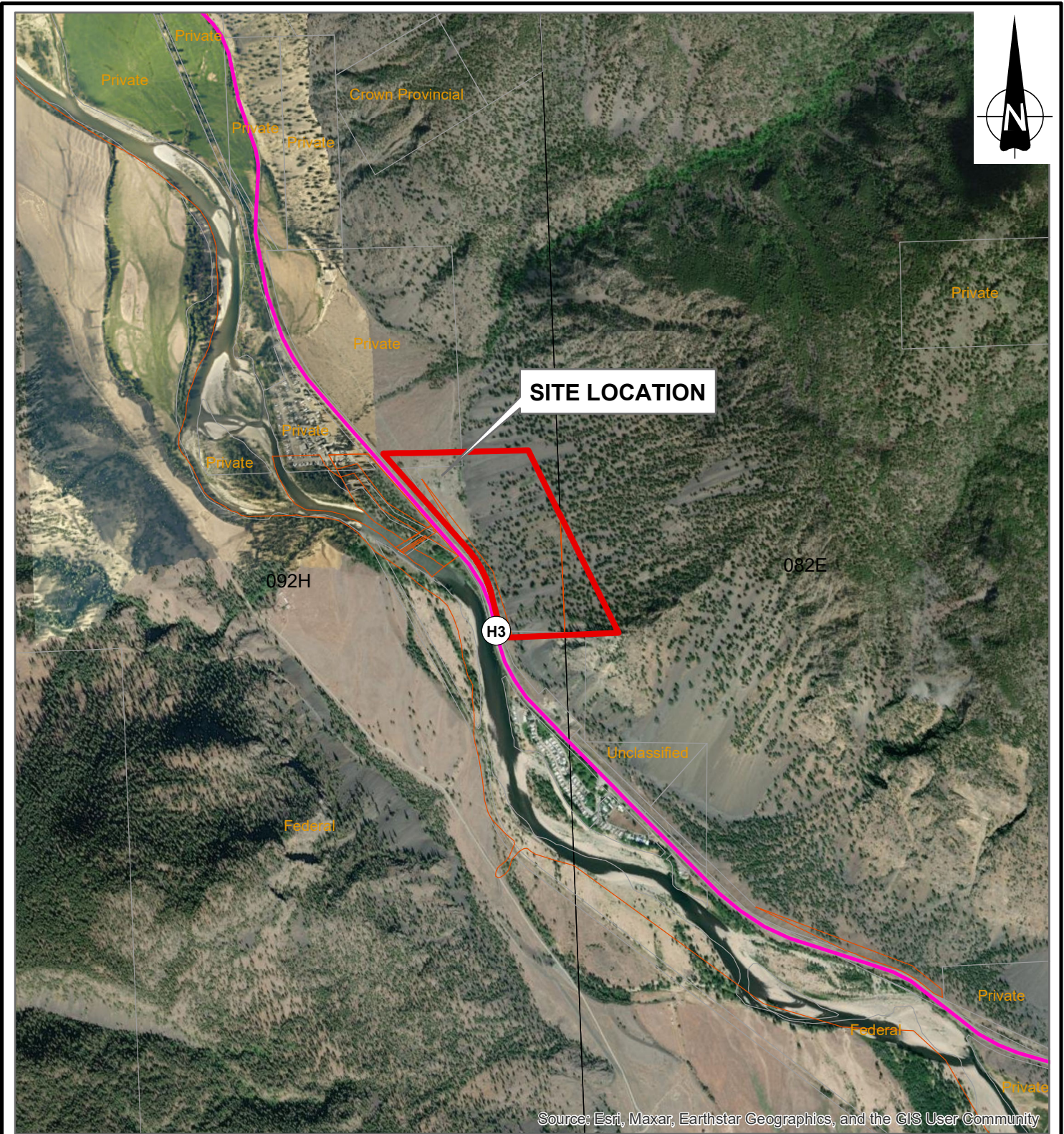


Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

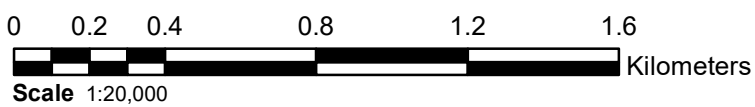


This drawing was originally produced in colour.



 Ministry of Transportation and Infrastructure Geotechnical and Materials Branch			
LOCATION PLAN (2023) Lund Pit No. 0464 SA 08 - OKANAGAN SHUSWAP DISTRICT			
DRAWN BY: LACOURTE	PROJECTION: NAD 1983 UTM Zone 10N	SCALE: As Shown	
CHECKED BY: A.Mitchell	DATUM: NAD 1983 UTM Zone 10N	DATE: 2023-11-08	
FileName: GISTemplate_Gravel_R2_2021-11-18	Geotech Project No: 	Reg: 2	
		Drawing No: FIGURE 1	

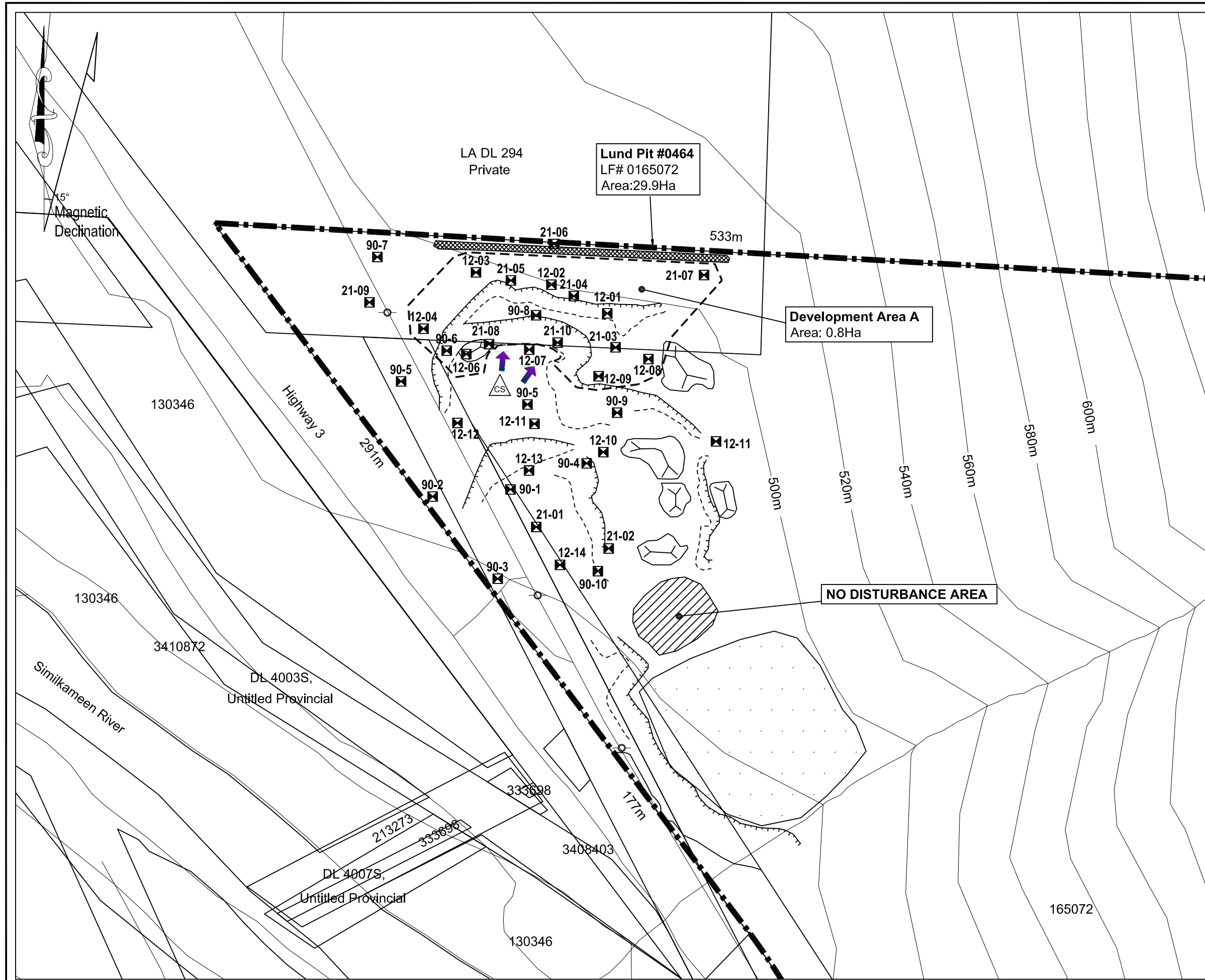


Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



This drawing was originally produced in colour.

 Ministry of Transportation and Infrastructure Geotechnical and Materials Branch			
LEGAL PLAN (2023) Lund Pit No. 0464 SA 08 - OKANAGAN SHUSWAP DISTRICT			
DRAWN BY: LACOURTE	PROJECTION: NAD 1983 UTM Zone 10N	SCALE: As Shown	
CHECKED BY: A.Mitchell	DATUM: NAD 1983 UTM Zone 10N	DATE: 2023-11-08	
File Name: GISTemplate_Gravel_R2_2021-11-18	Geotech Project No: 	Reg: 2	
		Drawing No: FIGURE 2	



PIT DEVELOPMENT LEGEND

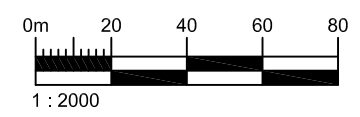
	NATURAL EMBANKMENT		TREELINE
	PIT FACE		CONTOURS
	TEST PIT		BUILDING (symbolic)
	TEST HOLE		IRON PIN
	TEST PIT (DEPLETED)		SWAMP
	ROAD		STOCKPILE
	CREEK		NO DISTURBANCE
	TRAIL		DEVELOPMENT DIRECTION
	CADASTRE		OVERBURDEN STOCKPILE
	TANTALIS		CRUSHER LOCATION
	GRAVEL RESERVE BOUNDARY		
	TRANSMISSION LINE		
	HYDRO POLE		
	DEVELOPMENT AREA A		
	PROPOSED STOCKPILE AREA		

DRAWING NOTES:

1. Base data provided from Trim Map 92H.030/82E.021 (20m Contours)
2. Cadastre and Tantalis Lines were provided from online sources.
3. Some testpits and/or testholes may not be representative of current conditions due to development and excavation done after testing.
4. Some extraction may have occurred since the last GPS survey of the pit was undertaken, therefore pit faces and stockpiles may not be representative of current conditions.

PIT DEVELOPMENT NOTES:

1. Pit development must be carried out in accordance with the Health, Safety, and Reclamation Code for Mines in BC, the current Standard Specifications for Highway Construction, and the Aggregate Operations Best Management Practices Handbook for BC.
2. Development Area A may require minor grubbing and stripping.
3. Development of Area A should commence from the existing pit face and directed towards the Northwest, North and Northeast.
4. The contractor must ensure that all materials passing through 375mm x 450mm slotted openings shall be used in the production of the crushed aggregates.
5. Pit excavations must not take place to within a minimum distance of 2m from the edge of clearing & stripped areas.
6. When the contractor discontinues operations in the pit, all working pit faces and stockpiles must be trimmed to 1.5H to 1V slope. Working pit faces must be reshaped with native granular materials. All other permanent slopes must be re-sloped to no steeper than 2H:1V.
7. No dumping of debris or petroleum products is permitted. The pit must be left in a clean and safe condition.



Ministry of Transportation and Infrastructure
 Southern Interior Region
 Geotechnical and Materials Branch

PIT DEVELOPMENT PLAN
LUND PIT #0464
 SA08 - OKANAGAN SHUSWAP DISTRICT

DRAWN BY: S.Rutz	PROJECTION: UTM Zone 11	SCALE: AS SHOWN
CHECKED BY: A.Mitchell	DATUM: NAD83	DATE: 14 November 2023
FILE NAME: 0464_f3p_2023.dwg	REG: 2	DRAWING NUMBER: FIGURE 3

Test Pit Summaries

AGGREGATE LOG

PROJECT: Lund Pit Testing
PIT #: Lund Pit #0464
DISTRICT: Okanagan Shuswap District

SAMPLED BY: L. Courtenay
METHOD: Excavator
DATE: October 6, 2021

TEST PIT NO.	DEPTH		SAMPLE BAG NO.	SOILS CLASS	ESTIMATED GRADATION			ESTIMATED ROCK 75mm				SAND TYPE F M C	REMARKS
	FROM	TO			G	S	F	MAX SIZE	75mm - 150mm	150mm - 375mm	>375mm		
21-01	0.0	2.0	21-01	Fill									Pit floor, buried red plastic @ 2m indicates fill above. Gravel and sand Less gravel after 3.1m
	2.0	3.1		GP	60	37	3	950	5	1	1	F-M	
	3.1	4.7		GP-GM	61.8	28.5	9.6						
21-02	0.0	1.5	21-02	Fill									Access ramp, fill material, buried asphalt at 0.5-1.5m Difficult to differentiate between fill and native material. Inconsistent material throughout *Not a good hole
	1.5	2.5		GP	65	31	4	650	5	1	1	F-C	
	2.5	3.5		GP-GM	63.7	30.3	6.1						
21-03	0.0	3.0	21-03	GP	70	28	2	1000	8	2	1	F-C	Top of face; brown gravel, consistent
	3.0	5.2		GW	72.3	24.6	3						
21-04	0.0	4.0	21-04	GP	65	34	1	750	5	1	1	M-C	Top of face, roots to 0.3m Consistent brown gravel
				GP-GM	65.4	28.9	5.6						
21-05	0.0	1.1	21-05	GP-GM	65	30	5	1200	3	2	2	F-C	Top of face, roots to 0.15m, some large boulders
	1.1	5.0		GP	60	38	2	400	2	1	1	F-C	Brown gravel throughout, this layer sandier
				GW	66.3	29.4	4.3						
21-06	0.0	0.2	21-06	O/B									Consistent brown gravel No large boulders here
	0.2	4.5		GP	70	28	2	200	6	1	0	F-C	
21-07	0.0	0.1	21-07	O/B									Roots to 0.9m More cobbles, large boulders Gravel and sand
	0.1	1.4		GP	70	29	1		2	1	0	M-C	
	1.4	2.9		GW	73.5	23.8	2.7						
21-08	0.0	3.8	21-08	GP	70	28	2	700	4	2	1	F-C	Pit floor
	3.8	5.5		GP-GM	66.2	27.8	6.1						
				SP	32	65	3		1	1	1	F-C	Turns sandy

AGGREGATE LOG

PROJECT: LUND
 PIT #: _____
 DISTRICT: OKANAGAN SHUSWAP

SAMPLED BY: Bill Richards
 METHOD: Excavator
 DATE: MARCH 7 2012

TH / TP	DEPTH		SAMPLE BAG No.	SOILS CLASS	ESTIMATED GRADATION			ESTIMATED ROCK 75mm				SAND TYPE F M C	REMARKS
	FROM	TO			G	S	F	MAX SIZE	75mm - 150m m	150m m - 375m m	375m m		
12-01	0.0	4.0	728	GP	75	22	3	150	4	0	0		LAB TEST -VISUAL TEST CONSISTENT GRAVELS
12-02	0.0	4.0		GP	62	34	4	350	6	2	0		CONSISTENT GRAVELS
12-03	0.0	0.3		TS									
	0.3	4.3		GP	72	25	3	150	7	1	0		VERY ROCKY
12-04	0.0	0.2		TS									
	0.2	2.0		GP	71	26	3	200	7	3	0		LARGER ROCK AT 2M
	2.0	4.3		GP/GM	75	19	6						
12-05	0.0	2.2		GP	72	25	3						
	2.2	4.3	729	GP/GM	60	33	7	600	12	5	1		LARGE BOULDERS
12-06	0.0	0.2		OB									PIT FLOOR
	0.2	4.3		GP	72	24	4	350	10	4	2		
12-07	0.0	0.2		OB									PIT FLOOR
	0.2	4.0		GP	73	23	4						
12-08	0.0	1.0		OB									
	1.0	4.2		GP	76	21	3	750	7	6	3		LB
12-09	0.0	0.2		OB									
	0.2	4.0		GP	66	31	3	450	4	2	1		FINER GRAVEL
12-10	0.0	0.2		TS									
	0.2	1.1		OB									
	1.1	4.6	730	GP/GM	63	31	6	150	2	0	0		

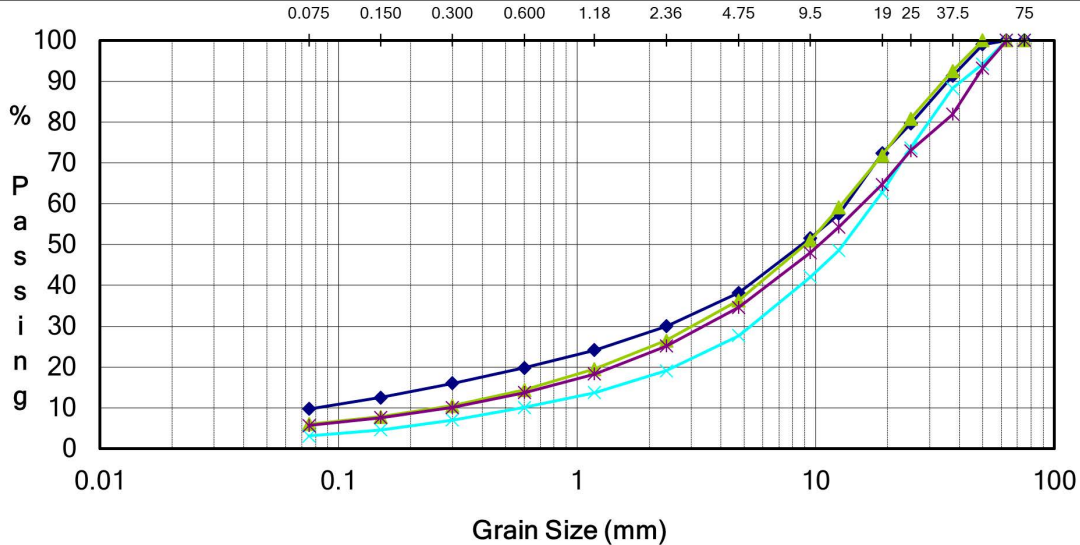
**PROJECT REPORT OF
 SIEVE ANALYSIS SUMMARIES**

PERCENT PASSING

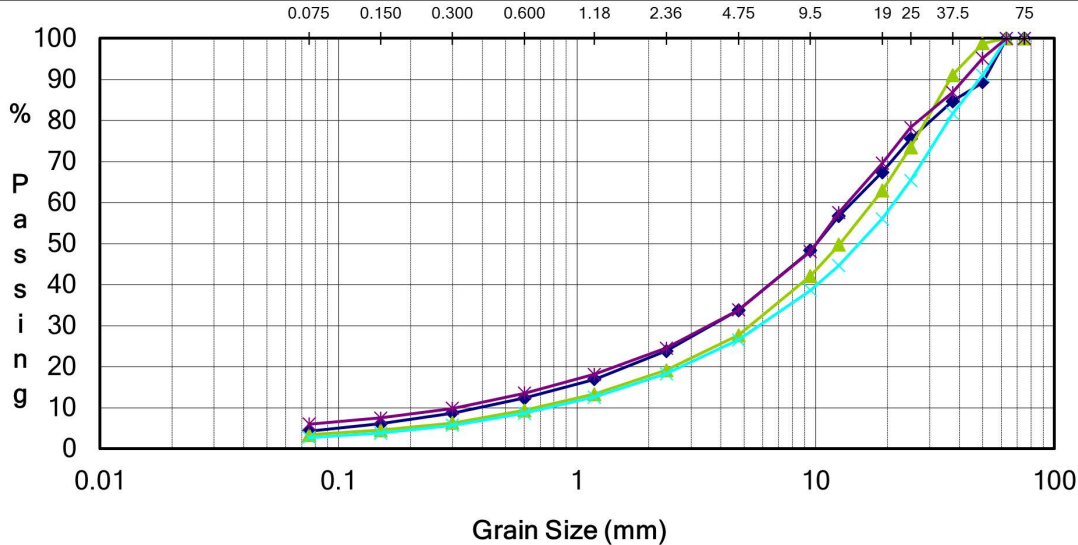
Project: Lund Test Pitting
 Sample Source: Lund Pit #0464
 Material: PIT RUN

Project No.: 0
 Client: 0
 Date: 06 Oct 2021

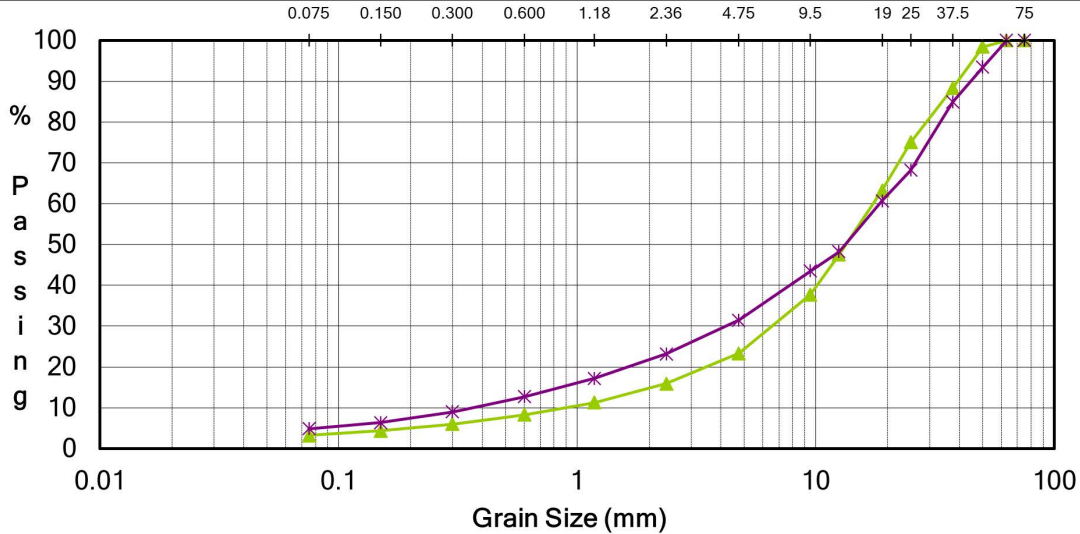
Sample Information			Percent Passing														
Test Pit	Depth (m)	Bag #	Pit Run Sieve Sizes (mm)														
			75	63	50	37.5	25	19	12.5	9.5	4.75	2.36	1.18	0.6	0.3	0.15	0.075
21-01	2 - 3.1	1	100.0	100.0	99.0	91.3	79.6	72.3	57.5	51.6	38.2	30.0	24.1	19.8	16.0	12.5	9.7
21-02	1.5 - 2.5	2	100.0	100.0	100.0	92.5	80.8	71.8	59.1	51.0	36.3	26.5	19.5	14.4	10.5	7.8	6.0
21-03	0 - 3.0	3	100.0	100.0	94.2	88.2	73.7	62.7	48.6	42.1	27.7	19.1	13.7	10.1	7.0	4.6	3.1
21-04	0 - 4.0	4	100.0	100.0	93.2	81.9	73.0	64.7	54.3	48.0	34.6	25.1	18.3	13.7	10.1	7.6	5.7
21-05	1.1 - 5.0	5	100.0	100.0	89.3	84.7	75.5	67.4	56.7	48.3	33.7	23.8	16.9	12.3	8.7	6.1	4.3
21-06	0.2 - 5.0	6	100.0	100.0	98.8	91.1	73.5	62.9	49.7	42.1	27.6	19.1	13.3	9.3	6.3	4.5	3.4
21-07	0.1 - 1.4	7	100.0	100.0	91.1	81.6	65.4	56.0	44.7	38.6	26.5	18.3	12.6	8.6	5.7	3.8	2.7
21-08	0 - 3.8	8	100.0	100.0	95.2	86.8	78.3	69.6	57.6	48.1	33.8	24.5	18.1	13.5	9.8	7.5	6.0
21-09	0.15 - 4.0	9	100.0	100.0	98.4	88.3	75.0	63.3	47.5	37.7	23.3	15.9	11.3	8.3	6.0	4.4	3.2
21-10	0 - 3.5	10	100.0	100.0	93.4	84.9	68.2	60.7	48.2	43.5	31.5	23.2	17.2	12.7	9.0	6.4	4.9
MAX			100.0	100.0	100.0	92.5	80.8	72.3	59.1	51.6	38.2	30.0	24.1	19.8	16.0	12.5	9.7
MIN			100.0	100.0	89.3	81.6	65.4	56.0	44.7	37.7	23.3	15.9	11.3	8.3	5.7	3.8	2.7
SD			0	0	3.659144	3.850267	4.800231	5.146995	5.19304	4.969686	4.821664	4.339547	3.85198362	3.459945	3.060301	2.568527	2.099735
MEAN			100	100.0	95	87.1	74	65.1	52	45.1	31	22.6	17	12.3	9	6.5	5
MEAN-2SD			100	100.0	87.9	79.4	64.7	54.8	42.0	35.2	21.7	13.9	8.8	5.4	2.8	1.4	0.7
MEAN+2SD			100	100.0	100.0	94.8	83.9	75.4	62.8	55.0	41.0	31.2	24.2	19.2	15.0	11.7	9.1



- ◆ Test Pit 21-01 , Depth 2 - 3.1 m, Bag # 1
- ▲ Test Pit 21-02 , Depth 1.5 - 2.5 m, Bag # 2
- × Test Pit 21-03 , Depth 0 - 3.0 m, Bag # 3
- * Test Pit 21-04 , Depth 0 - 4.0 m, Bag # 4



- ◆ Test Pit 21-05 , Depth 1.1 - 5.0 m, Bag # 5
- ▲ Test Pit 21-06 , Depth 0.2 - 5.0 m, Bag # 6
- × Test Pit 21-07 , Depth 0.1 - 1.4 m, Bag # 7
- * Test Pit 21-08 , Depth 0 - 3.8 m, Bag # 8



▲ Test Pit 21-09 , Depth 0.15 - 4.0 m, Bag # 9
* Test Pit 21-10 , Depth 0 - 3.5 m, Bag # 10

USC Legend

MATERIALS CLASSIFICATION LEGEND

MAJOR DIVISIONS	SYMBOL	SOIL TYPE	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GW	WELL GRADED GRAVELS OR GRAVEL-SAND MIXTURES, < 5% FINES
		GP	POORLY-GRADED GRAVELS OR GRAVEL-SAND MIXTURES, < 5% FINES
		GM*	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
		GC*	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
	SAND AND SANDY SOILS	SW	WELL-GRADED SANDS OR GRAVELLY SANDS, < 5% FINES
		SP	POORLY-GRADED SANDS OR GRAVELLY SANDS, < 5% FINES
		SM*	SILTY SANDS SAND-SILT MIXTURES
		SC*	CLAYEY SANDS SAND-CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS $w_L < 50$	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		OL	ORGANIC SILTS AND ORGANIC SILT-CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS $w_L > 50$	MH	INORGANIC SILTS, MICACEOUS OR DIATOM-ACEOUS FINE SANDY OR SILTY SOILS, PLASTIC SILTS
		CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
		OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
ORGANIC SOILS	Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS	
TOPSOIL	TS	TOPSOIL WITH ROOTS, ETC.	
COBBLES	SB	ROCK FRAGMENTS AND COBBLES, PARTICLE SIZE 75mm TO 300mm	
LARGE BOULDERS	LB	BOULDERS, PARTICLE SIZE OVER 300mm	
BEDROCK	BR	BEDROCK	
FOR SOILS HAVING 5 - 12% PASSING .075 SIEVE, USE DUAL SYMBOL *GM1; GC1; SM1; SC1; 12 - 20% GM2; GC2; SM2; SC2; 20 - 30% GM3; GC3; SM3; SC3; 30 - 40% GM4; GC4; SM4; SC4; 40 - 50%			

} PASSING .075mm SIEVE

REV. 90-04-26



PROVINCE of BRITISH COLUMBIA
MINISTRY OF TRANSPORTATION & HIGHWAYS
Geotechnical & Materials Engineering

UNIFIED SOIL CLASSIFICATION LEGEND

Drawn: LU	Date: JULY'97	Scale:
File No.:	ACAD File: ACADSTDS 830205\SOIL-APP	

Photos

Site Photographs:



Photo 1 View of the pit floor and crusher set-up location from the top of the pit face (July 2021).



Photo 2 View of the pit face, some minor stripping of shrubs is required (Oct. 2021). Note the power lines running along the west side of the pit (on the far left of the photo). The proposed mining area is to the east of the powerlines.



Photo 3 TP21-03 test pit and spoil pile (well-graded gravel) (Oct. 2021).



Photo 4 TP21-05 test pit and spoil pile (well-graded gravel). Located at the top of the pit face (Oct. 2021).



Photo 5 TP21-06 test pit and spoil pile (well-graded gravel). Located farther back from the pit face along the northern pit boundary (Oct. 2021).



Photo 6 TP21-10 test pit and spoil pile (well-graded gravel). Test pit is located on the pit floor at the base of the pit face (Oct. 2021).