



WOLVERINE MINE

INDUSTRIAL COMPLEX

AS-CONSTRUCTED REPORT AND DRAWINGS

Prepared for:

Yukon Energy, Mines and Resources
Quartz Mining License QML-0006 Condition 7.8

Yukon Water Board

Type A Water Use Licence QZ04-065 Section 33

Prepared by:

Yukon Zinc Corporation
Vancouver, British Columbia

April 5, 2011

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1 Introduction

This report provides as-constructed details pertaining to the construction of industrial complex surface infrastructure and airstrip extension for Yukon Zinc Corporation's (YZC) Wolverine Mine. This report has been prepared to satisfy requirements of Quartz Mining License QML-0006 (QML) Condition 7.8:

Within sixty (60) days of completing construction of the infrastructure at the site, the Licensee must submit a written report to the Chief containing: as-built drawings of all structures, works and installations constructed; and a summary of any quality assurance or quality control monitoring conducted.

And within Type A Water Licence QZ04-065 (A-Licence) Part D Condition 33:

As-constructed (record) drawings and construction reports, including quality assurance and quality control documentation, for all structures and facilities shall be submitted to the Board within 90 days of the completion of construction. Each submission shall be sealed by a Professional Engineer licenced to practice in Yukon.

This report summarizes the as-construction details of certain infrastructure outlined in the *Wolverine Project General Site Plan V2008-04* (GSP), and including the addendums to the plan regarding an increase in the work camp size (approved March 27, 2009) and an airstrip extension (approved August 27, 2010). Details of infrastructure not summarized herein are contained in the following reports, which have previously been submitted to Energy, Mines and Resources and to the Yukon Water Board:

1. Wolverine Project Sump #3 Construction Report and Drawings – February 24, 2009
2. Wolverine Project Landfill Area Construction Report and Drawings – September 10, 2009
3. Wolverine Project STP Sump Construction Report and Drawings – June 29, 2009
4. Wolverine Project Ditch A and B Construction Report and Drawings – June 29, 2009
5. Wolverine Project Ditch 3 and 4 Construction Report and Drawings – October 5, 2009
6. Wolverine Project Sump #3 Construction Report and Drawings – February 24, 2009
7. Wolverine Project Starter Tailings Storage Facility – 2009 Civil Works Construction Summary Report – May 12, 2010.
8. Wolverine Project Starter Tailings Storage Facility – 2009 Civil Works Construction Summary Report – May 12, 2010.
9. Wolverine Project - 2010 Civil Works Addendum to Starter Tailings Storage Facility – 2009 Civil Works Construction Summary Report – to be submitted in April, 2011.

This report details the general layout, completed construction activities, geochemical site investigations, and QA/QC activities for the Mine industrial complex and airstrip.

2 General Site Description

The Wolverine Mine, located in the southeast Yukon (Figure 2-1), is a zinc-silver-copper-lead-gold underground mine that will mill up to 1,700 t/d of diluted ore. Construction of the project was completed over a two year period (late 2008 to late 2010). In late 2010, the mill was commissioned and based on a current reserve of 5.2 Mt, the operating phase will be 9.5 years. The reclamation and closure phase will occur over a three-year period as previously described in the *Wolverine Project Reclamation and Closure Plan V2008-02*. Figure 2-2 and Figure 2-3 (site layouts originally provided in the GSP), show the original layout for the site infrastructure (as of November 25, 2008).

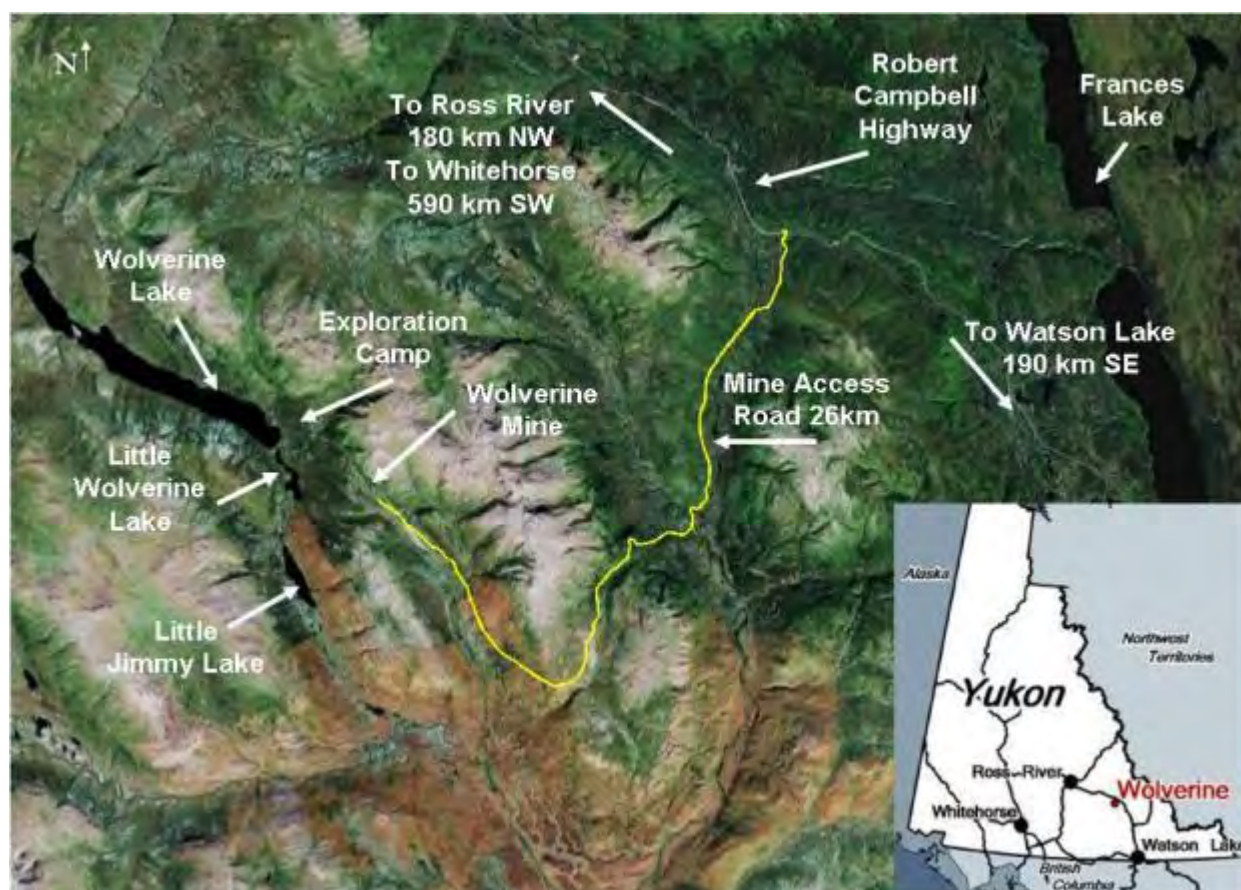


Figure 2-1: Location of Yukon Zinc Corporation's Wolverine Mine in the South east Yukon

3 Construction Details

Commencing in fall 2008, detailed design was undertaken by various engineering firms and issued for construction drawings were issued throughout the development phase. The section below documents the final layout and design details for infrastructure completed during the late 2008 to late 2010 construction period. Environmental monitoring reports for all construction activities were prepared by the YZC Environmental Department during the construction phase, and are provided in the 2008, 2009 and 2010 *QML-0006 Annual Reports*. The reports summarize construction activities, the level of completeness, the areas of disturbance with environmental implications, as well as activities undertaken to protect the surrounding environment.

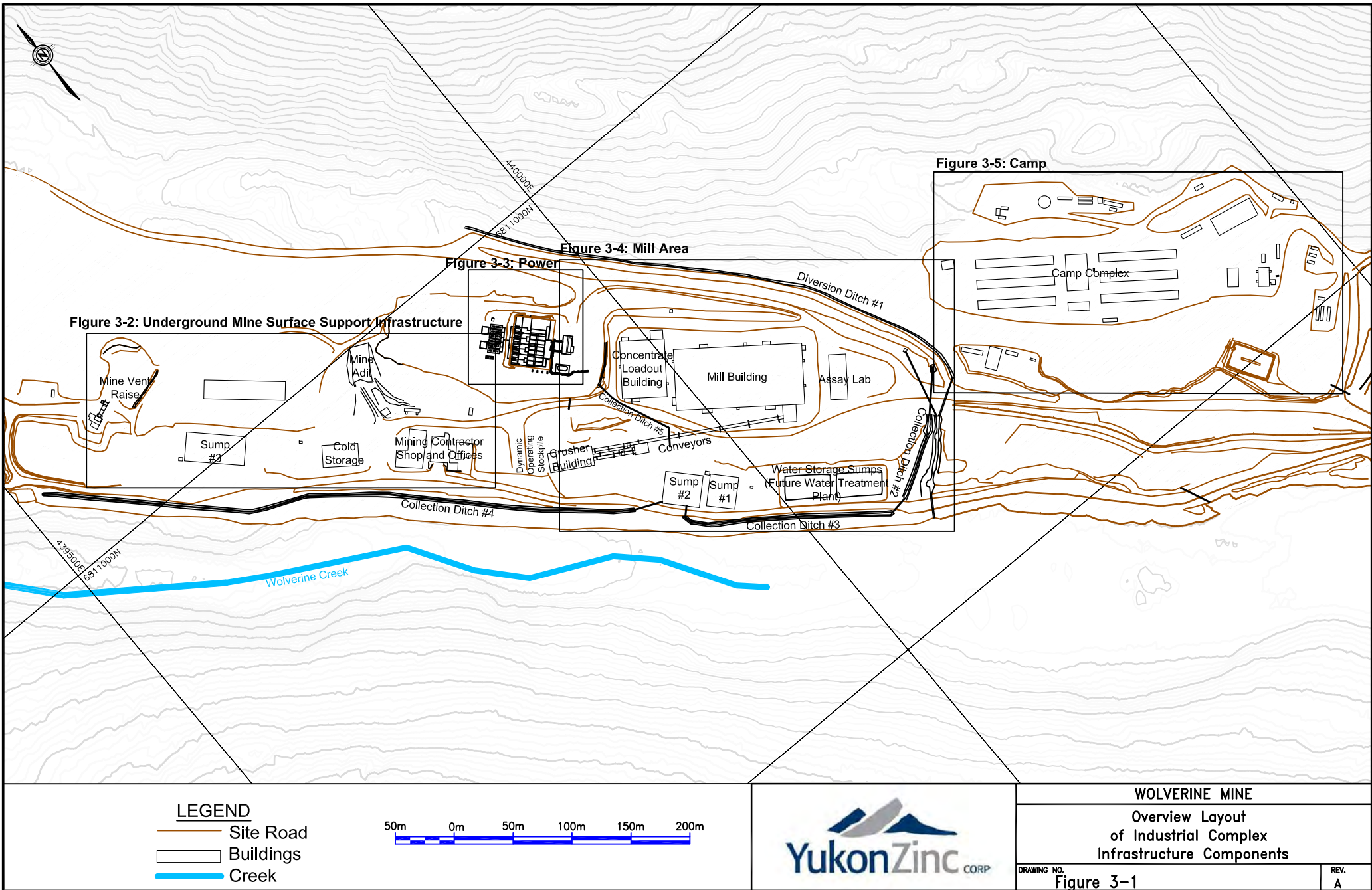
3.1 Industrial Complex

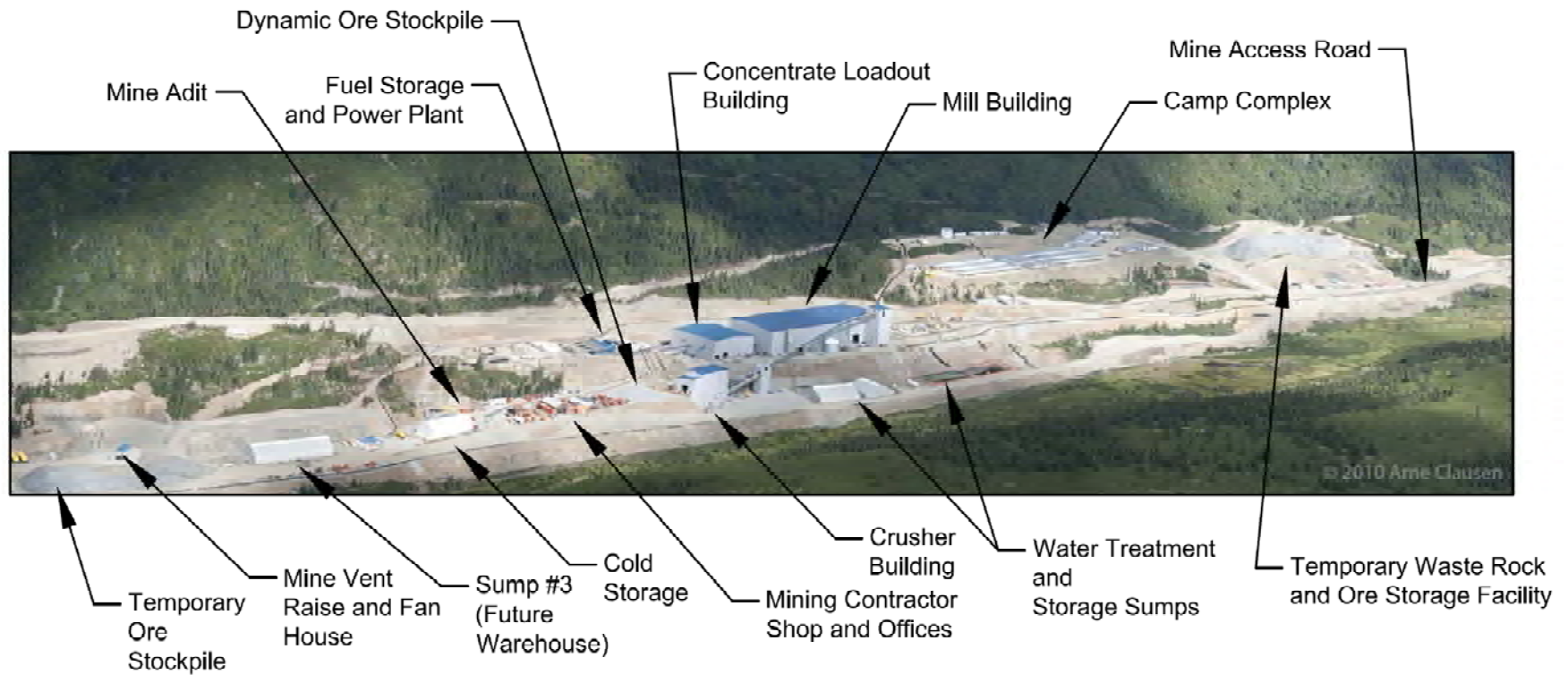
The industrial complex is the area of the mine site that contains the facilities associated with the milling and mining of the underground mine. As mentioned above, as-constructed reports for certain aspects of the industrial complex have already been submitted, and additional information on milling equipment and methods, concentrate production, storage and handling, the power plant, and fuel storage, can be found in the *Wolverine Mine Mill Operating Plan V2010-02*.

The as-constructed infrastructure at the industrial complex contains many of the same components as originally proposed in the GSP, however, there were a few changes during detailed design, and the sections below summarize the as-constructed details for the following:

- Mining surface infrastructure;
- Power generation infrastructure;
- Mill and associated infrastructure; and
- Work camp and supporting infrastructure.

The as-constructed layout drawing of the industrial complex is provided in Figure 3-1, and the industrial complex as of August 2010 is shown in Picture 3-1. Detailed layout as-constructed drawings are provided below for the above areas, and select cross-sections of the mill, crusher and concentrate load-out buildings are also provided; however, the complete detailed as-constructed drawings for the buildings are not supplied herein, but are available upon request.





Picture 3-1: Overview of Industrial Complex Infrastructure

3.1.1 Wolverine Underground Mine Support Infrastructure

Surface infrastructure at the Wolverine Mine is located proximal to the mine adit, which was excavated in 2005. The major infrastructure that supports activities associated with underground mining, including fire water, electrical, propane, potable water and sewage water pipelines are shown in Figure 3-2. Surface infrastructure consists of:

- A cold storage building to store shotcrete and other materials that don't require heated warehousing (Picture 3-2);
- Mining contractor generator and fuel storage area; maintenance shop; and office (Picture 3-2);
- Air compressor and motor control centre (MCC) to supplement the forced air into the mine via the main ramp (Picture 3-3); and
- A mine fan house and raise for the ventilation of the underground (Picture 3-4).

There is also a settling sump that received water from the underground, contained within a Sprung Structure that will become a warehouse in 2011 (labelled "future warehouse" in Figure 3-2).

Construction design drawings for this area also included a truck shop, fresh water pond, shotcrete plant, diversion ditch #6, dynamic operating stockpile and underground equipment wash station. These structures were not constructed or installed during this past construction phase. The truck shop construction has been deferred, and the future location is shown in Figure 3-2. A shotcrete plant was not constructed and the freshwater pond is no longer required. Diversion ditch #6 was deemed unnecessary due to the natural sloping of the terrain above the vent raise and propane storage area. The dynamic operating stockpile was moved to east of the mining contractors office (Figure 3-2) for closer access to the crusher.

In addition, a temporary ore stockpile area was established in early 2010 during underground pre-production development to allow for commission of the mill in fall 2010 (see Figure 3-1 and Picture 3-1 for location).



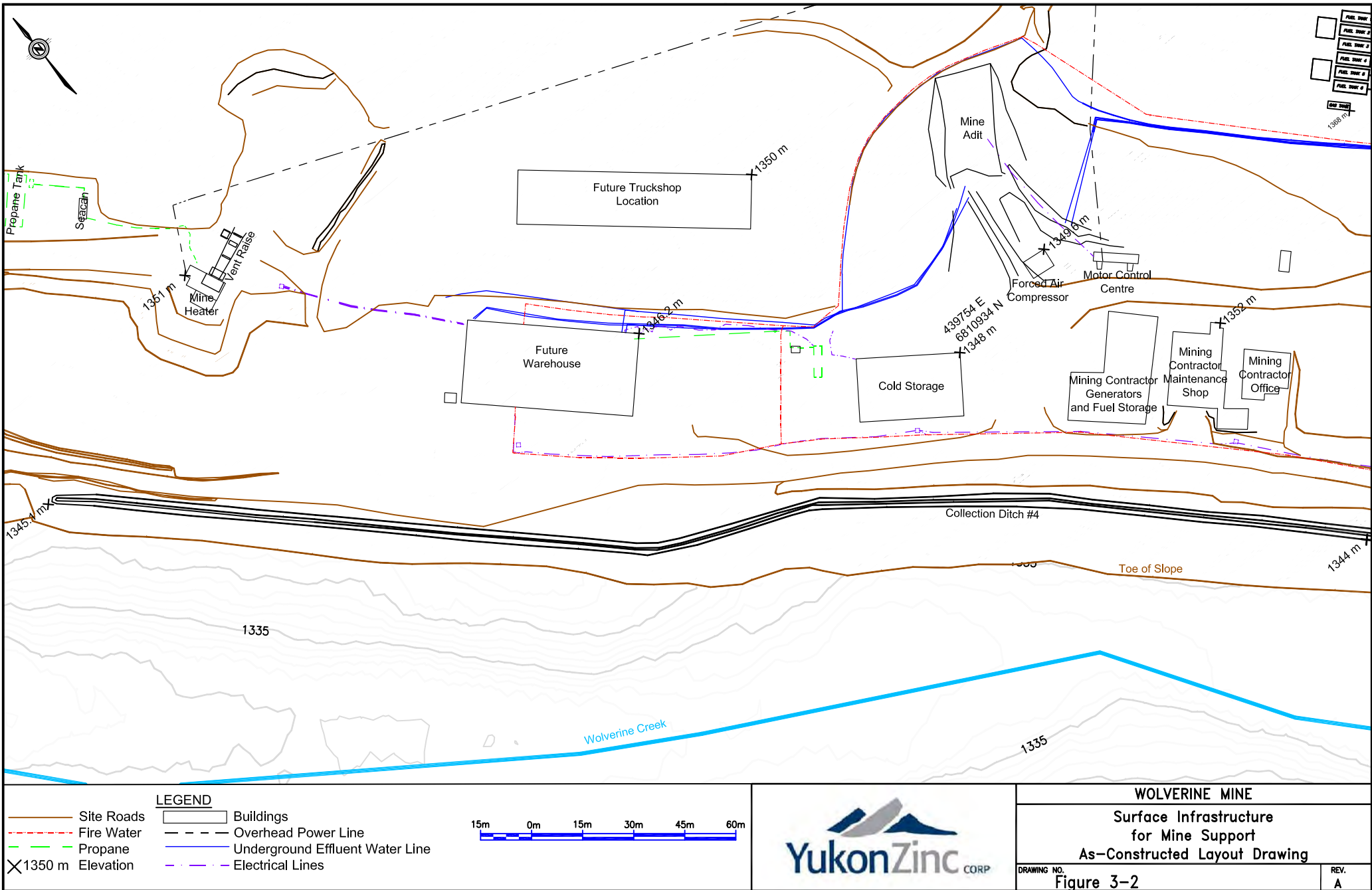
Picture 3-2: Mining Contractor Office, Maintenance Shop and Cold Storage Buildings with Fuel Storage



Picture 3-3: Mine Adit with Ventilation Fan and Tubing Entering Main Ramp



Picture 3-4: Mine Heater Fan House and Ventilation Raise

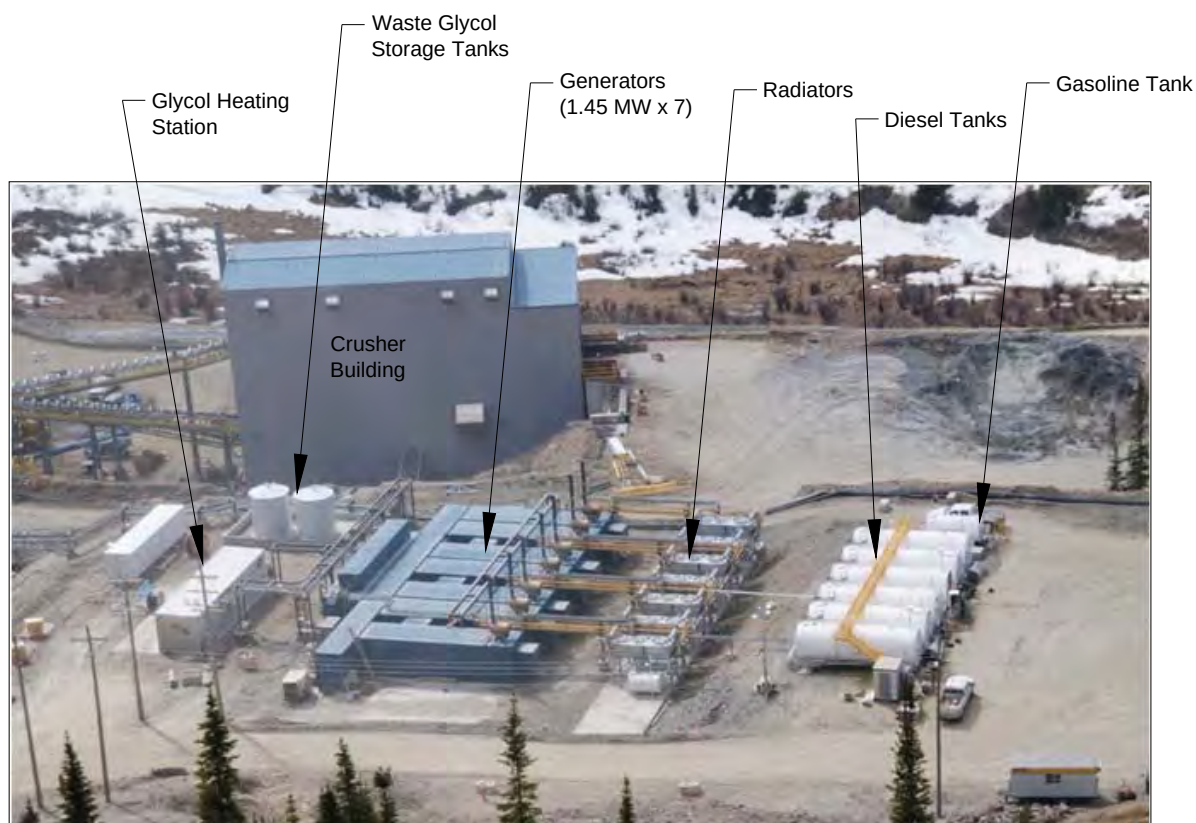


3.1.2 Power Generation Area

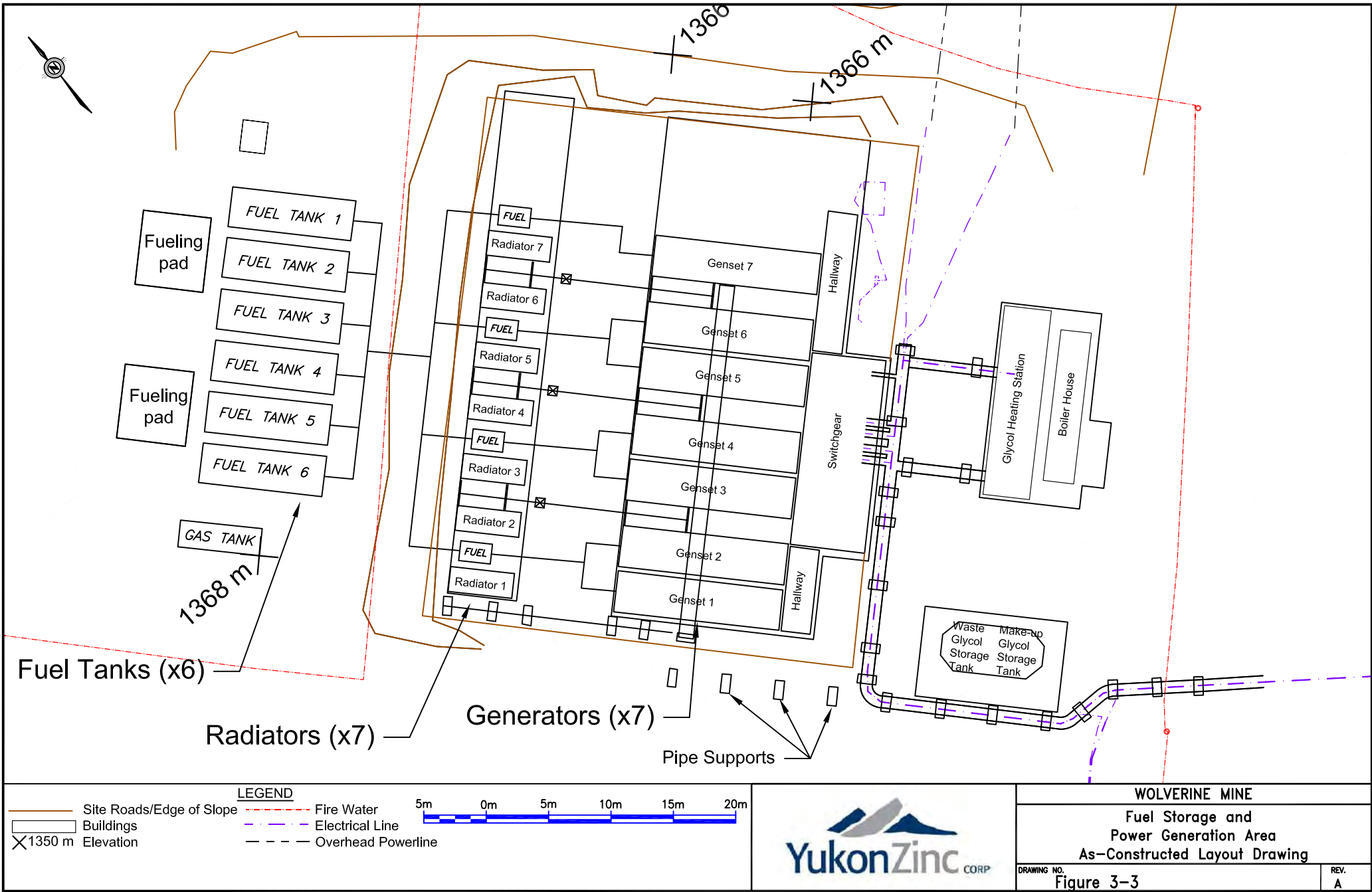
Power generation at the Wolverine Mine is provided by seven diesel generators (1.45 MW each), fed by six diesel fuel tanks (75,000 L capacity), and cooled by seven radiators. The glycol system is incorporated to utilize the heat produced by the generators (gensets) and distribute the heated glycol around the industrial complex to provide heating for various other structures and facilities described elsewhere in this report. The overall layout of the fuel storage and power generation area is provided in Figure 3-3, and a photo is provided in Picture 3-5.

The six fuel tanks are piped to a joined header that then distributes the fuel to one of four “day-tanks”. The day-tanks then directly feed two gensets (the fourth day tank only feeds the seventh genset, but has a provision for an eighth genset, should it be required). The radiators are used to cool the engines in the gensets, and transfer the waste heat produced by the gensets to the glycol system. The glycol is stored in the glycol heating station, and is heated to $\sim 90^{\circ}\text{C}$ prior to being distributed around the site (see Figure 3-3), and returns to the system at $\sim 60^{\circ}\text{C}$. At very low ambient temperatures, the boiler house is used to supplement the heat produced by the gensets. A waste glycol storage tank (for glycol drained from pipes during maintenance activities), and a make-up glycol storage tank, is also located at the power generation area.

Gasoline for fuelling of small equipment and vehicles is also stored at the power generation area in an 8,500 L tank. The diesel tanks are also used for fuelling of on-site vehicles.



Picture 3-5: Fuel Storage and Power Plant



3.1.3 Mill Buildings and Associated Infrastructure

As mentioned above, a description of the milling infrastructure at the Wolverine Mine is provided in the *Wolverine Mine Mill Operating Plan V2010-02*. However, the main infrastructure constructed in the 2008 – 2010 is summarized below. Milling infrastructure at the Wolverine Mine includes:

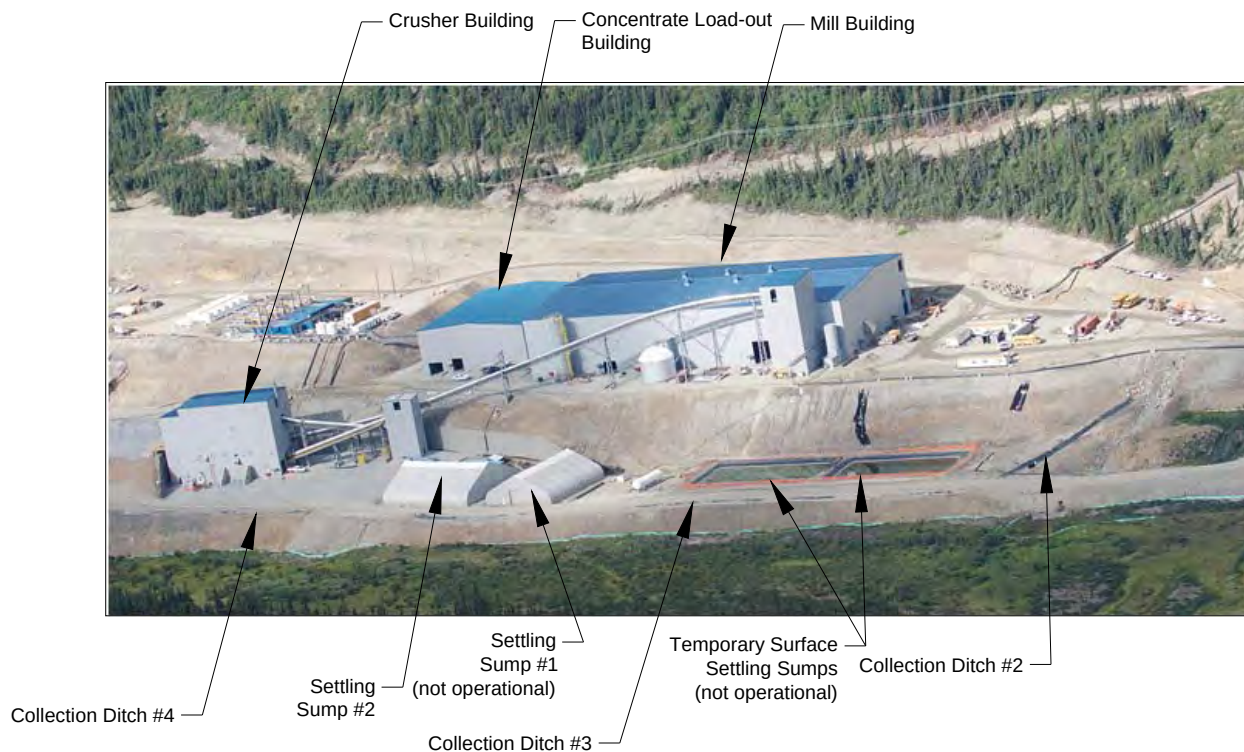
- A crusher building;
- Mill building;
- Concentrate load-out building;
- Assay lab;
- Settling/storage sump (Sump #2);
- Feed conveyors; and
- Collection and diversion ditches for surface water runoff management.

This major infrastructure, and associated fire water, electrical, propane, potable water and sewage water pipelines as-constructed drawing is provided in Figure 3-4 and the completed infrastructure as of August 2010 is shown in Picture 3-6.

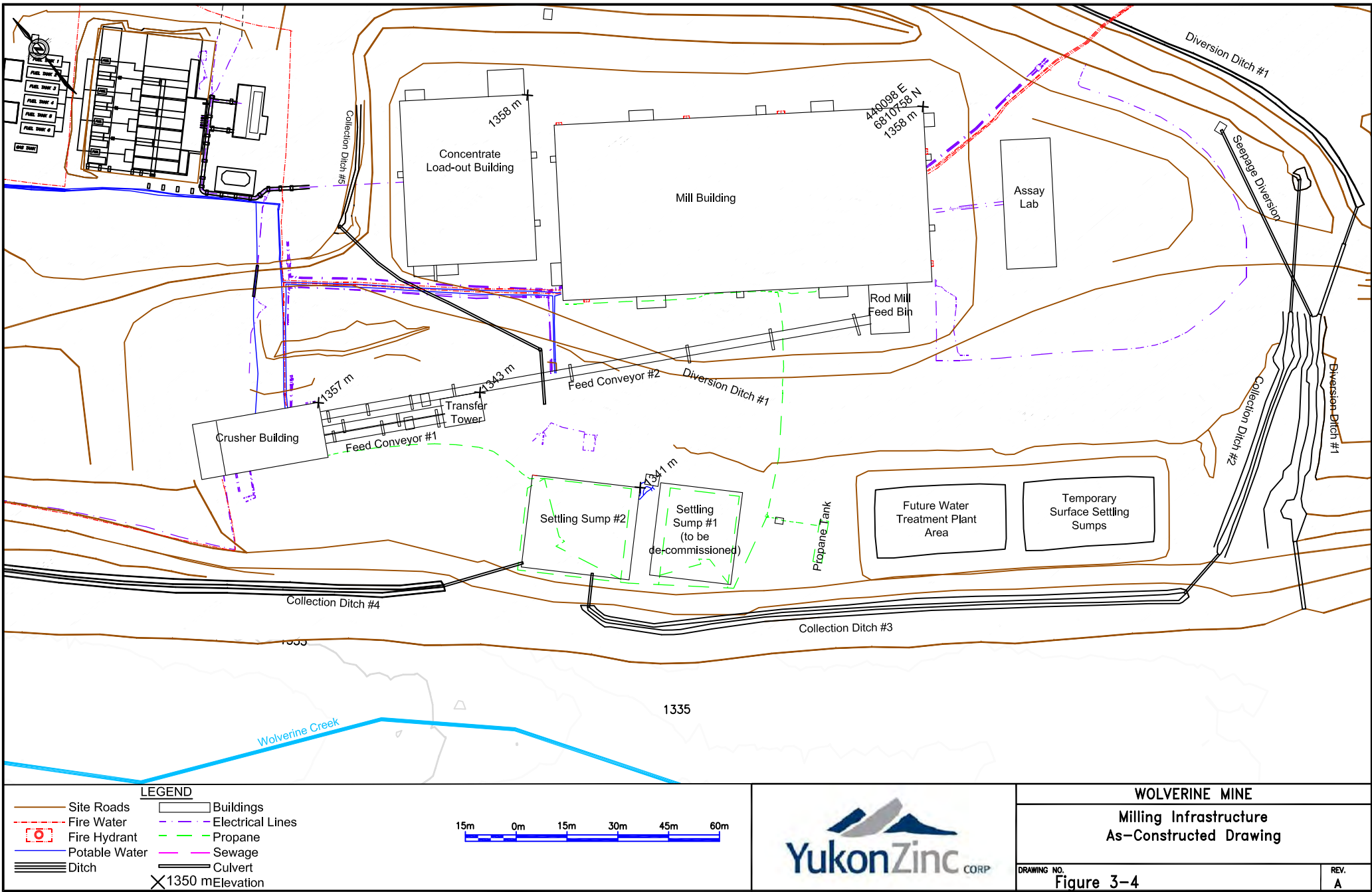
Alterations to the original for-construction drawings include:

- The gradient of the collection ditches 3 and 4 were adjusted to feed allow flow via gravity of surface runoff into Sump #2.
- The administration building was moved from the mill pad to the camp complex area (see Section 3.1.4), and the assay lab was constructed in this location. The assay lab is currently under construction, and is expected to be complete and operational in the second quarter of 2011.
- Existing Sump #2 was used for the operation's settling sump, instead of constructing a new sump further down slope.

As-constructed drawings for the individual buildings (e.g., mill, crusher and concentrate load-out) were provided by the contracted building installation company, and are available upon request. A section of the as-constructed mill building is provided in Figure 3-5, and the overall secondary elevations, as-constructed is provided in Figure 3-6.



Picture 3-6: Milling Infrastructure

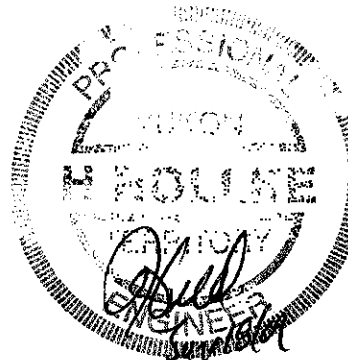


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REV	DATE M/D/Y	DR	APP	REVISION
B	05/05/09	DM	...	FINAL ERECTION DRAWINGS
A	03/30/09	JMG	...	PRELIMINARY CONSTRUCTION DWGS.

Seal

STILL CREEK ENGINEERING LTD.

Suite 205-3991 Henning Dr.
Burnaby, B.C., V5C 6N5
Tel. (604) 299-1169
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File No. 08029

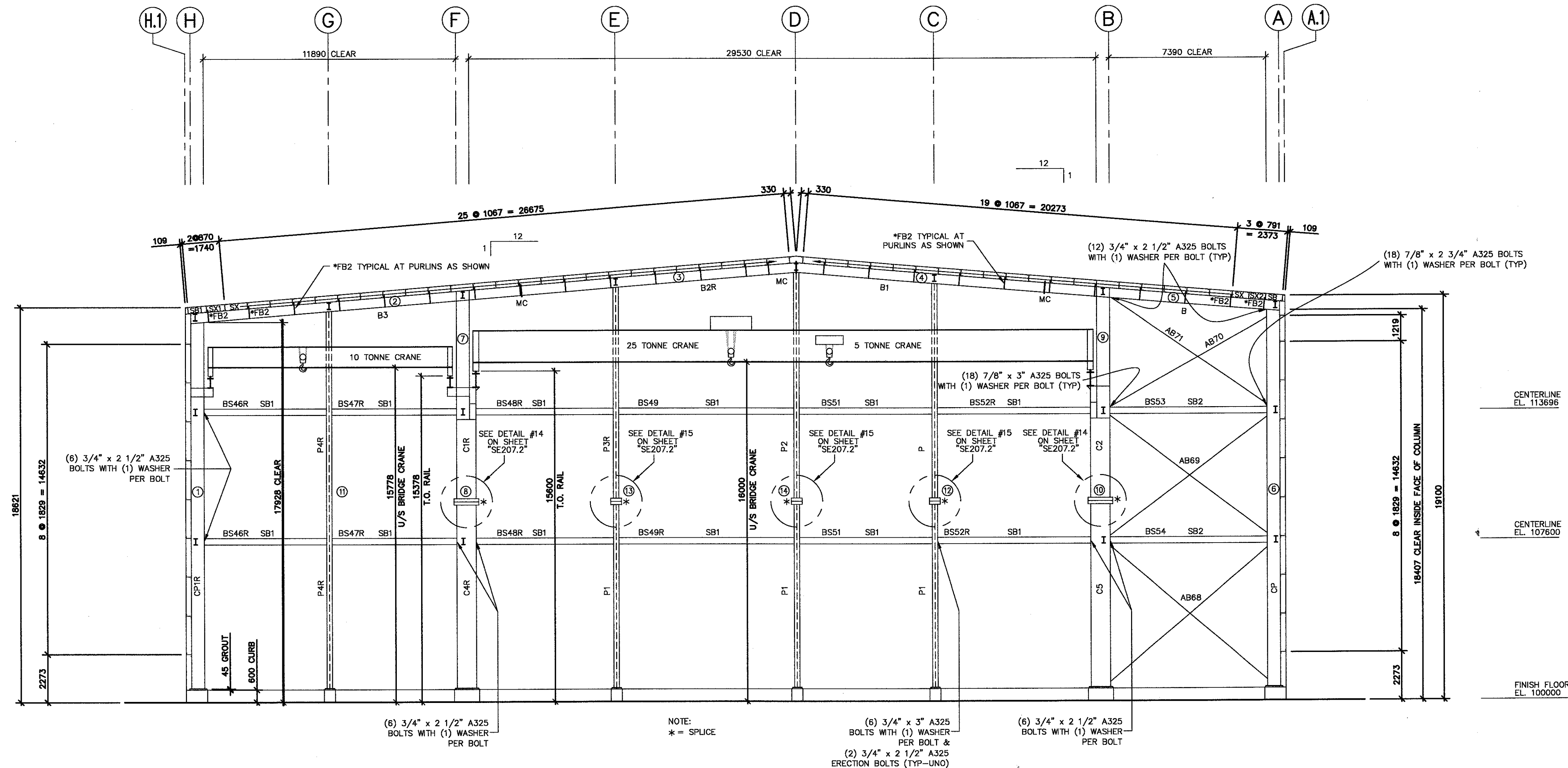
Project
**YUKON ZINC -
WOLVERINE PROJECT
E0-BLD-298
MILL BUILDING**
YUKON ZINC P.O. #E100006

Drawing Title

**FRAME SECTION
LINE 1**

MILL BUILDING

Date: JAN 2009	Project No. 08029
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Drawn By: A.TEB	Drawing No. SE205.1
Approved By: 08029SE205.DWG 1:125	GBS JOB# 29600 12-B-25211 MAR. 20, 2009 > 15:00

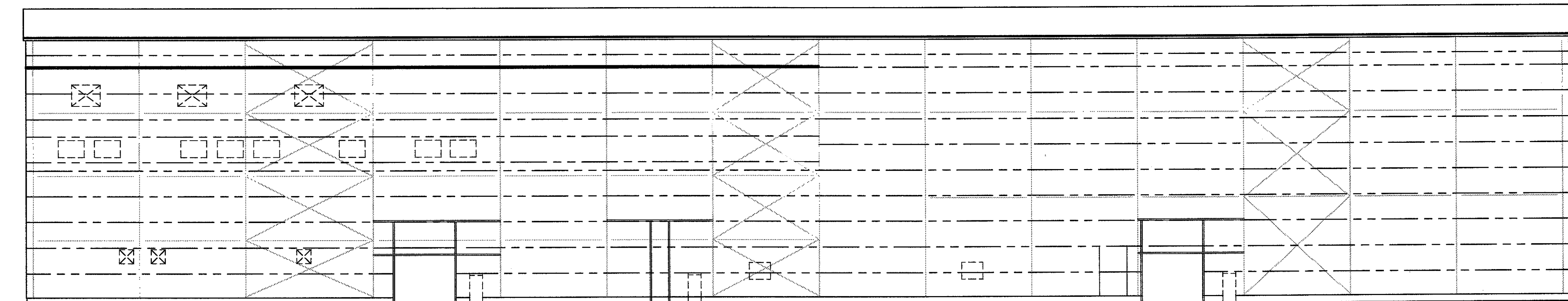


FRAME SECTION LINE 1

MC - DENOTES MOMENT CONNECTION
SB - DENOTES STRUT BEAM - SEE TABLE
FB - DENOTES FLANGE BRACE L64 x 64 x 5
WALL BRACING L102 x 102 x 6 TYP. U.N.O.

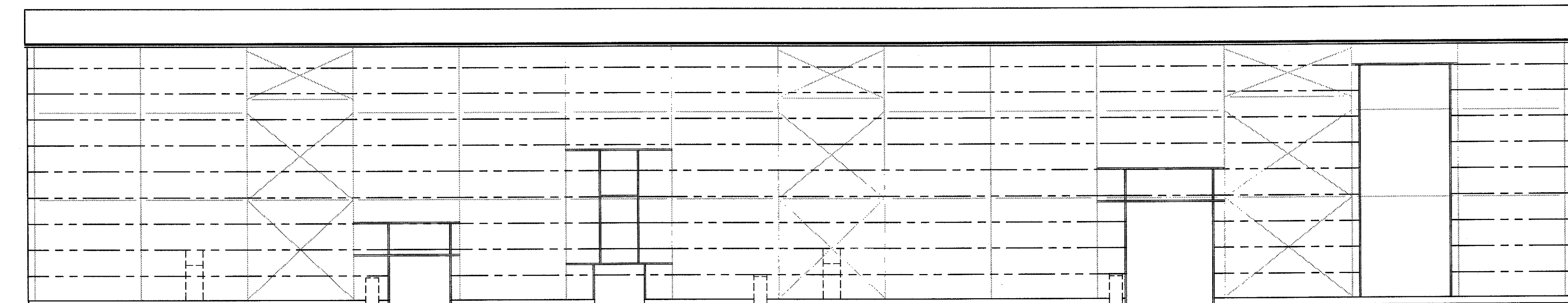
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MEM TYP	OUTER (TOP) FLG WIDTH	INNER (BOT) FLG THICK	WEB THICK	INITIAL TOTAL DEPTH	FINAL TOTAL DEPTH	APPROX. LENGTH (mm)	
1	305	16	305	16	610	17232	
2	203	13	203	13	6	457	15591
3	203	13	203	13	6	457	13007
4	203	13	203	13	6	457	11753
5	203	13	203	13	6	457	11076
6	305	16	305	16	6	610	17712
7	305	16	305	16	6	610	4087
8	305	19	305	19	6	914	14187
9	305	16	305	16	6	610	4191
10	305	19	305	19	6	914	14187
11	254	16	254	16	6	610	17763
12	254	16	254	16	6	610	19055
13	254	16	254	16	6	610	18888
14	254	16	254	16	6	610	19597
SB1	203	10	203	10	5	305	305
SB2	203	13	203	13	5	305	305

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 1



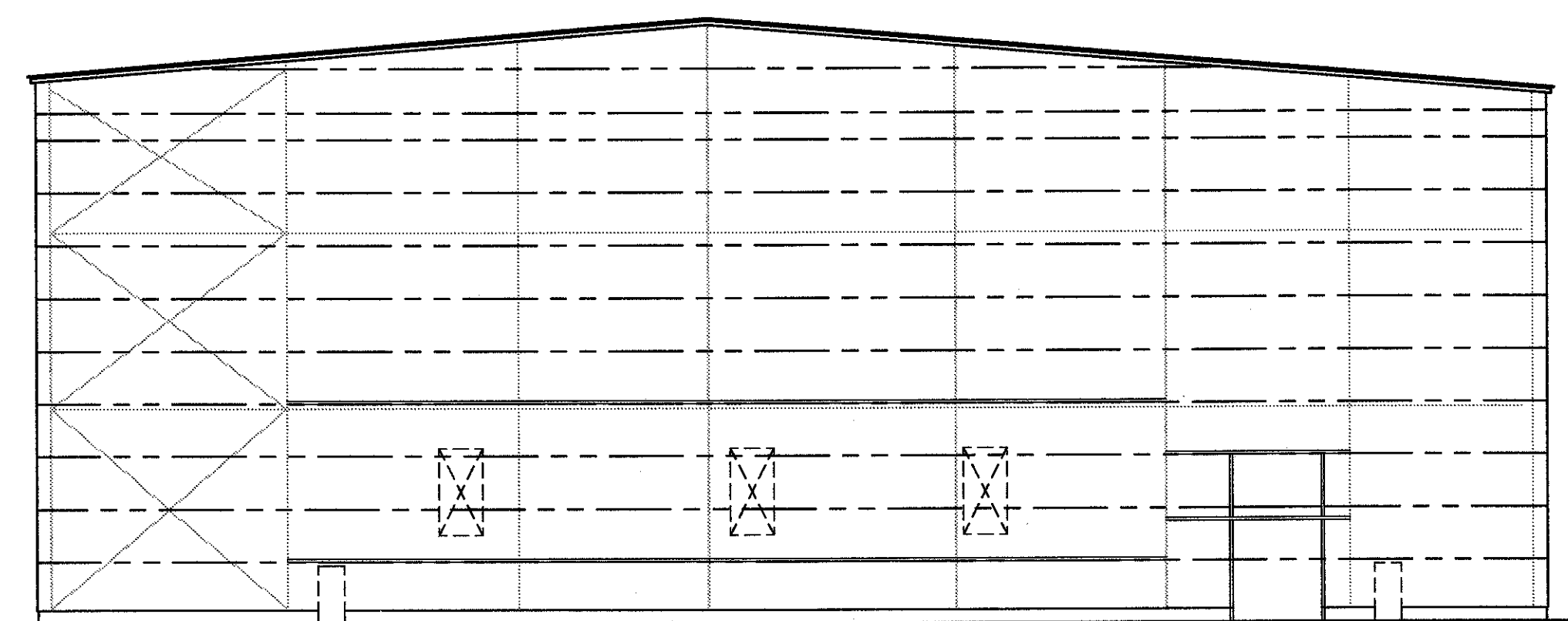
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 1

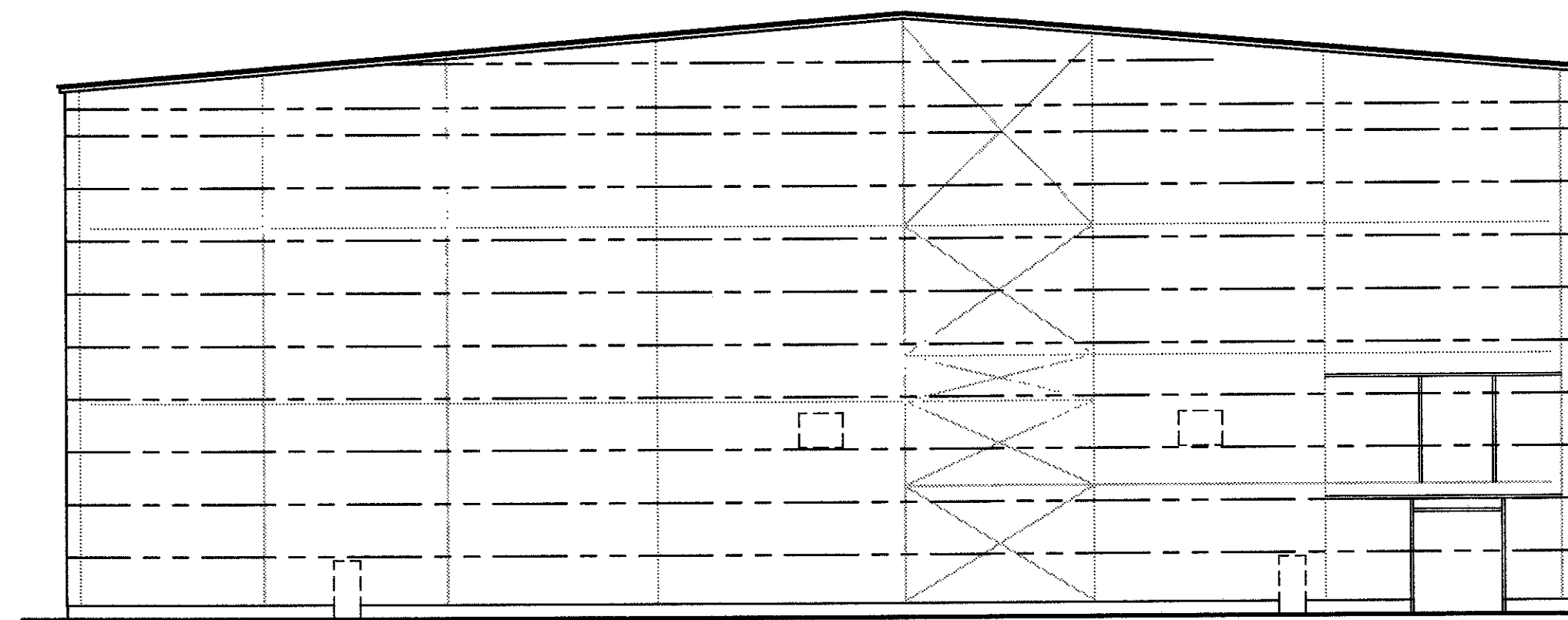


SECONDARY - LINE H.1

A 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 1



SECONDARY - LINE 1.1



SECONDARY - LINE 15.1

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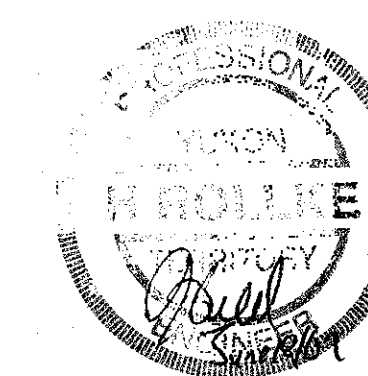
Garco Building Systems

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Wa. 99001-9595
TEL. 509-244-5611

YukonZinc CORP

REFERENCE DRAWING:

1. WARDROP ENGINEERING INC. DRAWINGS
DATED MAR. 12, 2009



REV	DATE M/D/Y	DR	APP	REVISION
B	06/05/09	DM	...	FINAL ERECTION DRAWINGS
A	03/30/09	JMG	...	PRELIMINARY CONSTRUCTION DWGS

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File No. 08029

Project
**YUKON ZINC -
WOLVERINE PROJECT
E0-BLD-298
MILL BUILDING**
YUKON ZINC P.O. #E100006

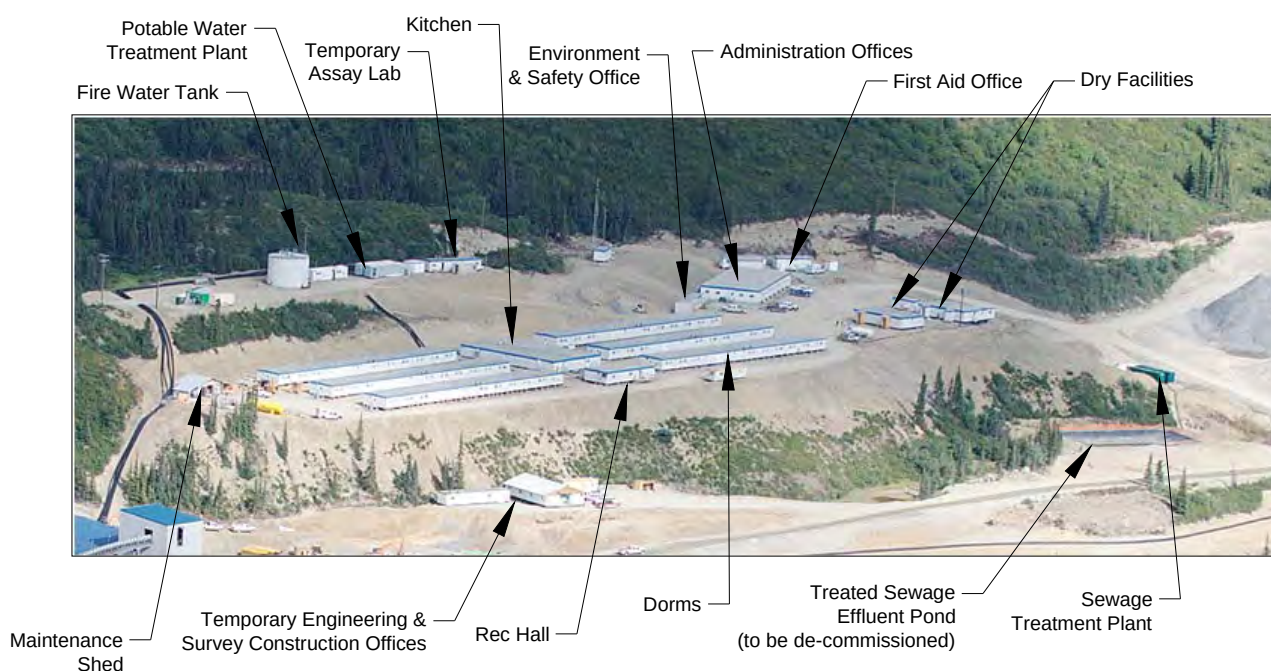
Drawing Title

**OVERALL
SECONDARY
ELEVATIONS**
MILL BUILDING

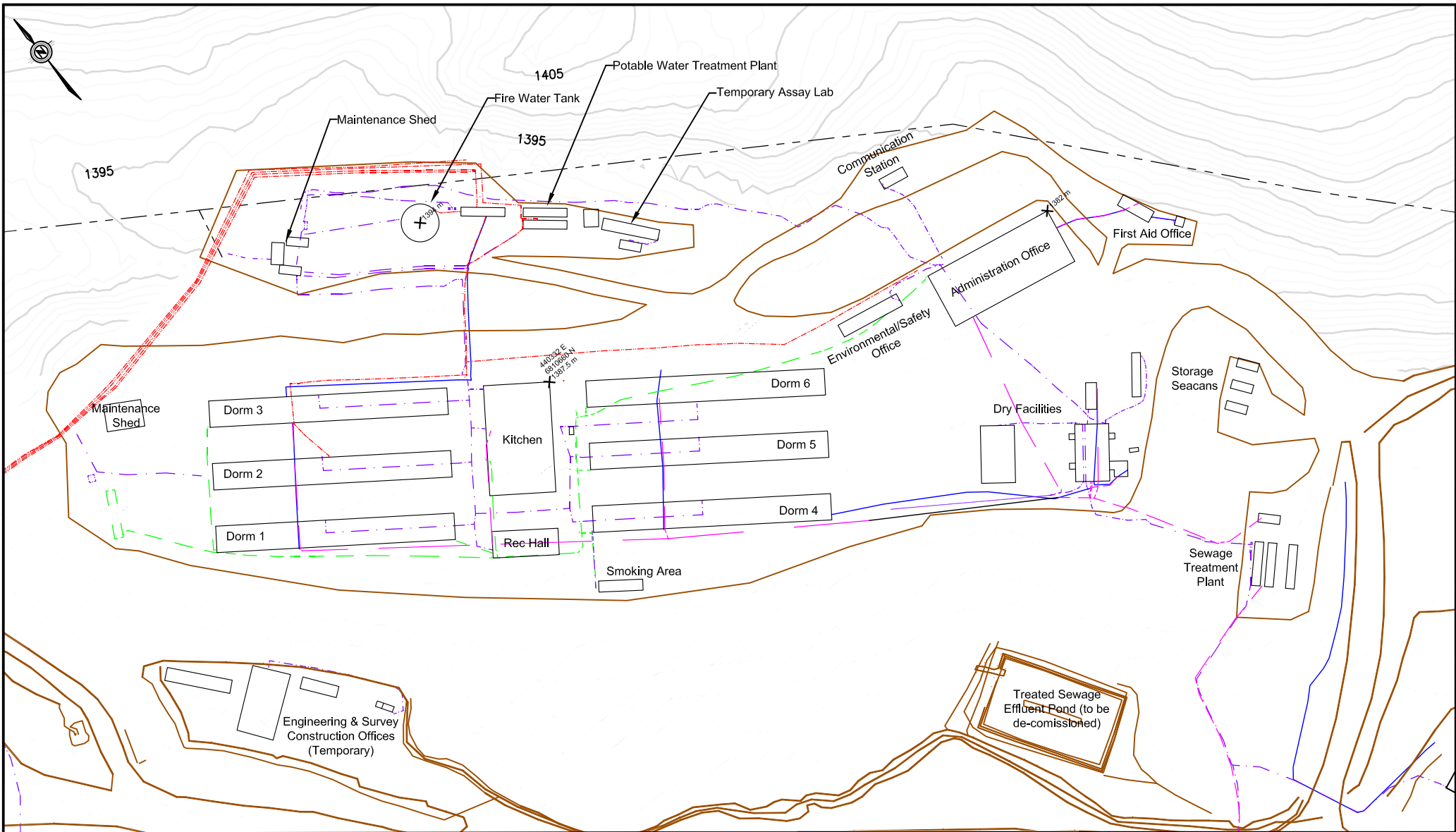
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Drawn By: G.H.KWAN	Drawing No. SE206
Approved By: 08029SE206.DWG 1:125	GBS JOB# 29600 12-B-25211 MAR. 20, 2009 > 15:00

3.1.4 Camp Infrastructure

Camp infrastructure at the Wolverine Mine consists of six 41-man dorms, a kitchen, recreation hall, administration office, environment and safety office, first aid office and dry facilities. Additional support infrastructure includes a maintenance shed, fire water tank, potable water treatment plant, communication station, and sewage treatment plant. This infrastructure, as well as the pipelines to convey fire water, propane, sewage, overhead power, potable water and electricity is shown in Picture 3-7 and in Figure 3-7. The sewage, potable water and fire water lines shown in Figure 3-7 are buried pipelines that were installed prior to the installation of the dorm buildings. The engineering and survey construction offices are also shown in Figure 3-7, as is a treated sewage effluent pond; however, structures were for the purposes of construction only, and will be removed/de-commissioned.



Picture 3-7: Camp and Associated Infrastructure



LEGEND

	Site Roads		Buildings
	Fire Water		Overhead Power Line
	Propane		Potable Water
	Sewage		Electrical Lines



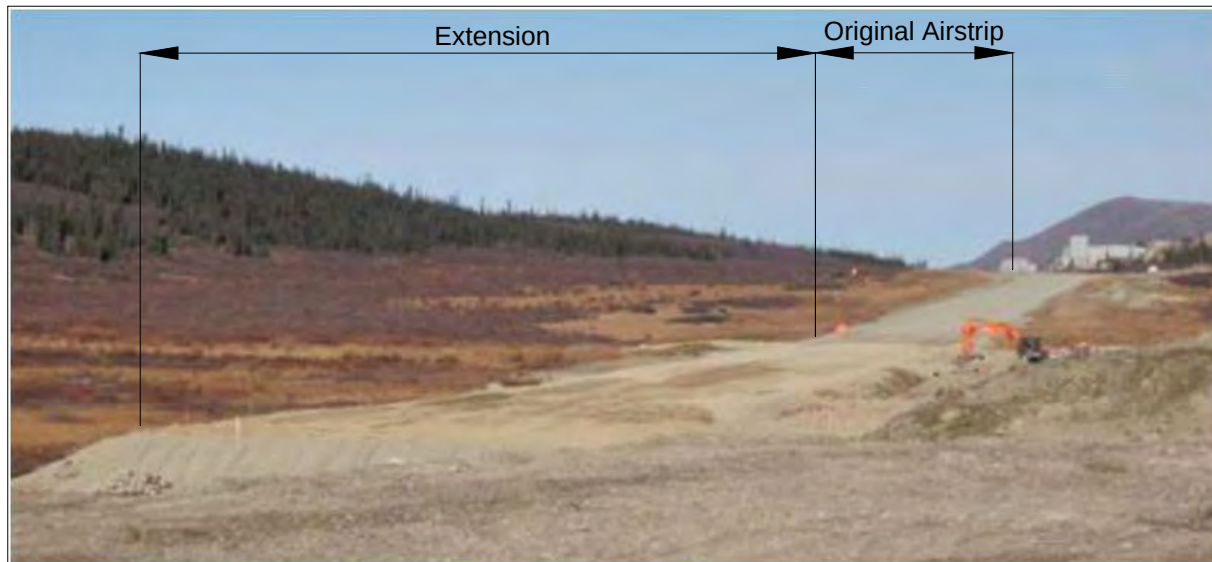
WOLVERINE MINE

**Camp Infrastructure
As-Constructed
Layout Drawing**

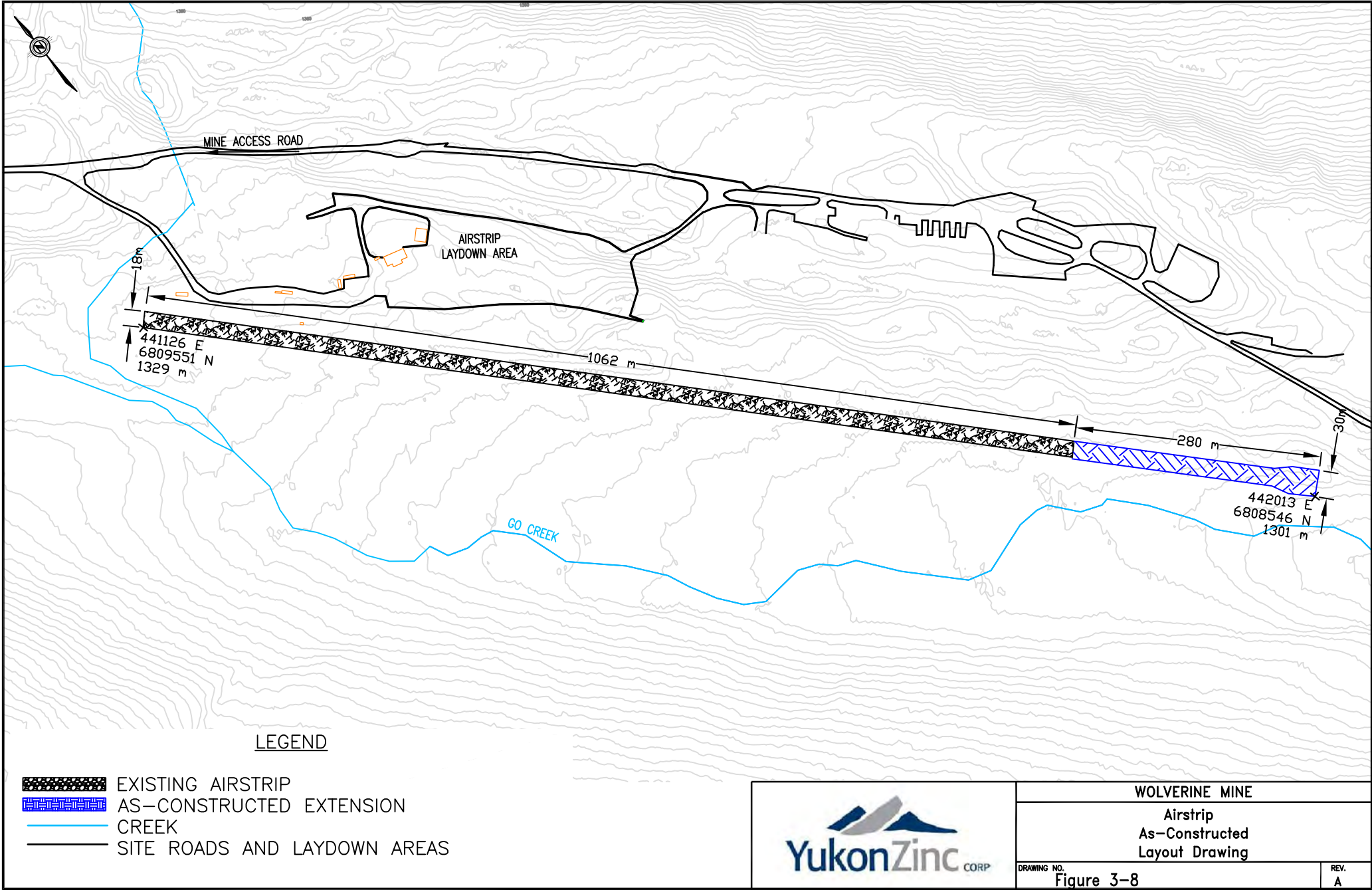
DRAWING NO. Figure 3-7	REV. A
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3.2 Airstrip

The airstrip was extended in 2010 as per the *Addendum to General Site Plan Version 2008-04* approval from Energy, Mines and Resources August 27, 2010. The extension was required to provide for an emergency stop way to allow aircraft to land on the airstrip with a full passenger load. The extension was constructed as proposed, as shown in Figure 3-8. Picture 3-8 shows the final extended runway (as of October 2010), including fill slopes beyond the running surface.



Picture 3-8: Completed Airstrip Extension



4 Geochemical Site Investigations

Geochemical characterization via acid base accounting (ABA) is conducted on native material to establish metal leaching potential. Material that is deemed non-acid generating (NAG) based on the criterion described in the Draft BC ARD Guidelines by Price (1997) in Table 4-1 was used in construction activities; material that is deemed potentially acid generating (PAG) is sent for shake flask testing. The results of shake flask tests are compared to the Canadian Metal Mining Effluent Regulations (MMER) guideline values (Table 4-2) to identify any parameters that could potentially leach from in-place road construction materials at concentrations that may affect receiving water quality. MMER monthly mean concentrations are used as a guideline, as they are the most stringent.

Table 4-1: Acid base accounting screening criteria

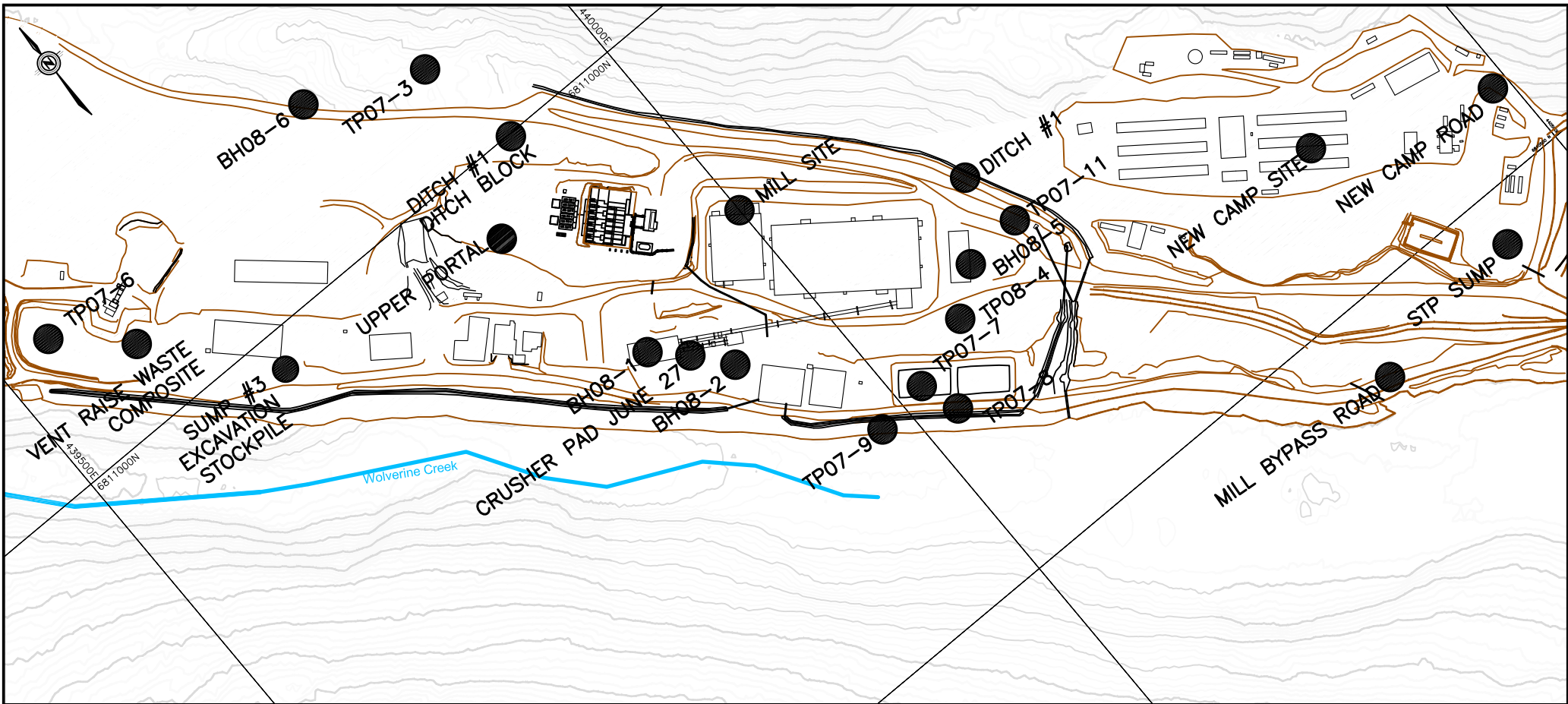
Parameter	Acid generating potential
Net Potential Ratios (NPR or NP/AP)	
NPR < 1	Likely acid generating
1 < NPR < 2	Potentially acid generating
2 < NPR < 4	Not likely acid generating
NPR > 4	Non-acid generating
Sulphide sulphur (S_S) content	
S _S > 0.3 %	Potentially acid generating
S _S < 0.3 %	Non-acid generating
Paste pH	
pH < 5.5	Potentially acid generating
pH > 5.5	Non-acid generating
Neutralization potential (NP)	
NP < 10 kg CaCO ₃ /tonne	Potentially acid generating
NP > 10 kg CaCO ₃ /tonne	Non-acid generating

¹ Price, W.A. (1997), DRAFT Guidelines and Recommended Methods for the Prediction of Metal Leaching and Acid Rock Drainage at Mine sites in British Columbia, British Columbia Ministry of Employment and Investment, Energy and Minerals Division, Smithers, BC, (April), 143p.

Table 4-2: MMER guideline values for potential metal leaching from soils

Deleterious substance	Maximum authorized monthly mean concentration
<i>Arsenic (mg/L)</i>	0.5
<i>Copper (mg/L)</i>	0.3
<i>Cyanide (mg/L)</i>	1.00
<i>Lead (mg/L)</i>	0.20
<i>Nickel (mg/L)</i>	0.5
<i>Zinc (mg/L)</i>	0.50

The locations of samples taken throughout the construction period around the industrial complex are summarized in Figure 4-1. The results of the ABA sample analyses, from ALS Chemex, are provided in Table 4-3. If a sample was found to be PAG, as shown in the last column of Table 4-3, a portion of the original sample was sent to ALS Environmental for shake flask test work. While the “New Camp Road” sample was identified as being PAG (Table 4-3), it was not sent for shake flask testing, as it was deemed significantly similar to the “New Camp Site” sample to not warrant a duplicate sample analysis. All other samples (except for the “Mill Bypass Road” sample) were identified as being PAG, based on the ABA analysis, and were sent for shake flask testing. The results of the shake flask test work are provided in Table 4-4. Bold values in Table 4-4 indicate that a parameter was in exceedance of the MMER guideline for potential metal leaching from soils. In these instances (e.g., samples TP07-6, TP07-7 and TP07-8) the material was excluded from use as construction material.



Sample ID	Easting (m)	Northing (m)	Sample ID	Easting (m)	Northing (m)
New Camp Site	440355	6810610	BH08-6	439802	6811115
New Camp Road	440487	6810557	TP08-4	440074	6810680
TP07-3	439909	6810999	Sump #3 Excavation Stockpile	439665	681100
TP07-6	439545	6811103	STP Sump	446355	6810506
TP07-7	440020	6810660	Ditch 1	440144	6810758
TP07-8	440030	6810630	Mill Site	440000	6810847
TP07-9	439977	6810654	Mill Bypass Road	440291	6810442
TP07-11	440152	6810710	Ditch #1 Road Block	439888	6811077
BH08-1	439880	6810810	Vent Raise Waste Composite	439593	6811058
BH08-2	439924	6810761	Crusher Pad	439903	6810788
BH08-5	440106	6810706			

LEGEND

- Site Road
- Buildings
- Creek
- Sample Site

WOLVERINE PROJECT	
Geochemical Sample Sites	
Industrial Complex	
DRAWING NO. Figure 4-1	REV. A

Table 4-3: Acid Base Accounting Results for Industrial Complex Construction Material

Sample ID	Lab Report	Easting (m)	Northing (m)	ABA Test Results									
				Paste pH	Fizz Rating	NP kg CaCO3/t rock	AP kg CaCO3/t rock	NNP kg CaCO3/t rock	NPR -	Total S %	Sulphate S %	Sulphide S %	Acid Potential
New Camp Site	VA07073067	0440355	6810610	7	1	7	0.6	6	11.2	0.02	0.01	0.01	PAG
New Camp Road	VA07090006	440487	6810557	8	1	14	0.6	13	22.4	0.02	<0.01	0.02	PAG
TP07-3	VA08115508	439909	6810999	6.6	1	6	59.1	-53	0.1	1.89	1.87	0.02	PAG
TP07-6	VA08115508	439545	6811103	6.5	1	3	2.5	1	1.2	0.08	0.01	0.07	PAG
TP07-7	VA08115508	440020	6810660	7	1	5	2.5	3	2	0.08	<0.01	0.08	PAG
TP07-8	VA08115508	440030	6810630	7.7	1	5	7.2	-2	0.7	0.23	0.26	<0.01	PAG
TP07-9	VA08115508	439977	6810654	7.8	1	8	0.6	7	12.8	0.02	<0.01	0.02	PAG
TP07-11	VA08115508	440152	6810710	7.7	1	7	1.3	6	5.6	0.04	<0.01	0.04	PAG
BH08-1	VA08158246	439880	6810810	5.4	1	4	0.3	4	12.8	0.01	<0.01	0.01	PAG
BH08-2	VA08158246	439924	6810761	7	1	8	9.7	-2	0.83	0.31	<0.01	0.31	PAG
BH08-5	VA08158246	440106	6810706	5.2	1	1	7.5	-7	0.13	0.24	0.05	0.19	PAG
BH08-6	VA08158246	439802	6811115	5.5	1	2	52.2	-50	0.04	1.67	1.09	0.58	PAG
TP08-4	VA08158246	440074	6810680	5.4	1	2	1.3	1	1.6	0.04	0.04	<0.01	PAG
Sump #3 Excavation Stockpile	VA09023063	439665	681100	5.6	1	0	1.3	-1	0	0.04	<0.01	0.04	PAG
STP SUMP	VA09040007	446355	6810506	5	1	4	1.3	3	3.2	0.04	0.03	0.01	PAG
DITCH 1	VA09040007	440144	6810758	5	1	2	0.3	2	6.4	0.01	0.01	<0.01	PAG
MILL SITE	VA09040007	440000	6810847	6.8	1	8	1.6	6	5.12	0.05	0.03	0.02	PAG
MILL BYPASS Rd	VA09040007	440291	6810442	7.6	1	11	1.9	9	5.87	0.06	0.05	0.01	NAG
DITCH #1 DITCH BLOCK	VA09049898	439888	6811077	6.7	1	4	22.8	-19	0.18	0.73	0.66	0.07	PAG
VENT RAISE WASTE COMPOSITE	VA09063946	439593	6811058	8.5	2	38	20.9	17	1.81	0.67	0.02	0.65	PAG
CRUSHER PAD JUNE 27	VA10086415			7.3	1	6	5.9	0	1.01	0.19	0.05	0.05	PAG

Table 4-4: Shake Flask Testing Results for Industrial Complex Construction Material

Sample ID	MMER	NEW CAMP SITE	TP07-3	TP07-6	TP07-7	TP07-8	TP07-9	TP07-11	BH08-1	BH08-2	BH08-5	BH08-6	TP08-4	SUMP#3 EXCAVATION STOCKPILE	STP SUMP	DITCH 1	MILL SITE	Ditch #1 Ditch Block	VENT RAISE WASTE COMPOSITE	CRUSHER PAD
Date Sampled		02-Aug-07	14-Aug-08	14-Aug-08	14-Aug-08	14-Aug-08	14-Aug-08	14-Aug-08	31-Oct-08	31-Oct-08	31-Oct-08	31-Oct-08	31-Oct-08	16-Mar-09	24-Apr-09	24-Apr-09	24-Apr-09	18-May-09	25-Jun-09	27-Jun-10
ALS Sample ID		L539652	L691233	L691233	L691233	L691233	L691233	L691233	L713936	L713936	L713936	L713936	L713936	L742356	L759446	L759446	L759446	L778116	L796495	L909205
Leachable Anions & Nutrients																				
pH	6 - 9.5	7.03	7.02	6.75	7.18	7.47	7.55	7.53	6.27	7.77	6.66	6.44	6.66	6.92	6.39	6.48	6.58	6.48	8.19	6.95
% Moisture			0.88	0.85	0.56	0.44	0.68	0.94	0.21	0.11	0.33	0.22	0.33	1.02	0.14	0.63	4.45	<0.10	<0.10	0.35
Leachable Metals																				
Aluminum		4.0900	16.5	11.6	10.4	11.3	9.04	9.33	5.56	0.266	0.0086	0.0133	7.13	0.185	0.356	0.403	0.0101	0.91	0.132	1.71
Antimony		0.00016	0.0011	0.00562	0.00472	0.0182	0.00343	0.00136	0.00051	0.00312	0.00021	0.00019	0.0006	0.00659	0.00017	0.00011	<0.00010	0.00047	0.0164	0.0166
Arsenic	0.5	0.00108	<0.01	0.011	0.011	0.0382	0.0273	0.0074	0.0066	0.0017	<0.001	<0.001	0.004	0.0058	<0.001	<0.001	<0.001	<0.001	<0.005	0.0188
Barium		0.06290	41.5	2.18	2.7	9.41	0.842	1.61	0.661	0.201	0.195	0.432	1.57	0.121	0.328	0.0183	0.139	1.33	0.111	0.672
Beryllium		<0.00050	<0.0050	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0025	<0.00050	<0.00050	<0.00050	<0.00050	<0.0025	<0.00050
Bismuth		<0.00050	<0.0050	0.0073	0.0031	0.0054	<0.0025	<0.0025	<0.00050	<0.00050	<0.00050	<0.00050	0.00056	<0.0025	<0.00050	<0.00050	<0.00050	<0.00050	<0.0025	<0.00050
Boron		<0.010	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.010	0.012	<0.010	<0.010	0.56	<0.010	<0.010	<0.010	<0.010	<0.050	0.012
Cadmium		<0.000050	<0.000050	0.00749	0.00333	0.00887	0.00188	0.00043	0.00113	0.000499	0.00086	0.000419	0.00159	0.00061	0.000507	<0.000050	<0.000050	0.000058	<0.00025	0.0024
Calcium		0.6	2.9	2.7	5.44	6.27	8.82	10.2	2.62	11.5	5.67	1.11	2.07	543	1.03	0.24	7.94	2.15	26.5	9.31
Chromium		0.00857	0.0392	0.0277	0.019	0.0207	0.0329	0.0337	0.0153	0.00078	<0.00050	<0.00050	0.00651	<0.0025	0.00078	0.00119	<0.00050	0.001	<0.0025	0.00221
Cobalt		0.00584	0.0143	0.0102	0.00859	0.0137	0.0106	0.00972	0.0083	0.00021	0.00056	0.00142	0.00662	0.00199	0.00448	0.0008	<0.00010	0.00021	<0.00050	0.00135
Copper	0.3	0.03200	0.199	0.69	0.332	0.505	0.145	0.13	0.103	0.0216	0.0119	0.0011	0.0727	0.24	0.0324	0.0304	0.0104	0.0184	0.026	0.0407
Iron		3.02	9.84	5.27	6.6	14.1	8.82	8.29	4.82	0.388	<0.030	<0.030	4.23	3.39	2.43	1.36	0.072	1.63	<0.090	5.39
Lead	0.2	0.00124	0.0368	0.0933	0.083	0.374	0.0457	0.0177	0.0173	0.00225	0.00011	<0.0001	0.055	0.00674	0.00575	0.00235	<0.0005	0.0064	0.004	0.0775
Lithium		<0.0050	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0050	<0.0050	<0.0050	<0.0050	0.0053	0.051	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050
Magnesium		0.81	5.71	6.56	5.89	5.3	7.21	6.14	2.41	1.56	1.07	0.333	2.13	117	0.575	0.118	0.377	0.363	4.2	2.26
Manganese		0.26300	2.96	0.688	0.596	0.995	0.354	0.312	0.474	0.0738	0.206	0.198	0.378	0.441	0.394	0.054	0.0014	0.0845	0.0613	0.336
Mercury		<0.000050							0.00017	<0.000050	<0.000050	0.000058	0.000078	0.000545	<0.000050	<0.000050	<0.000050	0.000201	<0.000050	0.00108
Molybdenum		0.00060	0.018	0.00896	0.0112	0.0203	0.012	0.009	0.00124	0.0158	0.00014	0.00074	0.0016	0.0126	0.00024	0.00011	0.00141	0.00145	0.0152	0.00506
Nickel	0.5	0.00874	0.0612	0.0189	0.0198	0.0309	0.0275	0.0273	0.0135	0.00107	0.0174	0.00553	0.0158	0.0184	0.00937	0.00262	<0.0005	0.00286	<0.0025	0.00523
Phosphorus		<0.30	<0.30	<0.30	<0.30	0.34	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.60	<0.30	<0.30	<0.30	<0.30	<0.90	<0.30
Potassium		<2.0	5.11	19.1	11.8	13.9	4.39	4.23	1.7	5.04	3.74	3.77	2.7	40.3	1.26	0.785	0.966	3.85	12.9	4.52
Selenium		<0.0010	<0.0050	0.0077	0.005	0.0075	0.0029	<0.0025	0.00119	0.00883	0.00862	0.00224	0.00108	0.0141	<0.00050	<0.00050	<0.00050	0.00132	0.0276	0.00867
Silicon		6.80	11.9	12.9	11	9.9	8.92	10.5	9.61	2.91	6.87	4.37	9.78	9.9	9.41	6.56	2.75	8.2	2.94	8.34
Silver		0.000085	<0.00050	0.00171	0.00094	0.00585	0.00048	0.00028	0.000179	<0.000050	<0.000050	<0.000050	0.000231	0.00038	<0.000050	<0.000050	<0.000050	0.000056	<0.00025	0.00148
Sodium		<2.0	4.02	7.54	6.93	5.44	7.73	5.68	1.34	1.92	0.631	0.302	0.834	320	1.45	1.39	0.503	0.449	0.97	1.71
Strontium		0.0031	0.166	0.0263	0.0369	0.0734	0.0324	0.0411	0.0218	0.0387	0.0364	0.0375	0.0166	4.63	0.00649	0.00128	0.0337	0.0422	0.121	0.0499
Thallium		<0.00010	<0.0010	0.00185	0.00068	0.00073	<0.00050	<0.00050	<0.00010	<0.00010	<0.00010	<0.00010	0.0001	<0.00050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00050	0.0003
Tin		<0.00030	<0.0050	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0025	<0.00050	<0.00050	<0.00050	<0.00050	<0.0025	<0.00050
Titanium		0.12	0.331	0.108	0.149	0.167	0.276	0.26	0.304	0.015	<0.010	<0.010	0.088	0.134	0.09	0.082	<0.010	0.015	<0.030	0.106
Uranium		0.000177	0.00198	0.00288	0.00172	0.00379	0.000896	0.00113	0.000654	0.000819	<0.000010	<0.000010	0.00449	0.00584	0.000052	0.000063	<0.000010	0.0001	0.00352	0.00068
Vanadium		0.0171	0.052	0.034	0.0319	0.0402	0.0439	0.0411	0.025	<0.0010	<0.0010	<0.0010	0.012	<0.0050	0.0022	0.0014	<0.0010	0.0027	<0.0050	0.0046
Zinc	0.5	<0.01	0.28	0.827	0.438	1.03	0.129	0.059	0.106	0.017	0.021	<0.01	0.215	0.059	0.083	<0.01	<0.01	0.022	<0.05	0.138

5 Quality Assurance/Quality Control

Quality assurance and quality control (QA/QC) was conducted throughout the construction period by EBA Engineering Consultants Ltd, and the results of this work is provided in the *Wolverine Lake Mine Site Infrastructure Construction 2009 Inspection & QA/QC Testing Report* (April 2010), provided in Appendix A. The QA/QC report summarizes construction testing at the following areas:

- Aggregates production;
- Compaction;
- Two mechanically stabilized earth (MSE) walls in the industrial complex;
- Rock anchor bolts installation inspection;
- Vent raise testing;
- Vent shaft mechanical buildings;
- Seepage collection drainage trench; and
- Road re-alignment and surface upgrade work.

**Appendix A: Wolverine Lake Mine Site Infrastructure
Construction 2009 Inspection & QA/QC Testing
Report (EBA Engineering Consultants Ltd.) April
2010**

Yukon Zinc Corporation

WOLVERINE LAKE MINE SITE INFRASTRUCTURE CONSTRUCTION
2009 INSPECTION & QA/QC TESTING REPORT
FINLANSON LAKE DISTRICT
YUKON

EBA File: W14101095.005

April 2010



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APPENDIX A - AGGREGATES PRODUCTION TEST RESULTS

APPENDIX B - COMPACTION TEST RESULTS

APPENDIX C - CONCRETE TEST RESULTS

APPENDIX D – WEEKLY REPORTS

1.0 INTRODUCTION

EBA Engineering Consultants Ltd. (EBA) was retained by Yukon Zinc Corp. (YZC) on April 23, 2009, in a geotechnical consulting capacity to conduct geotechnical inspections and quality assurance (QA) testing for the new construction at their Wolverine Lake Mine Site Infrastructure Construction Project, located about 27 km west from km 191 on the Campbell Highway north of Watson Lake, in the Yukon Territory.

This site is identified in topographic NTS map sheet 105 G/8 as Wolverine Lake, Yukon.

The work to be performed was outlined on YZC's Purchase Order #S100221.

EBA's field work was conducted from April 23 to December 18, 2009.

The following sections present a summary of the inspection and tests conducted at the project site.

1.1 SCOPE OF WORK

The scope of work for the inspection and QA testing was as follows:

- Conducted grain size distribution analysis determination for all aggregates production sampling,
- Conducted in-situ field density tests,
- Provided a concrete mix design for general contractor's batch plant,
- Provided reports on work progress, and
- Prepared this infrastructure construction report.

In addition to inspection and QA testing, EBA was requested to test for road surface gravel, rock void determination, rip-rap production and to provide a design for a seepage collection trench along northern edge of the mill site pad.

1.2 MAJOR WORKS

The construction schedule for the construction season was to prepare mill, crusher and gen-set building foundations to accommodate large structures and smaller foundations to accommodate various structures. The following site works were completed as part of the construction schedule.

- Bedrock drilling and blasting along the north side of the Mill Site as part of the earth works was completed in the spring 2009. During drilling and blasting an underground spring was uncovered and needed to be re-directed through a seepage drainage ditch that was designed and constructed along the north edge of the mill site in Fall 2009
- Two Mechanically Stabilized Earth (MSE) walls were constructed during the summer months of 2009. They are identified as MSE Wall 2A and MSE Wall 2B.

- Access road re-alignment with earth work for grade and surface improvements was carried out from km 14 to km 16, between August and September 2009.
- A Vent Rise multi-plate structure installation was assembled during the month of October 2009. As part of the Vent Rise construction, concrete foundations for two structures, housing the underground mine's air supply pumps and air heater unit, were constructed between December 14 and 18, 2009.
- Other concrete foundations for a Cement Silo, Tailings Thickener, Feed Bin and Transformer were constructed adjacent to the Mill Building.
- Concrete pipe-bridge footing structures were constructed adjacent to the Concentrate Load Out (CLO) Building and the Genset pad.
- Foundation construction for the conveyor system to transport mined and crushed material from the Crusher Building to the Feed Bin at the Rod & Ball Mill Plant consisted of nine (9) structural footings requiring a total of about 200 m³ of concrete.

1.3 ONSITE CONTRACTORS

ACL was the general contractor for all site and access road earth work, including culverts and manholes installation.

ACL contracted Nu-way Crushing Ltd. (NCL) of Whitehorse, Yukon to crush and screen concrete aggregate, road crush gravel and rip-rap materials. ACL later brought their own crusher to site for the production of 20 mm crushed aggregate for weeping tile, rip-rap material and additional aggregate production for concrete mix.

McCaw's Drilling & Blasting Ltd; of Rocky Mountain House, Alberta was the sub-contractor for blasting the Mill Site bedrock and the quarry at km 18 next to the access road.

ACL contracted IDL Projects Inc., (IDL) of Prince George, British Columbia in June 2009 to produce and haul concrete, to construct foundation form work, and to place rebar.

ACL contracted The Gisborne Group, of Vancouver, British Columbia in September 2009 to place rebar for floor slabs, mill machinery pedestals, water tanks bases, curbs, mezzanine and other interior concrete work for all three major buildings.

ACL contracted WL Contracting Ltd, of Forth St John, British Columbia as forming and concrete sub-contractors in November 2009 for the conveyors footings and fuel pad work. WL Contracting sub-contracted Progressive Ventures Ltd, of Chetwynd, British Columbia to form and finish footings for fuel pad and foundations for Vent-Raise building work.

ACL contracted the following two sub-contractors to complete the electrical installations:

- Independent Electric & Controls Ltd. of Whitehorse, Yukon worked on the Fuel Pad ground resistivity at the Gen-set site.
- Arcrite Northern Ltd. of Whitehorse, Yukon on the ground wiring for the Mill Building, the CLO, Crusher Building and Gen-set pad.

Northwest Grouting Ltd. of Vancouver, British Columbia completed the rock anchor bolt installations at the Crusher Building's Shaker-deck footings while McCaw's Drilling provided the drill.

Underhill Geomatics Ltd. of Whitehorse, Yukon provided all the control surveys for the project.

2.0 AGGREGATES PRODUCTION SAMPLING AND TESTING

ACL was responsible for production of the concrete aggregates. ACL hauled pit run material from the km 11 aggregate source pit to km 17.5 site where it was crushed and screened by NCL.

Concrete aggregate production started on April 20 and finished on May 3, 2009; after surveyed quantities deemed sufficient volume had been produced. 10,000 m³ of 20 mm minus aggregate was produced and rescreened to produce three stockpiles, one coarse rock (10 mm to 20 mm) and the other 10 mm minus. Samples were collected during the crushing process, twice during day and once at night by EBA and NCL, respectively. All samples were tested for particle size distribution.

Upon completion of concrete aggregate production, NCL continued with the production of 20 mm road surfacing material. Samples were collected once a day by EBA who completed particle size distribution testing on each sample.

At the beginning of May, 2009, YZC requested that ACL produce blend sand that was to be used in the concrete mix design. On May 20; ACL had set-up YZC's screening plant and produced about 1000 m³ of 10 mm material.

ACL also used rock from a quarry at km 18 to produce 16 mm crushed backfill material for weeping tile installation and 20 mm crushed aggregate for additional concrete. Rejected oversize rock was set aside to be used as rip-rap material.

All particle size distribution tests results are presented in Appendix A of this report.

3.0 COMPACTION TESTING

During the 2009 construction season, EBA conducted 1765 in-situ compaction density tests as requested on all material placed and compacted.

ACL hired Campo Verde Consulting Ltd (CVCL) of Vanderhoff, British Columbia to complete all of their on-site QC testing. The CVCL technicians that were on site throughout the field season were Mr. Randall Springer and Mr. Victor Whitaker. CVCL ceased on-site QC work in mid-October, 2009. EBA and Campo Verde compared test results and maintained a co-operative relationship during the construction season.

The applicable compaction testing results and compaction test summary reports are included in Appendix B of this report.

4.0 CONCRETE TESTING

IDL Projects Inc supplied concrete with a Preem Advantage 101 portable batch plant located at km 27.2 of the access road, capable of producing 50 m³/hour.

Three separate contracts for concrete production and supply were assigned to IDL, totalling approximately 8,000 m³ for the 2009 construction season.

EBA provided mix designs based on available aggregates. EBA recommended the use of fly ash in the cement powder. Technical Memos 001 to 005 provided the bases for concrete production.

EBA provided immediate information on temperature, slump and air entrainment for all tests conducted, to IDL and YZC representatives, as well as ACL when required.

The concrete test reports are included in Appendix C of this Report.

5.0 WEEKLY REPORTS

EBA submitted timely weekly reports to YZC, in addition to ongoing daily onsite feedback and meetings about observations and QA records. Copies of the submitted weekly reports are included in Appendix D of this report.

6.0 OTHER SITE WORKS TESTING

6.1 MSE WALL 2A AND 2B

On July 16; ACL started excavation for a Mechanically Stabilized Earth (MSE) Wall 2A and 2B. The foundation for each of the walls was founded on exposed bedrock. The length of MSE Wall 2A was about 70 m (Sta 0+000 to Sta 0+070) and the length of MSE Wall 2B was about 25 m (Sta 0+095 to 0+120). Both walls were completed by September 6, 2009. EBA performed compaction tests as requested on the well graded gravel material placed between the backslope and 2 m offset line from the wall face and visually observed the bedrock used within the 2 m strip adjacent to the exterior Welded Wire Cage. All compaction tests conducted on the MSE Wall are included in Appendix B of this report.

6.2 ROCK ANCHOR BOLTS INSTALLATION INSPECTION

Northwest Grouting Ltd. of Vancouver, B.C. with the support of McCaw's track mounted dill, installed 36 rock anchor bolts at the Crusher Building's shaker-deck footings. EBA observed and recorded the gauge readings on all the pull tests. The results were provided to YZC by Northwest Grouting on October 6; 2009.

6.3 VENT RAISE TESTING

ACL installed a Bolt-A-Plate Vertical Elliptical Structure at the Vent Rise location in early November at the mine shaft ventilation location, about 200 metres west of the mine portal. It was backfilled with sands and gravel material. EBA conducted compaction test as requested by ACL on the material placed. All compaction tests are included in Appendix B of this report.

6.4 VENT SHAFT MECHANICAL BUILDINGS

The ventilation shaft structure required additional buildings to house the underground mine's air supply pumps and air heater unit. The two buildings foundations were fully formed by mid-December and over 100 m³ of concrete was poured into the footings on December 14 and 18; 2009 by both WL Contracting and Progressive Ventures. All concrete tests conducted on those footing are included in Appendix C of this report.

6.5 SEEPAGE COLLECTION DRAINAGE TRENCH

During earth works movement, an underground spring on the NW corner of the Mill Pad, needed to be re-directed. EBA conducted flow measurement studies and a seepage drainage ditch was constructed by ACL. All pertinent information is found on EBA Report W14101095.007 of August 7, 2009. All compaction tests conducted on seepage collection trench backfill are included in Appendix B of this report.

6.6 ROAD RE-ALIGNMENT AND SURFACE UPGRADE WORK

ACL carried out earth work to improve access road alignment, grade and surface conditions from km 14 to km 16. The road improvement design was provided by Yukon Engineering Services Ltd. of Whitehorse, Yukon. Work started in August and ended in September, 2009. As requested from YZC, EBA conducted in-situ density tests as guidance to ACL. All compaction tests conducted for road surface upgrades are included in Appendix B of this report.

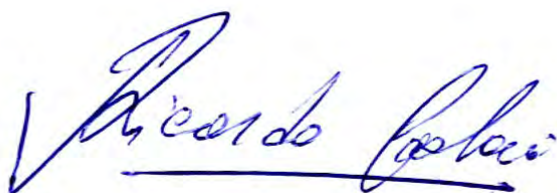
7.0 CONCLUSION

This construction report generalizes the inspection and QA work performed and data collected by EBA during the construction of infrastructure for YZC at the Wolverine Mine from April 23 to December 18, 2009. More detailed information was recorded during meetings and often presented in the correspondence between EBA and YZC and/or the representatives for YZC's clients, contractors and sub-contractors.

8.0 CLOSURE

Data presented herein are based on recorded observations of site conditions, current understanding of construction processes and the review of work performed. This report has been prepared for use by YZC, which includes distribution as required for purposes for which this QA work was commissioned. This summary report has been completed in accordance with generally accepted engineering and geoscience practice, and engineering/geoscience judgement. The report incorporates and is subject to the attached EBA General Conditions.

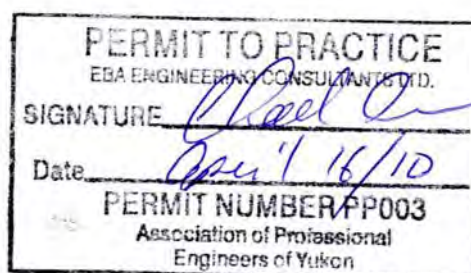
Respectfully submitted,
EBA Engineering Consultants Ltd.



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GEOTECHNICAL REPORT – GENERAL CONDITIONS

This report incorporates and is subject to these “General Conditions”.

1.0 USE OF REPORT AND OWNERSHIP

This geotechnical report pertains to a specific site, a specific development and a specific scope of work. It is not applicable to any other sites nor should it be relied upon for types of development other than that to which it refers. Any variation from the site or development would necessitate a supplementary geotechnical assessment.

This report and the recommendations contained in it are intended for the sole use of EBA's Client. EBA does not accept any responsibility for the accuracy of any of the data, the analyses or the recommendations contained or referenced in the report when the report is used or relied upon by any party other than EBA's Client unless otherwise authorized in writing by EBA. Any unauthorized use of the report is at the sole risk of the user.

This report is subject to copyright and shall not be reproduced either wholly or in part without the prior, written permission of EBA. Additional copies of the report, if required, may be obtained upon request.

2.0 ALTERNATE REPORT FORMAT

Where EBA submits both electronic file and hard copy versions of reports, drawings and other project-related documents and deliverables (collectively termed EBA's instruments of professional service), only the signed and/or sealed versions shall be considered final and legally binding. The original signed and/or sealed version archived by EBA shall be deemed to be the original for the Project.

Both electronic file and hard copy versions of EBA's instruments of professional service shall not, under any circumstances, no matter who owns or uses them, be altered by any party except EBA. EBA's instruments of professional service will be used only and exactly as submitted by EBA.

Electronic files submitted by EBA have been prepared and submitted using specific software and hardware systems. EBA makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.

3.0 ENVIRONMENTAL AND REGULATORY ISSUES

Unless stipulated in the report, EBA has not been retained to investigate, address or consider and has not investigated, addressed or considered any environmental or regulatory issues associated with development on the subject site.

4.0 NATURE AND EXACTNESS OF SOIL AND ROCK DESCRIPTIONS

Classification and identification of soils and rocks are based upon commonly accepted systems and methods employed in professional geotechnical practice. This report contains descriptions of the systems and methods used. Where deviations from the system or method prevail, they are specifically mentioned.

Classification and identification of geological units are judgmental in nature as to both type and condition. EBA does not warrant conditions represented herein as exact, but infers accuracy only to the extent that is common in practice.

Where subsurface conditions encountered during development are different from those described in this report, qualified geotechnical personnel should revisit the site and review recommendations in light of the actual conditions encountered.

5.0 LOGS OF TESTHOLES

The testhole logs are a compilation of conditions and classification of soils and rocks as obtained from field observations and laboratory testing of selected samples. Soil and rock zones have been interpreted. Change from one geological zone to the other, indicated on the logs as a distinct line, can be, in fact, transitional. The extent of transition is interpretive. Any circumstance which requires precise definition of soil or rock zone transition elevations may require further investigation and review.

6.0 STRATIGRAPHIC AND GEOLOGICAL INFORMATION

The stratigraphic and geological information indicated on drawings contained in this report are inferred from logs of test holes and/or soil/rock exposures. Stratigraphy is known only at the locations of the test hole or exposure. Actual geology and stratigraphy between test holes and/or exposures may vary from that shown on these drawings. Natural variations in geological conditions are inherent and are a function of the historic environment. EBA does not represent the conditions illustrated as exact but recognizes that variations will exist. Where knowledge of more precise locations of geological units is necessary, additional investigation and review may be necessary.

7.0 SURFACE WATER AND GROUNDWATER CONDITIONS

Surface and groundwater conditions mentioned in this report are those observed at the times recorded in the report. These conditions vary with geological detail between observation sites; annual, seasonal and special meteorologic conditions; and with development activity. Interpretation of water conditions from observations and records is judgemental and constitutes an evaluation of circumstances as influenced by geology, meteorology and development activity. Deviations from these observations may occur during the course of development activities.

8.0 PROTECTION OF EXPOSED GROUND

Excavation and construction operations expose geological materials to climatic elements (freeze/thaw, wet/dry) and/or mechanical disturbance which can cause severe deterioration. Unless otherwise specifically indicated in this report, the walls and floors of excavations must be protected from the elements, particularly moisture, desiccation, frost action and construction traffic.

9.0 SUPPORT OF ADJACENT GROUND AND STRUCTURES

Unless otherwise specifically advised, support of ground and structures adjacent to the anticipated construction and preservation of adjacent ground and structures from the adverse impact of construction activity is required.

10.0 INFLUENCE OF CONSTRUCTION ACTIVITY

There is a direct correlation between construction activity and structural performance of adjacent buildings and other installations. The influence of all anticipated construction activities should be considered by the contractor, owner, architect and prime engineer in consultation with a geotechnical engineer when the final design and construction techniques are known.

11.0 OBSERVATIONS DURING CONSTRUCTION

Because of the nature of geological deposits, the judgmental nature of geotechnical engineering, as well as the potential of adverse circumstances arising from construction activity, observations during site preparation, excavation and construction should be carried out by a geotechnical engineer. These observations may then serve as the basis for confirmation and/or alteration of geotechnical recommendations or design guidelines presented herein.

12.0 DRAINAGE SYSTEMS

Where temporary or permanent drainage systems are installed within or around a structure, the systems which will be installed must protect the structure from loss of ground due to internal erosion and must be designed so as to assure continued performance of the drains. Specific design detail of such systems should be developed or reviewed by the geotechnical engineer. Unless otherwise specified, it is a condition of this report that effective temporary and permanent drainage systems are required and that they must be considered in relation to project purpose and function.

13.0 BEARING CAPACITY

Design bearing capacities, loads and allowable stresses quoted in this report relate to a specific soil or rock type and condition. Construction activity and environmental circumstances can materially change the condition of soil or rock. The elevation at which a soil or rock type occurs is variable. It is a requirement of this report that structural elements be founded in and/or upon geological materials of the type and in the condition assumed. Sufficient observations should be made by qualified geotechnical personnel during construction to assure that the soil and/or rock conditions assumed in this report in fact exist at the site.

14.0 SAMPLES

EBA will retain all soil and rock samples for 30 days after this report is issued. Further storage or transfer of samples can be made at the Client's expense upon written request, otherwise samples will be discarded.

PHOTOS



Photo 1
Mill site earthworks – Looking West



Photo 2
Mill Site Earthworks – Looking East-NE

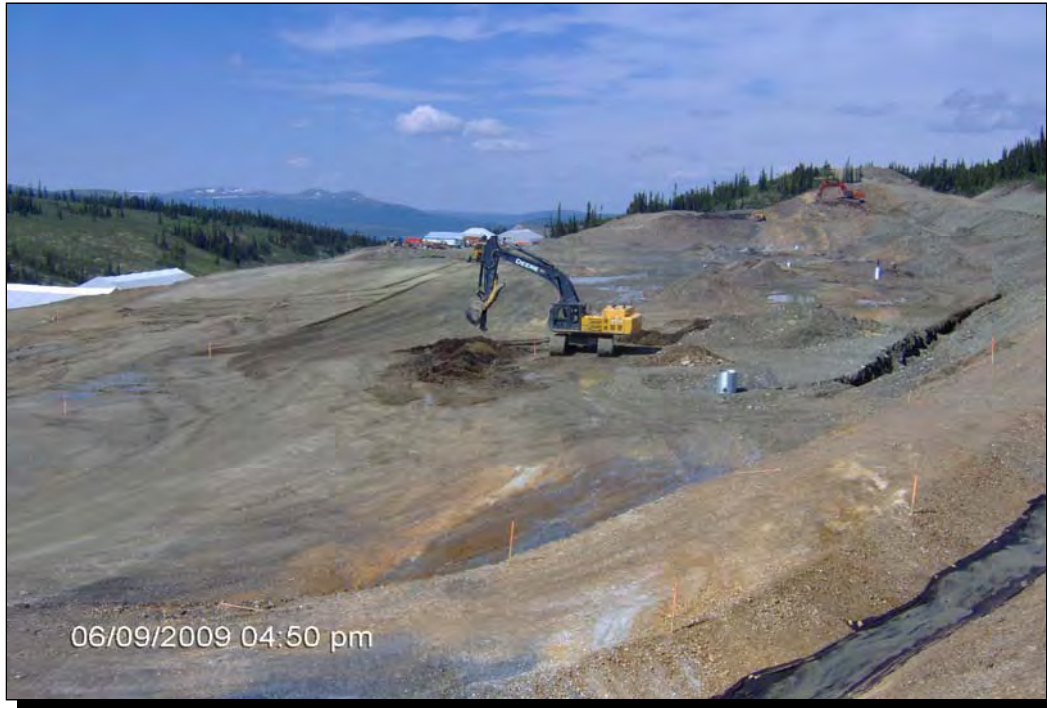


Photo 3
Mill Site Earthworks – Looking West



Photo 4
June 20, 2009 - Mill Site – CLO foundation excavation – Looking South



Photo 5

July 19, 2009 - Mill Site CLO (foreground) & Mill Bldg (background) foundation forms – Looking East



Photo 6

July 23, 2009 - Mill Bldg Foundation Lines A & B – Looking East



Photo 7
Sept 6, 2009 - Mill Bldg grade beam walls & rod mil foundations – Looking West

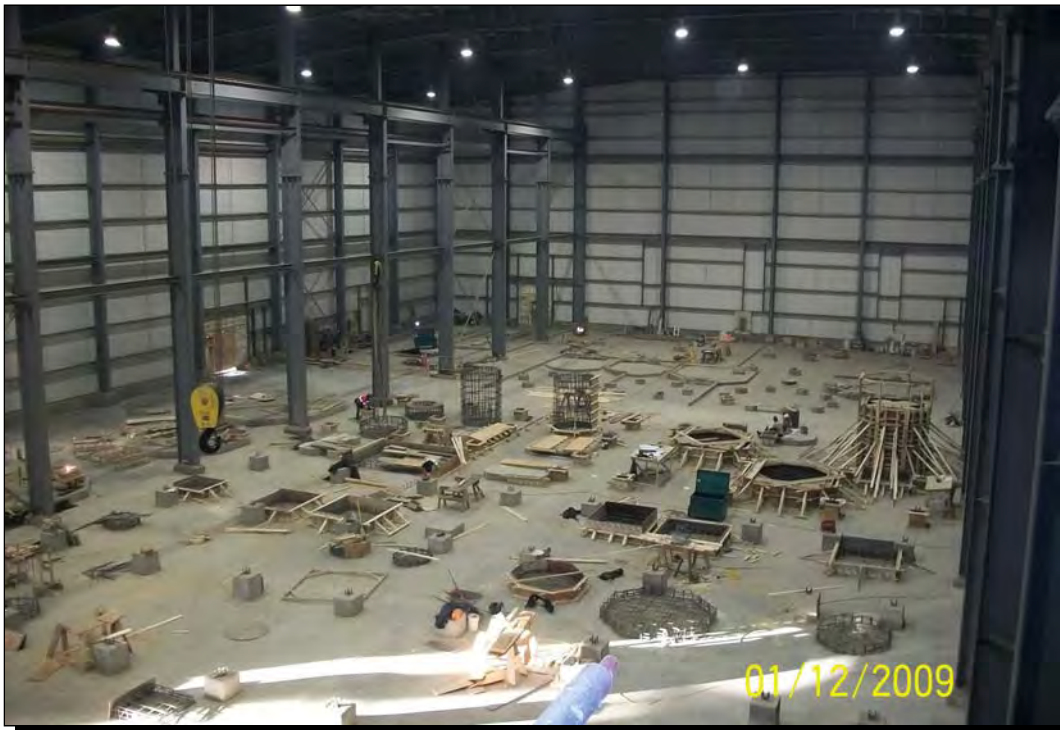


Photo 8
Inside Mill Bldg – Looking West



Photo 9
July 24, 2009 - MSE Wall 2A foundation excavation and 1st Row installation– Looking North



Photo 10
Aug 28, 2009 - Crusher Site and MSE Walls 2A (background) and 2B (foreground) – Looking West

APPENDIX A

APPENDIX A: TABLES SUMMARY OF AGGREGATES PRODUCTION TEST RESULTS

Arctic Construction Ltd.
Yukon Zinc Corp, Wolverine Project
Compilation of Sieve Tests of Rescreened Coarse Concrete Aggregate

Sieve	% Pass	%Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	
Test #	20mm	12.5mm	9.5mm	4.75 mm	2.36 mm	1.18 mm	0.600 mm	0.300 mm	0.15 mm	0.075 mm	
PrFine #2			97.1	83.2	67.2	49.8	35	22		11.3	Apr-26
PrFine#3			99.2	88.3	56	37.7	26.3	13.5		7.9	Apr-26
PrFine #5			98.1	80.4	63.1	45.8	31.6	20.3		11.2	Apr-27
PrFine #9			96.9	81.6	65.3	50	35.6	18.3		6	Apr-29
RJR Fine11			94.2	58.4	36.6	25.6	18.7	13.4		8	May-01
2RRCse12	98.2	48.4	10.7	3.3	2.8					1.5	Apr-27
2RRCse13	99.2	29.8	3.4	1.6	1.2					0.6	May-01
RJR Fine15			92.3	52.3	28.4	18.4	13.6	10	7.8	6.2	May-02
2RRCse16	100	47.9	12.7	2.6	2.4					1.3	May-02
2RRCse17	100	63.2	8.6	2.9	2.5					1.2	May-02
RJR Fine18			92.9	66.1	45.7	31.5	22.8	16.2	12	9.3	May-02
2RRCse19	100	46.1	8.4	2.3	2					1	May-02
RJR Fine20			91.6	57.5	37.3	26.1	19.5	14.3	10.8	8.2	May-02
RJR Fine21			90.3	47.8	28.8	20	15.4	11.7	9.2	7	May-03
2RRCse22	100	54.2	13	4	3.7	3.6				1.9	May-03

Pr Sieve Tests Mean Production Fine (Reject) Aggregate.

RJR Sieve Tests Mean Fine (Reject) Aggregate on 2nd Run Rescreen of Coarse Aggregate

2RRCse Sieve Tests Mean Coarse Aggregate on 2nd Run Rescreen; Initial Coarse Aggregate Tests not

Compiled here because all Coarse Aggregate Subsequently Rescreened

APPENDIX B

APPENDIX B: TABLES SUMMARY OF COMPACTION TEST RESULTS

COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Project No.: W14101095.005 **Specified Compaction:** % Std. Proctor Max. Dry Density
Client: Yukon Zinc Corp. **Specified Moisture (MC):**
Attention: Clive Creaney **Temperature:** Air: °C Soil: °C
Contractor: Arctic Construction **Date Tested:** See below **By:** RC
Construction Period: April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone:

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/04/30	1 250	N 6811057 E 439526 (near pump # 3)	1343.0	2320	5.2	2320	7.5	100.0
	2 250	N 6811034 E 439557 (near pump # 3)	1343.0	2219	6.0	2320	7.5	95.6
	3 250	N 6811051 E 439556 (near pump # 3)	1343.0	2263	5.4	2320	7.5	97.5
2009/05/02	4 250	N 6810619 E 440145	1354.0	2412	3.4	2320	7.5	104.0
	5 250	N 6810602 E 440164	1354.0	2334	3.4	2320	7.5	100.6
	6 250	N 6810614 E 440015	1353.0	2250	4.3	2320	7.5	97.0
2009/05/03	7 250	N 6810627 E 440139 - 2nd Lift	1354.5	2318	2.7	2320	7.5	99.9
	8 250	N 6810606 E 440155	1354.5	2358	2.5	2320	7.5	101.6
	9 250	N 6810827 E 439981	1358.0	2264	7.1	2320	7.5	97.6
	10 250	N 6810845 E 439955	1358.0	2210	5.4	2320	7.5	95.3
	11 250	N 6810828 E 439963	1358.5	2219	4.7	2320	7.5	95.6
2009/05/08	12 250	N 6810628 E 440136	1347.6	2257	7.4	2320	7.5	97.3

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

Copies:

Reviewed By:  P.Eng.

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EBA Engineering
Consultants Ltd.



COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt / (#21 & 21) - some silt - overburden from main mill site stripping

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/08	13 250	N 6810640 E 440132	1347.6	2210	6.2	2320	7.5	95.3
	14 250	N 6810916 E 439904	1358.0	2224	7.1	2320	7.5	95.9
	15 250	N 6810902 E 439898	1358.0	2233	7.4	2320	7.5	96.3
	16 250	N 6810956 E 439849	1363.0	2293	7.8	2320	7.5	98.8
	17 250	N 6810988 E 439841	1363.0	2432	7.1	2320	7.5	104.8
	18 250	N 6810896 E 439918	1358.1	2486	6.1	2320	7.5	107.2
	19 250	N 6810911 E 439906	1358.1	2241	8.4	2320	7.5	96.6
2009/05/09	20 250	N 6810648 E 440094 - SW edge of mill pad	1343.8	2250	6.3	2320	7.5	97.0
	21 250	N 6810660 E 4400675	1343.8	2155	6.5	2320	7.5	92.9
	22 250	N 6810912 E 439902	1358.0	2378	3.5	2320	7.5	102.5
	23 300	N 6810897 E 439906	1358.5	2764	4.9	2320	7.5	119.1
	24 300	N 6810926 E 440602	1358.0	2260	2.6	2320	7.5	97.4

Remarks: (#14-19) around powerhouse materials are mixed from bedrock E of it to overburden W of
Elevation for tests 25 to 27 were estimated from survey stakes.

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Reviewed By:  P Eng.

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**EBA Engineering
Consultants Ltd.**



COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Project No.: W14101095.005 **Specified Compaction:** _____ % Std. Proctor Max. Dry Density
Client: Yukon Zinc Corp. **Specified Moisture (MC):** _____
Attention: Clive Creaney **Temperature Air:** _____ °C **Soil:** _____ °C
Contractor: Arctic Construction **Date Tested:** See below **By:** RC
Construction Period: April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt / (#33-36) GRAVEL and SAND - some silt @km 28.7 (fresh water pond) pad.

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/09	25 300	N 6810938 E 439602	1359.0	2382	2.4	2320	7.5	102.7
	26 300	N 6810969 E 439864	1359.0	2534	3.0	2320	7.5	109.2
	27 250	N 6810983 E 439849	1365.0	2474	4.8	2320	7.5	106.6
2009/05/10	28 250	N 6810651 E 440091	1344.2	2199	4.3	2320	7.5	94.8
	29 250	N 6810659 E 440073	1344.2	2205	5.3	2320	7.5	95.0
	30 250	N 6810669 E 440050	1344.2	2223	4.9	2320	7.5	95.8
	31 300	N 6810927 E 439893	1358.5	2358	4.0	2320	7.5	101.6
	32 300	N 6810957 E 439877	1358.5	2608	4.8	2320	7.5	112.4
2009/05/11	33 250	N 6811057 E 439541	1344.7	2249	7.4	2320	7.5	96.9
	34 250	N 6811023 E 439570	1345.0	2238	5.0	2320	7.5	96.5
	35 250	N 6810997 E 439593	1342.5	2279	5.8	2320	7.5	98.2
	36 250	N 6810978 E 439614	1342.5	2212	5.6	2320	7.5	95.3

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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Reviewed By:  P.Eng.

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Consultants Ltd.



COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt / (#37-38) GRAVEL and SAND - some silt @km 28.7 (fresh water pond) pad.

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/11	37 250	N 6811059 E 439632	1343.5	2241	6.5	2320	7.5	96.6
	38 250	N 6810944 E 439656	1343.5	2216	4.6	2320	7.5	95.5
2009/05/12	39 250	N 6810934 E 439699	1344.0	2158	7.0	2320	7.5	93.0
	40 250	N 6810949 E 439663; Fresh Water Pond	1344.2	2120	6.9	2320	7.5	91.4
	41 250	N 6810620 E 440075 Water Treatment Plant	1343.0	2179	4.5	2320	7.5	93.9
	42 250	N 6810609 E 440067 Water Treatment Plant	1343.0	2162	3.9	2320	7.5	93.2
	43 250	N 6810972 E 439839 Gen-set & Fuel tank	1365.0	2160	3.2	2320	7.5	93.1
	44 250	N 6810978 E 439859 Gen-set & Fuel tank	1365.0	2130	6.4	2320	7.5	91.8
2009/05/13	45 250	N 6810629 E 440044	1365.0	2138	7.3	2320	7.5	92.2
	46 250	N 6811024 E 440061	1345.0	2142	7.0	2320	7.5	92.3
2009/05/14	47 250	N 6810970 E 439839	1363.0	2334	4.2	2320	7.5	100.6
	48 250	N 6810983 E 439821 Gen-set	1363.1	2291	4.8	2320	7.5	98.8

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

Copies:Reviewed By:  P.Eng.

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COMPACTION DENSITY TEST SUMMARY REPORT

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Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):**
Client: Yukon Zinc Corp. **Temperature** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/14	49 250	N 6810978 E 439850 Gen-set	1363.0	2216	4.3	2320	7.5	95.5
	50 250	N 6810964 E 439875 Gen-set	1363.0	2451	3.4	2320	7.5	105.6
	51 250	N 6810936 E 439898 Gen-set	1357.0	2459	1.2	2320	7.5	106.0
	52 250	N 6810092 E 439879 Gen-set	1356.2	2455	2.2	2320	7.5	105.8
	53 250	N 6810873 E 439920 Gen-set	1356.0	2210	2.8	2320	7.5	95.3
2009/05/15	54 250	N 6810874 E 440050	1345.0	2294	4.9	2320	7.5	98.9
	55 250	N 6810695 E 440002 Pad by propane tank	1342.5	2321	3.1	2320	7.5	100.0
	56 250	N 6810653 E 440082	1345.4	2199	2.5	2320	7.5	94.8
	57 250	N 6810969 E 439856 Fuel & Gen-set Pad	1365.5	2548	4.7	2320	7.5	109.8
	58 250	N 6810948 E 439878 Fuel & Gen-set Pad	1365.0	2569	6.5	2320	7.5	110.7
	59 250	N 6810690 E 440020	1345.5	2410	4.5	2320	7.5	103.9
	60 250	N 6810881 E 440045	1345.5	2245	5.5	2320	7.5	96.8

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

Copies:

Reviewed By:  P.Eng.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Project No.: W14101095.005 **Specified Compaction:** % Std. Proctor Max. Dry Density
Client: Yukon Zinc Corp. **Specified Moisture (MC):**
Attention: Clive Creaney **Temperature:** °C **Air:** °C **Soil:** °C
Contractor: Arctic Construction **Date Tested:** See below **By:** RC
Construction Period: April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/15	61 250	N 6810667 E 440055	1345.5	2258	4.8	2320	7.5	97.3
	62 250	N 6810642 E 440038	1346.5	2210	3.9	2320	7.5	95.3
	63 250	N 6810624 E 4400161	1347.5	2372	4.9	2320	7.5	102.2
2009/05/16	64 250	N 6810637 E 440099	1348.5	2314	3.0	2320	7.5	99.7
	65 250	N 6810651 E 440099	1349.5	2199	4.4	2320	7.5	94.8
2009/05/17	66 250	N 6810648 E 440143 Rd S of Mill Site	1350.5	2224	5.1	2320	7.5	95.9
	67 250	N 6810630 E 440139 Rd S of Mill Site	1351.5	2281	8.0	2320	7.5	98.3
	68 250	N 6810647 E 440064 Rd S of Mill Site	1352.5	2222	6.9	2320	7.5	95.8
	69 250	N 6810875 E 439918 Fuel & Gen-set Pad	1353.5	2225	4.2	2320	7.5	95.9
	70 250	N 6810875 E 439918 - Gen-set Pad	1354.5	2225	4.2	2310	5.5	96.3
	71 250	N 6810909 E 439903 Gen-set Pad	1355.5	2289	4.4	2310	5.5	99.1
	72 250	N 6810914 E 439985 Gen-set Pad	1356.5	2305	4.4	2310	5.5	99.8

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

Copies:

Reviewed By:  P Eng.

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**EBA Engineering
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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Project No.: W14101095.005 **Specified Compaction:** % Std. Proctor Max. Dry Density
Client: Yukon Zinc Corp. **Specified Moisture (MC):** _____
Attention: Clive Creancy **Temperature:** _____ **Air:** _____ **Soil:** _____ **°C**
Contractor: Arctic Construction **Date Tested:** See below **By:** RC
Construction Period: April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/17	73 250	N 6810609 E 440178	1350.0	2199	5.4	2310	5.5	95.2
	74 250	N 6810634 E 440155	1350.0	2200	3.5	2310	5.5	95.2
	75 250	N 6810691 E 440038	1347.0	2297	2.7	2310	5.5	99.4
	76 250	N6810671 E 440055 Mill Site Rd.	1346.5	2271	2.9	2310	5.5	98.3
	77 250	N 6810655 E 440085 Mill Site Rd.	1346.5	2199	1.9	2310	5.5	95.2
	78 250	N 6810692 E 440070 Mill Site Rd.	1348.0	2266	2.7	2310	5.5	98.1
	79 250	N 6810695 E 440070 Mill Site Rd.	1351.0	2364		2310	5.5	102.3
2009/05/18	80 250	N 6810643 E 440103 Mill Site Rd.	1348.3	2233	6.1	2310	5.5	96.7
	81 250	N 6810657 E 440081 Mill Site Rd.	1348.0	2243	2.9	2310	5.5	97.1
	82 250	N 6810682 E 440050 Mill Site Rd.	1348.0	2259	4.8	2310	5.5	97.8
	83 250	N 6810701 E 440023 Mill Site Rd.	1348.1	2224	7.4	2310	5.5	96.3
	84 250	N 6810681 E 440060 Mill Site Rd.	1348.6	2356	2.1	2310	5.5	102.0

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

Copies:

Reviewed By:  P.Eng.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Project No.: W14101095.005 **Specified Compaction:** _____ % Std. Proctor Max. Dry Density
Client: Yukon Zinc Corp. **Specified Moisture (MC):** _____
Attention: Clive Creaney **Temperature:** _____ °C **Air:** _____ °C **Soil:** _____ °C
Contractor: Arctic Construction **Date Tested:** See below **By:** RC
Construction Period: April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/18	85 250	N 6810605 E 440179 Mill Site Rd.	1351.0	2309	5.8	2310	5.5	100.0
	86 250	N 6810632 E 440158	1350.5	2230	5.3	2310	5.5	96.5
	87 250	N 6810661 E 440128	1351.0	2256	3.4	2310	5.5	97.7
	88 250	N6810673 E 440002 Propane N of WTP	1343.0	2291	5.7	2310	5.5	99.2
	89 250	N 6810646 E 440103 Mill Site Rd.	1350.0	2236	6.2	2310	5.5	96.8
	90 250	N 6810664 E 440082	1349.0	2208	5.9	2310	5.5	95.6
	91 250	N 6810680 E 440061	1348.6	2137	3.5	2250	6.5	95.0
	92 250	N 6810669 E 440064	1348.6	2142	3.8	2250	6.5	95.2
	93 250	N 6810709 E 440042	1340.0	2198	5.8	2250	6.5	97.7
	94 250	N 6810690 E 440093	1340.0	2221	6.9	2250	6.5	98.7
2009/05/19	95 250	N 6810727 E 440013	1352.0	2147	5.8	2250	6.5	95.4
2009/05/20	96 250	N 68107678 E 440091 Mill Site	1353.5	2196	4.7	2250	6.5	97.6

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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ASTM Designation D2922 & D3017

Soil Description: GRAVEL and SAND - some silt



COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** _____ °C **Air:** _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** RC/MM
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/21	109 250	N 6810922 E 439894	1362.9	2388	5.5	2310	5.5	103.4
2009/05/22	110 250	N 6810743 E 440009 Mill Site (Middle Bench)	1353.0	2245	6.7	2310	5.5	97.2
	111 250	N 6810723 E 440021 Mill Site (Middle Bench)	1353.0	2175	6.8	2310	5.5	94.2
	112 250	N 6810706 E 440047 Mill Site (Middle Bench)	1353.0	2231	7.9	2310	5.5	96.6
	113 250	N 6810891 E 440072 Mill Site (Middle Bench)	1353.0	2213	5.2	2310	5.5	95.8
2009/05/23	114 200	N 6810883 E 439897 - Fuel Pad	1359.0	2231	34.0	2310	5.5	96.6
	115 200	N 6810871 E 439909 - Fuel Pad	1360.0	2299	3.0	2310	5.5	99.5
	116 200	N 6810859 E 439925 - Fuel Pad	1361.0	2370	4.5	2310	5.5	102.6
	117 200	N 6810943 E 439845 Fuel Tank Farm	1365.0	2209	4.1	2310	5.5	95.6
	118 200	N 6810972 E 439851 - Fuel Tank Farm	1365.0	2321	3.8	2310	5.5	100.5
	119 200	N 6810959 E 439873 Fuel Tank Farm	1365.0	2235	3.3	2310	5.5	96.8
2009/05/24	120 200	N 6810916 E 439909 - Gen-set Pad	1364.0	2211	6.0	2310	5.5	95.7

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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Reviewed By:  P.Eng.

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Consultants Ltd.**



COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Specified Compaction: 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature:** _____ °C **Air:** _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** MM
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/24	121 200	N 6810934 E 439892 Gen-Set/Fuel Storage Area	1365.0	2171	3.7	2310	5.5	94.0
	122 200	N 6810927 E 439909 Gen-Set/Fuel Storage Area	1364.0	2195	3.8	2310	5.5	95.0
	123 200	N 6810903 E 439890 Aprox Elev. 1364	1364.0	2407	6.4	2310	5.5	104.2
	124 200	N 6810892 E 439910 Gen-Set/Fuel Storage Area	1364.0	2378	5.1	2310	5.5	102.9
	125 200	N 6810932 E 439897 Gen-Set/Fuel Storage Area	1365.0	2213	7.3	2310	5.5	95.8
	126 200	N 6810946 E 439889 Gen-Set/Fuel Storage Area	1365.0	2200	5.9	2310	5.5	95.2
	127 200	N 6810946 E 439889 Gen-Set/Fuel Storage Area	1365.0	2229	4.2	2310	5.5	96.5
	128 200	N 6810673 E 440070 South Mill Site Rd.	1349.7	2228	6.4	2310	5.5	96.5
	129 200	N 6810685 E 440070 South Mill Site Rd.	1349.8	2366	4.0	2310	5.5	102.4
	130 200	N 6810687 E 440044 South Mill Site Rd.	1349.7	2279	5.6	2310	5.5	98.7
	131 200	N 6810733 E 440000 South Mill Site Rd.	1349.7	2272	6.6	2310	5.5	98.4
	132 200	N 6810658 E 440140 Mill Site Rd.	1353.2	2276	4.4	2310	5.5	98.5

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

Copies:

Reviewed By: *CME* P.Eng.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** MM
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/24	133 200	N 6810645 E 440138 Mill Site Rd.	1353.2	2310	5.5	2310	5.5	100.0
	134 200	N 6810664 E 440111 Mill Site Rd.	1353.0	2244	4.4	2310	5.5	97.1
	135 200	N 6810623 E 440169 Mill Site Rd.	1353.2	2276	5.9	2310	5.5	98.5
2009/05/25	136 200	N 6810974 E 439858 Gen-Set/Fuel Storage Area	1367.5	2285	4.2	2310	5.5	98.9
	137 200	N 6810976 E 439840 Gen-Set/Fuel Storage Area	1367.5	2219	7.0	2310	5.5	96.1
	138 200	N 6810957 E 439860 Gen-Set/Fuel Storage Area	1367.0	2249	6.6	2310	5.5	97.4
	139 200	N 6810953 E 439845 Gen-Set/Fuel Storage Area	1367.2	2206	2.0	2310	5.5	95.5
	140 200	N 6810672 E 440072 Mill Site Middle Bench	1353.5	2305	3.4	2310	5.5	99.8
	141 200	N 6810708 E 440043 Mill Site Middle Bench	1353.5	2253	2.7	2310	5.5	97.5
	142 200	N 6810732 E 440026 Mill Site Middle Bench	1353.5	2217	4.2	2310	5.5	96.0
	143 200	N 6810746 E 440006 Mill Site Middle Bench	1353.5	2358	6.7	2310	5.5	102.1
	144 200	N 6810638 E 440115 SE Comer Mill Site Rd.	1351.0	2255	7.9	2310	5.5	97.6

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

Copies:

Reviewed By:  P.Eng.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Specified Compaction: 95 % Std Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** _____ °C **Air:** _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** MM
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/25	145 200	N 6810639 E 440106 SE Corner Mill Site Rd.	1351.0	2207	5.5	2310	5.5	95.5
2009/05/26	146 250	N 6810925 E 439873 Fuel Storage Area	1365.0	2144	2.5	2310	5.5	92.8
	147 250	N 6810947 E 439884 Fuel Storage	1365.2	2270	6.6	2310	5.5	98.3
	148 250	N 6810934 E 439897 Fuel Storage Area	1365.4	2143	2.2	2310	5.5	92.8
	149 250	N 6810638 E 440159 Mill Site Rd.	1354.3	2282	7.4	2310	5.5	98.8
	150 250	N 6810615 E 440176 Mill Site Rd.	1353.8	2298	7.6	2310	5.5	99.5
	151 250	N 6810599 E 440189 Mill Site Rd.	1353.9	2225	5.7	2310	5.5	96.3
	152 250	N 6810649 E 440143 Mill Site Rd.	1354.2	2266	8.0	2310	5.5	98.1
	153 200	N 6810909 E 439885 Fuel Storage Area	1365.2	2247	4.7	2310	5.5	97.3
	154 250	N 6810940 E 439891 Fuel Storage Area	1365.2	2235	4.8	2310	5.5	96.8
	155 250	N 6810947 E 439866 Fuel Storage Area	1365.4	2271	5.2	2310	5.5	98.3
	156 250	N 6810913 E 439901 Fuel Storage Area	1365.4	2264	5.3	2310	5.5	98.0

Remarks: # 153 to 156 are retests of #146-148

Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Project No.: W14101095.005 **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Client: Yukon Zinc Corp. **Specified Moisture (MC):** _____
Attention: Clive Creaney **Temperature Air:** _____ °C **Soil:** _____ °C
Contractor: Arctic Construction **Date Tested:** See below **By:** MM
Construction Period: April 22nd to Dec 19th, 2009

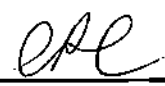
Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/26	157 250	N 6810902 E 439914 Gen-Set/Fuel Storage Area	1361.5	2208	2.5	2310	5.5	95.6
	158 250	N 6810873 E 439927 Gen-Set/Fuel Storage Area	1361.3	2262	4.7	2310	5.5	97.9
2009/05/27	159 250	N 6810643 E 440117 South Mill Site Rd.	1351.6	2195	2.5	2310	5.5	95.0
	160 250	N 6810659 E 440099 South Mill Site Rd.	1350.5	2228	3.7	2310	5.5	96.5
	161 250	N 6810669 E 440073 South Mill Site Rd.	1350.4	2233	3.1	2310	5.5	96.7
	162 250	N 6810687 E 440046 South Mill Site Rd.	1350.5	2253	9.3	2310	5.5	97.5
	163 250	N 6810717 E 440008 South Mill Site Rd.	1350.4	2329	2.3	2310	5.5	100.8
	164 200	N 6810985 E 439848 Fuel Storage Area	1368.0	2256	4.8	2310	5.5	97.7
	165 200	N 6810971 E 439851 Fuel Storage Area	1367.8	2224	4.7	2310	5.5	96.3
	166 250	N 6810951 E 439852 Fuel Storage Area	1367.8	2199	4.2	2310	5.5	95.2
	167 250	N 6810962 E 439837 Fuel Storage Area	1367.8	2189	3.4	2310	5.5	94.8
	168 250	N 6810606 E 440192 Mill Site Rd.	1354.6	2302	7.3	2310	5.5	99.7

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

Copies:

Reviewed By:  P.Eng

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Consultants Ltd.



COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Project No.: W14101095.005 **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Client: Yukon Zinc Corp. **Specified Moisture (MC):** _____
Attention: Clive Creaney **Temperature Air:** _____ °C **Soil:** _____ °C
Contractor: Arctic Construction **Date Tested:** See below **By:** MM
Construction Period: April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/27	169 250	N 6810622 E 440173 Mill Site Rd.	1355.7	2307	5.0	2310	5.5	99.9
	170 250	N 6810645 E 440157 Mill Site Rd.	1355.9	2305	3.0	2310	5.5	99.8
	171 250	N 6810637 E 440166 Mill Site Rd.	1355.2	2222	4.6	2310	5.5	96.2
	172 250	N 6810617 E 440172 Mill Site Rd.	1354.7	2297	6.3	2310	5.5	99.4
2009/05/28	173 250	N 6810667 E 440083 South Mill Site Rd.	1351.8	2208	5.2	2310	5.5	95.6
	174 250	N 6810654 E 440108 South Mill Site Rd.	1352.6	2240	5.2	2310	5.5	97.0
	175 250	N 6810648 E 440123 South Mill Site Rd.	1352.6	2298	4.5	2310	5.5	99.5
	176 250	N 6810673 E 440052 South Mill Site Rd.	1351.8	2200	5.6	2310	5.5	95.2
	177 200	N 6810700 E 440029 South Mill Site Rd.	1351.8	2227	4.2	2310	5.5	96.4
	178 250	N 6810678 E 440076 South Mill Site Rd.	1351.5	2228	3.0	2310	5.5	96.5
	179 250	N 6810862 E 439915 Fuel Storage / Gen-set Pad	1358.0	2300	4.7	2310	5.5	99.6
	180 250	N 6810888 E 439880 Fuel Storage / Gen-set Pad	1358.5	2193	4.3	2310	5.5	94.9

Remarks:

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Copies:

Reviewed By:  P.Eng.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** MM
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/28	181 250	N 6810900 E 439868 Fuel Storage Gen-set Pad	1358.9	2307	5.0	2310	5.5	99.9
	182 250	N 6810917 E 439856 Fuel Storage Gen-set Pad	1361.0	2305	3.0	2310	5.5	99.8
	183 250	N 6810951 E 439883 Fuel Storage Area	1365.8	2222	4.6	2310	5.5	96.2
	184 250	N 6810931 E 439859 Fuel Storage Area	1364.7	2297	6.3	2310	5.5	99.4
	185 250	N 6810929 E 439886 Fuel Storage Area	1364.5	2208	5.2	2310	5.5	95.6
2009/05/29	186 200	N 6810906 E 439889 Fuel Storage Area	1366.0	2240	5.2	2310	5.5	97.0
	187 200	N 6810922 E 439877 Fuel Storage Area	1365.0	2298	4.5	2310	5.5	99.5
	188 200	N 6810907 E 439906 Fuel Storage Area	1365.8	2200	5.6	2310	5.5	95.2
	189 200	N 6810931 E 439889 Fuel Storage Area	1366.0	2227	4.2	2310	5.5	96.4
	190 200	N 6810953 E 439878 Fuel Storage Area	1366.2	2228	3.0	2310	5.5	96.5
	191 250	N 6810629 E 440159 Mill Site Rd	1355.2	2300	4.7	2310	5.5	99.6
	192 250	N 6810621 E 440176 Mill Site Rd	1355.2	2193	4.3	2310	5.5	94.9

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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Reviewed By:  P.Eng.

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Consultants Ltd.



COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** MM
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/29	193 250	N 6810604 E 440179 Mill Site Rd	1354.9	2224	2.8	2310	5.5	96.3
	194 250	N 6810597 E 440194 Mill Site Rd	1354.2	2203	5.8	2310	5.5	95.4
	195 250	N 6810662 E 440092 South Mill Site Rd	1352.8	2287	4.7	2310	5.5	99.0
	196 250	N 6810653 E 440114 South Mill Site Rd	1352.0	2301	2.5	2310	5.5	99.6
	197 250	N 6810677 E 440079 South Mill Site Rd	1351.5	2466	8.1	2310	5.5	106.8
	198 250	N 6810699 E 440024 South Mill Site Rd	1351.5	2212	8.3	2310	5.5	95.8
	199 250	N 6810682 E 440056 South Mill Site Rd	1351.5	2204	8.9	2310	5.5	95.4
	200 250	N 6810727 E 440003 South Mill Site Rd	1351.5	2213	9.4	2310	5.5	95.8
	201 250	N 6810689 E 440090 Mill Site Middle Bench	1354.0	2366	3.2	2310	5.5	102.4
	202 250	N 6810693 E 440073 Mill Site Middle Bench	1354.0	2273	6.7	2310	5.5	98.4
	203 250	N 6810709 E 440052 Mill Site Middle Bench	1354.0	2233	6.3	2310	5.5	96.7
	204 250	N 6810726 E 440027 Mill Site Middle Bench	1354.0	2205	5.1	2310	5.5	95.5

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Project No.: W14101095.005 **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Client: Yukon Zinc Corp. **Temperature** Air: °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** MM
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

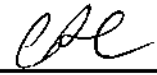
Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/29	205 250	N 6810749 E 440011 Mill Site Middle Bench	1354.0	2223	4.8	2310	5.5	96.2
	206 250	N 6810869 E 439912 Gen-Set/Fuel Storage Area	1359.4	2265	6.4	2310	5.5	98.1
	207 250	N 6810885 E 439891 Gen-Set/Fuel Storage Area	1359.0	2198	6.4	2310	5.5	95.2
	208 250	N 6810904 E 439869 Gen-Set/Fuel Storage Area	1358.8	2281	5.6	2310	5.5	98.7
	209 250	N 6810912 E 439858 Gen-Set/Fuel Storage Area	1359.4	2279	8.0	2310	5.5	98.7
	210 250	N 6810912 E 439858 Gen-Set/Fuel Storage Area	1359.4	2217	7.4	2310	5.5	96.0
	211 250	N 6810959 E 439871 Gen-Set/Fuel Storage Area	1367.0	2219	6.0	2310	5.5	96.1
	212 250	N 6810943 E 439886 Gen-Set/Fuel Storage Area	1367.0	2210	5.6	2310	5.5	95.7
	213 250	N 6810923 E 439883 Gen-Set/Fuel Storage Area	1366.0	2214	3.9	2310	5.5	95.8
	214 200	N 6810946 E 439865 Gen-Set/Fuel Storage Area	1366.0	2211	5.7	2310	5.5	95.7
2009/05/30	215 250	N 6810652 E 440105 South Mill Site Rd	1354.3	2233	3.5	2310	5.5	96.7
	216 250	N 6810670 E 440089 South Mill Site Rd.	1353.6	2201	5.7	2310	5.5	95.3

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** MM
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/30	217 250	N 6810652 E 440124 South Mill Site Rd.	1354.8	2229	8.0	2310	5.5	96.5
	218 250	N 6810674 E 440068 South Mill Site Rd.	1353.1	2201	4.9	2310	5.5	95.3
	219 250	N 6810697 E 440042 South Mill Site Rd.	1352.9	2205	5.4	2310	5.5	95.5
	220 250	N 6810720 E 440014 South Mill Site Rd.	1352.9	2215	5.0	2310	5.5	95.9
2009/05/31	221 250	N 6810630 E 440096 Mill Site Middle Bench Fill	1354.5	2213	3.6	2310	5.5	95.8
	222 250	N 6810695 E 440078 Mill Site Middle Bench Fill	1354.5	2221	5.7	2310	5.5	96.1
	223 250	N 6810708 E 440048 Mill Site Middle Bench Fill	1354.5	2202	30.0	2310	5.5	95.3
	224 250	N 6810721 E 440049 Mill Site Middle Bench Fill	1354.5	2224	6.0	2310	5.5	96.3
	225 250	N 6810739 E 440013 Mill Site Middle Bench Fill	1354.5	2205	6.2	2310	5.5	95.5
	226 250	N 6810765 E 440013 Mill Site Middle Bench Fill	1354.5	2224	6.6	2310	5.5	96.3
	227 250	N 6810662 E 440144 Mill Site Middle Bench Fill	1354.8	2255	4.9	2310	5.5	97.6
	228 250	N 6810674 E 440123 Mill Site Middle Bench Fill	1354.8	2295	6.0	2310	5.5	99.4

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Project No.: W14101095.005 **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Client: Yukon Zinc Corp. **Specified Moisture (MC):** _____
Attention: Clive Creaney **Temperature Air:** _____ °C **Soil:** _____ °C
Contractor: Arctic Construction **Date Tested:** See below **By:** MM
Construction Period: April 22nd to Dec 19th, 2009

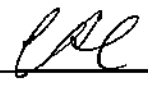
Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/05/31	229 250	N 6810661 E 440136 Mill Site Road	1354.8	2248	5.6	2310	5.5	97.3
2009/06/01	230 250	N 6810682 E 440122 South Mill Site Rd.	1354.8	2264	4.7	2310	5.5	98.0
	231 250	N 6810676 E 440101 South Mill Site Rd.	1354.5	2266	3.6	2310	5.5	98.1
	232 250	N 6810674 E 440077 South Mill Site Rd.	1354.8	2275	5.6	2310	5.5	98.5
	233 250	N 6810642 E 440156 Mill Site Rd. Culvert Base	1356.0	2297	6.6	2310	5.5	99.4
	234 250	N 6810639 E 440150 Mill Site Rd. Culvert Base	1356.0	2293	6.7	2310	5.5	99.3
	235 250	N 6810644 E 440162 Mill Site Rd. Culvert Base	1356.0	2237	7.4	2310	5.5	96.8
	236 250	N 6810933 E 439873 Gen-Set/Fuel Storage Area	1367.0	2343	3.8	2310	5.5	101.4
	237 250	N 6810952 E 439863 Gen-Set/Fuel Storage Area	1367.5	2281	5.7	2310	5.5	98.7
	238 250	N 6810951 E 439890 Gen-Set/Fuel Storage Area	1367.2	2203	2.7	2310	5.5	95.4
	239 250	N 6810951 E 439894 Gen-Set/Fuel Storage Area	1366.5	2261	4.3	2310	5.5	97.9
	240 250	N 6810893 E 439911 Gen-Set/Fuel Storage Area	1362.3	2321	3.8	2310	5.5	100.5

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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Reviewed By:  P.Eng.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Project No.: W14101095.005 **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Client: Yukon Zinc Corp. **Specified Moisture (MC):** _____
Attention: Clive Creaney **Temperature:** _____ **Air:** _____ **°C Soil:** _____ **°C**
Contractor: Arctic Construction **Date Tested:** See below **By:** MM
Construction Period: April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/01	241 250	N 6810908 E 439898 Gen-Set/Fuel Storage Area	1362.3	2297	6.3	2310	5.5	99.4
	242 250	N 6810607 E 440183 Mill Site Rd.	1357.0	2248	6.4	2310	5.5	97.3
	243 250	N 6810629 E 440165 Mill Site Rd.	1356.7	2196	5.1	2310	5.5	95.1
	244 250	N 6810636 E 440164 Mill Site Rd.	1356.7	2201	8.3	2310	5.5	95.3
	245 250	N 6810627 E 440171 Mill Site Rd.	1356.9	2218	5.2	2310	5.5	96.0
2009/06/02	246 250	N 6810681 E 440121 Mill Site Rd.	1356.8	2225	4.8	2310	5.5	96.3
	247 250	N 6810669 E 440125 Mill Site Rd.	1356.8	2250	4.9	2310	5.5	97.4
	248 250	N 6810669 E 440115 Mill Site Rd.	1356.8	2297	3.3	2310	5.5	99.4
	249 250	N 6810647 E 440161 Mill Site Rd. Culvert Installation	1357.8	2138	5.2	2250	6.5	95.0
	250 250	N 6810640 E 440156 Mill Site Rd. Culvert Installation	1357.8	2146	6.3	2250	6.5	95.4
	251 250	N 6810712 E 440078 Mill Site Rd. Middle Bench	1354.8	2355	5.0	2310	5.5	101.9
	252 250	N 6810707 E 440064 Mill Site Rd. Middle Bench	1354.8	2315	4.9	2310	5.5	100.2

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** MM
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/02	253 250	N 6810730 E 440038 Mill Site Middle Bench	1354.8	2241	4.5	2310	5.5	97.0
	254 250	N 6810731 E 440024 Mill Site Middle Bench	1354.8	2206	4.1	2310	5.5	95.5
	255 250	N 6810760 E 440008 Mill Site Middle Bench	1354.8	2229	4.6	2310	5.5	96.5
2009/06/03	256 250	N 6810646 E 440156 Mill Site Rd. Culvert Installation	1357.3	2147	5.8	2250	6.5	95.4
	257 250	N 6810642 E 440155 Mill Site Rd. Culvert Installation	1357.1	2150	6.9	2250	6.5	95.6
	258 250	N 6810642 E 440158 Mill Site Rd. Culvert Installation	1357.1	2175	7.0	2250	6.5	96.5
	259 250	N 6810645 E 440160 Mill Site Rd. Culvert Installation	1357.1	2184	6.9	2250	6.5	97.0
	260 250	N 6810681 E 440152 Mill Site Rd. Culvert Installation	1356.5	2143	5.9	2250	6.5	95.2
	261 250	N 6810635 E 440150 Mill Site Rd. Culvert Installation	1356.5	2145	6.4	2250	6.5	95.3
	262 250	N 6810637 E 440153 Mill Site Rd. Culvert Installation	1357.1	2144	7.2	2250	6.5	95.3
	263 250	N 6810635 E 440152 Mill Site Rd. Culvert Installation	1357.1	2167	7.0	2250	6.5	96.3
	264 250	N 6810681 E 440135 Mill Site Middle Bench	1355.8	2257	5.1	2310	5.5	97.7

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** MM
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/03	265 250	Mill Site Middle Bench N 6810661 E 440144	1356.0	2372	4.7	2310	5.5	102.7
	266 250	Mill Site Middle Bench N 6810668 E 440122	1356.0	2199	5.8	2310	5.5	95.2
	267 250	Mill Site Middle Bench N 6810683 E 440113	1356.0	2205	6.3	2310	5.5	95.5
	268 250	Mill Site Middle Bench N 6810692 E 440090	1356.0	2199	3.6	2310	5.5	95.2
	269 250	Mill Site Middle Bench N 6810705 E 440071	1356.0	2212	5.0	2310	5.5	95.8
	270 250	Mill Site Middle Bench N 6810709 E 440044	1356.8	2225	5.9	2310	5.5	96.3
	271 250	Mill Site Middle Bench N 6810727 E 440040	1357.0	2251	6.4	2310	5.5	97.4
	272 250	South Mill Site Rd. N 6810646 E 440044	1353.5	2250	6.9	2310	5.5	97.4
	273 250	South Mill Site Rd. N 6810703 E 440028	1353.7	2304	6.1	2310	5.5	99.7
	274 250	South Mill Site Rd. N 6810719 E 440016	1353.3	2308	6.4	2310	5.5	99.9
	275 250	South Mill Site Rd. N 6810734 E 440001	1353.3	2214	6.0	2310	5.5	95.8
	276 250	South Mill Site Rd. N 6810762 E 439986	1353.3	2205	5.9	2310	5.5	95.5

Remarks:

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Consultants Ltd.**

ASTM Designation D2922 & D3017

Project:	<u>QA Testing</u>	Test Apparatus:	<u>Nuclear</u>	Troxler No:	<u>60841</u>		
<u>Wolverine Lake Mine, YT</u>		Specified Compaction:	<u>95</u>	<u>% Std. Proctor Max. Dry Density</u>			
Project No.:	<u>W14101095.005</u>	Specified Moisture (MC):	<u></u>				
Client:	<u>Yukon Zinc Corp.</u>	Temperature	Air:	<u></u>	°C Soil:	<u></u>	°C
Attention:	<u>Clive Creaney</u>	Date Tested:	<u>See below</u>	By:	<u>MM</u>		
Contractor:	<u>Arctic Construction</u>	Construction Period:	<u>April 22nd to Dec 19th, 2009</u>				

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone:

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/06/03	277 250	Mill Site Middle Bench N 6810732 E 440038	1357.0	2198	5.7	2310	5.5	95.2
	278 250	Mill Site Middle Bench N 6810750 E 440008	1357.0	2220	7.3	2310	5.5	96.1
	279 250	Mill Site Middle Bench N 6810764 E 440005	1357.0	2200	7.1	2310	5.5	95.2
2009/06/04	280 250	Fuel Storage N 6810944 E 439890	1366.4	2274	2.9	2310	5.5	98.4
	281 250	Fuel Storage N 6810944 E 439866	1367.0	2265	6.7	2310	5.5	98.1
	282 250	Fuel Storage N 6810926 E 439874	1366.1	2284	2.8	2310	5.5	98.9
	283 250	Fuel Storage N 6810914 E 439896	1365.5	2283	4.1	2310	5.5	98.8
	284 250	Fuel Storage N 6810917 E 439904	1365.5	2236	2.9	2310	5.5	96.8
	285 250	Fuel Storage N 6810898 E 439906	1365.0	2257	4.0	2310	5.5	97.7
	286 250	Gen-set Pad N 6810887 E 439918	1362.5	2338	3.7	2310	5.5	101.2
	287 250	Gen-set Pad N 6810871 E 439928	1362.0	2355	5.0	2310	5.5	101.9
	288 250	Gen-set Pad N 6810862 E 439936	1361.5	2329	3.1	2310	5.5	100.8

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** MM
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/04	289 250	Mill Site Rd. N 6810636 E 440158	1356.9	2233	5.6	2310	5.5	96.7
	290 250	Mill Site Rd. N 6810636 E 440173	1356.9	2256	5.6	2310	5.5	97.7
	291 250	Mill Site Rd. N 6810605 E 440183	1357.0	2202	6.2	2310	5.5	95.3
	292 250	Mill Site Middle Bench N 6810677 E 440124	1356.0	2219	7.8	2310	5.5	96.1
	293 250	Mill Site Middle Bench N 6810660 E 440149	1356.0	2312	3.6	2310	5.5	100.1
	294 250	Mill Site Middle Bench N 6810685 E 440093	1356.2	2222	4.9	2310	5.5	96.2
	295 250	Mill Site Middle Bench N 6810707 E 440064	1356.5	2199	5.5	2310	5.5	95.2
	296 250	Mill Site Middle Bench N 6810710 E 440044	1357.0	2198	4.4	2310	5.5	95.2
	297 250	Mill Site Middle Bench N 6810712 E 440058	1357.0	2222	5.4	2310	5.5	96.2
	298 250	Mill Site Rd. N 6810610 E 440188	1357.6	2223	3.5	2310	5.5	96.2
	299 250	Mill Site Rd. N 6810590 E 440199	1357.8	2282	4.6	2310	5.5	98.8
	300 250	Mill Site Rd. N 6810638 E 440161	1357.3	2201	3.2	2310	5.5	95.3

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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Consultants Ltd.**



COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** MM
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/04	301 250	Mill Site Middle Bench N 6810737 E 440026	1357.2	2203	4.4	2310	5.5	95.4
	302 250	Mill Site Middle Bench N 6810753 E 440015	1357.2	2201	4.9	2310	5.5	95.3
	303 250	Mill Site Middle Bench N 6810719 E 440029	1357.2	2198	4.3	2310	5.5	95.2
	304 250	South Mill Site Rd. N 6810680 E 440074	1353.5	2262	5.6	2310	5.5	97.9
	305 250	South Mill Site Rd. N 6810664 E 440062	1354.5	2213	9.1	2310	5.5	95.8
	306 250	South Mill Site Rd. N 6810650 E 440116	1354.8	2204	8.1	2310	5.5	95.4
2009/06/07	307 250	Mill Site Middle Bench N 6810667 E 440130	1356.0	2194	6.2	2310	5.5	95.0
	308 250	Mill Site Middle Bench N 6810656 E 440147	1356.2	2172	5.2	2310	5.5	94.0
	309 250	Mill Site Middle Bench N 6810666 E 440122	1356.1	2202	7.1	2310	5.5	95.3
	310 250	Mill Site Middle Bench N 6810682 E 440102	1356.2	2157	5.9	2310	5.5	93.4
	311 250	Mill Site Middle Bench N 6810705 E 440067	1357.2	2082	7.0	2310	5.5	90.1

Remarks:

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C Soil: _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** MM
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/07	312 250	South Mill Site Rd. N 6810708 E 440026	1353.4	2208	4.6	2310	5.5	95.6
	313 250	South Mill Site Rd. N 6810704 E 440036	1353.5	2198	5.8	2310	5.5	95.2
	314 250	South Mill Site Rd. N 6810721 E 440018	1353.5	2207	5.8	2310	5.5	95.5
	315 250	South Mill Site Rd. N 6810740 E 440000	1353.3	2198	5.8	2310	5.5	95.2
	316 250	South Mill Site Rd. N 6810760 E 439990	1353.3	2136	4.5	2250	6.5	94.9
	317 250	South Mill Site Rd. N 6810778 E 439981	1353.5	2148	5.4	2250	6.5	95.5
	318 250	South Mill Site Rd. N 6810781 E 439971	1353.2	2180	9.0	2250	6.5	96.9
	319 250	South Mill Site Rd N 6810793 E 439967	1356.0	2184	5.2	2250	6.5	97.1
	320 250	Mill Site Middle Bench N 6810668 E 440115	1357.0	2178	8.1	2250	6.5	96.8
	321 250	Mill Site Middle Bench N 6810696 E 440100	1357.0	2163	6.7	2250	6.5	96.1
	322 250	Mill Site Middle Bench N 6810696 E 440083	1357.2	2126	7.5	2250	6.5	94.5
	323 250	Mill Site Middle Bench N 6810712 E 440043	1357.2	2138	7.2	2250	6.5	95.0

Remarks:

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** MM
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/08	324 250	Mill Site Middle Bench N 6810692 E 440081	1357.0	2142	8.7	2250	6.5	95.2
	325 250	Mill Site Middle Bench N 6810708 E 440043	1357.2	2179	8.3	2250	6.5	96.8
	326 250	Mill Site Middle Bench N 6810704 E 440050	1357.2	2173	7.5	2250	6.5	96.6
	327 250	Mill Site Middle Bench N 6810724 E 440044	1357.5	2162	6.4	2250	6.5	96.1
	328 250	Mill Site Middle Bench N 6810730 E 440030	1357.5	2158	8.0	2250	6.5	95.9
	329 250	Mill Site Middle Bench N 6810765 E 440009	1357.5	2138	8.1	2250	6.5	95.0
	330 250	Mill Site Middle Bench N 6810745 E 440014	1367.5	2150	8.5	2250	6.5	95.6
	331 250	Mill Site Middle Bench N 6810765 E 440000	1367.5	2156	8.2	2250	6.5	95.8
	332 250	Fuel Storage N 6810940 E 439879	1367.5	2235	3.9	2310	5.5	96.8
	333 250	Fuel Storage N 6810957 E 439875	1367.5	2201	4.3	2310	5.5	95.3
	334 250	Fuel Storage N 6810970 E 439883	1367.8	2210	3.9	2310	5.5	95.7
	335 250	Fuel Storage N 6810938 E 439879	1366.7	2238	4.0	2310	5.5	96.9

Remarks:

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** MM
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/06/08	336 250	Fuel Storage N 6810929 E 439878	1366.7	2200	3.9	2310	5.5	95.2
	337 250	Fuel Storage N 6810919 E 439888	1367.2	2203	2.8	2310	5.5	95.4
	338 250	Fuel Storage N 6810923 E 439903	1366.5	2226	4.7	2310	5.5	96.4
	339 250	Fuel Storage N 6810899 E 439901	1365.2	2221	3.1	2310	5.5	96.1
	340 250	Mill Site Rd. N 6810663 E 440125	1357.2	2226	3.7	2310	5.5	96.4
	341 250	Mill Site Rd. N 6810653 E 440155	1357.2	2262	4.8	2310	5.5	97.9
	342 250	Mill Site Rd. N 6810649 E 440139	1357.2	2259	5.8	2310	5.5	97.8
	343 250	Mill Site Rd. N 6810671 E 440134	1357.2	2280	5.2	2310	5.5	98.7
	344 250	Mill Site Rd. N 6810620 E 440165	1357.3	2142	8.4	2250	6.5	95.2
	345 250	Mill Site Rd. N 6810627 E 440163	1357.7	2170	8.2	2250	6.5	96.4
	346 250	Mill Site Rd. N 6810625 E 440165 Aprox Elev. 1357.2	1357.2	2167	6.9	2250	6.5	96.3

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Project No.: W14101095.005 **Specified Compaction:** 95 % Std Proctor Max. Dry Density
Client: Yukon Zinc Corp. **Specified Moisture (MC):** _____
Attention: Clive Creaney **Temperature Air:** _____ °C **Soil:** _____ °C
Contractor: Arctic Construction **Date Tested:** See below **By:** MM
Construction Period: April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt MC %	Comp % SPD
2009/06/09	347 250	Mill Site Middle Bench N 6810649 E 440157	1357.5	2251	6.5	2310	5.5	97.4
	348 250	Mill Site Middle Bench N 6810655 E 440142	1357.5	2294	5.3	2310	5.5	99.3
	349 250	Mill Site Middle Bench N 6810672 E 440136	1357.5	2322	6.1	2310	5.5	100.5
	350 250	Mill Site Middle Bench N 6810684 E 440113	1357.5	2195	8.3	2310	5.5	95.0
	351 250	Mill Site Middle Bench N 6810697 E 440098	1357.7	2146	9.0	2250	6.5	95.4
	352 250	Mill Site Middle Bench N 6810692 E 440078	1357.7	2219	6.2	2250	6.5	98.6
	353 250	Mill Site Middle Bench N 6810706 E 440074	1357.8	2241	4.6	2250	5.5	99.6
	354 250	South Mill Site Rd. N 6810654 E 440111	1355.1	2151	7.1	2250	5.5	95.6
	355 250	South Mill Site Rd. N 6810657 E 440124	1355.1	2143	9.1	2250	6.5	95.2
	356 250	South Mill Site Rd. N 6810674 E 440080	1355.4	2209	9.2	2250	6.5	98.2
	357 250	South Mill Site Rd. N 6810680 E 440124	1354.1	2165	7.0	2250	6.5	96.2
	358 250	South Mill Site Rd. N 6810695 E 440060	1354.0	2211	8.6	2250	6.5	98.3

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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Consultants Ltd.**



COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zine Corp. **Temperature** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** MM
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/09	359 250	South Mill Site Rd. N 6810701 E 440042	1354.7	2173	7.2	2250	6.5	96.6
	360 250	South Mill Site Rd. N 6810730 E 440013	1353.8	2211	7.0	2250	6.5	98.3
	361 250	South Mill Site Rd. N 6810752 E 439999	1353.5	2273	8.5	2250	6.5	101.0
	362 250	South Mill Site Rd. N 6810790 E 439969	1353.5	2199	7.8	2250	6.5	97.7
	363 250	Gen-set Pad N 6810891 E 439911	1363.5	2273	4.9	2310	5.5	98.4
	364 250	Gen-set Pad N 6810882 E 439924	1363.2	2288	6.1	2310	5.5	99.0
	365 250	Gen-set Pad N 6810867 E 439927	1362.8	2300	4.7	2310	5.5	99.6
	366 250	Fuel Storage N 6810657 E 440124	1359.0	2150	6.1	2250	6.5	95.6
	367 250	Fuel Storage N 6810889 E 439888	1359.0	2179	6.1	2250	6.5	96.8
	368 250	Fuel Storage N 6810869 E 439909	1361.0	2172	5.4	2250	6.5	96.5
2009/06/10	369 250	Mill Site Rd. N 6810654 E 440117	1355.4	2233	6.9	2310	5.5	96.7
	370 250	Mill Site Rd. N 6810648 E 440121	1355.4	2182	8.7	2310	5.5	94.5

Remarks:

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

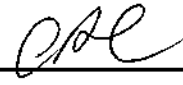
Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C Soil: _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** MM
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zonc:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/10	371 250	Mill Site Rd. N 6810676 E 440070	1355.1	2214	7.7	2310	5.5	95.8
	372 250	Mill Site Rd. N 6810636 E 440121	1355.5	2204	8.3	2310	5.5	95.4
	373 250	Mill Site Rd. N 6810664 E 440076	1354.8	2193	6.3	2310	5.5	94.9
	374 250	Mill Site Rd. N 6810687 E 440048	1354.6	2207	7.7	2310	5.5	95.5
	375 250	Gen-set Pad N 6810871 E 439907	1357.2	2289	3.5	2310	5.5	99.1
	376 250	Gen-set Pad N 6810884 E 439891	1357.2	2199	3.8	2310	5.5	95.2
	377 250	Gen-set Pad N 6810863 E 439938	1362.0	2334	2.9	2310	5.5	101.0
	378 250	Gen-set Pad N 6810880 E 439918	1362.5	2293	2.6	2310	5.5	99.3
	379 250	Gen-set Pad N 6810902 E 439938	1363.2	2334	2.9	2310	5.5	101.0
	380 250	Fuel Storage N 6810902 E 439879	1360.2	2277	3.2	2310	5.5	98.6
	381 250	Fuel Storage N 6810917 E 439862	1361.8	2240	3.0	2310	5.5	97.0
	382 250	Fuel Storage N 6810945 E 439876	1367.8	2256	4.3	2310	5.5	97.7

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** MM/RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/10	383 250	Fuel Storage N 6810936 E 439888	1367.8	2248	3.6	2310	5.5	97.3
	384 250	Fuel Storage N 6810915 E 439888	1367.0	2313	2.6	2310	5.5	100.1
	385 250	Mill Site Rd. N 6810728 E 440014	1354.5	2234	8.2	2310	5.5	96.7
	386 250	Mill Site Rd. N 6810744 E 439998	1354.5	2202	7.2	2310	5.5	95.3
	387 250	Mill Site Rd. N 6810766 E 439991	1354.5	2198	6.0	2310	5.5	95.2
	388 250	Mill Site Rd. N 6810778 E 439977	1354.2	2258	5.7	2310	5.5	97.7
	389 250	Mill Site Rd. N 6810797 E 439964	1354.2	2236	5.9	2310	5.5	96.8
2009/06/11	390 250	Fresh Water Pond N 6811085 E 439543	1347.0	2301	5.7	2310	5.5	99.6
	391 250	Fresh Water Pond N 6811102 E 439557	1347.0	2269	6.4	2310	5.5	98.2
	392 250	Fresh Water Pond N 6811118 E 439514	1347.0	2227	4.2	2310	5.5	96.4
	393 250	Fresh Water Pond N 6811109 E 439528	1347.0	2196	4.4	2310	5.5	95.1
	394 250	Mill Site Rd. N 6810663 E 440106	1347.0	2386	6.8	2310	5.5	103.3

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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Reviewed By:  P.Eng.

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Consultants Ltd.



COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60814
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/13	395 250	Mill Site Rd. N 6810675 E 440049	1355.8	2198	8.0	2310	5.5	95.2
	396 250	Mill Site Rd. N 6810715 E 440023	1355.8	2375	3.8	2310	5.5	102.8
	397 250	NW Corner Mill Site Pad N 6810747 E 440011	1358.0	2302	5.9	2310	7	99.7
	398 250	NW Corner Mill Site Pad N 68107276 E 439996	1358.0	2221	5.3	2310	7	96.1
	399 250	NW Corner Mill Site Pad N 6810804 E 439980	1358.0	2280	6.8	2310	7	98.7
	400 250	NW Corner Mill Site Pad N 6810770 E 440007	1358.0	2336		2310	7	101.1
2009/06/14	401 250	Mill Site Rd. N 6810646 E 440118	1356.4	2272	5.6	2310	7	98.4
	402 250	Mill Site Rd. N 6810660 E 440115	1357.1	2224	5.6	2310	7	96.3
	403 250	Mill Site Rd. N 6810675 E 440087	1356.5	2269	5.1	2310	7	98.2
	404 250	Mill Site Rd. N 6810690 E 440057	1356.0	2254	6.9	2310	7	97.6
	405 250	Mill Site Rd. N 68104 E 439964	1353.8	2280	5.6	2310	7	98.7
	406 250	Fresh Water Pond N 6811118 E 439535	1346.5	2228	6.9	2310	7	96.5

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60814
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
	407 250	Mill Site Rd. N 6810652 E 440123	1357.5	2283	5.9	2310	5.5	98.8
	408 250	Mill Site Rd. N 6810667 E 440089	1357.2	2335	5.0	2310	5.5	101.1
	409 250	Mill Site Rd. N 6810695 E 440061	1356.2	2218	4.5	2310	7	96.0
	410 250	Mill Site Rd. N 6810710E 440028	1357.7	2290	5.2	2310	7	99.1
	411 250	Mill Site Rd. N 6810736 E 440007	1357.4	2252	4.8	2310	7	97.5
	412 250	Mill Site Rd. N 6810795 E 439993	1357.2	2317	3.4	2310	7	100.3
	413 250	Fuel Pad/Gemset N 6810913 E 439909	1364.2	2209	2.6	2310	7	95.6
	414 250	Fuel Pad/Gemset N 6810928 E 439923	1364.1	2223		2310	7	96.2
	415 250	Fuel Pad/Gemset N 6810937 E 439884	1364.2	2271		2310	7	98.3
	416 250	Fuel Pad/Gemset N 6810952 E 439897	1364.6	2347	6.4	2310	7	101.6
	417 250	Mill Site Rd. N 6810775 E 439999	1355.0	2363	3.6	2310	7	102.3
	418 250	Mill Site Rd. N 6810782 E 439976	1355.0	2256	4.0	2310	7	97.7

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60814
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/15	419 250	Mill Site Rd. N 6810751 E 439995	1355.1	2204	5.5	2310	5.5	95.4
	420 250	Mill Site Rd. N 6810717 E 440015	1356.0	2280	5.9	2310	5.5	98.7
	421 250	Mill Site Rd. N 6810718 E 440026	1356.0	2311	4.9	2310	7	100.0
2009/06/16	422 250	Mill Site Rd. N 6810647 E 440129	1358.0	2196	7.2	2310	7	95.1
	423 250	Mill Site Rd. N 6810664 E 440103	1357.3	2288	5.4	2310	7	99.0
	424 250	Mill Site Rd. N 6810672 E 440083	1357.0	2195	8.7	2310	7	95.0
	425 250	Mill Site Rd. N 6810687 E 440056	1356.4	2466	5.9	2310	7	106.8
	426 250	Mill Site Rd. N 6810714 E 440023	1355.9	2329	5.9	2310	7	100.8
	427 250	Mill Site Rd. N 6810756 E 439996	1355.5	2201	8.0	2310	7	95.3
	428 250	Mill Site Rd. N 6810780 E 439976	1355.5	2228	7.5	2310	5.5	96.5
	429 250	Mill Site Rd. N 6810810 E 439956	1356.5	2201	7.8	2310	5.5	95.3
	430 250	Fuel Pad N 6810902 E 439882	1361.0	2221	7.4	2310	5.5	96.1

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60814
Wolverine Lake Mine, YT
Specified Compaction: 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** _____ **Air:** _____ **°C Soil:** _____ **°C**
Attention: Clive Creaney **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/16	431 250	Fuel Pad N 6810913E 439864	1361.4	2295	6.5	2310	5.5	99.4
	432 250	Fuel Pad N 6810932 E 439959	1361.6	2213	4.0	2310	5.5	95.8
	433 250	Mill Site Rd. N 6810654 E 440112	1357.8	2199	4.8	2310	5.5	95.2
	434 250	Mill Site Rd. N 6810674 E 440101	1357.8	2285	6.2	2310	5.5	98.9
	435 250	Mill Site Rd. N 6810692 E 440070	1357.2	2251	5.9	2310	5.5	97.4
	436 250	Mill Site Rd. N 6810708 E 440042	1357.2	2252	5.5	2310	5.5	97.5
	437 250	Mill Site Rd. N 6810730 E 440005	1356.0	2211	5.1	2310	5.5	95.7
	438 250	Mill Site Rd. N 6810764 E 439994	1356.2	2284	5.1	2310	5.5	98.9
	439 250	Mill Site Rd. N 6810784 E 439979	1356.6	2342	5.9	2310	5.5	101.4
2009/06/17	440 250	Mill Site Rd. N 6810751 E 439994	1356.5	2213	9.4	2310	5.5	95.8
	441 250	Mill Site Rd. N 6810777 E 439981	1356.5	2270	7.5	2310	5.5	98.3
	442 250	Mill Site Rd. N 6810844 E 439958	1357.0	2322	6.5	2310	5.5	100.5

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60814
Wolverine Lake Mine, YT
Project No.: W14101095.005 **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Client: Yukon Zinc Corp. **Specified Moisture (MC):**
Attention: Clive Creaney **Temperature Air:** °C **Soil:** °C
Contractor: Arctic Construction **Date Tested:** See below **By:** RC
Construction Period: April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:**

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/17	443 250	Mill Site Rd. N 681D698 E 440045	1356.7	2239	7.5	2310	5.5	96.9
	444 250	Mill Site Rd. N 6810653 E 440126	1358.0	2257	9.0	2310	5.5	97.7
	445 250	Mill Site Rd. N 6810684 E 440084	1357.6	2220	8.2	2310	5.5	96.1
	446 250	Gen-set / Fuelpad N 6810886 E 439894	1358.2	2222	6.5	2310	5.5	96.2
	447 250	Gen-set / Fuelpad N 6810904 E 439872	1358.7	2207	8.1	2310	5.5	95.5
	448 250	Gen-set / Fuelpad N 6810934 E 439861	1359.2	2200	6.0	2310	5.5	95.2
	449 200	CLO -SE Corner- U/S Footing Excavation (Backfill due to over excavation)	1361.5	2376	4.3	2310	5.5	102.9
	450 200	CLO U/S -SE Corner- Footing Excavation (Backfill due to over excavation)	1361.5	2308	4.2	2310	5.5	99.9
	451 250	Mill Site Rd. N 6810656 E 440102	1357.8	2304	3.4	2310	5.5	99.7
	452 250	Mill Site Rd. N 6810671 E 440079	1357.6	2249	4.0	2310	5.5	97.4
	453 250	Mill Site Rd. N 6810695 E 440065	1357.6	2238	3.9	2310	5.5	96.9
	454 250	Mill Site Rd. N 6810712 E 440026	1357.2	2264	7.2	2310	5.5	98.0

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60814
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std. Proctor Max Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/17	455 250	Mill Site Rd. N 6810733 E 440006	1356.8	2214	8.8	2310	5.5	95.8
	456 250	Mill Site Rd. N 6810709 E 440039	1356.8	2196	6.1	2310	5.5	95.1
2009/06/18	457 250	Mill Site Rd. N 6810686 E 440074	1357.9	2293	7.8	2310	5.5	99.3
	458 250	Mill Site Rd. N 6810715 E 440021	1357.9	2309	7.2	2310	5.5	100.0
	459 250	Mill Site Rd. N 6810715 E 440021	1357.6	2332	7.4	2310	5.5	101.0
	460 250	Mill Site Rd. N 6810781 E 439980	1356.3	2226	7.3	2310	5.5	96.4
	461 250	Mill Site Rd. N 6810806 E 439961	1356.6	2223	6.9	2310	5.5	96.2
	462 250	Gen-set / Fuelpad N 6810927 E 439862	1364.5	2255	6.5	2310	5.5	97.6
	463 250	Gen-set / Fuelpad N 6810882 E 439901	1359.2	2238	6.3	2310	5.5	96.9
	464 250	Gen-set / Fuelpad N 6810872 E 439912	1361.9	2270		2310	5.5	98.3
	465 250	Gen-set / Fuelpad N 6810853 E 439930	1361.9	2227	6.2	2310	5.5	96.4
2009/06/19	466 250	Mill Site Rd. N 6810803 E 439962	1356.5	2298	7.1	2310	5.5	99.5

Remarks:

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/19	467 250	Mill Site Rd. N 6810792 E 439975	1356.5	2312	7.6	2310	5.5	100.1
	468 250	Mill Site Rd. N 6810769 E 439989	1357.2	2285		2310	5.5	98.9
	469 250	Mill Site Rd. N 6810705 E 440005	1357.5	2322	4.9	2310	5.5	100.5
	470 250	Gen-set N 6810861 E 439922	1361.0	2382	4.8	2310	5.5	103.1
	471 250	Gen-set N 6810886 E 439900	1361.8	2295		2310	5.5	99.4
	472 250	Fuel Pad N 6810886 E 439901	1362.5	2332	6.2	2310	5.5	101.0
	473 250	Fuel Pad N 6810932 E 439860	1365.0	2255	5.9	2310	5.5	97.6
	474 250	Gen-set N 6810931E 439871	1364.6	2292	4.2	2310	5.5	99.2
	475 250	Gen-set N 6810912 E 439897	1364.4	2334	3.9	2310	5.5	101.0
2009/06/20	476 250	Gen-set N 6810875 E 439942	1365.0	2210	3.0	2310	5.5	95.7
	477 250	Gen-set N 6810910 E 439932	1364.8	2252	4.2	2310	5.5	97.5
	478 250	Gen-set N 6810900 E 439916	1365.0	2307		2310	5.5	99.9

Remarks:

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):**
Client: Yukon Zinc Corp. **Temperature** °C **Air:** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

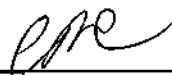
Material Usage/Zone:

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/20	479 250	Gen-set N 6810917 E 439905	1364.7	2294	5.3	2310	5.5	99.3
	480 250	Gen-set N 6810930 E 439876	1364.7	2209	4.2	2310	5.5	95.6
2009/06/21	481 250	CLO - U/S of Footing A5	1355.6	2318	7.6	2310	5.5	100.3
	482 250	CLO U/S of Footing A6	1355.6	2312	7.2	2310	5.5	100.1
2009/06/24	483 250	CLO U/S Footing E2	1334.4	2323	3.7	2310	5.5	100.6
	484 250	CLO - U/S Footing E1; NE corner	1334.4	2331	7.8	2310	5.5	100.9
	485 250	CLO - U/S Footing E1; SW corner	1334.4	2453	4.0	2310	5.5	106.2
2009/06/25	486 250	Fuel Pad N 6810917E 439875	1364.2	2425	3.9	2310	5.5	105.0
	487 250	Fuel Pad N 6810904 E 439882	1364.2	2411	4.8	2310	5.5	104.4
	488 250	Fuel Pad N 6810890 E 439890	1362.1	2512	3.1	2310	5.5	108.7
	489 250	Fuel Pad N 6810901E 439899	1362.9	2319	3.9	2310	5.5	100.4
	490 250	Fuel Pad N 6810870 E 439917	1362.9	2262	3.9	2310	5.5	97.9

Remarks:

Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C Soil: _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt (2310/5.5% or 2250/6.5%); SAND - some gravel, some silt (2020/10%)*

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/06/28	491 250	CLO - Line G; N 6810802; E 439968	1355.2	2345	4.4	2310	5.5	101.5
2009/06/29	492 250	CLO Line G; N 6810805 E 439974	1355.4	2329	4.5	2310	5.5	100.8
2009/07/08	492 300	Mill Bldg - Ftg A12	1355.6	2313	4.3	2310	5.5	100.1
	494 300	Mill Bldg - Ftg A10	1355.6	2352	3.6	2310	5.5	101.8
	495 300	Mill Bldg - Ftg A8	1355.6	2358	5.3	2310	5.5	102.1
2009/07/12	496 200	CLO Bldg @ B1 - top of footing; above weeping tile	1355.0	2137	7.2	2250	6.5	95.0
	497 200	CLO Bldg @ D1 - top of footing; above weeping tile	1355.0	2134	8.8	2250	6.5	94.8
	498 200	CLO Bldg @ F1 - top of footing; above weeping tile	1355.0	2155	9.0	2250	6.5	95.8
	499 200	CLO Bldg @ B1 - top of footing; above weeping tile	1355.3	2026	5.1	2020	10	100.3
	500 200	CLO Bldg @ D1 - top of footing; above weeping tile	1355.3	1990	6.9	2020	10	98.5
	501 200	CLO Bldg @ F1 - top of footing; above weeping tile	1355.3	2023	8.0	2020	10	100.1
2009/07/13	502 200	CLO Bldg - Between B1 & C1	1356.1	2212	5.5	2250	6.5	98.3

Remarks: Specified Compaction @ 95% for tests 496-501; @ 100% for tests 491-495

Elevation fo * Material changed, became less coarse

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
	503 200	CLO Bldg - Between D1 & E1	1356.1	2212	5.9	2250	6.5	98.3
	504 200	CLO Bldg - Between F1 & G1;	1356.1	2236	5.7	2250	6.5	99.4
	505 200	CLO Bldg - Between A4 & A5;	1356.0	2209	4.7	2250	6.5	98.2
	506 200	CLO Bldg - Between A5 & A6;	1356.0	2200	5.3	2250	6.5	97.8
2009/07/14	507 200	CLO Bldg - Between E6 & F6	1356.0	2231	8.1	2250	6.5	99.2
	508 200	CLO Bldg - Between C6 & D6	1356.0	2238	9.8	2250	6.5	99.5
	509 200	CLO Bldg - Between A6 & B6	1356.0	2230	6.9	2250	6.5	99.1
	510 200	CLO Bldg - Between A4 & A5	1365.0	2273	7.1	2250	6.5	101.0
	511 200	CLO Bldg - Between A5 & A6	1356.0	2255	6.9	2250	6.5	100.2
	512 200	CLO Bldg - Between F6 & G6	1356.3	2227	7.1	2250	6.5	99.0
	513 200	CLO Bldg - Between D6 & E6	1356.3	2201	8.9	2250	6.5	97.8
	514 200	CLO Bldg - Between A6 & B6	1356.3	2202	8.6	2250	6.5	97.9

Remarks: Elevation for tests were estimated from survey stakes.**Copies:****Reviewed By:** _____

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/07/13	527 200	CLO Bldg - Between F1 & G1	1356.0	2236	5.7	2250	6.5	99.4
	528 200	CLO Bldg - Between A4 & A5	1356.0	2209	4.7	2250	6.5	98.2
	529 200	CLO Bldg - Between A5 & A6	1356.0	2200	5.3	2250	6.5	97.8
2009/06/14	530 200	CLO Bldg - Between E6 & F6	1356.0	2231	8.1	2250	6.5	99.2
	531 200	CLO Bldg - Between C6 & D6	1356.0	2238	9.8	2250	6.5	99.5
	532 200	CLO Bldg - Between A6 & B6	1356.0	2230	6.9	2250	6.5	99.1
	533 200	CLO Bldg - Between A4 & A5	1356.0	2273	7.1	2250	6.5	101.0
	534 200	CLO Bldg - Between A5 & A6	1356.0	2255	6.9	2250	6.5	100.2
	535 200	CLO Bldg - Between F6 & G6	1356.3	2227	7.1	2250	6.5	99.0
	536 200	CLO Bldg - Between D6 & E6	1356.3	2207	8.9	2250	6.5	98.1
2009/07/14	537 200	CLO Bldg - Between A6 & BC	1356.3	2202	8.6	2250	6.5	97.9
	538 200	CLO Bldg - Between A4 & A5	1356.3	2252	7.9	2250	6.5	100.1
2009/07/15	539 200	CLO Bldg - Between F6 & G6	1357.1	2253	7.1	2250	6.5	100.1

Remarks:

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zonc: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/07/15	540 200	CLO Bldg - Between D6 & E6	1357.1	2225	7.3	2250	6.5	98.9
	541 200	CLO Bldg - Between B6 & C6	1357.1	2219	6.5	2250	6.5	98.6
	542 200	CLO Bldg - Between A5 & A6	1357.1	2238	7.6	2250	6.5	99.5
	543 200	CLO Bldg - Between E6 & F6; above weeping file	1356.6	2242	3.6	2250	6.5	99.6
	544 200	CLO Bldg - Between B6 & C6; above weeping file	1356.6	2269	6.3	2250	6.5	100.8
	545 200	CLO Bldg - Between A6 & B6	1356.9	2165	6.6	2250	6.5	96.2
	546 200	CLO Bldg - Between D6 & E6	1356.9	2135	10.0	2250	6.5	94.9
	547 200	CLO Bldg - Between E6 & F6	1356.9	2171	6.1	2250	6.5	96.5
2009/07/16	548 200	CLO Bldg - Grade Beam, Between 6D & 6F	1361.0	2259	7.7	2250	5.5	100.4
	549 200	CLO - Grade Beam, between 6E & 6F	1361.0	2252	7.7	2250	6.5	100.1
	550 200	CLO - Grade Beam, between 6F & 6G	1361.0	2245	5.8	2250	6.5	99.8
2009/07/17	551 200	CLO - Between 6D & 6D	1361.0	2297	6.7	2250	6.5	102.1

Remarks:

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RC

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
	552 200	CLO - U/S Grade Beam; between 6A & 6B	1361.0	2288	6.4	2250	6.5	101.7
	553 200	CLO - U/S Grade Beam; between A1 & B1	1361.0	2308	5.1	2310	6.5	99.9
	554 200	CLO - Between 6D & 6E	1361.1	2280	7.7	2250	6.5	101.3
	555 200	CLO Bldg - between E6 & F6	1361.1	2330	5.2	2310	6.5	100.9
	556 200	CLO Bldg - between G6 & F6	1361.1	2256	6.3	2250	6.5	100.3
	557 200	CLO Bldg - between A4 & A5	1361.1	2308	5.1	2310	6.5	99.9
	558 (a) 200	CLO Bldg - between G6 & G5	1360.5	2286	7.7	2250	6.5	101.6
	558 (b) 200	CLO Bldg - Between G6 & G5 (1.5m N)	1360.5	2260	7.9	2250	6.5	100.4
2009/07/17	559 (a) 200	CLO - Between G6 & G5	1361.9	2268	3.6	2250	6.5	100.8
	559 (b) 200	CLO - Between G6 & G5 (1.5m S)	1361.9	2238	4.6	2250	6.5	99.5
	560 200	CLO Bldg, 1 m W of G6 & G5	1361.0	2278	5.8	2250	6.5	101.2
	561 200	CLO Bldg - Between G4 & G5	1361.0	2250	5.7	2250	6.5	100.0

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.**Copies:** _____**Reviewed By:** _____

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/07/17	562 200	CLO Bldg - 1 m SW of G6	1361.0	2313	4.7	2250	6.5	102.8
	563 (a) 200	CLO Bldg - Between G4 & G5	1361.1	2239	4.8	2250	6.5	99.5
	563 (b) 200	CLO Bldg - Between G4 & G5; 2 m N	1361.1	2204	5.4	2250	6.5	98.0
	564 200	CLO Bldg - Between G4 & G5; 1.2 m	1361.1	2176	4.2	2268	6.5	95.9
2009/07/18	565 (a) 200	CLO Bldg - Between G4 & G5, 2 m E	1360.9	2344	4.5	2310	6.5	101.5
	565 (b) 200	CLO Bldg - Between G4 & G5; 2 m E	1360.9	2226	6.0	2310	6.5	96.4
	566 (a) 200	CLO Bldg - Between G5 & G6; 2 m W	1361.1	2270	6.0	2250	6.5	100.9
	566 (b) 200	CLO Bldg - Between G5 & G6, 2 m W	1361.1	2218	5.0	2250	6.5	98.6
	567 200	CLO bldg - 2 m W of Line G5-G6	1361.1	2323	5.2	2310	6.5	100.6
	568 200	N 6810910 E 439886 - Fuel Pad	1366.1	2282	3.6	2250	6.5	101.4
	569 200	N 6810908 E 439880 - Fuel Pad	1366.0	2266	3.5	2250	6.5	100.7
	570 200	N 6810882 E 439910 - Fuel Pad	1366.0	2312	4.8	2250	6.5	102.8

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/07/18	571 200	N 6810882 E 439910 - Fuel Pad	1365.0	2312	4.8	2250	6.5	102.8
	572 200	N 6810871 E 439915 - Fuel Pad	1363.3	2243	3.3	2250	6.5	99.7
	573 (a) 200	N 6810882 E 439903 - Fuel Pad	1365.1	2305	4.8	2250	6.5	102.4
	573 (b) 200	N 6810863 E 4399920 - Fuel Pad	1365.1	2402	5.9	2250	6.5	106.8
2009/07/20	574 200	N 6810949 E 439849 - Fuel Pad	1367.6	2406	3.7	2250	6.5	106.9
	575 200	N 6810822 E 439872 - Fuel Pad	1367.6	2205	6.1	2250	6.5	98.0
	576 (a) 200	Mill Bldg - U/S Fdn H1	1354.5	2315	5.7	2310	6.5	100.2
	576 (b) 200	Mill Bldg - U/S Fdn N 6810768 E 439998	1354.5	2326	3.9	2310	6.5	100.7
	577 200	N 6810751 E 440017 - Mill Bldg	1354.5	2339	3.8	2310	6.5	101.3
	578 200	N 6810725 E 440053 - Mill Bldg	1354.5	2416	6.4	2310	6.5	104.6
2009/06/25	579 200	CLO Bldg - 1.5 m S of A3	1356.8	2245	4.8	2250	6.5	99.8
	580 200	CLO Bldg - 2.2 m W of Line A3-A4	1356.8	2175	4.9	2250	6.5	96.7

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Specified Compaction: 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** _____ **Air:** _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/06/25	581 200	CLO Bldg - 1 m S of A3	1356.7	2202		2250	6.5	97.9
	582 200	CLO Bldg - 2 m S of G3	1360.6	2184	7.6	2250	6.5	97.1
	583 200	CLO Bldg - 2 m S of G2	1360.1	2271	7.7	2250	6.5	100.9
2009/07/26	584 200	CLO Bldg - 0.5 m S of G3, U/S of grade beam	1361.1	2244	5.6	2250	6.5	99.7
	585 200	CLO Bldg - 1.5 m S of G3, U/S of grade beam	1360.4	2320	5.9	2250	6.5	103.1
	586 200	CLO Bldg - 1 m N of G4, U/S of grade beam	1360.4	2232	5.2	2250	6.5	99.2
	587 200	CLO Bldg - 0.5 m S of G3; just inside bldg	1360.6	2208	6.4	2250	6.5	98.1
	588 200	CLO Bldg - Between G3-G4, U/S of grade beam	1361.1	2249	6.9	2250	6.5	100.0
	589 (a) 200	CLO Bldg. - Between G3-G4, U/S of grade beam	1360.7	2373	4.7	2250	6.5	105.5
	589 (b) 200	CLO Bldg. - 0.5 m N/2.5 m W of G3	1360.7	2291	6.3	2250	6.5	101.8
2009/07/27	590 200	N 6810810 E 439853 MSE Wall (MSE) A2	1340.9	2335	4.7	2250	6.5	103.8
	591 200	N 6810834 E 439879 MSE Wall A2	1340.9	2338	3.3	2250	6.5	103.9

Remarks: EBA tested backfill placement by night shift (QC by KCBL) found it to be below specs
Elevation for tests 25 to 27 were estimated from survey stakes.

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Consultants Ltd.**



COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/07/28	592 200	N 6810833 E 439859 MSE Wall A2	1341.4	2201	5.6	2250	6.5	97.8
	593 200	N 6810818 E 439255 MSE Wall A2	1341.4	2197	5.2	2250	6.5	97.6
2009/07/29	594 200	N 6810818 E 439255 MSE Wall A2	1341.9	2211	5.0	2250	6.5	98.3
	595 200	Mill Bldg - Between A1-A2, 0.5 m N, 0.2 m above U/S fdn	1355.6	2247	4.2	2250	6.5	99.9
2009/07/30	596 200	Mill bldg - Between A1 & A2	1355.8	2248	5.3	2250	6.5	99.9
	597 200	Mill Bldg - Between A2 & A3	1355.8	2226	4.1	2250	6.5	98.9
	598 200	Mill Bldg - Middle of A1/A2/B1/B2	1355.8	2268	4.1	2250	6.5	100.8
	599 200	Mill Bldg - Between A1 & A2	1356.1	2273	4.5	2250	6.5	101.0
	600 200	Mill Bldg - Between A2 & A3	1356.1	2247	5.8	2250	5.5	99.9
	601 200	Mill Bldg - centre of A1/A2/A3/B3	1356.1	2238	4.9	2250	5.5	99.5
	602 200	Mill Bldg - Between A2 & A3	1356.3	2239	4.9	2250	5.5	99.5
	603 200	Mill Bldg - Between A1 & A2	1356.3	2240	4.4	2250	5.5	99.6

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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Reviewed By: CME

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/07/30	604 200	Mill Bldg - Centre of A3/B3/A4/B4	1356.1	2237	4.2	2250	5.5	99.4
	605 200	Mill Bldg - Between A5 & A6	1355.8	2243	5.0	2250	5.5	99.7
	606 200	Mill Bldg - Between A6 & A7	1355.8	2202	5.9	2250	5.5	97.9
	607 200	Mill Bldg - Between A5 & A6	1356.6	2234	6.3	2250	5.5	99.3
	608 200	Mill Bldg - Between A2 & A3	1356.6	2265	5.9	2250	5.5	100.7
	609 200	Mill Bldg - Between A1 & A2	1356.6	2250	7.9	2250	5.5	100.0
	610 200	Mill Bldg - centre of A3-A4-B3-B4	1356.3	2238	4.9	2250	5.5	99.5
	611 200	Mill Bldg - Between A6 & A7	1356.1	2226	6.4	2250	5.5	98.9
	612 200	Mill Bldg - Between A5 & A6	1356.1	2298	5.5	2250	5.5	102.1
	613 200	Mill Bldg - Between A2 & A3	1356.1	2286	7.0	2250	5.5	101.6
	614 200	Mill Bldg - Between A1 & A2	1356.8	2236	6.4	2250	5.5	99.4
2009/07/30	615 200	Mill Bldg - Between A6 & A7	1356.3	2208	5.0	2250	5.5	98.1

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/07/30	616 200	Mill Bldg - Between A5 & A6	1356.3	2240	5.6	2250	5.5	99.6
	617 200	Mill Bldg - Between A2 & A3	1357.1	2281	5.2	2250	5.5	101.4
	618 200	Mill Bldg - Between A6 & A7	1356.6	2202	4.8	2250	5.5	97.9
	619 200	Mill Bldg - Between A1 & A2	1357.5	2245	5.3	2250	5.5	99.8
	620 200	Mill Bldg - Between A2 & A3	1357.3	2237	6.0	2250	5.5	99.4
	621 200	Mill Bldg , Between A1 & A2	1357.5	2227	8.8	2250	5.5	99.0
	622 200	Mill Bldg - Between A2 & A3	1357.5	2276	6.4	2250	5.5	101.2
	623 200	Mill Bldg - Between A5 & A6	1357.2	2267	6.2	2250	5.5	100.8
	624 200	Mill Bldg - between A6 & A7	1357.2	2335	5.7	2250	5.5	103.8
	625 200	Mill Bldg - between A1 & A2	1356.0	2289	6.0	2250	5.5	101.7
	626 200	Mill Bldg - between A1 & A2 U/S of grade beam	1357.3	2264	7.1	2250	5.5	100.6
2009/07/30	627 200	Mill Bldg - 2.5 m E; 2 m S of A1	1357.3	2237	5.4	2250	5.5	99.4

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
	628 200	CLO Bldg - between G & F, 1 m W; 0.1 m above U/S beam	1356.4	2226	5.4	2250	5.5	98.9
	629 200	CLO - 1 m W, 0.1 m above C1; U/S beam	1356.5	2175	6.4	2250	5.5	96.7
	630 200	Mill Bldg - A2 & A3; U/S Beam	1357.5	2317	6.2	2250	5.5	103.0
	631 200	MSE Wall 2A - 1 m E of b/s @ STA 0+0014	1340.8	2286	4.2	2250	5.5	101.6
	632 200	CLO Bldg - Between B & C; 0.25m E of Line B-C	1355.5	2240	4.6	2250	5.5	99.6
	633 200	CLO Bldg - 0.15 m E at middle of Line E-F	1355.5	2258	4.8	2250	5.5	100.4
	634 200	CLO - middle of line D-E; 0.5 m E	1355.6	2322	4.6	2250	5.5	103.2
	635 200	CLO Bldg - 2.5 m S of A1; .5 m W	1356.0	2242	5.4	2250	5.5	99.6
	636 200	CLO Bldg - 1.0 m N; 2.0 m W of C1	1355.0	2195	5.1	2250	5.5	97.6
	637 200	CLO Bldg - 1.0 m S of o/s wall "G"	1356.5	2156	4.9	2250	5.5	95.8
	638 200	CLO Bldg - 0.75 m S of F1	1356.7	2212	5.9	2250	5.5	98.3
2009/07/30	639 200	CLO Bldg - 4.0 m N of E1	1356.7	2234	5.8	2250	5.5	99.3

Remarks:

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/07/30	640 200	CLO Bldg - 1.5 m S of B1	1356.2	2261	6.8	2250	5.5	100.5
	641 200	CLO Bldg - 1.0 m S of F1	1356.7	2180	7.6	2250	5.5	96.9
	642 200	CLO Bldg - 1.75 m S of B1	1356.3	2328	5.5	2250	5.5	103.5
	643 200	CLO Bldg - 1.25 m N of D1	1355.8	2186	5.2	2250	5.5	97.2
	644 200	CLO Bldg - 1.0 m N; 2.0 m E of C1	1357.0	2210	3.9	2250	5.5	98.2
	645 200	CLO Bldg - 0.2 m S; 2.0 m E of D1	1357.0	2221	3.6	2250	5.5	98.7
	646 200	CLO Bldg - 2.5 m N; 0.3 m E of E1	1357.0	2209	51.0	2250	5.5	98.2
	647 200	CLO Bldg - 1.6 m N; 1.1 m E of F1	1357.0	2247	4.4	2250	5.5	99.9
	648 200	CLO Bldg - 1.3 m N; 0.6 m W of B1	1357.0	2159	5.5	2250	5.5	96.0
	649 200	CLO Bldg - 2.7 m N; 0.1 m W of D1	1357.0	2198	8.1	2250	5.5	97.7
	650 200	CLO Bldg - 1.9 m N; 1.2 m W of E1	1357.0	2173	4.9	2250	5.5	96.6
2009/07/30	651 200	CLO Bldg - 0.2 m S of F1, 0.3 m W of	1357.0	2177	8.0	2250	5.5	96.8

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** °C **Soil:** °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/07/31	652 200	MSE Wall A2; N 6810837 E 439861	1341.5	2244	5.4	2250	5.5	99.7
	653 200	MSE Wall A2; N 6810820 E 439850	1341.5	2216		2250	5.5	98.5
	654 200	MSE Wall A2; N 6810826 E 439855	1343.0	2130	6.2	2250	5.5	94.7
	655 200	MSE Wall A2 - 1 m S @ 45° backslope at Sta. 0+044	1343.0	2144	5.2	2250	5.5	95.3
	656 200	CLO Bldg - 0.5 m S; 3.0 m E of A1	1356.8	2250	4.6	2250	5.5	100.0
	657 200	CLO Bldg - 0.1 m S; 0.3 m E of of C6	1358.4	2247	3.2	2250	5.5	99.9
	658 200	CLO Bldg - 0.4 m S; 0.2 m W of B6	1358.4	2213	4.9	2250	5.5	98.4
	659 200	CLO Bldg - 0.3 m S; 0.4 m W of C6	1358.4	2207	3.9	2250	5.5	98.1
	660 200	CLO Bldg - 3.0 m E; 1.3 m N of A1	1356.5	2175	3.3	2250	5.5	96.7
	661 200	CLO Bldg - 2.0 m E; 0.1 m S of A1	1357.0	2215	5.6	2250	5.5	98.4
	662 200	CLO Bldg - 1.4 m E; 0.4 m N of A6	1358.2	2374	3.1	2250	5.5	105.5
2009/07/31	663 200	CLO Bldg - 1.0 m E; 2.0 m N of A1	1358.4	2291	2.8	2250	5.5	101.8

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Specified Compaction: 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** _____ **Air:** _____ **°C Soil:** _____ **°C**
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
	664 200	CLO Bldg - 1.3 m E; 0.6 m N of A5	1358.5	2252	4.7	2250	5.5	100.1
	665 200	CLO Bldg - 1.0 m W; 0.75 m N of A6	1358.6	2358	2.9	2250	5.5	104.8
	666 200	CLO Bldg - 0.4 m S; 0.6 m W of A6	1358.6	2205	5.8	2250	5.5	98.0
	667 200	CLO Bldg - 0.2 m E; 1.9 m S of A5	1358.6	2294	4.7	2250	5.5	102.0
	668 200	CLO Bldg - 0.3 m E; 0.3 m S of A4	1358.6	2212	5.0	2250	5.5	98.3
	669 200	CLO Bldg - 1.3 m W of B6	1358.6	2264	4.4	2250	5.5	100.6
	670 200	CLO Bldg - 0.2 m E; 0.5 m N of A6	1358.3	2271	4.4	2250	5.5	100.9
	671 200	CLO Bldg - 0.7 m S; 1.6 m W of C6	1358.4	2232	3.8	2250	5.5	99.2
	672 200	CLO Bldg - 1.5 m W of D6	1358.1	2269	4.5	2250	5.5	100.8
	673 200	CLO Bldg - 1.3 m S; 0.6 m E of A6	1358.5	2259	2.9	2250	5.5	100.4
	674 200	CLO Bldg - 3 m E; 1 m S of A1	1357.1	2210	5.0	2250	5.5	98.2
2009/07/31	675 200	CLO Bldg - 0.5 m E B6	1358.5	2331	3.2	2310	5.5	100.9

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
	676 200	CLO Bldg - 0.3 m S; 0.8 m E of C6	1358.4	2303	2.7	2310	5.5	99.7
	677 200	CLO Bldg - 0.2 m S; 1.3 m W of C6	1358.5	2327	3.7	2310	5.5	100.7
	678 200	CLO Bldg - 3.2 m E, 1.6 m S of A1	1357.3	2206	5.3	2250	5.5	98.0
	679 200	CLO Bldg - 0.5 m W; 1.4 m S of A5	1358.8	2298	4.3	2310	5.5	99.5
	680 200	CLO Bldg - 0.5 m E; 0.3 m S of A4	1358.8	2278	4.7	2310	5.5	98.6
	681 200	CLO Bldg - 1.4 m S of A6	1358.8	2273	4.3	2310	5.5	98.4
	682 200	CLO Bldg - 0.1 m N; 1.1 m W of B6	1358.8	2304	3.8	2310	5.5	99.7
	683 200	CLO Bldg - 0.2 m E; 0.9 m N of A5	1358.0	2314	3.0	2310	5.5	100.2

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.**Copies:** _____**Reviewed By:** 

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** **Air:** _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/07/31	684 200	CLO Bldg - 1.6 m W and 0.2 m N of A4	1358.6	2228	3.2	2310	5.5	96.5
	685 200	CLO Bldg - 0.1 m S and 0.4 m E of D6	1358.1	2266	5.5	2250	5.5	100.7
	686 200	CLO Bldg - 1.3 m W of D6	1358.0	2298	4.9	2310	5.5	99.5
	687 200	CLO Bldg - 0.1 m N and 0.4 m E of D6	1358.5	2208	3.6	2310	5.5	95.6
	688 200	CLO Bldg - 0.1 m N; 0.3 m E of E6	1358.0	2279	5.4	2250	5.5	101.3
	689 200	CLO Bldg - 0.6 m N; 0.2 m E of F6	1357.9	2199	6.9	2250	5.5	97.7
	690 200	CLO Bldg - 0.7 m S A1, 0.3 m E of wall	1357.5	2277	4.1	2310	5.5	98.6
2009/08/01	691 200	CLO Bldg - 1 m NE of Column A1 @ 45°	1361.3	2279	4.4	2310	5.5	98.7
	692 200	CLO Bldg - Column A1, 1 m W; 2 m N of A1	1361.2	2205	4.4	2310	5.5	95.5
	693 200	CLO Bldg - 1 m W; 0.2 m N of A1	1361.2	2198	5.3	2310	5.5	95.2
	694 200	CLO Bldg - 2m from Column A1 @ 45°	1361.2	2222	6.8	2250	5.5	98.8
	695 200	CLO Bldg - 0.5 m W of column F6	1361.3	2208	4.7	2310	5.5	95.6

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Specified Compaction: 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** _____ **Air:** _____ **°C Soil:** _____ **°C**
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/01	696 200	CLO Bldg - 0.5 m outside column G6	1360.8	2185		2250	5.5	97.1
	697 200	CLO Bldg - just outside column E6	1361.0	2214	5.5	2310	5.5	95.8
	698 200	CLO Bldg - inside column D6	1360.9	2299	3.6	2310	5.5	99.5
	699 (a) 200	CLO Bldg - outside column G6	1361.0	2184	9.6	2250	5.5	97.1
	699 (b) 200	CLO Bldg - inside column G5	1360.6	2227	8.7	2250	5.5	99.0
	700 200	Mill Bldg - Column A2 (on Weeping Tile), 1m E	1356.6	2184	4.8	2250	5.5	97.1
	701 200	Mill Bldg - (on Weeping Tile) between A4 & A5	1356.6	2295	3.8	2250	5.5	102.0
	702 200	Mill Bldg (on Weeping Tile) between A6 & A7	1356.5	2151	7.2	2250	5.5	95.6
	703 200	CLO Bldg - 1.1m W and 0.6 m N of G6	1358.0	2256	10.9	2250	5.5	100.3
	704 200	CLO Bldg - 0.7m N and 2.0m W of D1	1357.9	2138	5.9	2250	5.5	95.0
	705 200	CLO Bldg - 2 m S 1.8 m W of B1	1357.8	2178	4.5	2250	5.5	96.8
	706 200	CLO Bldg - 4m S and 2m W of D1	1357.8	2138	5.6	2250	5.5	95.0

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake MineYT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/01	707 200	CLO Bldg - 3.1 m E and 0.8 m S of A4	1359.1	2298	3.0	2250	5.5	102.1
	708 200	CLO Bldg - 3.7 m W and 0.4 m S of A6	1359.1	2229	3.3	2250	5.5	99.1
	709 200	CLO Bldg - 2 m W of B6	1359.2	2271	3.4	2250	5.5	100.9
	710 200	CLO Bldg - 3.6 m S and 0.1 m W of C6	1359.2	2207	4.9	2250	5.5	98.1
	711 200	CLO Bldg - 0.2 m N and 0.4 m W of E6	1359.2	2232	7.7	2250	5.5	99.2
	712 200	CLO Bldg - 4.4 m S and 0.2 m W of E6	1359.2	2227	6.4	2250	5.5	99.0
	713 200	CLO Bldg - 0.5 m S and 0.5 m W of F6	1359.5	2206	4.2	2250	5.5	98.0
	714 200	CLO Bldg - 0.1 m E and 1.6 m N of G5	1358.8	2249	2.7	2250	5.5	100.0
	715 200	CLO Bldg - 1.2 m N of G4	1357.7	2235	6.6	2250	5.5	99.3
	716 200	CLO Bldg - 4 m S and 2.1 m W of E1	1358.1	2281	5.5	2250	5.5	101.4
	717 200	CLO Bldg - 1 m N and 2 m W of E1	1358.1	2170	6.0	2250	5.5	96.4
	718 200	CLO Bldg - 0.2 m W of D1	1358.1	2161	4.5	2250	5.5	96.0

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.**Copies:****Reviewed By:** 

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Consultants Ltd.**


COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake MineYT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** **Air:** _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/01	719 200	CLO Bldg - 3.6 m N and 2.3 m W of C1	1358.1	2162	3.6	2250	5.5	96.1
	720 200	CLO Bldg - 3.8 m N and 1.9 m W of G1	1358.1	2151	5.7	2250	5.5	95.6
	721 200	CLO Bldg - 1.5 m W and 1.6 m N A4	1358.9	2147	5.8	2250	5.5	95.4
	722 200	CLO Bldg - 3.6 m W and 0.4 m N of A6	1359.2	2246	5.2	2250	5.5	99.8
	723 200	CLO Bldg - 0.7 m W and 0.1 m N of A5	1358.9	2232	3.1	2250	5.5	99.2
	724 200	CLO Bldg - 0.5 m S and 1.5 m E of E1	1358.8	2213	4.0	2250	5.5	98.4
	725 200	CLO Bldg - 2.5 m N and 1.7 m W of D1	1358.8	2140	4.9	2250	5.5	95.1
	726 200	CLO Bldg - 3.8 m E and 4.3 m S of A4	1360.0	2264	6.5	2250	5.5	100.6
	727 200	CLO Bldg - 2 m W and 0.4 m S of A4	1360.0	2213	6.5	2250	5.5	98.4
	728 200	CLO Bldg - 3 m S and 2 m W of F1	1358.8	2141	5.4	2250	5.5	95.2
	729 200	CLO Bldg - 0.5 m S and 2.1 m W of B1	1358.8	2151	4.5	2250	5.5	95.6
	730 200	CLO Bldg - 3.3 m W and 3.1 m S of A6	1359.2	2272	2.5	2250	5.5	101.0

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine YT
Specified Compaction: 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/01	731 200	CLO Bldg - 1.0 m W and 3.0 m N of A4	1360.1	2162	2.7	2250	5.5	96.1
	732 200	CLO Bldg - 1 m W and 0.2 m N of A5	1360.1	2169	2.8	2250	5.5	96.4
	733 200	CLO Bldg - 4.0 m W and 1.0 m N of A6	1360.1	2308	2.2	2250	5.5	102.6
	734 200	CLO Bldg - 3.5 m S and 2.5 m W of E6	1360.5	2264	5.7	2250	5.5	100.6
	735 200	CLO Bldg - 4.0 m S and 0.6 m W of D6	1358.9	2205	6.2	2250	5.5	98.0
	736 200	CLO Bldg - 2.0 m S AND 1.3 m E of A6	1360.3	2136	4.7	2250	5.5	94.9
	737 200	CLO Bldg - 2.2 m N and 1.7 m E of C6	1360.3	2199	3.6	2250	5.5	97.7
	738 200	CLO Bldg - 3 m S and 1.5 m W of E1	Grade	2143	4.3	2250	5.5	95.2
	739 200	CLO Bldg - 0.2 m S and 0.4 m W of C6	1360.5	2397	5.1	2250	5.5	106.5
	740 200	CLO Bldg - 1 m S and 1.3 m W of B1	Grade	2160	4.2	2250	5.5	96.0
	741 200	CLO Bldg - 4.0 m S and 1.5 m W of C1	Grade	2166	5.1	2250	5.5	96.3
	742 200	CLO Bldg - 3 m S and 1.5 m W of D1	Grade	2136	4.7	2250	5.5	94.9

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/01	743 200	CLO Bldg - 1 m S and 1.0 m W of F1	1357.7	2165	6.1	2250	5.5	96.2
2009/08/02	744 200	CLO Bldg - Just E of Column A5	1357.7	2206	3.7	2250	5.5	98.0
	745 200	CLO Bldg - 0.75 m W of line A3-A4	1357.7	2157	4.2	2250	5.5	95.9
	746 200	CLO Bldg - 1 m W and 4 m N of A5	1357.7	2235	3.9	2250	5.5	99.3
	747 200	Mill Bldg - just N of Line A6-A7	1357.0	2212	3.3	2250	5.5	98.3
	748 200	Mill Bldg - just N of Line A1-A2	1370.1	2223	3.7	2250	5.5	98.8
	749 200	Mill Bldg, W Edge of OD (columns 4-5)	1357.0	2148	4.6	2250	5.5	95.5
	750 200	CLO Bldg - just inside Column G6	1360.5	2283	6.1	2250	5.5	101.5
	751 200	CLO Bldg - 1.0 m W and 1.0 m S of A4	1360.0	2299	3.1	2250	5.5	102.2
	752 200	CLO Bldg - 1.0 m S and 2.0 m W of B6	1360.0	2241	3.9	2250	5.5	99.6
	753 200	CLO Bldg - 0.5 m E and 0.4 N of G4	1357.0	2215	5.7	2250	5.5	98.4
	754 200	Mill Bldg - 1 m N of Line A1-A2	1357.0	2215	5.7	2250	5.5	98.4

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** °C **Soil:** °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/02	755 200	Mill Bldg, 2 m N of A3-A4	1357.0	2139	5.2	2250	5.5	95.1
	756 200	CLO Bldg - 1.0 m E and 0.2 m S of G5	1358.6	2280	5.6	2250	5.5	101.3
	757 200	CLO Bldg - 0.3 m S and 3 m E of A1	1357.7	2251	4.3	2250	5.5	100.0
	758 200	CLO Bldg - 0.2 m S and 2.5 m W of C6	1357.7	2252	5.8	2250	5.5	100.1
	759 200	CLO Bldg - 2.3 m S and 2.4 m W of C6	1357.7	2285	7.1	2250	5.5	101.6
	760 200	CLO Bldg - 3 m S and 0.2 m E of G6	1357.6	2240	5.6	2250	5.5	99.6
	761 200	CLO Bldg - 0.6 m S and 2.1 m W of F6	1357.6	2224	6.2	2250	5.5	98.8
	762 200	CLO Bldg - 1.0 m N and 0.6 m W of G6	1357.2	2230	5.0	2250	5.5	99.1
	763 200	CLO Bldg - 1.0 m W and 3 m N of G5	1357.3	2247	5.1	2250	5.5	99.9
	764 200	CLO Bldg - 5.0 m S and 2 m W of G1	1354.4	2204	4.5	2310	5.5	95.4
	765 200	CLO Bldg - 1.5 m N and 0.6 m W of A1	1357.6	2201	6.5	2310	5.5	95.3
	766 200	CLO Bldg - 1.0 m S and 2 m E of A1	1357.9	2303	2.9	2310	5.5	99.7

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** °C **Soil:** °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Aretic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/02	767 200	CLO Bldg - 2.0 m E and 3 m N of A5	-0.2	2225	8.0	2310	5.5	96.3
	768 200	CLO Bldg - 2.2 m S and 0.7 m E of B6	-0.5	2213	3.7	2310	5.5	95.8
	769 200	CLO Bldg - 3.5 m S and 2 m E of A1	-0.5	2262	5.1	2310	5.5	97.9
	770 200	CLO Bldg - 0.4 m W and 0.3 m N of A4	-0.1	2264	5.5	2310	5.5	98.0
	771 200	CLO Bldg - 0.4 m W and 0.3 m S of G4	-0.7	2238	7.7	2250	5.5	99.5
	772 200	CLO Bldg - 3.0 m N D6, 0.3 m E	-0.4	2256	3.7	2310	5.5	97.7
	773 200	CLO Bldg - 1.1 m N and 1.8 m E of E6	-0.4	2243	5.6	2310	5.5	97.1
	774 200	CLO Bldg - 2.6 m N and 0.8 m E of G6	-0.4	2256	5.0	2310	5.5	97.7
	775 200	CLO Bldg - 0.9 m N and 0.4 m W of G6	-0.6	2215	9.6	2250	5.5	98.4
	776 200	CLO Bldg - 5.0 m S and 4.0 m EW of G1	1357.0	2207	4.0	2250	5.5	98.1
	777 200	CLO Bldg - 1.3 m S and 1.4 m E of A1	GR	2350	3.0	2310	5.5	101.7
	778 200	CLO Bldg - 1.5 m N and 2.3 m W of A1	GR	2239	4.1	2310	5.5	96.9

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/02	779 200	CLO Bldg - 2.7 m W and 1.9 m N of A5	1357.0	2265	4.4	2310	5.5	98.1
	780 200	CLO Bldg - 0.6 m W and 1.6 m N of A4	1357.0	2260	6.3	2310	5.5	97.8
	781 200	CLO Bldg - 0.6 m N of A1	1357.0	2210	4.3	2310	5.5	95.7
	782 200	CLO Bldg - 1.3 m S and 3.1 m W of G6	1357.0	2196	3.9	2310	5.5	95.1
	783 200	CLO Bldg - 2.0 m E and 0.3 m S of G1	1357.1	2248	3.2	2310	5.5	97.3
	784 200	CLO Bldg - 0.3 m E and 2.0 m S of G1	1357.4	2202	3.0	2310	5.5	95.3
2009/08/03	785 200	CLO Bldg - 2.6 m N and 0.8 m E of G1	1356.6	2272	5.4	2310	5.5	98.4
	786 200	CLO Bldg - 0.6 m N and 1.8 m E of G1	1356.1	2209	4.7	2250	5.5	98.2
	787 200	CLO Bldg - 3.4 m E and 0.9 m S of G3	1357.3	2337	5.9	2310	5.5	101.2
	788 200	CLO Bldg - 2.0 m E and 1.4m N of G6	1356.8	2273	5.8	2250	5.5	101.0
	789 200	CLO Bldg - 1.7 m E and 0.5 m N of G4	1356.7	2245	5.9	2250	5.5	99.8
	790 200	CLO Bldg - 1.9 m W and 2.2 m N of G6	1356.5	2237	4.6	2250	5.5	99.4

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/03	791 200	CLO Bldg - 2.2 m E and 0.3 m S of G5	1356.6	2231	4.5	2310	5.5	96.6
	792 200	CLO Bldg - 4.0 m S and 2.5 m W of E6	1357.0	2299	6.3	2250	5.5	102.2
	793 200	CLO Bldg - 2.8 m S and 0.2 m W of D6	1357.0	2209	7.7	2250	5.5	98.2
	794 200	CLO Bldg - 1.0 m N and 24 m W of C6	1357.0	2237	5.1	2250	5.5	99.4
	795 200	CLO Bldg - 1.0 m W and 1.0 m S of G6	1356.9	2230	4.7	2310	5.5	96.5
	796 200	CLO Bldg - 3.2 m E and 0.4 m N of G6	1356.9	2281	6.6	2310	5.5	98.7
	797 200	CLO Bldg - 2.7 m E and 6.0 m S of G4	1356.7	2271	3.4	2310	5.5	98.3
	798 200	CLO Bldg - 1.1 m N and 2.1 m E of G1	1357.0	2263	4.9	2250	5.5	100.6
	799 200	CLO Bldg - 3.4 m W and 0.8 m S of G4	1356.7	2212	4.0	2310	5.5	95.8
	800 200	CLO Bldg - 3.2 m N and 0.2 m N of G6	1357.0	2246	7.8	2250	5.5	99.8
	801 200	CLO Bldg - 3.2 m E and 0.2 m N of G3	1357.0	2210	6.1	2250	5.5	98.2
	802 200	CLO Bldg - 3.5 m E and 2.7 m N of G3	1357.0	2225	6.9	2250	5.5	98.9

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.**Copies:** _____**Reviewed By:** _____

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Specified Compaction: # % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** **Air:** _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/03	803 200	CLO Bldg - 4.1 m W and 2.0 m N of G5	1357.0	2213	5.6	2250	5.5	98.4
	804 200	CLO Bldg - 4.3 m S and 1.0 m E of A6	1357.0	2209	3.5	2310	5.5	95.6
	805 200	CLO Bldg - 2.0 m N and 2.2 m E of F6	1357.0	2200	3.4	2250	5.5	97.8
2009/08/04	806 200	Mill Bldg, btwn A10/A11	1356.7	2297	4.8	2310	5.5	99.4
	807 200	Mill Bldg, btwn A9/A10	1356.7	2338	3.8	2310	5.5	101.2
	808 200	Mill Bldg, btwn A7/A8	1357.1	2269	4.5	2310	5.5	98.2
	809 200	Mill Bldg, 0.9 m N of G1 btwn G1 and G2	1355.6	2208	4.0	2250	5.5	98.1
	810 200	Mill Bldg, btwn F1 and G1	1355.6	2289	6.0	2250	5.5	101.7
	811 200	Mill Bldg, btwn E1 and F1	1355.8	2250	7.0	2250	5.5	100.0
	812 200	CLO Bldg - 1 m W G1, 1.2m W	1354.7	2204	6.3	2250	5.5	98.0
	813 200	CLO Bldg - 1.5 m S and 0.6m E of Fdn. B2	1354.7	2289	3.7	2250	5.5	101.7
	814 200	CLO Bldg - 2.3 m E G1, 1.3m N	1355.0	2243	4.9	2250	5.5	99.7

Remarks:

Elevation fo

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

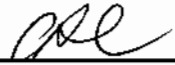
Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/04	815 200	CLO Bldg - 5 m E and 1.6m N G1	1355.0	2300	6.4	2250	5.5	102.2
	816 200	CLO Bldg - 1 m E and 1.2m N of G1	1355.0	2206	5.8	2250	5.5	98.0
	817 200	CLO Bldg - 1.5 m W and 0.7m N of G1	1355.0	2223	7.3	2250	5.5	98.8
	818 200	Mill Bldg, 0.4 m S and 1.7 m E of F2	1355.6	2236	4.1	2250	5.5	99.4
	819 200	Mill Bldg, 3.7 m N and 0.4 m E of E2	1355.6	2259	4.4	2250	5.5	100.4
	820 200	Mill Bldg, 0.4 m N and 0.5 m E of C2	1356.6	2254	4.9	2250	5.5	100.2
	821 200	Mill Bldg, 2.7 m N and 1.3 m E of F2	1356.7	2232	3.8	2250	5.5	99.2
	822 200	Mill Bldg, 2.3 m S and 1.8 m E of D2	1356.7	2220	4.9	2250	5.5	98.7
	823 200	Mill Bldg, btwn F4 and G4	1356.3	2206	6.5	2250	5.5	98.0
	824 200	Mill Bldg, 2.8 m S of E1; below grade beam	1355.4	2252	6.9	2250	5.5	100.1
	825 200	Mill Bldg, 2.7 m S of F1, below grade beam	1355.3	2251	6.6	2250	5.5	100.0
	826 200	Mill Bldg, 2.3 m E and 0.4 m N of E3 Fdn	1355.3	2213	7.0	2250	5.5	98.4

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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CO mPACTION DENSITY TEST SU m mARY REPORT

AST m Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake mine, YT **Specified Co mpaaction:** 98 % Std. Proctor max. Dry Density
Project No.: W14101095.005 **Specified moisture (mC):** _____
Client: Yukon Zinc Corp. **Te mperature** **Air:** _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - so me silt

material Usage/Zone: _____

Date yyyy/ m m/dd	Test No. Probe (m m)	Location:	Approx. Elev. (m)	Dry Density (kg/ m ³)	mC %	max. Dry Density (kg/ m ³)	Opt. mC %	Co mp % SPD
2009/08/04	827 200	CLO Bldg - 3 m S and 1 m E of D2	1356.9	2366	7.1	2310	5.5	102.4
	828 200	CLO Bldg - 1.3 m E and 0.5 m N of C2	1356.9	2246	6.3	2250	5.5	99.8
	829 200	CLO Bldg - 3.5 m S and 0.8 m N of G2	1356.9	2254	6.7	2250	5.5	100.2
	830 200	Mill Bldg, 3.5 m S and 1.3 m E of G2	1356.9	2211	6.4	2250	5.5	98.3
	831 200	CLO Bldg - 6 m E and 1.1 m N of G1	1356.9	2241	6.2	2250	5.5	99.6
2009/08/05	832 200	CLO Bldg - at line 2, south of F2	1354.5	2271	5.5	2310	5.5	98.3
	833 200	CLO Bldg - at line 2, south of D2	1354.5	2224	8.2	2310	5.5	96.3
	834 200	CLO Bldg - at line 2, south of B2	1354.5	2255	7.6	2310	5.5	97.6
	835 200	CLO Bldg - at line 2, North of G2 corner	1355.0	2248	8.1	2310	5.5	97.3
	836 200	MSE Wall 2A, sta 0+020	1345.5	2284	5.7	2310	5.5	98.9
	837 200	MSE Wall 2A, sta 0+044	1345.5	2301	4.9	2310	5.5	99.6
	838 200	MSE Wall 2A, sta 0+016	1346.0	2203	7.5	2310	5.5	95.4

Re marks: Elevation for tests 25 to 27 were estimated from survery stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Specified Compaction: 98 % Std Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** _____ **Air:** _____ **°C Soil:** _____ **°C**
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/05	839 200	MSE Wall 2A, sta 0+028	1346.0	2247	6.4	2310	5.5	97.3
	840 200	MSE Wall 2A, sta 0+044	1346.0	2213	6.2	2310	5.5	95.8
	841 300	Mill Bldg, btwn H1/H2 at top of footing	1356.4	2246	7.0	2310	5.5	97.2
	842 200	CLO Bldg - 6 m E and 1.3 m N of G1	1357.1	2308	2.6	2310	5.5	99.9
	843 200	CLO Bldg - 1.8 m N and 4 m E G2	1355.3	2313	3.8	2310	5.5	100.1
	844 200	CLO Bldg - 0.7 m N of C2; 4.3 m E of Line 2	1355.3	2288	5.1	2310	5.5	99.0
	845 200	CLO Bldg - btwn G1 and G2, 1.3 m N	1356.6	2403	3.4	2310	5.5	104.0
	846 200	CLO Bldg - btwn F2 and F3	1356.6	2198	3.8	2310	5.5	95.2
	847 200	CLO Bldg - btwn F2 and F3, 1.4m N of Line F	1356.6	2265	3.3	2310	5.5	98.1
	848 200	CLO Bldg - btwn G1 and G2, 0.3 m N of wall	1356.9	2232	3.6	2310	5.5	96.6
	849 200	CLO Bldg - Middle of Line B2 to B3	1357.0	2260	3.8	2310	5.5	97.8
	850 200	CLO Bldg - Middle of Line B2 to C2	1357.0	2199	3.5	2310	5.5	95.2

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** °C **Soil:** °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/08/05	851 200	CLO Bldg - btwn D2 and E2	1357.0	2282	3.4	2310	5.5	98.8
	852 200	CLO Bldgg - btwn A2 and A3, 0.2m N footing	1357.0	2203	3.9	2310	5.5	95.4
	853 200	Mill Bldg - btwn G3 and G4 0.6m S footing	1357.2	2263	5.6	2310	5.5	98.0
	854 200	Mill Bldg, btwn E1 and F1	1355.5	2230	2.6	2310	5.5	96.5
	855 200	Mill Bldg, btwn G1 and F1	1355.4	2226	4.5	2310	5.5	96.4
	856 200	Mill Bldg, btwn H1 and H2	1355.3	2233	4.8	2310	5.5	96.7
	857 200	Mill Bldg, btwn F1 and G1	1355.6	2250	4.5	2310	5.5	97.4
	858 200	Mill Bldg, btwn H2 and G2	1355.3	2304	4.4	2310	5.5	99.7
	859 200	Mill Bldg, btwn F3 and G3	1355.2	2213	5.8	2310	5.5	95.8
	860 200	Mill Bldg, btwn G4 and G5	1355.7	2324	5.4	2310	5.5	100.6
	861 200	Mill Bldg, btwn E1 and F1	1357.2	2246	4.9	2310	5.5	97.2
	862 200	Mill Bldg, F1, 1.4 m W (outside)	1357.2	2209	5.9	2310	5.5	95.6

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/05	863 200	Mill bld, btwn F1 and G1	1357.2	2246	5.6	2310	5.5	97.2
	864 200	Mill bld btwn F1 and F2	1357.2	2277	5.6	2310	5.5	98.6
	865 200	Mill Bld btwn G1 and H2	1355.6	2217	6.7	2310	5.5	96.0
	866 200	Mill bld, btwn G3 and G4	1357.5	2232	5.2	2310	5.5	96.6
	867 200	Mill bld, btwn H1 and H2, 0.3 m W o/s wall	1355.1	2204	6.7	2310	5.5	95.4
	868 200	Mill bld, btwn F2 and F3, 1.7 m N foot	1355.1	2195	5.5	2310	5.5	95.0
	869 200	Mill bld, btwn E1 and F1	1356.6	2281	6.7	2310	5.5	98.7
	870 200	Mill bld, btwn F1 and F2	1356.6	2287	5.3	2310	5.5	99.0
	871 200	Mill bld, btwn F1 and G1	1356.6	2325	6.3	2310	5.5	100.6
	872 200	Mill bld, btwn H1 and H2	1356.8	2198	6.0	2310	5.5	95.2
2009/08/06	873 200	Mill bld, btwn H1 and H2	1357.4	2208	6.3	2310	5.5	95.6
	874 200	Mill bld, btwn F2 and F3	1356.9	2210	4.6	2310	5.5	95.7

Remarks: Test #863, material was compacted for additional 10 mins before excavator was available to place the ne
 Elevation for tests 25 to 27 were estimated from survery stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/08/06	875 200	CLO Bldg - btwn A2 and A3 (S of wall)	1355.8	2247	3.2	2310	5.5	97.3
	876 200	CLO Bldg - btwn A2 and A3, N of wall	1355.8	2189	3.8	2310	5.5	94.8
	877 200	CLO Bldg - btwn A2 and A3, N of wall	1357.0	2203	3.9	2310	5.5	95.4
	878 200	CLO Bldg - btwn A2 and A3; S of wall	1355.5	2219	5.0	2310	5.5	96.1
	879 200	CLO Bldg - btwn A2 and A3; No of wall	1355.5	2143	5.1	2250	5.5	95.2
	880 200	CLO Bldg - btwn A2 and A3; S of wall	1356.8	2256	4.2	2310	5.5	97.7
	881 200	MSE Wall 2A	1344.0	2239	4.9	2310	5.5	96.9
	882 200	MSE Wall 2B	1344.0	2361	4.0	2310	5.5	102.2
	883 200	MSE Wall 2A	1346.5	2252	6.2	2310	5.5	97.5
	884 200	MSE Wall 2A	1346.5	2213	6.6	2310	5.5	95.8
	885 200	CLO Bldg - 0.4 m N of Line A2 to A3,	1355.8	2203	6.3	2250	5.5	97.9
	886 200	Mill Bldg, Middle of Line F5 to F6	1354.2	2273	5.8	2310	5.5	98.4

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** °C **Soil:** °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/06	887 200	Mill Bldg, btwn F7 and F8	1354.2	2257	6.3	2310	5.5	97.7
	888 200	Mill Bldg, btwn B11 and B12	1354.5	2271	5.5	2310	5.5	98.3
	889 200	Mill Bldg, btwn B11 and A11	1354.5	2253	7.4	2310	5.5	97.5
	890 200	Mill Bldg, btwn B9 and B10	1354.5	2265	6.4	2310	5.5	98.1
	891 200	Mill Bldg, btwn B8 and A8, 4m North	1354.4	2356	5.6	2310	5.5	102.0
	892 200	Mill Bldg, btwn F5 and F6	1354.5	2259	5.6	2310	5.5	97.8
	893 200	Mill Bldg, btwn F6 and F8, 2.6m South	1354.5	2214	4.9	2310	5.5	95.8
	894 200	Mill Bldg, F11 and F12, 2.1m South	1354.5	2261	4.1	2310	5.5	97.9
	895 200	Mill Bldg, btwn A11 and B11, 3.0m North	1354.8	2217	4.2	2310	5.5	96.0
	896 200	Mill Bldg, btwn A10 and A11, 2.1m West	1354.8	2258	3.3	2310	5.5	97.7
	897 200	Mill Bldg, 2.7m E and 2.5m S of A9	1354.8	2264	6.8	2310	5.5	98.0
	898 200	Mill Bldg, btwn B9 and B10	1354.9	2388	5.4	2310	5.5	103.4

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.**Copies:** _____**Reviewed By:** 

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/06	899 200	Mill Bldg, btwn B10 and B11	1354.4	2226	4.6	2310	5.5	96.4
	900 200	Mill Bldg, btwn H6 and H7	1355.2	2155	5.8	2250	5.5	95.8
	901 200	Mill Bldg, H3, 2.5m N of footing	1355.2	2153	5.9	2250	5.5	95.7
	902 200	Mill Bldg, btwn H5 and H6	1355.2	2161	5.9	2250	5.5	96.0
	903 200	Mill Bldg, btwn H7 and H8	1355.2	2164	6.3	2250	5.5	96.2
	904 200	Mill Bldg, btwn G9 and G10	1354.5	2206	4.8	2310	5.5	95.5
	905 200	Mill Bldg, btwn G7 and G8	1354.9	2313	5.1	2310	5.5	100.1
	906 200	Mill Bldg, btwn G4 and G5	1354.7	2303	5.3	2310	5.5	99.7
	907 200	Mill Bldg, btwn B9 and B10	1354.9	2282	5.6	2310	5.5	98.8
	908 200	Mill Bldg, btwn B10 and B11	1354.9	2250	5.3	2310	5.5	97.4
	909 200	Mill Bldg, btwn B11 and B12	1356.9	2198	4.4	2310	5.5	95.2
2009/08/07	910 200	Mill Bldg, btwn footings F6 and F7; West of Line F	1358.4	2146	4.2	2250	5.5	95.4

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.**Copies:** _____**Reviewed By:** _____

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/07	911 200	Mill Bldg, West of footing F4	1358.4	2248	4.6	2310	5.5	97.3
	912 200	Mill Bldg, btwn F8 and F9; West side	1358.4	2287	3.2	2250	5.5	101.6
	913 200	Mill Bldg, center of A8, B8, A9, B9	1358.0	2242	4.8	2250	5.5	99.6
	914 200	MSE Wall 2A, sta 0+020	1347.0	2148	8.2	2250	5.5	95.5
	915 200	MSE Wall 2A, sta 0+020	1347.0	2219	7.7	2250	5.5	98.6
	916 200	MSE Wall 2A, East side	1344.0	2189	9.0	2250	5.5	97.3
	917 200	MSE Wall 2A, East side	1344.0	2217	5.8	2250	5.5	98.5
	918 200	Mill Bldg, btwn A14 and A15	1356.0	2257	5.8	2310	5.5	97.7
	919 200	Mill Bldg, btwn A15 and B15	1355.8	2235	4.4	2310	5.5	96.8
	920 200	Mill Bldg, btwn H4 and H5	1356.5	2235	4.4	2310	5.5	96.8
	921 200	Mill Bldg, btwn H8 and H9, 2 m S of line	1356.5	2167	5.1	2250	5.5	96.3
	922 200	Mill Bldg, btwn H7 and H8, 1.3 m N of line	1357.0	2157	3.6	2250	5.5	95.9

Remarks: Recommended more moisture on all tested areas and future lifts.

Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/07	923 200	Mill Bldg, btwn H4 and H5	1356.9	2248	4.6	2310	5.5	97.3
	924 200	Mill Bldg, btwn H3 and H4	1357.0	2158	5.1	2250	5.5	95.9
	925 200	Mill Bldg, btwn B1 and B2	1356.4	2138	3.5	2250	5.5	95.0
	926 200	Mill Bldg, btwn A4 and B4	1356.3	2205	4.0	2250	5.5	98.0
	927 200	Mill Bldg, btwn B5 and B6	1356.0	2184	3.9	2250	5.5	97.1
	928 200	Mill Bldg, btwn A6 and B6	1355.9	2251	4.5	2250	5.5	100.0
	929 200	Mill Bldg, btwn B6 and B7	1355.9	2156	3.9	2250	5.5	95.8
	930 200	Mill Bldg, btwn A2 and B2	1356.3	2166	4.5	2250	5.5	96.3
	931 200	Mill Bldg, btwn B4 and B5	1356.2	2156	3.3	2250	5.5	95.8
	932 200	Mill Bldg, btwn B3 and B4	1356.0	2146	3.9	2250	5.5	95.4
	933 200	Mill Bldg, btwn A14 and B14	1355.9	2182	4.4	2250	5.5	97.0
	934 200	Mill Bldg, btwn A15 and B15	1355.9	2269	3.4	2250	5.5	100.8

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/08/07	935 200	Mill Bldg, btwn A14 and A15	1355.9	2256	3.9	2310	5.5	97.7
	936 200	Mill Bldg, btwn B7 and B8	1355.7	2253	3.4	2310	5.5	97.5
	937 200	Mill Bldg, btwn B6 and B7, A6 and A7	1355.5	2263	4.8	2310	5.5	98.0
	938 200	Mill Bldg, btwn B3 and B4	1356.2	2197	2.8	2250	5.5	97.6
	939 200	Mill Bldg, btwn B4 and B5, 3.5 m N of line	1356.3	2211	4.8	2250	5.5	98.3
	940 200	Mill Bldg, btwn B5 and B6	1356.0	2271	3.2	2250	5.5	100.9
	941 200	Mill Bldg, btwn B2 and B3	1356.4	2262	4.0	2250	5.5	100.5
	942 200	Mill Bldg, btwn B1 and B2	1356.5	2182	4.7	2250	5.5	97.0
	943 200	Mill Bldg, btwn B7 and B8, 2.6 m N of line	1355.8	2198	2.7	2250	5.5	97.7
	944 200	Mill Bldg, btwn B2 and B3, 3 m N of line	1355.8	2222	3.4	2250	5.5	98.8
	945 200	Mill Bldg, btwn A14 and A15	1356.3	2259	3.6	2250	5.5	100.4
	946 200	Mill Bldg, btwn A15 and B15	1356.4	2250	4.4	2250	5.5	100.0

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** Sec below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/08/07	947 200	Mill Bldg, btwn B6 and B7	1356.3	2229	2.5	2310	5.5	96.5
	948 200	Mill Bldg, btwn B5 and B6, 1.9 m N of line	1356.4	2161	2.6	2250	5.5	96.0
	949 200	Mill Bldg, btwn B4 and B5	1356.4	2150	4.1	2250	5.5	95.6
	950 200	Mill Bldg, btwn B3 and B4, 2.2 m N of line	1356.4	2154	2.0	2250	5.5	95.7
	951 200	Mill Bldg, btwn B2 and B3	1356.4	2251	3.0	2250	5.5	100.0
	952 200	Mill Bldg, btwn A1 and A2, 3.3 m S of line	1356.0	2211	5.0	2250	5.5	98.3
2009/08/08	953 200	MSE Wall North Side, sta 0+055	1344.5	2153	6.6	2250	5.5	95.7
	954 200	MSE Wall West side, sta 0+020	1345.5	2189	5.8	2250	5.5	97.3
	955 200	MSE Wall West side, sta 0+031	1345.5	2173	6.5	2250	5.5	96.6
	956 200	MSE Wall, West side, sta 0+050	1345.5	2144	5.7	2250	5.5	95.3
	957 200	Mill Bldg, btwn A15 and B15	1356.5	2263	3.4	2250	5.5	100.6
	958 200	Mill Bldg, btwn A15 and B15	1356.5	2251	4.3	2250	5.5	100.0

Remarks: 100% compaction necessary for truck bay door foundation area.
Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Specified Compaction: 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** _____ **Air:** _____ **°C Soil:** _____ **°C**
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt MC %	Comp % SPD
2009/08/08	959 200	MSE Wall North Section, sta 0+055	1345.0	2183	6.5	2250	5.5	97.0
	960 200	MSE Wall North Section, sta 0+038	1345.8	2171	6.6	2250	5.5	96.5
	961 200	MSE Wall West section, sta 0+020	1345.0	2163	8.8	2250	5.5	96.1
2009/08/09	962 200	MSE Wall, Sta 0+065	1346.0	2191	7.1	2250	5.5	97.4
	963 200	MSE Wall, corner of 2A	1346.0	2171	6.0	2250	5.5	96.5
	964 200	MSE Wall, sta 0+020	1346.0	2170	5.4	2250	5.5	96.4
	965 200	MSE Wall 2B, NE section, 19 m W CSP		2208	7.7	2250	5.5	98.1
	966 200	MSE Wall, NE section, 8.1 m W CSP		2242	5.9	2250	5.5	99.6
2009/08/10	967 200	MSE Wall 2A, sta 0+015	1346.7	2168	4.6	2250	5.5	96.4
	968 200	MSE wall 2A, sta 0+028	1346.7	2181	5.1	2250	5.5	96.9
	969 200	MSE Wall 2A, sta 0+044	1346.7	2221	4.8	2250	5.5	98.7
	970 200	MSE Wall 2b, NE section, 4.5 m E CSP		2251	6.1	2250	5.5	100.0

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C Soil: _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/11	971 200	MSE Wall 2B, backslope (North side)	1347.0	2328	4.6	2250	5.5	103.5
	972 200	MSE Wall, sta 0+060	1347.2	2152	6.6	2250	5.5	95.6
	973 200	MSE Wall, sta 0+048	1347.2	2156	6.2	2250	5.5	95.8
	974 200	MSE Wall, sta 0+030	1347.2	2170	5.7	2250	5.5	96.4
	975 200	MSE Wall, sta 0+018	1347.2	2192	5.2	2250	5.5	97.4
	976 200	MSE Wall, sta 0+055	1347.7	2139	7.8	2250	5.5	95.1
	977 200	MSE Wall, sta 0+045	1347.7	2252	8.1	2250	5.5	100.1
	978 200	MSE Wall, sta 0+030	1347.7	2185	6.1	2250	5.5	97.1
	979 200	MSE Wall, sta 0+020	1347.7	2137	6.4	2250	5.5	95.0
	980 200	MSE Wall 2B; N section, 35.5 m W CSP	1347.7	2181	5.1	2250	5.5	96.9
2009/08/12	981 200	MSE Wall, sta 0+018	1348.6	2138	7.5	2250	5.5	95.0
	982 200	MSE Wall, sta 0+035	1348.6	2205	7.0	2250	5.5	98.0

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/12	983 200	MSE Wall, sta 0+045	1348.6	2169	9.6	2250	5.5	96.4
	984 200	MSE Wall, sta 0+055	1348.6	2215	6.5	2250	5.5	98.4
	985 200	MSE Wall, sta 0+030	1349.0	2165	7.8	2250	5.5	96.2
	986 200	Mill Bldg - 2.2m N; 1.8 m E of B3	1356.4	2252	6.7	2250	5.5	100.1
	987 200	Mill Bldg, 3.4 m N; 2.3 m E of B7	1355.7	2164	5.6	2250	5.5	96.2
	988 200	Mill Bldg, 0.9 m N; 2.5 m E of B6	1355.7	2175	6.4	2250	5.5	96.7
	989 200	Mill Bldg, 3.6 m N; 4.0 m E of B1	1356.7	2239	2.3	2250	5.5	99.5
	990 200	Mill Bldg, btwn B5-B6, 3.4m N of line	1356.4	2216	5.3	2250	5.5	98.5
	991 200	Mill Bldg, 1.0 m E B4, 3.7 m N B4	1356.4	2136	3.0	2250	5.5	94.9
	992 200	Mill Bldg, 3.3 m E B3, 4.1 m N B3	1356.7	2185	3.4	2250	5.5	97.1
	993 200	Mill Bldg, 4 m N B7, 3 m E B7	1356.0	2230	4.4	2250	5.5	99.1
	994 200	Mill Bldg, 3 m E B6, 3.7 m N B6	1356.0	2251	4.7	2250	5.5	100.0

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.**Copies:** _____**Reviewed By:** 

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/12	995 200	Mill Bldg, 0.7 m W; 2.0 m S A3	1355.7	2243	5.2	2250	5.5	99.7
	996 200	Mill Bldg, 4.3 m E; 5 m S of A1	1355.7	2142	5.3	2250	5.5	95.2
	997 200	Mill Bldg, 1.7 m N; 0.4 m W of H13		2140	4.6	2250	5.5	95.1
	998 200	Mill Bldg, 2.3 m W; 1.9 m N of B6	1356.3	2185	6.0	2250	5.5	97.1
	999 200	Mill Bldg, 2.4 m E H12		2153	4.7	2250	5.5	95.7
	1000 200	Mill Bldg, 3.0 m E H11, 0.2 m S H11		2148	4.6	2250	5.5	95.5
	1001 200	Mill Bldg, 3.2 m W; 0.3 m N of H10		2147	6.1	2250	5.5	95.4
	1002 200	Mill Bldg, 2.8 m E; 1.9 m N of B4	1356.7	2238	5.2	2250	5.5	99.5
	1003 200	Mill Bldg, 3.2 m E; 1.8 m S of A7	1355.7	2198	5.7	2250	5.5	97.7
	1004 200	Mill Bldg, 4 m W; 3.7 m S of A5	1356.1	2163	6.8	2250	5.5	96.1
	1005 200	Mill Bldg, 1.3 m W; 1.0 m N of B6	1356.3	2270	4.9	2250	5.5	100.9
	1006 200	Mill Bldg, 1.4 m W; 5.0 m N of B7	1356.3	2251	5.2	2250	5.5	100.0

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/12	1007 200	Mill Bldg - 0.2 m E; 0.4 m S of A6	1356.0	2176	5.4	2250	5.5	96.7
	1008 200	Mill Bldg - 1.0 m E; 0.6 m N of A5	1356.0	2200	6.8	2250	5.5	97.8
	1009 200	Mill Bldg - 0.3 m E, 0.6 m S of A7	1356.0	2148	6.1	2250	5.5	95.5
	1010 200	Mill Bldg - 2.7 m W, 2.1 m S of B4	1357.0	2150	5.0	2250	5.5	95.6
	1011 200	Mill Bldg - 2.0 m S of A6	1356.3	2162	6.3	2250	5.5	96.1
	1012 200	Mill Bldg - 0.3 m N of A6	1356.3	2187	6.0	2250	5.5	97.2
	1013 200	Mill Bldg - 0.2 m N of A7	1356.3	2168	6.7	2250	5.5	96.4
2009/08/13	1014 200	Mill Bldg - 2.5 m E of A4, on Line A4-A5	1357.1	2175	4.8	2250	5.5	96.7
	1015 200	Mill Bldg - btwn A1-A2, offset A1-B1	1357.1	2166	7.8	2250	5.5	96.3
	1016 200	Mill Bldg - Middle of Line A3-B3	1357.0	2194	7.1	2250	5.5	97.5
	1017 200	Mill Bldg - center of A7-A8; B7-B8	1356.6	2343	5.1	2310	5.5	101.4
	1018 200	Mill Bldg - 1.5 m S; Middle of Line A5-A6	1356.6	2202	5.0	2250	5.5	97.9

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/13	1019 200	MSE Wall - N6810815 E439847	1348.9	2154	9.3	2250	5.5	95.7
	1020 200	MSE Wall - N6810838 E439848	1348.9	2175	9.9	2250	5.5	96.7
	1021 200	Mill Bldg - 4 m W; 1.7 m S of A5	1356.5	2226	3.4	2250	5.5	98.9
	1022 200	Mill Bldg - 1.5 m E; 5.8m S of A4	1357.5	2341	4.3	2310	5.5	101.3
	1023 200	Mill Bldg - 2.2 m W; 3.1 m S of A3	1357.5	2257	5.4	2250	5.5	100.3
	1024 200	Mill Bldg - middle of line A7-A8, 2.4 m S	1357.5	2249	5.3	2250	5.5	100.0
	1025 200	Mill Bldg - 2 m W B2, 0.6m N B2	1357.5	2306	4.0	2310	5.5	99.8
	1026 200	Mill Bldg - 2.2 m S at middle of Line B3-B4	1357.0	2231	3.4	2250	5.5	99.2
	1027 200	Mill Bldg - 2.9 m W; 4.7 m S of A6	1357.5	2238	4.3	2250	5.5	99.5
	1028 200	Mill Bldg - middle of Line A6-A7	1357.5	2206	5.0	2250	5.5	98.0
	1029 200	Mill Bldg - 4.4 m S; 3.0m E of A1	1357.0	2255	5.0	2310	5.5	97.6
	1030 200	Mill Bldg - 4.1 m E; 4.4 m S of A3	1357.5	2253	6.1	2250	5.5	100.1

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/13	1031 200	Mill Bldg - btwn B3-B4, 1 m S of line	1357.5	2237	4.9	2310	5.5	96.8
	1032 200	Mill Bldg - 3.2 m W; 1.4 m N of A5	1356.8	2265	3.2	2250	5.5	100.7
	1033 200	Mill Bldg - 3.8 m E, 1.9 m N of A2	1356.9	2237	3.6	2250	5.5	99.4
	1034 200	Mill Bldg - 4 m W; 0.7 m N of B5	1357.0	2280	4.2	2310	5.5	98.7
	1035 200	Mill Bldg - 3.2 m E; 2.0 m S of B2	1357.0	2306	5.4	2310	5.5	99.8
	1036 200	Mill Bldg - 3.1 m E; 3.7 m S of A5	1357.5	2278	5.5	2310	5.5	98.6
	1037 200	Mill Bldg - 3.4 m W; 0.3 m S of A6	1356.6	2209	4.8	2310	5.5	95.6
	1038 200	Mill Bldg - 4.1 m E, 0.6 m N of A4	1357.1	2247	3.9	2250	5.5	99.9
	1039 200	Mill Bldg - 1.5 m S of middle of Line B3-B4	1357.4	2248	4.8	2250	5.5	99.9
	1040 200	Mill Bldg - 3.2 m S; 1.4 m E of A2	1357.4	2205	5.2	2250	5.5	98.0
	1041 200	Mill Bldg - 2.8 m E; 3.3 m S of A3	1357.4	2249	5.3	2310	5.5	97.4
	1042 200	Mill Bldg - 4.4 m E; 2.1 m S of A1	1357.4	2231	3.9	2310	5.5	96.6

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Project No.: W14101095.005 **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Client: Yukon Zinc Corp. **Specified Moisture (MC):** _____
Attention: Chiu Yiu **Temperature** Air: _____ °C **Soil:** _____ °C
Contractor: Arctic Construction **Date Tested:** See below **By:** RC
Construction Period: April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/13	1043 200	Mill Bldg - 3.4 m E ; 1.5 m N of A5	1356.9	2207	3.9	2310	5.5	95.5
	1044 200	Mill Bldg, 2.7 m S; 2.0m W of A1	1356.5	2313	3.8	2310	5.5	100.1
	1045 200	Mill Bldg, 0.7 m W; 1.3 m N of A7	1356.9	2218	3.8	2310	5.5	96.0
2009/08/14	1046 200	Mill Bldg - 2.2 m E; 0.6 m N of A8	1358.0	2286	4.4	2310	5.5	99.0
	1047 200	Mill Bldg - middle of Line A4-A5, 1.5 m N of it	1357.8	2227	3.6	2310	5.5	96.4
	1048 200	Mill Bldg - 1 m N at middle of Line A1-A2	1357.9	2231	4.9	2310	5.5	96.6
	1049 200	MSE Wall - N 6810824, E 439845	1349.8	2210	7.6	2310	5.5	95.7
	1050 200	MSE Wall 2B - N 6810842, E 439862	1349.8	2338	7.0	2310	5.5	101.2
	1051 200	MSE Wall 2B - N 6810855, E 439877	1349.8	2206	7.6	2250	5.5	98.0
2009/08/15	1052 200	MSE Wall 2A - N 6810823, E 439848	1350.6	2281	4.0	2250	5.5	101.4
	1053 200	MSE Wall 2A - N 6810849, E 439875	1350.6	2220	7.4	2310	5.5	96.1
	1054 200	MSE Wall 2A - N 6810834, E 439860	1350.6	2159	7.3	2250	5.5	96.0

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/08/15	1055 200	MSE Wall 2A - N 6810845, E 439889	1350.6	2201	6.4	2250	5.5	97.8
2009/08/17	1056 200	Mill Bldg - 2 m E; 2.6 m N of A12	1355.9	2262	4.9	2250	5.5	100.5
	1057 200	Mill Bldg - 2.7 m N; 2.2 m E of C1	1356.7	2238	4.2	2310	5.5	96.9
	1058 200	Mill Bldg - 3.6 m S; 1.1 m E of B2	1356.1	2140	5.2	2250	5.5	95.1
	1059 200	Mill Bldg - 2 m N; 4.1 m W of C1	1357.1	2170	4.2	2250	5.5	96.4
	1060 200	Mill Bldg - 3.7 m W; 3 m N of B12	1356.0	2174	5.9	2250	5.5	96.6
	1061 200	Mill Bldg - 4 m S; 2.6 m E of B1	1356.7	2210	4.3	2250	5.5	98.2
	1062 200	Mill Bldg - 2.3 m S; 3.5 m W of C1	1356.9	2202	4.6	2250	5.5	97.9
	1063 200	Mill Bldg - 4 m S; 1.4 m E of B1	1357.1	2204	3.7	2250	5.5	98.0
	1064 200	Mill Bldg - 3 m S; 4.5 m W of B1	1358.6	2158	3.7	2250	5.5	95.9
	1065 200	Mill Bldg - 2.8 m N E1, 4.2 m W O/S wall	1358.2	2179	4.2	2250	5.5	96.8
	1066 200	Mill Bldg - 2.1 m N; 2.4 m W of B12	1356.8	2167	4.8	2250	5.5	96.3

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Specified Compaction: 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C Soil: _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/17	1067 200	Mill Bldg - 3.4 m S; 0.6 m E of A13	1355.5	2272	4.2	2250	5.5	101.0
2009/08/19	1068 200	Mill Bldg - 3.4 m S; 0.8 m E of E1	1355.1	2281	4.7	2250	5.5	101.4
	1069 200	Mill Bldg - 2.1 m S; 1.0m E of F1	1355.1	2170	5.1	2250	5.5	96.4
	1070 200	Mill Bldg - 3 m E; 4.1 m S of A13	1357.0	2325	2.9	2310	5.5	100.6
	1071 200	Mill Bldg - 3.2 m E; 4.6 m S of A12	1357.0	2235	4.7	2310	5.5	96.8
	1072 200	Mill Bldg - 3.2 m S; 0.4 m W of D1	1356.2	2178	6.0	2250	5.5	96.8
	1073 200	Mill Bldg - 3.5 m S; 0.6 m W of C1	1356.2	2214	4.2	2250	5.5	98.4
	1074 200	Mill Bldg - 4 m N; 1.1 m W of E1	1356.2	2142	5.5	2250	5.5	95.2
	1075 200	Mill Bldg - 3.3 m S; 0.5 m W of F1	1356.4	2253	6.1	2250	5.5	100.1
	1076 200	Mill Bldg - 2.7 m S; 1.3 m W of C1	1356.2	2168	4.9	2250	5.5	96.4
	1077 200	Mill Bldg - 2.3 m S; 0.1 m E of F1	1356.4	2202	6.8	2250	5.5	97.9
	1078 200	Mill Bldg - 3.4 m N; 0.1 m E of A12 footing	1356.9	2257	5.7	2250	5.5	100.3

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/19	1079 200	Mill Bldg - 2.1 m E of E1	1356.5	2180	5.0	2250	5.5	96.9
	1080 200	Mill Bldg - 1.8 m N; 1.4 m E of G1	1356.6	2153	4.5	2250	5.5	95.7
	1081 200	Mill Bldg - 1.3 m N; 0.7 m W of G1	1356.8	2249	5.2	2250	5.5	100.0
	1082 200	Mill Bldg - 2.6 m N; 0.5 m W of E1	1356.2	2249	4.9	2310	5.5	97.4
	1083 200	Mill Bldg - 2.4 m N; 0.4 m W of D1	1356.2	2145	4.8	2250	5.5	95.3
	1084 200	Mill Bldg - 1.2 m S; 1.2 m E of C1	1356.5	2216	5.6	2250	5.5	98.5
	1085 200	Mill Bldg - 3.6 m W; 3.4 m S of A14	1357.2	2172	4.9	2250	5.5	96.5
	1086 200	Mill Bldg - 2.4 m N; 2.6 m E of B12	1357.3	2186	6.6	2250	5.5	97.2
	1087 200	Mill Bldg - 0.4 m S; 0.6 m W of F1	1357.2	2245	5.1	2250	5.5	99.8
	1088 200	Mill Bldg - 1.8 m N; 1.7 m E of G1	1357.2	2157	5.0	2250	5.5	95.9
2009/08/20	1089 200	Mill Bldg - 2.7 m S; 1.8 m W of C1	1357.4	2345	5.0	2310	5.5	101.5
	1090 200	Mill Bldg - 3.1 m N; 1.3 m W of E1	1357.4	2212	7.0	2250	5.5	98.3

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.**Copies:** _____**Reviewed By:** 

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Specified Compaction: 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** _____ **Air:** _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/20	1091 200	Mill Bldg - 1 m S H3, 1.8 m W H3	1355.7	2376	6.0	2310	5.5	102.9
	1092 200	Mill Bldg - 2 m N; 2 m W of G1	1357.4	2237	5.6	2250	5.5	99.4
	1093 200	Mill Bldg - btwn A1-B1, 2.3 m E	Grade	2149	4.9	2250	5.5	95.5
	1094 200	Mill Bldg - 0.8 m N, 1.7 m W of H1	1356.6	2176	7.2	2310	5.5	94.2
	1095 200	Mill Bldg - 1.5 m W, 1.1 m S of H1	1355.7	2231	5.3	2250	5.5	99.2
	1096 200	Mill Bldg - 3 m W, 1 m N of H3	1355.6	2139	5.7	2250	5.5	95.1
	1097 200	Mill Bldg - 2 m W, 3.2 m N of H4	1355.6	2195	7.7	2250	5.5	97.6
	1098 200	Mill Bldg - 3 m E, 1.4 m S of H1	1355.4	2251	5.0	2250	5.5	100.0
	1099 200	Mill Bldg - 3.2 m W, 0.8 m S of H5	1355.7	2226	6.2	2250	5.5	98.9
	1100 200	Mill Bldg - 2.9 m S, 2.8 m E of D1	Grade	2195	4.9	2250	5.5	97.6
	1101 200	Mill Bldg - 1.9 m N, 2.7 m W of D1	1357.8	2189	7.6	2250	5.5	97.3
	1102 200	Mill Bldg - 1.9 m E @ Middle of Line C1-D1	Grade	2213	8.6	2250	5.5	98.4

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C Soil: _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/20	1103 200	Mill Bldg - 2.0m W, 2.8 m N of H5	1355.6	2213	8.6	2250	5.5	98.4
	1104 200	Mill Bldg - 2.7 m S, 1.0m W of F1	1357.8	2145	6.0	2250	5.5	95.3
	1105 200	Mill Bldg - 2.5 m N, 2.7 m W of H1	1357.4	2188	5.1	2250	5.5	97.2
	1106 200	Mill Bldg - 3.7 m E, 3.3 m S of H2	1355.4	2154	5.5	2250	5.5	95.7
	1107 200	Mill Bldg - 1.2 m E, 2.4 m N of H4	1356.0	2227	5.8	2250	5.5	99.0
	1108 200	Mill Bldg - 3.1 m E, 2 m S of H3	1355.3	2209	6.0	2250	5.5	98.2
	1109 200	Mill Bldg - 3.1 m N, 0.5 m S of H6	1355.2	2212	5.9	2250	5.5	98.3
	1110 200	Mill Bldg - 4 m N, 4 m W of E1	1357.8	2246	5.8	2250	5.5	99.8
	1111 200	Mill Bldg - 4 m N of H5	1356.0	2152	7.1	2250	5.5	95.6
	1112 200	Mill Bldg - 2.7 m S, 2.3 m E of B1	1356.6	2241	5.0	2250	5.5	99.6
	1113 200	Mill Bldg - 2.7 m W, 0.7 m N of H3	1356.1	2166	7.6	2250	5.5	96.3
	1114 200	Mill Bldg - 3 m S, 3 m E of G1	1356.8	2161	8.0	2250	5.5	96.0

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/20	1115 200	Mill Bldg - 2.6 m E; 0.7 m S of H1	1356.7	2170	5.6	2250	5.5	96.4
	1116 200	Mill Bldg - 1 m W, 3 m S of H4	1356.5	2146	5.6	2250	5.5	95.4
	1117 200	Mill Bldg - 2.3 m E, 2.1 m S of H2	1356.6	2160	6.6	2250	5.5	96.0
	1118 200	Mill Bldg - 2.2 m W, 0.4 m S of H5	1356.9	2361	5.4	2310	5.5	102.2
	1119 200	Mill Bldg - 3.0m W, 1.3 m N of H3	1356.7	2178	6.8	2250	5.5	96.8
	1120 200	Mill Bldg - 3.7 m E, 0.2 m N of H3	1356.6	2165	6.2	2250	5.5	96.2
	1121 200	Mill Bldg - 0.4 m W, 3.7 m N of H5	1356.3	2216	7.0	2250	5.5	98.5
2009/08/21	1122 200	Mill Bldg - 3.6 m E, 3.1 m N of H3	1356.9	2231	6.2	2250	5.5	99.2
	1123 200	Mill Bldg - 2.9 m W; 1.7 m N of H4	1356.7	2172	4.7	2250	5.5	96.5
	1124 200	Mill Bldg - 4.2 m E, 2.4 m N of H4	1356.7	2185	7.8	2250	5.5	97.1
	1125 200	Mill Bldg - 4 m W, 3.2 m S of H5	1357.1	2393	4.1	2310	5.5	103.6
	1126 200	Mill Bldg - 3 m E, 1.4 m S of H3	1357.4	2231	5.4	2250	5.5	99.2

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C Soil: _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/21	1127 200	Mill Bldg - 3.8 m E, 2.2 m S of H1	1357.4	2271	5.4	2250	5.5	100.9
	1128 200	Mill Bldg - 2.4 m E, 0.7 m N of H1	1357.0	2192	4.7	2250	5.5	97.4
	1129 200	Mill Bldg - 3.1 m W, 2.6 m N of H8	1356.6	2152	5.8	2250	5.5	95.6
	1130 200	Mill Bldg - 4.3 m E, 3.1 m S of H2	1357.8	2169	5.2	2250	5.5	96.4
	1131 200	Mill Bldg - 2.4 m E, 0.7 m S of H1	1357.4	2161	5.2	2250	5.5	96.0
	1132 200	Mill Bldg - 3.3 m E, 3.4 m S of H6	1357.8	2179	6.5	2250	5.5	96.8
	1133 200	Mill Bldg - 1.3 m E, 0.5 m S of H4	1357.3	2155	5.8	2250	5.5	95.8
	1134 200	Mill Bldg - 1.8 m W, 5.1 m S of H6	1356.4	2142	5.0	2250	5.5	95.2
	1135 200	Mill Bldg - 0.2 m E, 3.4 m S of H5	1356.7	2223	5.9	2250	5.5	98.8
	1136 200	Mill Bldg - 1 m W, 1.3 m S of H7	1356.0	2248	5.4	2250	5.5	99.9
	1137 200	Mill Bldg - 3.3 m W, 1.2 m N of H7	1356.6	2164	5.5	2250	5.5	96.2
	1138 200	Mill Bldg - 3.6 m E, 2.8 m N of H5	1356.6	2232	5.4	2250	5.5	99.2

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/21	1139 200	Mill Bldg - 1.5 m N, 2.3 m W of H1	1357.4	2250	5.8	2250	5.5	100.0
	1140 200	Mill Bldg - 3.3 m W, 1.4 m S of H2	1357.8	2297	5.6	2250	5.5	102.1
	1141 200	Mill Bldg - 3.4 m W, 0.6 m S of H3	1357.8	2232	5.8	2250	5.5	99.2
	1142 200	Mill Bldg - 2 m W, 5 m S of H4	1357.6	2166	4.3	2250	5.5	96.3
	1143 200	Mill Bldg - 1.9 m W, 3.8 m S of H5	1357.6	2183	5.2	2250	5.5	97.0
	1144 200	Mill Bldg - 3 m, 2.2 m S of H6	1357.4	2156	5.5	2250	5.5	95.8
	1145 200	Mill Bldg - 3.5 m E, 2.6 m N of H3	1357.1	2155	5.8	2250	5.5	95.8
	1146 200	Mill Bldg - 3.5 m E, 2.5 m N of H2		2241	6.1	2250	5.5	99.6
	1147 200	Mill Bldg - 1.2 m E, 1.1 m N of H1	1357.2	2170	5.7	2250	5.5	96.4
	1148 200	Mill Bldg - 0.2 m E, 1.3 m S of H7	1356.8	2260	5.3	2250	5.5	100.4
	1149 200	Mill Bldg - 3.1 m W, 1.3 m N of H5	1356.8	2164	6.8	2250	5.5	96.2
	1150 200	Mill Bldg - 2.5 m W, 0.2 m N of H6	1356.7	2223	8.3	2250	5.5	98.8

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.**Copies:** _____**Reviewed By:** 

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/21	1151 200	Mill Bldg - 4 m W, 4 m N of H7	1356.7	2270	6.4	2250	5.5	100.9
	1152 200	Mill Bldg - 3.5 m E, 1.4 m N of H7	1356.6	2145	6.2	2250	5.5	95.3
2009/08/22	1153 200	MSE Wall 2B, sta 0+180, 8 m N of wallface	1348.0	2201	4.3	2250	5.5	97.8
	1154 200	MSE Wall 2B, 2 m W of MH	1348.0	2211	5.0	2250	5.5	98.3
	1155 200	MSE Wall 2B - N 6810739, E 439985	1348.0	2168	3.6	2250	5.5	96.4
	1156 200	MSE Wall 2B - N 6810754, E 439986	1348.0	2167	3.5	2250	5.5	96.3
	1157 200	MSE Wall 2B - N 6810756, E 439961	1348.0	2250	5.5	2250	5.5	100.0
2009/08/23	1158 200	MSE Wall 2B - 8 m N of face @ Sta 0+180	1348.0	2201	4.3	2250	5.5	97.8
	1159 200	MSE Wall 2B - 2 m W of MH	1348.0	2211	5.0	2250	5.5	98.3
	1160 200	MSE Wall 2B - N 6810736, E 439980	1348.5	2176	5.2	2250	5.5	96.7
	1161 200	MSE Wall 2B - N 6810763, E 439962	1348.5	2253	5.3	2250	5.5	100.1
	1162 200	MSE Wall 2B - N 6810816, E 439968	1348.5	2226	4.9	2250	5.5	98.9

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** _____ **Air:** _____ **°C Soil:** _____ **°C**
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/23	1163 200	MSE Wall 2B, N 6810815, E 439957	1348.5	2195	5.0	2250	6.5	97.6
	1164 200	MSE Wall 2B, N 6810806, E 439945	1348.5	2255	5.7	2250	6.5	100.2
	1165 200	MSE Wall 2B, N 6810816, E 439968	1348.5	2226	4.9	2250	6.5	98.9
	1166 200	MSE Wall 2B, N 6810815, E 439957	1348.5	2195	5.0	2250	6.5	97.6
	1167 200	MSE Wall 2B, N 6810806, E 439945	1348.5	2255	5.7	2250	6.5	100.2
2009/08/24	1168 200	MSE Wall 2B, N 6810742, E 439979	1349.5	2223	5.8	2250	6.5	98.8
	1169 200	MSE Wall 2B, N 6810752, E 439971	1349.5	2142	5.4	2250	6.5	95.2
	1170 200	MSE Wall 2B, N 6810761, E 439970	1349.5	2231	5.5	2250	6.5	99.2
	1171 200	MSE Wall 2B, N 6810810, E 439941	1349.5	2249	5.2	2250	6.5	100.0
	1172 200	MSE Wall 2B, N 6810790, E 439950	1349.5	2193	4.7	2250	6.5	97.5
	1173 200	MSE Wall 2B, N 6810790, E 439950	1349.5	2268	4.1	2250	6.5	100.8
	1174 200	MSE Wall 2B, N 6810782, E 439959	1349.5	2141	4.3	2250	6.5	95.2

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/25	1175 200	MSE Wall 2B, N 6810805, E 439936	1350.0	2249	6.4	2250	6.5	100.0
	1176 200	MSE Wall 2B, N 6810794, E 439934	1350.0	2184	5.7	2250	6.5	97.1
	1177 200	MSE Wall 2B, N 6810793, E 439945	1350.0	2207	6.1	2250	6.5	98.1
	1178 200	MSE Wall 2B, N 6810773, E 439963	1350.0	2274	6.2	2250	6.5	101.1
	1179 200	MSE Wall 2B, N 6810750, E 439977	1350.0	2235	6.2	2250	6.2	99.3
	1180 200	MSE Wall 2B, N 6810774, E 439957	1350.0	2144	5.6	2250	6.5	95.3
	1181 200	MSE Wall 2B, N 6810722, E 439992	1350.4	2373	5.1	2250	6.5	105.5
	1182 200	MSE Wall 2B, N 6810714, E 440042	1350.4	2237	5.3	2250	6.5	99.4
	1183 200	Rod Bin, N 6810715, E 440089	1356.0	2320	6.6	2250	6.5	103.1
	1184 200	Rod Bin, N 6810703, E 440044	1356.0	2197	7.0	2250	6.5	97.6
	1185 200	Rod Bin, N 6810725, E 440044	1356.0	2247	6.4	2250	6.5	99.9
	1175 200	Rod Bin, N 6810710, E 440034	1356.0	2279	5.7	2250	6.5	101.3

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/26	1187 200	Mill Bldg - 4m E A11, 2.1 m N of wall	1356.6	2251	3.5	2250	6.5	100.0
	1188 200	Mill Bldg - 2 m W A11, 2 m N of wall	1356.4	2161	5.9	2250	6.5	96.0
	1189 200	Mill Bldg - 2 m W A11, 2 m N of wall	1356.6	2262	5.7	2250	6.5	100.5
	1190 200	Rod Bin - N 6810695, E 440053	1355.6	2285	7.6	2250	6.5	101.6
	1191 200	Rod Bin - N 6810687, E 440051	1355.6	2269	5.5	2250	6.5	100.8
	1192 200	Rod Bin - N 6810711, E 440040	1355.6	2193	6.4	2250	6.5	97.5
2009/08/27	1193 200	Rod Bin, H3, 3 m E	1356.5	2166	3.7	2250	6.5	96.3
	1194 200	Rod Bin - Btwn H13 - H14, 1.0 m S of H3	1356.5	2159	3.8	2250	6.5	96.0
	1195 200	Rod Bin - 4 m W of H1 Brwn Line H11-H12 of Mill Bldg.	1356.5	2162	4.8	2250	6.5	96.1
	1196 200	Rod Bin - 2.8m E & 2.5 N of Mill Bldg Wall at A13	1356.8	2247	5.3	2250	6.5	99.9
	1197 200	Rod Bin - 4.3m E & 3.7m N of Mill Bldg Wall at A11	1356.7	2191	5.2	2250	6.5	97.4
	1198 200	Rod Bin - 0.3m E & 2m N of Mill Bldg Wall at A15	1357.1	2190	4.4	2250	6.5	97.3

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/27	1199 200	Mill Bldg - 4.5 m W, 0.2 S of A12	1356.6	2161	5.9	2250	6.5	96.0
	1200 200	Mill Bldg - btwn A12-B12, 2 m N of Line B	1356.6	2184	4.6	2250	6.5	97.1
	1201 200	MSE Wall 2B, N 6810733, E 439993	1351.6	2230	4.2	2250	6.5	99.1
	1202 200	MSE Wall 2B, N 6810743, E 439985	1351.6	2259	4.2	2250	6.5	100.4
	1203 200	MSE Wall 2B, N 6810755, E 439977	1351.6	2165	5.2	2250	6.5	96.2
	1204 200	Mill Bldg - Middle of Line A12-B12; 3.3 m N of B12.	1356.7	2171	7.3	2250	6.5	96.5
	1205 200	Rod Bin, N 6810715, E 440059	1357.0	2167	4.2	2250	6.5	96.3
	1206 200	Rod Bin, N 6810708, E 440050	1357.0	2293	6.1	2250	6.5	101.9
	1207 200	Rod Bin, N 6810718, E 440042	1356.7	2353	5.0	2250	6.5	104.6
	1208 200	Rod Bin, N 6810711, E 440057	1356.7	2177	5.4	2250	6.5	96.8
	1209 200	Rod Bin, N 6810708, E 440042	1356.8	2211	5.6	2250	6.5	98.3
	1210 200	Mill Bldg, 1.5 m E, 1.7 m S of A11	1356.7	2185	5.8	2250	6.5	97.1

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.**Copies:** _____**Reviewed By:** 

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/27	1211 200	Mill Bldg - 2 m N, 3.3 m E A12	1357.1	2251	6.2	2250	6.5	100.0
	1212 200	Mill Bldg - 2.2 m W, 2.7 m N of A13	1357.1	2254	6.3	2250	6.5	100.2
	1213 200	Mill Bldg - 0.6 m E of A15	1357.1	2216	5.6	2250	6.5	98.5
	1214 200	MSE Wall 2B - N 6810726, E 440000	1352.0	2258	6.6	2250	6.5	100.4
	1215 200	MSE Wall 2B - N 6810745, E 439980	1352.0	2195	7.3	2250	6.5	97.6
	1216 200	MSE Wall 2B - N 6810758, E 439983	1352.0	2254	4.8	2250	6.5	100.2
	1217 200	Mill Bldg - 4 m W, 0.2 m S of B12	1357.1	2150	5.4	2250	6.5	95.6
	1218 200	Mill Bldg - 5 m E; 1.8 m S of A11	1357.0	2236	4.8	2250	6.5	99.4
	1219 200	Mill Bldg - 5 m E; 5.2 m N of A11	1356.7	2353	5.0	2250	6.5	104.6
	1220 200	Mill Bldg - 4 m, 5.1 m W of A13	1358.1	2235	5.3	2250	6.5	99.3
	1221 200	Rod Bin - N 6810715, E 440061	1357.6	2294	6.4	2250	6.5	102.0
	1222 200	Rod Bin - N 6810707, E 440055	1357.9	2207	5.8	2250	6.5	98.1

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/08/27	1223 200	Rod Bin - N 6810711, E 440056	1357.9	2214	5.8	2250	6.5	98.4
	1224 200	Rod Bin - N 6810715, E 440039	1357.8	2183	8.5	2250	6.5	97.0
	1225 200	Rod Bin - N 6810723, E 440043	1357.4	2230	7.0	2250	6.5	99.1
	1226 200	Rod Bin - N 6810723, E 440044	1357.1	2181	5.2	2250	6.5	96.9
	1227 200	Mill Bldg - 3.8 m W, 2.4 m S of A15	1356.7	2180	6.6	2250	6.5	96.9
	1228 200	Mill Bldg - 3.9 m N, 0.1 m W of B15	1356.7	2200	8.7	2250	6.5	97.8
	1229 200	Rod Bin - N 6810710, E 440059	1357.5	2241	4.7	2250	6.5	99.6
	1230 200	Rod Bin - N 6810705, E 440050	1357.5	2339	5.1	2250	6.5	104.0
	1231 200	Rod Bin - N 6810709, E 440045	1357.5	2266	5.8	2250	6.5	100.7
	1232 200	Rod Bin - N 6810722, E 440038	1357.5	2266	5.3	2250	6.5	100.7

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/28	1233 200	Rod Bin - N 6810714, E 440033	1357.7	2316	5.1	2250	6.5	102.9
	1234 200	Rod Bin - N 6810723, E 440044	1357.7	2334	4.7	2250	6.5	103.7
	1235 200	Mill Bldg - 3 m W, 2.6 m N of A15	1357.5	2334	4.7	2250	6.5	103.7
	1236 200	Mill Bldg - 2 m W, 0.2 m N of A14	1357.5	2286	4.5	2250	6.5	101.6
	1237 200	Mill Bldg - 3.1 m E; 2.9 m N of A12	1357.5	2365	4.2	2250	6.5	105.1
	1238 200	Mill Bldg - 1.8 m W; 2.5 m N of B13	1357.4	2260	5.7	2250	6.5	100.4
	1239 200	Mill Bldg - 3.8 m W, 5 m N of A9	1357.6	2193	4.5	2250	6.5	97.5
	1240 200	Mill Bldg - 1m E, 2.8 m S of A14	1356.8	2259	5.4	2250	6.5	100.4
	1241 200	Mill Bldg - 2.3 m E; 2.0 m S of A13	1357.4	2215	8.3	2250	6.5	98.4
	1242 200	Mill Bldg - 3 m W, 4.1 m S of A15	1356.8	2169	3.6	2250	6.5	96.4
	1243 200	Mill Bldg - 3.4 m E; 4.6 m N of A8	1357.6	2194	5.0	2250	6.5	97.5
	1244 200	Mill Bldg - 0.1 m N of A8	1357.6	2163	4.4	2250	6.5	96.1

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.**Copies:** _____**Reviewed By:** 

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/08/28	1245 200	Mill Bldg - 2 m W, 0.2 m, S of A9	1357.4	2152	7.5	2250	6.5	95.6
	1246 200	Mill Bldg - 4 m W, 0.2 m S of A11	1357.4	2211	6.2	2250	6.5	98.3

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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ASTM Designation D2922 & D3017

Material Usage/Zone:

COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/28	1249 200	Mill Bldg - 4.1 m W, 1.8 m S of H12	1356.5	2190	7.1	2250	6.5	97.3
	1250 200	Mill Bldg - 1 m E, 1.6 m N of H11	1356.7	2200	5.7	2250	6.5	97.8
	1251 200	Mill Bldg - 3.4 m W, 1.8 m S of H10	1356.8	2232	6.3	2250	6.5	99.2
	1252 200	Mill Bldg - 2 m E, 2.5 m S of H8	1356.9	2155	3.5	2250	6.5	95.8
	1253 200	Mill Bldg - 4.2 m E, 2.8 m N of H13	1356.9	2225	6.6	2250	6.5	98.9
	1254 200	Mill Bldg - 3.3 m E, 3.0 m N of H12	1357.0	2254	5.2	2250	6.5	100.2
	1255 200	Mill Bldg - 3 m E, 1.9 m N of H11	1357.0	2265	8.4	2250	6.5	100.7
	1256 200	Mill Bldg - 0.5 m E, 2.7 m N of H10	1357.0	2216	6.4	2250	6.5	98.5
	1257 200	Mill Bldg - 1.7 m E, 2.0 m N of A8	1357.4	2199	7.4	2250	6.5	97.7
	1258 200	Mill Bldg - 4.1 m E, 2.3 m S of H8	1357.0	2217	5.2	2250	6.5	98.5
	1259 200	Mill Bldg - 3.6 m W, 3 m S of H10	1356.9	2297	5.7	2250	6.5	102.1
	1260 200	Mill Bldg - 2.1 m E, 2 m S of H10	1356.9	2285	5.4	2250	6.5	101.6

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.**Copies:****Reviewed By:** 

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/08/29	1261 200	Rod Bin - N 6810706, E 440042	1357.8	2308	4.9	2250	6.5	102.6
	1262 200	Rod Bin - N 6810724, E 440039	1357.8	2162	6.7	2250	6.5	96.1
	1263 200	Rod Bin - N 6810713, E 440044	1357.8	2199	5.0	2250	6.5	97.7
	1264 200	Rod Bin - N 6810715, E 440042	1357.8	2211	5.6	2250	6.5	98.3
	1265 200	Rod Bin - N 6810699, E 440041	1357.8	2278	5.6	2250	6.5	101.2
	1266 200	Mill Bldg - 2.4 m E, 3.1 m N of H8	1357.6	2225	7.0	2250	6.5	98.9
	1267 200	Mill Bldg - 2 m W, 2.6 m N of H11	1357.7	2163	6.4	2250	6.5	96.1
	1268 200	Mill Bldg - 2.1m E, 3.0 m N of H13	1357.6	2232	7.6	2250	6.5	99.2
	1269 200	Mill Bldg - 2.1 m W, 3.3 m N of H12	1357.7	2195	4.8	2250	6.5	97.6
	1270 200	Mill Bldg - 2 m E, 2.4 m S of H12	1357.0	2286	5.3	2250	6.5	101.6
	1271 200	Mill Bldg - 3.3 m W, 2.9 m N of H10	1357.7	2242	6.1	2250	6.5	99.6

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C Soil: _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/30	1272 200	MSE Wall 2B, 600 mm CSP N 6810798, E 439972	1352.0	2210	5.7	2250	6.5	98.2
	1273 200	MSE Wall 2B, 600 mm CSP N 6810801, E 439953	1351.9	2185	5.2	2250	6.5	97.1
	1274 200	MSE Wall 2B, 600 mm CSP N 6810796, E 439951	1351.7	2263	4.9	2250	6.5	100.6
	1275 200	MSE Wall 2B, 600 mm CSP N 6810802, E 539958	1351.7	2223	5.8	2250	6.5	98.8
	1276 200	MSE Wall 2B, 600 mm CSP N 6810796, E 439958	1351.9	2155	6.0	2250	6.5	95.8
	1277 200	MSE Wall 2B, 600 mm CSP N 6810800, E 439955	1352.0	2167	5.1	2250	6.5	96.3
	1278 200	Mill Bldg - 1.6 m E, 0.2 m S of H12	1355.4	2199	6.0	2250	6.5	97.7
	1279 200	Mill Bldg - 3.3 m E, 0.2 m S of H9	1355.4	2182	5.6	2250	6.5	97.0
	1280 200	Mill Bldg - 2.7 m E, 0.2 m S of H8	1355.4	2163	5.6	2250	6.5	96.1
	1281 200	Mill Bldg - 2.4 m W, 0.2 m S of H11	1355.4	2172	7.0	2250	6.5	96.5
	1282 200	Mill Bldg - 2 m E, 2.2 m S of H12	1355.8	2307	5.1	2250	6.5	102.5
	1283 200	Mill Bldg - 3 m E, 1 m S of H11	1356.1	2168	5.9	2250	6.5	96.4

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/30	1284 200	Mill Bldg - 2.3 m W, 0.2 m S of H10	1355.6	2184	6.8	2250	6.5	97.1
	1285 200	Mill Bldg - 1.9 m W, 0.9 m S of H9	1355.3	2151	5.9	2250	6.5	95.6
	1286 200	Mill Bldg - 1.5 m N of H12	1355.7	2155	4.4	2250	6.5	95.8
	1287 200	Mill Bldg - 3.1 m E, 1.1 m N of H13	1356.1	2175	5.0	2250	6.5	96.7
	1288 200	Mill Bldg - 1.8 m E, 1.2 m N of H9	1355.7	2152	5.9	2250	6.5	95.6
	1289 200	Mill Bldg - 3.1 m E, 1.1 m N of H11	1355.3	2145	6.0	2250	6.5	95.3
	1290 200	Mill Bldg - 3.5 m W, 1.0 m N of H9	1355.8	2228	6.9	2250	6.5	99.0
	1291 200	Mill Bldg - 1.4 m N of H15	1355.1	2142	6.1	2250	6.5	95.2
	1292 200	Mill Bldg - 2.5 m W, 0.1 m N of H15	1355.1	2137	6.0	2250	6.5	95.0
	1293 200	MSE Wall 2B, 600 mm CSP N6810798, E439972	1352.3	2181	5.4	2250	6.5	96.9
	1294 200	MSE Wall 2B, 600 mm CSP N6810796, E439958	1352.2	2196	5.5	2250	6.5	97.6
	1295 200	MSE Wall 2B, 600 mm CSP N6810800, E439955	1352.3	2224	6.0	2250	6.5	98.8

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND - some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/08/30	1296 200	MSE Wall 2B, 600 mm CSP N 6810793, E 439961	1352.2	2251	4.8	2250	6.5	100.0
	1297 200	MSE Wall 2B, 600 mm CSP N 6810786, E 43996	1351.8	2250	9.0	2250	6.5	100.0
	1298 200	MSE Wall 2B, 600 mm CSP N 6810796, E 439957	1351.6	2226	4.2	2250	6.5	98.9
	1299 200	MSE Wall 2B, 600 mm CSP N 6810760, E 439969	1351.6	2266	3.9	2250	6.5	100.7
	1300 200	MSE Wall 2B, MH N 6810791, E 439964	1351.6	2213	4.7	2250	6.5	98.4
	1301 200	MSE Wall 2B, MH N 6810781, E 439968	1351.9	2173	4.9	2250	6.5	96.6
	1302 200	MSE Wall 2B MH N 6810714, E 439965	1351.9	2199	4.8	2250	6.5	97.7
	1303 200	Mill Bldg - 2.5 m E, 1.9 m S of H12	1356.3	2192	4.9	2250	6.5	97.4
	1304 200	Mill Bldg - 2 m E, 1.1 m S of H8	1356.4	2171	3.7	2250	6.5	96.5
	1305 200	Mill Bldg - 1.3 m E, 3.2 m S of H9	1356.2	2165	5.7	2250	6.5	96.2
	1306 200	Mill Bldg - 0.2 m W, 2.3 m S of H10	1356.1	2210	4.8	2250	6.5	98.2
	1307 200	Mill Bldg - 4 m W, 1.6 m S of H12	1356.4	2207	4.0	2250	6.5	98.1

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.**Copies:** _____**Reviewed By:** 

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Consultants Ltd.**


COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/08/31	1308 200	MSE Wall 2B - 0.3 m E of MH	1354.1	2283	4.7	2250	6.5	101.5
	1309 200	MSE Wall 2B - 0.4 m W of MH	1354.1	2192	5.3	2250	6.5	97.4
	1310 200	MSE Wall 2B - 0.5 E of MH	1354.3	2270	5.1	2250	6.5	100.9
	1311 200	MSE Wall 2B - 0.2 m W of MH	1354.3	2320	4.1	2250	6.5	103.1

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND - some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/08/31	1312 200	Mill Bldg - 1.5 m W of Column H13	1356.5	2145	4.5	2250	6.5	95.3
	1313 200	Mill Bldg - 3.0 m W of Column H15	1356.5	2182	5.8	2250	6.5	97.0
	1314 200	Mill Bldg - 2 m S of Column H15	1356.5	2211	4.2	2250	6.5	98.3
	1315 200	Mill Bldg - 2.5 m E of H15	1356.5	2200	6.2	2250	6.5	97.8
	1316 200	Mill Bldg - 0.5 m S of Column H8	1356.5	2176	4.5	2250	6.5	96.7
	1317 200	Mill Bldg - 0.5 m S of Column H10	1356.5	2232	4.5	2250	6.5	99.2
	1318 250	Mill Bldg - 0.5 m W; 1 m S of H12	1357.5	2196	6.8	2250	6.5	97.6
	1319 250	Mill Bldg - 2 m N from Middle of Line H8-H9	1357.5	2174	6.4	2250	6.5	96.6
	1320 250	Mill Bldg - 1/2 way Line H9-H10; 2 m N	1357.5	2165	8.1	2250	6.5	96.2
	1321 250	Mill Bldg - Middle of Line H10-H11 and 1.8 m N	1357.5	2158	5.6	2250	6.5	95.9
	1322 250	Mill Bldg - 2 m N from Middle of Line H11-H12	1357.5	2167	5.3	2250	6.5	96.3
	1323 250	Mill Bldg - 0.7 m N of H13	1357.5	2200	5.7	2250	6.5	97.8

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** _____ **Air:** _____ **°C Soil:** _____ **°C**
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/09/01	1324 250	Mill Bldg - H12, 2 m West	1356.7	2255	4.3	2250	6.5	100.2
2009/09/01	1325 250	Mill Bldg - H10-H9, 1 m N	1356.7	2304	5.8	2250	6.5	102.4
2009/09/01	1326 200	MSE Wall 2B - weeping tile N 6810795, E 439972	1355.2	2242	5.5	2250	6.5	99.6
2009/09/01	1327 200	MSE Wall 2B - weeping tile N 6810794, E 439967	1354.7	2278	7.0	2250	6.5	101.2
2009/09/01	1328 200	MSE Wall 2B - weeping tile N 6810814, E 439979	1355.0	2223	5.9	2250	6.5	98.8
2009/09/01	1329 200	Mill Bldg - 0.3 m E, 3.0 S of H8	1357.1	2269	6.6	2250	6.5	100.8
2009/09/01	1330 200	Mill Bldg - 1.8 m E, 2.2 m S of H11	1357.0	2234	6.5	2250	6.5	99.3
2009/09/01	1331 200	Mill Bldg - 3.0 E, 1.4 m S of H9	1357.1	2217	6.0	2250	6.5	98.5
2009/09/01	1332 200	Mill Bldg - 2.9 m E, 6.1 m S of H10	1357.5	2161	4.4	2250	6.5	96.0
2009/09/01	1333 200	Mill Bldg - 1.2 m W, 0.1 m S of H12	1357.1	2193	7.1	2250	6.5	97.5
2009/09/01	1334 200	Mill Bldg - 2.0 m S, 2.5 m E of G15	1355.9	2282	5.0	2250	6.5	101.4
2009/09/01	1335 200	Mill Bldg - 1.0 m N, 0.4 m E of H15	1355.8	2196	4.3	2250	6.5	97.6

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/09/01	1336 200	Mill Bldg - 1.1 m S, 0.5 m E of G15	1355.9	2198	4.4	2250	6.5	97.7
2009/09/01	1337 200	Mill Bldg - 1.2 m N, 4.6 m E of G15	1356.0	2304	4.7	2250	6.5	102.4
2009/09/01	1338 200	Mill Bldg - 2.4 m S of H15	1355.4	2231	4.9	2250	6.5	99.2
2009/09/01	1339 200	Mill Bldg - 2.6 m E, 1.5 m N of H14	1355.4	2264	4.3	2250	6.5	100.6
2009/09/01	1340 200	Mill Bldg - 1.3 m S, 3.2 m W of G15	1355.5	2278	5.9	2250	6.5	101.2
2009/09/01	1341 200	Mill Bldg - 3.7 m E, 1.0 m S of H15	1355.4	2241	4.5	2250	6.5	99.6
2009/09/01	1342 200	Mill Bldg - 3.5 m W, 2.6 m S of H6	1357.8	2174	4.7	2250	6.5	96.6
2009/09/01	1343 200	Mill Bldg - 1.1 m E, 1.5 m S of H7	1357.3	2202	5.3	2250	6.5	97.9
2009/09/01	1344 200	Mill Bldg - 3.9 m E, 2.5 m S of H9	1357.0	2176	4.6	2250	6.5	96.7
2009/09/01	1345 200	Mill Bldg - 3.7 m W, 1.4 m S of H11	1357.0	2157	5.4	2250	6.5	95.9

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Specified Compaction: 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** _____ **Air:** _____ **°C Soil:** _____ **°C**
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/09/01	1346 200	Mill Bldg - 4 m W, 2.4 m S of H12	1357.0	2254	5.3	2250	6.5	100.2
2009/09/01	1347 200	Mill Bldg - 3 m W, 0.2 m S of H11	1357.0	2173	6.6	2250	6.5	96.6
2009/09/01	1348 200	Mill Bldg - 3.9 m E, 0.3 m S of H9	1357.0	2170	6.2	2250	6.5	96.4
2009/09/01	1349 200	MSE Wall 2B, on weeping tile N 6810792, E 439969	1354.9	2284	5.5	2250	6.5	101.5
2009/09/01	1350 200	MSE Wall 2B, on weeping tile N 6810799, E 439965	1354.9	2329	5.3	2250	6.5	103.5
2009/09/01	1351 200	Mill Bldg - 1 m N, 6.2 m E of G15	1356.6	2264	5.3	2250	6.5	100.6
2009/09/01	1352 200	Mill Bldg - 2 m N, 7 m E of H15	1356.6	2214	5.4	2250	6.5	98.4
2009/09/01	1353 200	Mill Bldg - 1 m S, 3.3 m E of H15	1356.3	2185	6.2	2250	6.5	97.1
2009/09/01	1354 200	Mill Bldg - 2.4 m N, 1.3 m E of H15	1356.3	2146	5.5	2250	6.5	95.4
2009/09/01	1355 200	Mill Bldg - 0.4 m N, 2.3 m E of G15	1356.3	2245	5.0	2250	6.5	99.8
2009/09/01								
2009/09/01								

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zine Corp. **Temperature** **Air:** _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/09/01	1356 200	Mill Bldg - 0.2 m E, 4.6 m N of H14	1356.1	2304	6.8	2250	6.5	102.4
2009/09/01	1357 200	Mill Bldg - 3.0 m E, 2.2 m N of H14	1355.4	2218	5.8	2250	6.5	98.6
2009/09/01	1358 200	Mill Bldg - 1.5 m W; 2.8 m S of G15	1355.4	2360	5.6	2250	6.5	104.9
2009/09/01	1359 200	Mill Bldg - 0.3 m S, 4.6 m W of G15	1355.4	2332	4.6	2250	6.5	103.6
2009/09/01	1360 200	Mill Bldg - 2.0 m S of H15	1356.1	2143	5.9	2250	6.5	95.2
2009/09/01	1361 200	Mill Bldg - 2.7 m W, 3.1 m S of H15	1356.1	2158	4.6	2250	6.5	95.9
2009/09/01	1362 200	Mill Bldg - 0.5 m W, 5.8 m N of H14	1356.4	2318	4.2	2250	6.5	103.0
2009/09/01	1363 200	Mill Bldg - 1.8 m W, 6.2 m N of H13	1356.4	2225	5.2	2250	6.5	98.9
2009/09/01	1364 200	Mill Bldg - 3.5 m W, 3.1 m S of G13	1356.4	2302	4.2	2250	6.5	102.3
2009/09/01	1365 200	Mill Bldg - 2.8 m N of H12	1356.4	2314	5.3	2250	6.5	102.8
								
								

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Specified Compaction: 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C Soil: _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

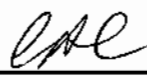
Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. E lev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/09/01	1366 200	Mill Bldg - 2.0 m W, 2.9 m N of H11	1356.4	2383	3.7	2250	6.5	105.9
2009/09/01	1367 200	Mill Bldg - 1.8 m W; 4.3 m S of G11	1356.4	2345	4.5	2250	6.5	104.2
2009/09/01	1368 200	Mill Bldg - 4 m E; 1.3 m N of H11	1356.4	2244	5.1	2250	6.5	99.7
2009/09/01	1369 200	Mill Bldg - 3.3 m E; 2.6 m N of H9	1356.4	2257	5.2	2250	6.5	100.3
2009/09/01	1370 200	Mill Bldg - 5.2 m N of H9	1356.4	2226	7.6	2250	6.5	98.9
2009/09/01	1371 200	Mill Bldg - 2 m N of H8	1356.4	2176	5.5	2250	6.5	96.7
2009/09/01	1372 200	Mill Bldg - 3.2 m E; 0.3 m N of H7	1356.4	2210	6.8	2250	6.5	98.2
2009/09/01	1373 200	Mill Bldg - 3.5 m W, 0.5 m W of H9	1356.4	2320	4.8	2250	6.5	103.1
2009/09/01	1374 200	Mill Bldg - 3 m E; 0.4 m N of H11	1356.4	2173	6.0	2250	6.5	96.6

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** **Air:** _____ **°C Soil:** _____ **°C**
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/09/02	1375 200	MSE Wall 2B - 600 mm CSP N6810816, E439965	1352.4	2145	5.9	2250	6.5	95.3
2009/09/02	1376 200	MSE Wall 2B - 600 mm CSP N6810801, E439934	1353.0	2155	6.4	2250	6.5	95.8
2009/09/02	1377 200	MSE Wall 2B - 600 mm CSP N6810815, E439941	1352.7	2221	5.3	2250	6.5	98.7
2009/09/02	1378 200	MSE Wall 2B - 600 mm CSP N6810798, E439936	1352.8	2202	6.3	2250	6.5	97.9
2009/09/02	1379 200	MSE Wall 2B - 600 mm CSP N6810822, E439947	1352.4	2171	6.5	2250	6.5	96.5
2009/09/02	1380 200	MSE Wall 2B - MH N6810782, E439955	1355.5	2184	6.4	2250	6.5	97.1
2009/09/02	1381 200	MSE Wall 2B - MH N6810774, E439959	1355.6	2212	7.6	2250	6.5	98.3
2009/09/02	1382 200	MSE Wall 2B - 600 mm CSP N6810821, E439939	1352.4	2207	6.2	2250	6.5	98.1
2009/09/02	1383 200	MSE Wall 2B - 600 mm CSP, N6810813, E433927	1352.7	2209	6.2	2250	6.5	98.2

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C Soil: _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt MC %	Comp % SPD
2009/09/02	1384 200	MSE Wall 2B - 600 mm, CSP N6810816, E439946	1353.0	2212	6.0	2250	6.5	98.3
2009/09/02	1385 200	MSE Wall 2B - 600 mm, CSP N6810807, E439955	1353.1	2145	7.8	2250	6.5	95.3
2009/09/02	1386 200	MSE Wall 2B - 600 mm CSP N6810819, E439945	1353.2	2232	5.5	2250	6.5	99.2
2009/09/02	1387 200	MSE Wall 2B - 600 mm CSP N6810812, E439950	1352.5	2357	4.6	2250	6.5	104.8
2009/09/02	1388 200	MSE Wall 2B - 0.4 m E of MH	1356.2	2246	7.0	2250	6.5	99.8
2009/09/02	1389 250	MSE Wall 2B - 0.4 m S of MH	1356.2	2224	6.7	2250	6.5	98.8
2009/09/02	1390 250	MSE Wall 2B - 0.3 m W of MH	1356.3	2205	6.9	2250	6.5	98.0
2009/09/02	1391 250	MSE Wall 2B - 600 mm CSP, N6810811, E439944	1352.4	2261	6.1	2250	6.5	100.5
2009/09/02	1392 250	MSE Wall 2B - N6810807, E433952	1352.5	2215	6.3	2250	6.5	98.4
2009/09/02	1393 250	MSE Wall, 2B, N6810815, E439952	1353.1	2180	6.1	2250	6.5	96.9

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/09/02	1394 200	MSE Wall 2B - 600 mm CSP N6810817, E439953	1353.3	2206	6.7	2250	6.5	98.0
2009/09/02	1395 200	MSE Wall 2B - 600 mm CSP N6810804, E439949	1353.3	2204	5.1	2250	6.5	98.0
2009/09/02	1396 200	MSE Wall 2B - 600 mm, CSP N6810817, E439949	1353.3	2290	5.8	2250	6.5	101.8
2009/09/02	1397 200	MSE Wall 2B - 600 mm CSP, N6810803, E439956	1353.2	2276	6.7	2250	6.5	101.2
2009/09/02	1398 200	MSE Wall 2B - 600 mm CSP N6810812, E439950	1353.2	2257	6.3	2250	6.5	100.3
2009/09/02	1399 200	MSE Wall 2B - 0.5 m W of MH	1356.6	2179	6.4	2250	6.5	96.8
2009/09/02	1400 200	MSE Wall 2B - 0.3 m E of MH	1356.6	2260	5.2	2250	6.5	100.4
2009/09/02	1401 200	MSE Wall 2B - 600 mm CSP N6810806, E439964	1353.9	2219	5.5	2250	6.5	98.6
2009/09/02	1402 200	MSE Wall 2B - 600 mm CSP N6810806, E439964	1353.9	2229	5.7	2250	6.5	99.1
2009/09/02	1403 200	MSE Wall 2B - 600 mm CSP N6810803, E439949	1353.9	2222	6.0	2250	6.5	98.8
2009/09/02	1404 200	MSE Wall 2B - 600 mm CSP N6810808, E439943	1353.9	2160	4.6	2250	6.5	96.0
2009/09/02	1405 200	MSE Wall 2B - 600 mm CSP N06810808, E439943	1353.9	2212	6.9	2250	6.5	98.3

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

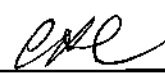
Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/09/15	1406 200	French Drain at Mill Pad, 0.2 m N of CSP/Sump	1357.1	2272	6.1	2250	6.5	101.0
2009/09/15	1407 200	French Drain at Mill Pad, 0.4 m S of CSP/Sump	1357.1	2232	7.6	2250	6.5	99.2
2009/09/15	1408 200	French Drain at Mill Pad; 0.4 m W of CSP/Sump	1357.3	2260	7.6	2250	6.5	100.4
2009/09/15	1409 200	French Drain at Mill Pad, 35 m W of CSP/Sump	1357.0	2354	6.8	2250	6.5	104.6
2009/09/15	1410 200	French Drain Sump/CSP, 45 m W of CSP/Sump	1357.0	2308	4.6	2250	6.5	102.6
2009/09/15	1411 200	km 15 Access Rd; Sta 0+12.5; 0.5 m W CSP	-2.3	2388	7.4	2380	7.8	100.3
2009/09/15	1412 200	km 15, Access Rd; Sta 0+12.5; 0.1 m E CSP	-2.3	2324	7.6	2380	6.5	97.6
2009/09/15	1413 200	French Drain at Mill Pad N6810751, E440131	1357.2	2237	6.2	2380	7.8	94.0
2009/09/15	1414 200	French Drain at Mill Pad, N6810767, E44123.3	1356.9	2140	7.7	2250	6.5	95.1
2009/09/15	1415 200	French Drain at Mill Pad, 0.4 m N of Sump/CSP	1357.5	2301	6.6	2380	7.8	96.7

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C Soil: _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zonc: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/09/16	1416 200	km 15 Access Rd. - 1200 mm CSP, N6808655, E448043	1244.7	2271	5.5	2380	10	95.4
2009/09/16	1417 200	km 15 Access Rd. - 1200 mm CSP, N6808635, E448023	1244.7	2344	7.6	2380	10	98.5
2009/09/16	1418 200	km 15 Access Rd. - 1200 mm CSP, N6808641, E448029	1242.7	2268	9.8	2380	10	95.3
2009/09/16	1419 200	km 15 Access Rd. - 1200 mm CSP, N6808641, E448027	1243.2	2307	6.2	2380	10	96.9
2009/09/16	1420 200	km 15 Access Rd. - 1200 mm CSP, N6808638, E448023	1245.3	2290	6.7	2380	10	96.2
2009/09/16	1421 200	French Drain at Mill Pad, N6810698, E440162	1357.8	2303	5.6	2250	6.5	102.4
2009/09/16	1422 200	French Drain at Mill Pad, N6810700, E440161	1357.8	2348	6.5	2380	10	98.7
2009/09/16	1423 200	Mill Bldg - 0.1 m E of Mid-line A15-B15, N6810700, E440161	1357.1	2358	6.9	2380	10	99.1
2009/09/16	1424 200	Mill Bldg - 1.4 m E of mid-way Line B15-C15 - N6810700, E440161	1357.2	2304	6.1	2250	6.5	102.4
2009/09/16	1425 200	Mill Bldg - outside of Bldg at E15, N6810700, E440161	1357.3	2313	7.4	2250	6.5	102.8
2009/09/16	1426 200	km 15 Access Rd. - N6807957, E447290	1357.3	2304	10.9	2380	10	96.8
2009/09/16	1427 200	km 15 Access Rd. - N6807931, E447272	1357.3	2326	10.2	2380	10	97.7

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zonc: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/09/16	1428 200	km 15 Access Rd., N6807869, E447223	1357.3	2296	10.7	2380	10	96.5
2009/09/16	1429 200	km 15 Access Rd., N6807836, E447181	1357.3	2336	8.3	2380	10	98.2
2009/09/16	1430 200	km 15 Access Rd. - 1200 mm CSP, N6807642, E448021	1357.3	2261	8.7	2380	10	95.0
2009/09/16	1431 200	km 15 Access Rd. - 1200 mm CSP, N6808624, E448025	1357.3	2363	7.5	2380	10.8	99.3
2009/09/16	1432 200	km 15 Access Rd. - 1200 mm CSP, N6808651, E448024	1245.3	2326	6.7	2380	10.8	97.7
2009/09/16	1433 200	km 15 Access Road - 1200 mm CSP, N6808629, E448032	1245.3	2278	7.5	2380	10.8	95.7
2009/09/16	1434 200	km 15 Access Road - 1200 mm CSP, N6808644, E448019	1245.3	2290	5.8	2380	10.8	96.2
2009/09/16	1435 200	Mill Bldg - 1.0 m N, 2.1 m E of B15, N6808644, E448019	1357.5	2311	3.6	2250	6.5	102.7
2009/09/16	1436 200	French Drain at Mill Pad, N6810778, E440114	1357.5	2344	5.3	2250	6.5	104.2
2009/09/16	1437 200	French Drain at Mill Pad, N6810747, E440128	1357.5	2219	7.6	2250	6.5	98.6
2009/09/16	1438 200	Mill Bldg - 2.2 m N, 1.9 m E of D15 N6810747, E440128	1357.5	2231	3.0	2250	6.5	99.2
2009/09/16	1439 200	Mill Bldg - 4.0 m N, 2.6 m E of E15 N6810747, E440128	1357.5	2187	4.5	2250	6.5	97.2

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** _____ **Air:** _____ **°C Soil:** _____ **°C**
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/09/17	1440 200	Mill Bldg - 2.7 m N B15, 1.8 m E, N6810747, E440128	1357.4	2276	5.7	2250	6.5	101.2
2009/09/17	1441 200	Mill Bldg - 1.8 m S C15, 0.7 m E, N6810747, E440128	1357.4	2256	4.4	2250	6.5	100.3
2009/09/17	1442 200	Mill Bldg - 1.0 m N D15, 4.0 m W, N6810747, E440128	1356.1	2258	4.0	2250	6.5	100.4
2009/09/17	1443 200	Mill Bldg - 3.0 m N E15, 5.0 m W, N6810747, E440128	1356.1	2267	5.1	2250	6.5	100.8
2009/09/17	1444 200	French Ditch at Mill Bldg N6810787, E440107	1357.7	2332	4.2	2250	6.5	103.6
2009/09/17	1445 200	French Ditch at Mill Bldg N6810773, E440123	1357.7	2332	6.1	2360	10	98.8
2009/09/17	1446 200	French Ditch at Mill Bldg N6810763, E440119	1358.0	2325	5.2	2360	10	98.5
2009/09/17	1447 200	French Ditch at Mill Bldg N6810783, E440110	1358.0	2194	7.3	2250	6.5	97.5
2009/09/17	1448 200	km 14 Access Road - - N68108589, E447964	1358.0	2326	6.1	2360	10	98.6
2009/09/17	1449 200	km 14 Access Road - - N68108626, E448032	1358.0	2267	5.8	2250	6.5	100.8
2009/09/18	1450 200	km 14 Access Road - - N6808625, E448009	1358.0	2318	7.0	2380	10.8	97.4
2009/09/18	1451 200	km 14 Access Road - - N6808662, E448042	1358.0	2270	5.9	2380	10.8	95.4

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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ASTM Designation D2922 & D3017

Material Usage/Zone:



COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: <u>QA Testing</u>	Test Apparatus: <u>Nuclear</u>	Troxler No: <u>60841</u>
Wolverine Lake Mine, YT	Specified Compaction: <u>98</u> % Std. Proctor Max. Dry Density	
Project No.: <u>W14101095.005</u>	Specified Moisture (MC): _____	
Client: <u>Yukon Zinc Corp.</u>	Temperature _____ Air: _____ °C Soil: _____ °C	
Attention: <u>Chiu Yiu</u>	Date Tested: <u>See below</u>	By: <u>RC/MI</u>
Contractor: <u>Arctic Construction</u>	Construction Period: <u>April 22nd to Dec 19th, 2009</u>	

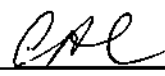
Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/09/19	1464 200	French Drain Ditch at Mill Pad, N6810824, E440051	1357.7	2224	4.5	2250	6.5	98.8
2009/09/19	1465 200	French Drain Ditch at Mill Pad, N6810832, E440037	1357.7	2308	5.5	2250	6.5	102.6
2009/09/19	1466 200	Mill Bldg - Ditch 1 m W Sump/CSP, N6810849, E440029	1357.7	2266	4.9	2250	6.5	100.7
2009/09/19	1467 200	French Drain Ditch at Mill Pad, N6810787, E440095	1357.7	2241	7.7	2250	6.5	99.6
2009/09/19	1468 200	French Drain Ditch at Mill Pad, N6810789, E440077	1357.7	2283	7.3	2310		98.8
2009/09/19	1469 200	French Drain Ditch at Mill Pad, N6810838, E440050	1357.7	2319	4.3	2310		100.4
2009/09/19	1470 200	French Drain Ditch at Mill Pad, N6810851, E440035	1357.7	2243	6.1	2310		97.1
2009/09/19	1471 200	Crusher Bldg Pad - 0.3 m N of A2	1340.3	2266	8.7	2310		98.1
2009/09/19	1472 200	Crusher Bldg Pad - 0.6 m N of A4	1340.3	2142	7.0	2310		92.7
2009/09/20	1473 200	French Drain Ditch at Mill Pad, N6810716, E440152	1357.9	2423	6.2	2310		104.9
2009/09/20	1474 200	French Drain Ditch at Mill Pad, N6810741, E440149	1357.9	2331	4.9	2310		100.9
2009/09/20	1475 200	Mill Bldg - 2.0 m N, 3.0 m W of F15	1356.8	2302	5.6	2310		99.7

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/09/20	1476 200	Mill Bldg - 0.3 m S, 4.0 m W of D15	1356.9	2270	6.3	2310		98.3
2009/09/20	1477 200	Mill Bldg - 3.5 m S, 3.7 m W of D15	1357.1	2217	4.9	2250	6.5	98.5
2009/09/20	1478 200	Mill Bldg - 3.0 m N, 1.5 m W of F15	1357.1	2205	5.5	2250	6.5	98.0
2009/09/20	1479 200	Crusher Bldg Pad, 4 m E of Line 1.1 & 2 m N of Line A	1340.4	2146	8.9	2250	6.5	95.4
2009/09/22	1480 200	Mill Bldg - 4.1 m W of F15	1357.2	2333	5.4	2310		101.0
2009/09/22	1481 200	Mill Bldg - 2.4 m S, 3.7 m W of E15	1357.2	2163	3.7	2250	6.5	96.1
2009/09/22	1482 200	km 14 Access Rd - N6808613, E448034	1357.2	2351	6.6	2310		101.8
2009/09/22	1483 200	km 14 Access Rd - N6808634, E448018	1357.2	2386	5.9	2310		103.3
2009/09/22	1484 200	Genset Pad - N6810857, E439939	1357.2	2342	2.6	2310		101.4
2009/09/22	1485 200	Genset Pad - N6810853, E439929	1357.2	2220	3.2	2310		96.1
2009/09/22	1486 200	Mill Bldg - 3.0 m W, 0.4 m N of H11	1357.2	2259	6.7	2310		97.8
2009/09/22	1487 200	Mill Bldg - 2.6 m W, 1.0 m N of H10	1357.2	2269	66.0	2310		98.2

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C Soil: _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt**Material Usage/Zone:** _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/09/22	1488 200	Mill Pad, 2.2 m E H8, 0.2 m N	1357.2	2326	7.7	2310		100.7
2009/09/22	1489 200	Mill Pad, 4.0 m W H7, 1.1 m N I/S	1357.2	2327	6.9	2310		100.7
2009/09/22	1490 200	Procon Pad - N6810846, E439853	1354.0	2395	3.8	2310		103.7
2009/09/22	1491 200	Procon Pad - N6810866, E439838	1354.0	2418	5.0	2310		104.7
2009/09/22	1492 200	Genset Pad - N6810856, E439930	1354.0	2357	3.6	2310		102.0
2009/09/22	1493 200	Genset Pad - N6810863, E439939	1354.0	2226	4.7	2310		96.4
2009/09/23	1494 200	Mill Bldg - 1.2 m N of mid-of-line H1-H2	1357.3	2271	4.9	2310		98.3
2009/09/23	1495 200	Mill Bldg - 0.6 m N of mid-of-line H3-H4	1357.3	2309	4.8	2310		100.0
2009/09/23	1496 200	Mill Bldg - 2.0 m E of mid-of-line F2-G2	1357.4	2202	4.8	2310		95.3
2009/09/23	1497 200	Mill Bldg - 1.1 m S of mid-of-line G3-G4	1357.4	2295	3.8	2310		99.4
2009/09/23	1498 200	Mill Bldg - 2.1 m N of mid-of-line F4-G4	1357.4	2252	4.9	2310		97.5
2009/09/23	1499 200	Mill Bldg - 0.1 m N, 2.1 m E of H3	1357.3	2235	5.5	2310		96.8

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.**Copies:** _____**Reviewed By:** PAC

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Consultants Ltd.**


COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/09/23	1500 200	Mill Bldg - 1.8 m W, 0.1 m N of G6	1357.3	2296	4.8	2310		99.4
2009/09/23	1501 200	Mill Bldg - 1.4 m E, 2.0 m S of G1	1357.3	2339	5.6	2310		101.3
2009/09/23	1502 200	Mill Bldg - 3 m E of H10, 2.6 m S of line G	1357.3	2198	4.3	2310		95.2
2009/09/23	1503 200	Gen-set Pad - N6810865, E439944	1354.0	2316	2.5	2310		100.3
2009/09/23	1504 200	km 14 Access Road - N6808576, E447591	1260.0	2357	7.3	2380		99.0
2009/09/23	1505 200	km 14 Access Road - N6808662, E448051	1251.0	2416	7.7	2380		101.5
2009/09/23	1506 200	km 14 Access Road - N6808633, E448021	1252.0	2343	8.0	2380		98.4
2009/09/23	1507 200	km 14 Access Road - N6808604, E447986	1254.0	2322	6.2	2380		97.6
2009/09/23	1508 200	Genset Pad - N6810867, E439940	1354.0	2270	3.6	2310		98.3
2009/09/23	1509 200	CLO - 2.5 m N, 2.5 m W of D6	1357.6	2201	6.6	2310		95.3
2009/09/23	1510 200	CLO - 3.4 m N, 0.1 m W of E6	1357.6	2272	7.3	2310		98.4
2009/09/23	1511 200	CLO - 3.8 m N, 3.1 m W of G6	1357.6	2310	5.5	2310		100.0

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: <u>QA Testing</u>	Test Apparatus: <u>Nuclear</u>	Troxler No: <u>60841</u>
<u>Wolverine Lake Mine, YT</u>	Specified Compaction: <u>98</u> % Std. Proctor Max. Dry Density	
Project No.: <u>W14101095.005</u>	Specified Moisture (MC): _____	
Client: <u>Yukon Zinc Corp.</u>	Temperature <u>Air:</u> _____ °C Soil: _____ °C	
Attention: <u>Chiu Yiu</u>	Date Tested: <u>See below</u>	By: <u>RC/MI</u>
Contractor: <u>Arctic Construction</u>	Construction Period: <u>April 22nd to Dec 19th, 2009</u>	

Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/09/23	1512 200	CLO - 1.8 m N 4.2 m W of G6	1357.6	2273	5.9	2310		98.4
2009/09/23	1513 200	CLO - 3 m E, 2.6m N of G4	1357.6	2156	5.1	2250		95.8
2009/09/23	1514 200	Mill Bldg - btwn F2-G2, 1.1 m W of Line 2	1357.6	2182	10.0	2250		97.0
2009/09/23	1515 200	Mill Bldg - 1 m S, 4 m E of G3	1357.6	2220	9.8	2250		98.7
2009/09/23	1516 200	Mill Bldg - 1 m N, 3.5 m E of H9	1357.6	2231	5.3	2250		99.2
2009/09/23	1517 200	Mill Bldg - 0.5 m N, 1.3 m W of H5	1357.6	2320	5.4	2310		100.4
2009/09/23	1518 200	Mill Bldg - 0.1 m S of G6, 2 m E of line 6	1357.6	2347	4.6	2310		101.6
2009/09/23	1519 200	Mill Bldg - 0.2 m N, 2.4 m W of H8	1357.6	2257	5.7	2310		97.7
2009/09/23	1520 200	Mill Bldg - 0.2 m N; middle of Line G10-G11	1357.6	2315	5.7	2310		100.2
2009/09/24	1521 200	Mill Bldg - 1 m S, 1.5 m E of F7	1357.7	2399	5.0	2310		103.9
2009/09/24	1522 200	Mill Bldg - middle of F4-G4, line 4	1357.7	2426	5.5	2310		105.0
2009/09/24	1523 200	Mill Bldg - Middle of Line H2-F2	1357.7	2198	4.9	2310		95.2

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/09/24	1524 200	Mill Bldg - 2 m W, 0.5 m N of H7	1357.7	2372	5.9	2310		102.7
2009/09/24	1525 200	Mill Bldg - 2.5 m E, 1.0 m N of H4	1357.7	2262	5.8	2310		97.9
2009/09/24	1526 200	Mill Bldg - 1 m S, 0.5 m E of G2	1357.7	2202	5.6	2310		95.3
2009/09/25	1527 200	CLO - by D6 column, on ground wire trenches	1357.5	2195	7.4	2310		95.0
2009/09/25	1528 200	CLO - Line D5-D4, 7 m E of Line 2, on ground wire trenches	1357.5	2198	5.7	2310		95.2
2009/09/25	1529 200	CLO - 2 m E of D4, 10 m W of D6	1357.8	2145	8.1	2250		95.3
2009/09/25	1530 200	CLO - 3 m S, 1 m E of A2	1354.7	2228	5.1	2250		99.0
2009/09/25	1531 200	CLO - 0.5 m N of D2, at wall jog-in	1354.7	2245	5.6	2250		99.8
2009/09/25	1532 200	CLO - 1 m N, 2 m E of F2	1354.7	2143	5.6	2250		95.2
2009/09/25	1533 200	CLO - Line D4, Line 2 @ jog	1354.7	2245	5.6	2250		99.8
2009/09/25	1534 200	CLO - Line D4, Line 2 @ jog	1354.7	2145	5.3	2250		95.3
2009/09/25	1535 200	km 16.1 Access Rd. @ culvert, N side C.L. of road	minus 1 m	2024	7.6	2100		96.4

Remarks: Bedding Mat (screened) around CSP was tested at a value of 2100 kg/m³ for density
Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/09/25	1536 200	km 16.1 Access Rd. @ culvert; 2 m W of E outflow	minus 1.2 m	2003	7.2	2100		95.4
2009/09/25	1537 200	km 16.1 Access Rd. @ S side of culvert, 2 m W of E outflow	minus 1.2 m	2049	7.1	2100		97.6
2009/09/25	1538 200	km 16.1 Access Rd; S side of culvert, 12 m W of E outflow	minus 1 m	2003	7.6	2100		95.4
2009/09/25	1539 200	CLO - 3 m S, 1 m E of A2	300 mm above ftg	2228	5.1	2250		99.0
2009/09/26	1540 300	Mill Bldg - 1.5 m S of F13	1357.7	2200	4.8	2310		95.2
2009/09/26	1541 200	Rod Mill Feed Bin - 0.8 m W of H1	1349.8	2246	2.3	2310		97.2
2009/09/26	1542 200	Rod Mill Feed Bin - 2.4 m N, 1 m W of H3	1349.8	2384	5.3	2310		103.2
2009/09/26	1543 200	Rod Mill Feed Bin - 0.6 m E of H2	1349.8	2301	3.3	2310		99.6
2009/09/26	1544 200	Rod Mill Feed Bin -0.5 m S; btwn 12A & 13A	1349.8	2264	3.2	2310		98.0
2009/09/26	1545 200	Mill Bldg - 2.5 m W of F2	1357.7	2197	4.4	2310		95.1
2009/09/26	1546 200	CLO - 2 m S, 0.8 m W of A2	1355.6	2289	5.6	2310		99.1
2009/09/26	1547 200	CLO - 2.1 m S, 0.8 m W of F2	1355.6	2198	5.7	2310		95.2

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/09/26	1548 200	CLO - btwn B2 & C2, 0.8 m E of line 2	1355.6	2216	6.0	2310		95.9
2009/09/26	1549 250	CLO - 0.3 m E; 2, 3 m N of G2	1355.6	2249	6.3	2310		97.4
2009/09/26	1550 250	Rod Mill Feed Bin - 0.8 m N of H2, 1 m W of 12A	1355.7	2293	4.0	2310		99.3
2009/09/26	1551 250	Mill Bldg - 2.5 m E of F2	1357.6	2336	6.3	2310		101.1
2009/09/26	1552 250	Mill Bldg - 2 m E of F4	1357.6	2198	5.1	2310		95.2
2009/09/27	1553 200	CLO - 1.4 m S of Line A, 2 m W of line 2	1355.5	2138	6.6	2250		95.0
2009/09/27	1554 200	CLO - 1.4 m W of 2D	1355.5	2213	5.8	2250		98.4
2009/09/27	1555 200	CLO - at G2	1355.8	2177	5.6	2250		96.8
2009/09/27	1556 200	CLO - 0.6 m E of B2	1356.0	2235	4.4	2310		96.8
2009/09/27	1557 200	CLO - 1 m E of 2E, 2 m S of 2F	1356.0	2198	5.1	2310		95.2
2009/09/29	1558 200	CLO - 2 m E; 3 m N of G3	1357.5	2198	4.1	2310		95.2
2009/09/27	1559 200	CLO - 2.5 m E, 3 m N of E2	1357.5	2168	5.3	2250		96.4

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Specified Compaction: 98 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C Soil: _____ °C
Attention: Chiu Yiu **Date Tested:** See below **By:** RC/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt

Material Usage/Zone: _____

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/09/29	1560 200	CLO - 1.5 m E, 1 m N of E2	1356.7	2131	5.7	2250	6.5	94.7
2009/09/29	1561 200	retest # 1560	1356.7	2168	3.4	2250	6.5	96.4
2009/09/30	1562 200	CLO - 2 m E and 3 m N of B2	1356.6	2146	5.3	2250	6.5	95.4
2009/09/30	1563 200	CLO - 1 m E, 1 m S of C2	1356.8	2254	4.2	2250	6.5	100.2
2009/09/30	1564 200	CLO - at centre of Lines F-E & 2-3	1357.7	2191	5.1	2250	6.5	97.4
2009/09/30	1565 200	Mill Bldg - btwn 8A-8B, 1 m W of Line 8	1357.6	2137	7.7	2250	6.5	95.0
2009/09/30	1566 200	Mill Bldg - btwn 8A-A7, 3 m S of Line A	1357.6	2232	7.4	2250	6.5	99.2
2009/09/30	1567 200	Mill Bldg - btwn 3A-3B	1357.6	2184	7.6	2250	6.5	97.1
2009/09/30	1568 200	CLO - 0.3 m S of Line A, 1.6 m W of Line 2	1355.7	2142	6.6	2250	6.5	95.2
2009/09/30	1569 200	CLO - Btwn A2-A3, 1 m W of line 2	1355.7	2138	5.3	2250	6.5	95.0
2009/09/30	1570 200	CLO - 2 m S; 0.2 m W of L2	1357.7	2209	6.3	2250	6.5	98.2
2009/09/30	1571 200	CLO - 0.5 m N; 1.5 m W of B2	1357.7	2226	6.9	2250	6.5	98.9

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std. Proctor Max Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):**
Client: Yukon Zinc Corp. **Temperature** **Air:** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:**
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL AND SAND -some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/10/01	1572 200	CLO - 1m S; 2m W of 2A	1356.5	2184	6.4	2250	6.5	97.1
	1573 200	CLO - 1m N; 0.3m W of C2	1356.5	2143	6.0	2250	6.5	95.2
	1574 200	CLO - 2.8m E of Line 2; 2m N of D2	1357.2	2219	5.7	2250	6.5	98.6
	1575 200	CLO - 2m N; 0.3m E of B2	1357.2	2142	5.0	2250	6.5	95.2
	1576 200	Mill Bldg - between 12E-F12	1356.0	2135	6.7	2250	6.5	94.9
	1577 200	Mill Bldg - 2m N of C12	1356.0	2205	6.1	2250	6.5	98.0
	1578 200	Mill Bldg - 1.8m N of D12	1356.0	2220	6.5	2250	6.5	98.7
	1579 200	Mill Bldg - 1.8m E; 32m S of A7	1357.7	2309	6.1	2250	6.5	102.6
	1580 200	Mill Bldg - 0.5m E; 3m S of A3	1357.7	2209	6.2	2250	6.5	98.2
	1581 200	CLO - 2m E of Line at 2B	1357.7	2321	6.0	2310		100.5
	1582 200	CLO - 2.5m E; 2m N D2	1357.7	2208	5.5	2310		95.6
2009/10/08	1583 200	Mill Bldg - Btwn F14 & G14; 2.3m W of Line 14	1357.5	2144	7.1	2250		95.3

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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Reviewed By:  P.Eng.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):**
Client: Yukon Zinc Corp. **Temperature** °C **Air:** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt (2250@6.5%)

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/10/08	1584 200	Mill Bldg - between E & F; 0.1m W Line 14	1357.5	2147	6.9	2250	6.5	95.4
	1585 200	Mill Bldg - between E & F; 1.8m E Line 12	1357.5	2153	5.8	2250	6.5	95.7
2009/10/09	1586 200	Mill Bldg - D12, 1.3m E	1357.6	2204	4.9	2250	6.5	98.0
	1587 200	Mill Bldg - between E&F;2.3m E Line 12	1357.8	2199	5.1	2250	6.5	97.7
	1588 200	Mill Bldg - 2.3m S Line E; 3m E Line 13	1357.8	2146	7.1	2250	6.5	95.4
	1589 200	Mill Bldg - 2.2m N Line F; 1.9m W Line 14	1357.8	2207	6.0	2250	6.5	98.1
2009/10/10	1590 200	Mill Bldg - 2.4m S Line B; 1.4m W Line 14	1357.4	2137	5.5	2250	6.5	95.0
	1591 200	Mill Bldg - at center of B12-B13-C12-C13	1357.4	2175	4.8	2250	6.5	96.7
	1592 200	Mill Bldg - Between B & C on Line 13	1357.4	2166	4.7	2250	6.5	96.3
	1593 200	Mill Bldg - at center of F14-F15-D14-d15	1357.5	2145	4.6	2250	6.5	95.3
	1594 200	Mill Bldg - middle of B-C; middle of Line 14-15	1357.5	2133	4.8	2250	6.5	94.8
2009/10/11	1595 200	Mill Bldg - between B & C; 2m W line 14	1357.5	2156	4.6	2250	6.5	95.8

Remarks: Test 1594 - ACL repacked the area for 20 minutes using sleepfoot pack before placing next lift
Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Specified Compaction: 95 % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature:** _____ **Air:** _____ **°C Soil:** _____ **°C**
Attention: Clive Creaney **Date Tested:** See below **By:** SD/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m³)	MC %	Max. Dry Density (kg/m³)	Opt. MC %	Comp % SPD
2009/10/11	1596 200	Mill Bldg - Sump @ C2	1357.4	2192	6.4	2250	6.5	97.4
	1597 200	Mill Bldg - Sump @ C2	1357.6	2272	6.4	2250	6.5	101.0
	1598 200	Mill Bldg - Between Line 12 - 13; 2m W Line 13	1357.8	2143	3.6	2250	6.5	95.2
	1599 200	Mill Bldg - Between B-C; 1m W Line 13	1357.8	2162	4.8	2250	6.5	96.1
	1600 200	Mill Bldg - Between B-C; 2.5m W Line 14	1357.7	2148	5.3	2250	6.5	95.5
	1601 200	Mill Bldg - Between B-C; 2.4m W Line 15	1357.8	2145	5.3	2250	6.5	95.3
2009/10/13	1602 200	Mill Bldg - center of F13-F14-G13-G14	1357.0	2167	5.3	2250	6.5	96.3
	1603 200	Mill Bldg - btwn B13-B14; 2m N of Line B	1357.1	2021	6.3	2250	6.5	89.8
	1604 200	Mill Bldg - Btwn F14-G14	1357.3	1989	4.4	2250	6.5	88.4
	1605 200	Retest #1603 after further compaction	1357.1	2023	5.9	2250	6.5	89.9
	1606 200	Retest # 1604 after further compaction	1357.3	1992	3.9	2250	6.5	88.5
2009/10/14	1607 200	Retest # 1606 after further compaction	1357.3	1996	4.4	2250	6.5	88.7

Remarks: Test # 1604 new material, frozen when placed, temperature -9°C
 Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):**
Client: Yukon Zinc Corp. **Temperature** °C **Air:** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** SD
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/10/14	1608 200	Retest of 1605; btwn 13-14; 2m N of Line 13	1357.1	2140	4.8	2250	6.5	95.1
	1609 200	Retest of 1602	1357.3	2153	4.9	2250	6.5	95.7
	1610 200	Mill Bldg - Center of Lines A13-A14-B13-B14	1357.3	2173	3.0	2250	6.5	96.6
2009/10/15	1611 200	Mill Bldg - Line 14-15; 2m S of Line A	1357.3	2153	4.6	2250	6.5	95.7
	1612 200	Mill Bldg - Center of Lines A14-A15-B13-B14	1357.7	2000	4.9	2250	6.5	88.9
	1613 200	Mill Bldg - Center of Lines A13-A14-B13-14	1357.7	2021	5.5	2250	6.5	89.8
2009/10/16	1614 200	Retest of 1612;	1357.7	2144	4.9	2250	6.5	95.3
	1615 200	Retest of 1613	1357.7	2147	5.4	2250	6.5	95.4
	1616 200	Mill Bldg - 2m W, 3m N of C10	1355.8	2030	3.9	2250	6.5	90.2
	1617 200	Mill Bldg. - 2m E; 3m S of B10	1355.7	2167	4.3	2250	6.5	96.3
	1618 200	Retest of # 1616	1355.8	2142	40.0	2250	6.5	95.2
	1619 200	Same spot as # 1617 (next lift)	1355.9	2151	4.2	2250	6.5	95.6

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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ASTM Designation D2922 & D3017

Soil Description: Crushed Shale/Bedrock

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

Reviewed By: **P.Eng.**



COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):**
Client: Yukon Zinc Corp. **Temperature** °C **Air:** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** MI/
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: Crushed Shale/Bedrock (2250@); SAND - some gravel, silty (2120@10%)

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/10/17	1632 200	Mill Bldg - 4m W of L9; 4m S of L 4	1355.9	2153	5.8	2250		95.7
2009/10/18	1633 200	Crusher Bldg - outside; 2m W of L 2; 5m N of L A	1341.3	2022	8.2	2120	10	95.4
	1634 200	Crusher Bldg - outside; 4m W of 2; 2m N of A	1341.5	2084	7.1	2120	10	98.3
	1635 200	Crusher Bldg - outside; 6m W of 2; 5m N of A	1341.8	2069	7.6	2120	10	97.6
	1636 200	Crusher Bldg - outside; Line 2; 3m N of A	1342.0	2037	8.1	2120	10	96.1
	1637 200	Mill Bldg - outside; 2m W of 2; 3m N of A	1342.2	2042	7.8	2120	10	96.3
	1638 200	Crusher Bldg - W Side; 8m S of A; 1m W of 1	1341.3	2018	9.1	2120	10	95.2
	1639 200	Mill Bldg - Between A&B 1/2 way between 11 & 12	1357.7	2253	5.3	2250		100.1
	1640 200	Mill Bldg - Between A&B; 1m W of L 11	1357.7	2255	4.8	2250		100.2
	1641 200	Mill Bldg - Between B & C; 4m E of L 12	1357.7	2253	4.8	2250		100.1
	1642 200	Mill Bldg - Between B&C; 4m E of L 12	1357.8	2339	5.7	2250		104.0
	1643 200	Mill Bldg - Center of A10-A11-B10-B11	1357.8	2145	4.3	2250		95.3

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT
Specified Compaction: % Std. Proctor Max Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):**
Client: Yukon Zinc Corp. **Temperature** **Air:** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt (2250 @); (2310 @); Crushed Shale/Bedrock (2250@)

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/10/19	1644 200	Mill Bldg - Center of A10-A11-B10-B11	1357.8	2212	5.5	2250		98.3
	1645 200	Mill Bldg - Center of A11-A12-B11-B12	1357.9	2240	4.6	2250		99.6
	1646 200	Mill Bldg - Between 14&15 @ Line D	1357.9	2262	6.0	2250		100.5
	1647 200	Mill Bldg - Between 14&15; 1.0m N of L E	1357.9	2341	7.2	2250		104.0
2009/10/20	1648 200	Crusher Bldg - 3m W of L 2; 2m S of L 13	1341.0	2167	5.9	2250		96.3
	1649 200	Crusher Bldg. - 5m W of L 2; 4m S of L B	1341.2	2156	6.3	2250		95.8
	1650 200	Crusher Bldg - 3m E of L 1; 6m S of L B	1341.4	2153	7.4	2250		95.7
	1651 200	Crusher Bldg - 5m W of L 2; 3m S of L B	1341.6	2169	5.9	2250		96.4
2009/10/21	1652 200	Mill Bldg - Btwn 14 & 15; 1.3m N of L E	1357.8	2312	7.9	2310		100.1
	1653 200	Mill Bldg - Btwn 14 & 15 @ Line D	1357.8	2328	5.2	2310		100.8
	1654 200	Mill Bldg - 2m E of L 9; Btwn Lines A & B	1357.8	2251	3.6	2250		100.0
	1655 200	Mill Bldg - 2.4m E of L 10; Btwn Lines A & B	1357.8	2248	3.8	2250		99.9

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):**
Client: Yukon Zinc Corp. **Temperature** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** SD/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt (2250 @); (2310 @); Crushed Shale/Bedrock (2250@)

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/10/21	1656 200	Crusher Bldg - 5m E of L 1; 0.3m N of L A	1341.0	2167	7.7	2250		96.3
	1657 200	Crusher Bldg - 4m E of L 1; 1m N of L A	1341.3	2156	8.1	2250		95.8
	1658 200	Crusher Bldg - 6m E of L 1; 0.5m N of L A	1341.6	2185	6.5	2250		97.1
	1659 200	Crusher Bldg - 7m S of L A; 1m W of L 1	1341.1	2169	5.7	2250		96.4
	1660 200	Crusher Bldg - 2m E of L 1; 0.4m N of L A	1341.9	2192	6.8	2250		97.4
	1661 200	Crusher Bldg - 6m E of L 1; 1.2m N of L A	1342.3	2156	5.7	2250		95.8
	1662 200	Crusher Bldg - 6m N of L B; 0.7m W of L 1	1341.1	2149	7.1	2250		95.5
	1663 200	Crusher Bldg - 9m S of L A; 1m W of L 1	1341.4	2165	6.8	2250		96.2
	1664 200	Crusher Bldg - 1m W of L 1; 10m N of L B	1341.4	2192	5.6	2250		97.4
	1665 200	Crusher Bldg - 2m N of L A; 6m E of L 1	1342.5	2178	4.9	2250		96.8
2009/10/22	1666 200	Mill Bldg - Btwn A & B; 1.6m E L 12	1357.8	2271	3.9	2250		100.9
	1667 200	Mill Bldg., Btwn A & B; 1.6m E L 12	1357.8	2137	4.0	2250		95.0

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** _____ % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** MI/SD
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt (2250 @); (2310 @); Crushed Shale/Bedrock (2250@)

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/10/22	1668 200	Mill Bldg - 1/2 Btwn 14-15; 1/2 btwn B-C	1357.8	2161	3.3	2250		96.0
	1669 200	Mill Bldg - Line 14; Btwn Lines A-B	1357.8	2245	3.3	2250		99.8
	1670 200	Crusher Bldg - 1 m N of L A; 3 m E of L 1.1	1343.0	2368	5.5	2310		102.5
	1671 200	Crusher Bldg - 1.1 m W of L 1.1; in line w/L B.4	1343.0	2375	3.9	2310		102.8
	1672 200	Crusher Bldg., 1.5 m E of L A; 3.0 m S of L A	1343.0	2219	5.7	2250		98.6
	1673 200	Crusher Bldg - 0.4 m S B.5; 1.3 m E 1.1	1343.2	2203	6.0	2250		97.9
	1674 200	Grizzly Inside - btwn Lines C-D; btwn Lines 0.1-0.2;	1342.5	2198	4.5	2250		97.7
	1675 200	Crusher Outside - btwn Lines 0.1-0.2; btwn Lines C-D	1342.5	2197	6.0	2250		97.6
	1676 200	Crusher Outside - 7 m N of L B; 1 m W of L 0.1	1342.5	2187	6.1	2250		97.2
	1677 200	Crusher Outside - 8 m S of L A; 0.5 m W of L 0.1	1342.5	2178	5.5	2250		96.8
	1678 200	Grizzly Inside - btwn Lines 0.1-0.2 and Lines C-D	1341.0	2189	6.2	2250		97.3
	1679 200	Grizzly, btwn Lines 0.1-0.2; Lines C-D	1341.3	2207	5.1	2250		98.1

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):**
Client: Yukon Zinc Corp. **Temperature** °C **Air:** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** SD/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt (2250 @); (2310 @); Crushed Shale/Bedrock (2250@)

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/10/22	1680 200	Grizzly - btwn Lines 0.1-0.2; Lines C-D	1341.5	2194	4.9	2250		97.5
	1681 200	Grizzly - btwn Lines 0.1-0.2 and btwn Lines C-D	1341.7	2176	408.0	2250		96.7
	1682 200	Grizzly - btwn Lines 0.1-0.2 and btwn Lines C-D	1342.0	2223	5.1	2250		98.8
	1683 200	Grizzly - btwn Lines 0.1 - 0.2 - and btwn Lines C-D	1342.3	2230	3.9	2250		99.1
2009/10/23	1684 200	Grizzly - btwn Lines 0.1-0.2; and btwn Lines E-F	1342.2	2153	6.0	2250		95.7
	1685 200	Grizzly - btwn Lines 0.1-0.2; and btwn Lines D-E	1342.2	2151	5.7	2250		95.6
	1686 200	Grizzly - btwn Lines 0.1-0.2; and btwn Lines E-F	1342.5	2212	4.8	2250		98.3
	1687 200	Mill Bldg - on Line 3; 4 m N of L E	1357.8	2197	5.8	2250		97.6
	1688 200	Mill Bldg - 2.6 m E of Line 3; 3.8 m N of Line F	1357.8	2189	5.4	2250		97.3
	1689 200	Mill Bldg - 5 m N of L E; 2.7 m E of L 4	1357.8	2166	4.4	2250		96.3
	1690 200	Crusher Bldg - 3 m S of L B.5; 3 m E of Line 1.1	2.1 to Grade	2336	4.9	2310		101.1
	1691 200	Vent Raise, E Side; 3.1 m N of end of pipe 0.4 to approx. future grade	1351.1	2137	7.1	2250		95.0

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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Elevation for tests 25 to 27 were estimated from survey stakes.

COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):**
Client: Yukon Zinc Corp. **Temperature** °C **Air:** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** MI/SD
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt (2250 @); (2310 @); Crushed Shale/Bedrock (2250@)

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/10/23	1692 200	Vent Raise, W Side; 10 m N of end	1351.0	2091	6.4	2250		92.9
	1693 200	Re-test of W side; 10 m N of end	0.4 to Grade	2153	6.6	2250		95.7
	1694 200	Grizzly - btwn Lines 0.1-0.2 and btwn Lines D-E	1341.1	2151	5.6	2250		95.6
	1695 200	Grizzly - btwn Lines 0.1-0.2; and btwn Lines E-F	1341.1	2142	6.2	2250		95.2
	1696 200	Grizzly - btwn Lines 0.1-0.2; and btwn Lines D-E	1341.4	2162	4.8	2250		96.1
	1697 200	Grizzly - btwn Lines 0.1-0.2; and btwn Lines E-F	1341.4	2153	4.7	2250		95.7
	1698 200	Grizzly - btwn Lines 0.1 - 0.2 and btwn Lines D-E	1341.6	2189	5.6	2250		97.3
	1699 200	Grizzly - btwn Lines 0.1-0.2 and btwn Lines E-F	1341.6	2207	6.1	2250		98.1
	1700 200	Grizzly - btwn Lines 0.1-0.2 and btwn Lines D-E	1341.9	2165	4.8	2250		96.2
	1701 200	Grizzly - btwn Lines 0.1-0.2 and btwn Lines E-F	1341.9	2156	5.1	2250		95.8
2009/10/24	1702 200	Mill Bldg - @ Line 3 and Line C	1357.8	2251	5.9	2250		100.0
	1703 200	Vent Raise, E side of multiplate, 0.5 to Grade	1354.0	2250	5.0	2250		100.0

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):**
Client: Yukon Zinc Corp. **Temperature** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** MI/SD
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt (2250 @); (2310 @); Crushed Shale/Bedrock (2250@)

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/10/24	1704 200	Vent Raise, W side	1354.2	2160	5.1	2250		96.0
	1705 200	Crusher Bldg - 0.6 m S of L B; 6 m W of Line 5	1341.8	2162	5.0	2250		96.1
	1706 200	Crusher Bldg - 5 m W of Line 4; btwn Line B-B.4	1341.4	2194	5.8	2250		97.5
	1707 200	Crusher Bldg - 1 m S of B; 5 m W of 5	1342.1	2212	5.7	2250		98.3
	1708 200	Crusher Bldg - 1.5 m W of L B; 6 m W of Line 5	1342.4	2167	5.8	2250		96.3
	1709 200	Grizzly - 4 m S of L B; btwn Lines 0.1-0.2	1342.4	2185	5.2	2250		97.1
	1710 200	Mill Bldg - at Line 10; 5 m S of line D	1355.8	2142	6.1	2250		95.2
	1711 200	Mill Bldg - 2.5 m N of L D; 3 m W of Line 11	1355.8	2162	4.8	2250		96.1
	1712 200	Mill Bldg - 4 m S of L D; 1 m E of Line 11	1355.8	2158	5.3	2250		95.9
	1713 200	Grizzly - 2 m S of L B; btwn Lines 0.1-0.2	1341.8	2176	5.9	2250		96.7
	1714 200	Crusher Bldg - at Line 4; btwn Line B-B.4	1340.7	2187	6.2	2250		97.2
	1715 200	Crusher Outside, 0.2 m S of B; 3 m W of Line 5	1341.2	2054	5.6	2250		91.3

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):**
Client: Yukon Zinc Corp. **Temperature** °C **Air:** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** SD/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt (2250 @); (2310 @); Crushed Shale/Bedrock (2250@)

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/10/24	1716 200	Crusher Bldg - B - B.4; 0.6 m W of Line 4	1341.0	2171	5.6	2250		96.5
	1717 200	Crusher Bldg - Retest #3	1341.2	2201	5.5	2250		97.8
	1718 200	Crusher Bldg - B - B.4; 4 m W of Line 4	1341.0	2194	6.1	2250		97.5
	1719 200	Crusher Bldg - 0.3 m S of B; 4 m W of 5	1341.5	2207	5.3	2250		98.1
	1720 200	Crusher Bldg - B - B.4; 4 m W of Line 4	1341.2	2196	4.9	2250		97.6
2009/10/25	1721 200	Crusher Bldg. Sump Pad Area, 2 m S of B.4; 3 m W of 1.1	1342.1	2194	6.2	2250		97.5
	1722 200	Crusher Bldg. Sump Pad Area, 1.8 m W B.5; 4 m W 1.1	1342.1	2234	6.1	2250		99.3
	1723 200	Mill Bldg - Line 10; Line D	1356.1	2182	5.0	2250		97.0
	1724 200	Mill Bldg - Btwn D-E; 3 m W of Line 10	1356.1	2182	5.0	2250		97.0
	1725 200	Mill Bldg - center of C10-C11-D19-D11	1356.1	2344	4.5	2310		101.5
	1726 200	Mill Bldg - 3 m W of Line 10; middle of Line D-E	1356.1	2302	4.2	2310		99.7
	1727 200	Mill Bldg - 4 m N of E; 2.5 m W of L 7	1356.1	2221	6.1	2250		98.7

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):**
Client: Yukon Zinc Corp. **Temperature** °C **Air:** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** SD
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt (2250 @); (2310 @); Crushed Shale/Bedrock (2250@)

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/10/25	1728 200	Mill Bldg - on Line 7; 3 m S of Line D;	1356.2	2088	4.7	2250		92.8
	1729 200	Mill Bldg - 4 m N of Line F; 2 m E of L 7	1356.3	2212	4.6	2250		98.3
	1730 200	Mill Bldg - Retest of # 1728	1356.2	2183	4.8	2250		97.0
	1731 200	Mill Bldg - at Line 7; 3 m S of Line E	1356.4	2212	5.6	2250		98.3
	1732 200	Mill Bldg - at Line D; 3 m W of Line 7	1356.6	2198	4.8	2250		97.7
	1733 200	Mill Bldg - at Line C; 2 m E of Line 7	1356.4	2214	5.3	2250		98.4
	1734 200	Mill Bldg - 4 m S of Line D; 3 m W of L 7	1355.8	2223	5.7	2250		98.8
	1735 200	Mill Bldg - at E7	1355.8	2198	6.1	2250		97.7
	1736 200	Mill Bldg - 5 m N of C7	1355.8	2212	5.3	2250		98.3
	1737 200	Mill Bldg - 3 m N of C; 3 m W of Line 7	1355.8	2230	5.2	2250		99.1
	1738 200	Mill Bldg - 5 m N of Line C; 2 m E of L 7	1356.1	2203	6.2	2250		97.9
	1739 200	Mill Bldg - 1 m N of Line C; 3 m W of L 7	1356.1	2212	5.6	2250		98.3

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** **Air:** _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** SD
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt (2250 @); (2310 @); Crushed Shale/Bedrock (2250@)

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/10/25	1740 200	Mill Bldg - at E7	1356.0	2234	5.9	2250		99.3
	1741 200	Mill Bldg - 2 m N of Line D; 2 m E of Line 7	1356.0	2219	4.9	2250		98.6
2009/10/26	1742 200	Mill Bldg - Line E-F; 2 m E of Line 7	1356.5	2248	5.2	2250		99.9
	1743 200	Mill Bldg - Line D; 2 m W of Line 7	1356.5	2223	4.8	2250		98.8
	1744 200	Mill Bldg - at C7	1356.5	2239	5.7	2250		99.5
	1745 200	Mill Bldg - 3 m W of Line 7; 4 m N of L C	1356.5	2243	4.9	2250		99.7
	1746 200	Mill Bldg - 5 m S of Line D; 2 m E of L 7	1356.7	2219	5.6	2250		98.6
	1747 200	Mill Bldg - 1 m N of Line E; 3 m W of L 7	1356.7	2223	5.1	2250		98.8
	1748 200	Mill Bldg - 2 m S of Line C; 3 m W of L 7	1356.7	2343	5.5	2310		101.4
	1749 200	Mill Bldg - 1 m E of Line 7; 3 m S of L B	1356.7	2255	5.1	2250		100.2
	1750 200	Mill Bldg - 2 m N and 1 m E of C7;	1356.9	2203	4.9	2250		97.9
	1751 200	Mill Bldg - Line D; 3 m W of Line 7	1356.9	2232	6.0	2250		99.2

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):**
Client: Yukon Zinc Corp. **Temperature** °C **Air:** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** SD/MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt (2250 @); (2310 @); Crushed Shale/Bedrock (2250@)

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/10/26	1752 200	Mill Bldg - on Line 7; 5 m S of Line E	1357.2	2216	4.9	2250		98.5
	1753 200	Mill Bldg - 4 m S of Line D; 4 m W of L 7	1357.2	2066	5.2	2250		91.8
	1754 200	Mill Bldg - 2 m N of C; 1 m E of 7	1357.2	2207	5.1	2250		98.1
	1755 200	Mill Bldg - Retest # 1753	1357.2	2162	5.3	2250		96.1
2009/10/27	1756 200	Tailings Thickener, E side; 0.5 m E	1355.8	2111	4.6	2250		93.8
	1757 200	Tailings Thickener, Retest # 1756	1355.8	2171	4.7	2250		96.5
	1758 200	Tailings Thickener, W side; 0.4 m W	1355.8	2183	5.1	2250		97.0
	1759 200	Tailings Thickener, SE corner; 1.5 m S	1356.1	2176	3.8	2250		96.7
	1760 200	Tailings Thickener, NW corner; 1.4 m NW	1356.1	2203	4.1	2250		97.9
	1761 200	Mill Bldg - center of E14-E15-F14-F15	1357.7	2252	5.6	2250		100.1
	1762 200	Mill Bldg - center of C14-C15-D14-D15	1357.7	2226	3.8	2250		98.9
2009/10/28	1763 200	Mill Bldg - center of C5-C6-D5-D6	1357.8	2283	4.5	2250		101.5

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

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COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):**
Client: Yukon Zinc Corp. **Temperature** °C **Soil:** °C
Attention: Clive Creaney **Date Tested:** See below **By:** MI
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt (2250 @); (2310 @); Crushed Shale/Bedrock (2250@)

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/10/28	1764 200	Mill Bldg - @ Line 5; middle of Line B-C	1357.8	2245	4.5	2250		99.8
	1765 200	Mill Bldg - middle of Line B-C; 1 m W of Line 5	1357.8	2301	5.1	2310		99.6
2009/10/29	1766 200	Mill Bldg - 2.5 m W of middle of Line F14-F15	1357.6	2358	5.3	2310		102.1
	1767 200	Mill Bldg - 1.5 m W of D15	1357.6	2208	5.5	2310		95.6
2009/11/02	1768 200	Mill Bldg - On Line 8; 3 m S of D8	1357.4	2131	606.0	2250		94.7
	1769 200	Mill Bldg - 2 m S of D9	1357.4	2194	4.7	2250		97.5
	1770 200	Mill Bldg - 2 m E; 3 m S of C11	1357.4	2159	5.6	2250		96.0
	1771 200	Mill Bldg - 3 m E; 4 m S of B11	1357.4	2321	4.2	2310		100.5
	1772 200	Mill Bldg - 1 m E of E9	1357.4	2125	4.8	2250		94.4
	1773 200	Mill Bldg - 3.2 m S of E7	1357.4	2177	6.5	2250		96.8
2009/11/05	1774 200	Mill Bldg - 3.5 m S; 4 m W of E11	1356.6	2108	7.0	2250		93.7
	1775 200	Mill Bldg - 3.8 m W of D9; 4 m S of D8	1356.6	2139	7.9	2250		95.1

Remarks: ACL will repack all failing tests areas - no further test will be done there
 Elevation for tests 25 to 27 were estimated from survey stakes.

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ASTM Designation D2922 & D3017

Soil Description: GRAVEL and SAND - some silt

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.

Reviewed By: P.Eng.



COMPACTION DENSITY TEST SUMMARY REPORT

ASTM Designation D2922 & D3017

Project: QA Testing **Test Apparatus:** Nuclear **Troxler No:** 60841
Wolverine Lake Mine, YT **Specified Compaction:** _____ % Std. Proctor Max. Dry Density
Project No.: W14101095.005 **Specified Moisture (MC):** _____
Client: Yukon Zinc Corp. **Temperature** Air: _____ °C **Soil:** _____ °C
Attention: Clive Creaney **Date Tested:** See below **By:** _____
Contractor: Arctic Construction **Construction Period:** April 22nd to Dec 19th, 2009

Soil Description: GRAVEL and SAND - some silt

Date yyyy/mm/dd	Test No. Probe (mm)	Location:	Approx. Elev. (m)	Dry Density (kg/m ³)	MC %	Max. Dry Density (kg/m ³)	Opt. MC %	Comp % SPD
2009/11/22	1788 200	Crusher Bldg - Middle of Line 1-2; btwn Lines B-B.3	1341.0	2139	4.2	2250		95.1
2009/11/23	1789 200	Crusher Bldg - Middle of B-B.3	1341.8	2137	4.0	2250		95.0
	1790 200	Crusher Bldg - Middle of Line 2-3; btwn A- B.5	1342.0	2204	401.0	2250		98.0
2009/11/23	1791 200	Crusher Bldg - Middle of Line 1-2; btwn Lines B-B.3	1342.1	2160	4.8	2250		96.0

Remarks: Elevation for tests 25 to 27 were estimated from survey stakes.**Copies:****Reviewed By:** _____ P.Eng.

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APPENDIX C

APPENDIX C: TABLES SUMMARY OF CONCRETE TEST RESULTS

TABLE 1: WOLVERINE LAKE MINE CONCRETE TESTING SUMMARY

Test #	Date	Location	Cylinder #'s	# of Cylinders	Conc Mix	Slump (mm)	Air (%)	Compressive Strengths (# of days after casting)						
								3	7	14	28	56	84	
1	21-May-09	New Batch plant	1 - 4	4	no fly ash	42.0	4.2	18.5 (5)	20.5		25.4	26.8 (36)		Test for set-up. Water meter broken, cyl cast for aggregate evolution only
2	22-May-09	New Batch plant	5 - 8	4	no fly ash	0.0	3.0	29.7 (4)	31.3		40.7/31.3			Water meter on plant fixed. Mix as per EBA design
3	22-May-09	New Batch plant	9 - 12	4	no fly ash	34.0	3.0	27.5 (4)	32.7		39.4/40.7			30ltrs of water and 4.5ltrs of Plast added to trucks drum, remixed and 4 cyl cast
4	5-Jun-09	New Batch plant	13 - 16	4	1	15.0	2.6	19.6 (5)	22.7		31.7/28.8			4x 100mm cyl cast
5	5-Jun-09	New Batch plant	17 - 20	4	1	85.0	3.5	18.8 (5)	21.4		30.8/29.7			4x 100mm cyl cast. Test taken after plast. 2ltrs per 1m3
6	5-Jun-09	New Batch plant	21 - 24	4	1	135.0	5.5	15.0 (5)	17.6		26.3	29.3		4x 100mm cyl cast
7	4-Jul-09	Cone Bldg Mud Sill	25 - 28	4	2	135.0	4.9	10.6	N/A		26.6/25.5			
8	6-Jul-09	Footing F1, concentrate load out bldg	29 - 36	8	2	90.0	5.8		16.1/16.4	20.9 (21)	21.7/22.2	25.1		8 cyl cast at request of Stanely Zhang. Batch with pre-mixed flyash.
9	7-Jul-09	Footing E1, concentrate load out bldg	37 - 42	6	2	115.0	5.4	15.2 (6)	16.7	20.7 (21)	21.1/21.0	25.2		Pre-mixed flyash
10	7-Jul-09	Footing D1, concentrate load out bldg	43 - 48	6	2	110.0	5.0	15.0 (6)	15.4	20.1 (21)	20.3/20.9	25.2		Pre-mixed flyash
11	9-Jul-09	Footing A2-A3, concentrate load out bldg	49 - 54	6	2	70.0	5.9	11.5 (5)	13.0	17.5 (18)	19.7/20.2	23.7		
12	9-Jul-09	Footing B6, concentrate load out bldg	55 - 60	6	2	N/A	3.8	13.5 (5)	15.4	19.7 (18)	22.7/21.8	25.2		1ltr of air added after air test, trucks allowed to proceed based on previous results of air addition
13	10-Jul-09	Footing G6, concentrate load out bldg	61 - 66	6	2	75.0	6.5	12.7 (4)	15.6	19.1 (17)	22.1/21.6	27.5		
14	14-Jul-09	Footing F3, Mill Bldg	67 - 72	6	2	120.0	6.0	8.6	12.0	15.9	18.5/18.8	22.6		
15	16-Jul-09	Mill Bldg, F8 1/4, bottom 1/3 of foundation, just north of column	73 - 78	6	3	90.0	6.8	12.5 (5)	15.2	17.6	21.9/22.2	25.0		EBA tested for slump, air & temp. Victor Whitaker casted Cyl
16	18-Jul-09	Mill Bldg - Footing F10	79 - 82	4	3	110.0	6.5	9.6	14.7		21.1	25.0		
17	21-Jul-09	For shrinkage test	Shrinkage Beam		3	85.0	6.8							
18	21-Jul-09	Column G3, just above footing	83 - 88	6	3	80.0	6.2	11.7	17.2	19.3	22.7	27.1/26.3		
19	21-Jul-09	Mill Bldg, Grade beam between F5-G6, bottom 0.5m	89 - 94	6	3	115.0	4.6	12.1	17.5	19.5	23.4	27.7/27.9		ACL geo-tech tested truck#2 air=4.6%, slump=115. EBA also tested truck #7 for air=4.5%, slump=95mm
20	23-Jul-09	Footing A1-B1, 4m South of A1 (1/2 way between A1-B1)	95 - 100	6	3	80	5.0	14.2 (4)	17.8	21.1	23.0	27.4/28.4		
21	23-Jul-09	Footing A5-B5 (half way) upper1/2 of footing, 0.3m above u/s footing	101 - 106	6	3	80	6.0	13.0 (4)	16.2	19.3	21.9	26.3/26.5		
22	24-Jul-09	Mill bld-foundation B3-B4 top 1/3	107 - 112	6	3	120	6.8	12.5	14.7	18.0	21.1	24.1/23.8		Test truck #1 for air and slump- air= 4%, Slump=80mm, No cyl
23	25-Jul-09	Mill bld-foundation B6, top 1/2	113 - 118	6	3	120	6.5	12.5	15.1	18.4	21.0	24.7/24.9		
24	26-Jul-09	Grade Beam, between column B6-A6, upper 1/3	119 - 124	6	3	110	5.3	12.5	16.6	18.4	21.7	25.2/25.0		
25	28-Jul-09	B11 foundation, lower 1/3	125 - 130	6	3	120	4.6	15.5	18.1	18.0 (10)	24.6	26.0/26.1		
26	28-Jul-09	A9-B9 foundation, half way, bottom 1/3	131 - 136	6	3	120	5.0	14.7	16.9	16.7 (10)	22.6	23.7/24.3		
27	28-Jul-09	Foundation B8, 3/4 upper lift	137 - 142	6	3	95	5.0	14.1	16.7	17.0 (10)	23.6	26.1/25.5		
28	30-Jul-09	Foundation F2, Southwest corner upper part-mill bld	143 - 148	6	3	120	4.1	11.8	15.4	19.4	21.4	23.5/24.4		
29	31-Jul-09	Foundation A15 North East corner of box, upper	149 - 154	6	3	110	5.0	15.6	19.7	23.8	26.8	28.4/27		
30	2-Aug-09	Line 2 foundation, 2m North of D2	155 - 159	5	3	110	6.0		17.3	20.9	25.8	27.4/27.9		Could not make 6th cyl concrete was thrown out by Randall Springer
31	2-Aug-09	Line 2 foundation, 6m North of D2- Concentrate load out bld	160 - 163	4	3	85	5.0		20.6		29.1	30.5/34.6		Made 4 cyl on this truck since driver is constantly lower in slump and air %
32	3-Aug-09	Mill bld- Foundation H2, south corner	164 - 169	6	3	120	6.6	13.0	15.0	18.2	22.6	23.9/22.0		
33	5-Aug-09	Mill bld- Footings at H8/H9 (1st m3) and H3/H4 (last 7m3)	170 - 175	6	3	100	5.4	12.1 (6)	17.1	20.4	26.1	24.7/26.5		
34	6-Aug-09	Rod Mill Mud Sill	176 - 181	6	3	90	5.5	12.7 (5)	15.1	16.5	20.6	21.4/21.7		
35	9-Aug-09	Mill bldg - Pedestal/Walls from A1 to A3	182 - 187	6	3	115	5.9		15.9	18.1	24.7	27.9/26.3		
36	9-Aug-09	Mill bldg- Pedestal/Walls between A1 and B1	188 - 190	3	3	100	5.5		12.1		21.3	22.4		* See Note 1 at bottom of table
37	10-Aug-09	Mill bldg- footing H12/H13	191 - 196	6	3	80	2.7	16.9 (4)	21.0	25.3	29.7	32.6/32.5		2 air tests were done to ensure reading was correct. 6 addn'l cyl's were cast on ticket #158 @ air 6.8% to produce more representable results.
38	10-Aug-09	Mill bldg- footing H11	197 - 202	6	3	100	6.8	14.0 (4)	17.4	21.3	26.2	29.3/28.6		
39	11-Aug-09	Mill bldg- footing F12/F13	203 - 208	6	3	80	4.6	13.8	19.5	26.0	30.8	31.7/29.6		
40	12-Aug-09	Mill bldg- Pedestal/ walls F3/F4	209 - 214	6	3	110	5.8	15.8 (6)	16.6	22.6	26.5	29.7/29.4		
41	14-Aug-09	Mill Bldg - 0.9m below top of B12 and B13, 1.5m east of B12	215 - 220	6	3	110	5.0	12.2	15.6	22.0	26.3	27.6/27.9		Curing box was moved 2m (dragged out) at 5pm of Aug 15/09 cylinder specimen may give low values
42	14-Aug-09	1m North of column A12 (Pier outside Mill Bldg)	221 - 222	2	3	140	6.0					28.2/24.8		* See Note 2 at bottom of table
43	14-Aug-09	Mill Bldg, South East corner of B13	223 - 228	6	3	85	5.0	13.5	17.2	22.4	28.3	29.0/24.6		Curing box was moved 2m (dragged out) at 5pm of Aug 15/09 cylinder specimen may give low values
44	14-Aug-09	Mill Bldg - 2m South of A12 foundation B12-A12, 0.3m below top of foundation	229 - 234	6	3	105	5.5	12.9	16.8	21.2	27.3	28.3/28.9		Curing box was moved 2m (dragged out) at 5pm of Aug 15/09 cylinder specimen may give low values
45	16-Aug-09	Mill Bldg - Top layer of column E1	235 - 240	6	3	120	3.5		16.8	24.4	29.3	31.9/28		* See Note 3 at bottom of table
46	16-Aug-09	Mill Bldg - H4- 2nd Layer	241 - 246	6	3	130	5.3	11.4	15.1	23.2	27.9	29.1/30.5		Made 2nd set due to low air content in test 45
47	17-Aug-09	Mill Bldg - Half way between C15-D15- 30cm from top of foundation	247 - 252	6	3	110	6.6	9.1	15.2	20.2	25.3	24.0/25.7		
48	19-Aug-09	Half way between H3 and H2 and I2A-I3A- 1st left of 3	253 - 258	6	3	90	4.8		19.1/18.1	22.6	25.0	27.2/26.8		
49	19-Aug-09	Mill Bldg-Just east of I3B and H1 discharge more immediately to opposite corner- both on 2nd left	259 - 264	6	3	120	6.6		16.1/14.7	18.5	19.9	23.7/22.7		
50	19-Aug-09	Mill Bldg-Just east of H2 and I3B- 3rd left	265 - 270	6	3	105	5.0		17.2/17.6	18.9	22.6	24.4/24.4		
51	19-Aug-09	Mill Bldg, Half way between H1 and H2 and column I3B	271 - 276	6	3	115	7.0		15.5/16.4	17.9	21.1	22.3/22.2		
52	20-Aug-09	Mill Bldg- Foundation F14 (part of load went into F15)	277 - 282	6	3	115	5.6	16.8 (6)	16.7	18.7	22.7	25.4/25.1		
53	22-Aug-09	Mill Bldg-Bottom of F13 (Column)	283 - 288	6	3	90	5.2	13.4 (4)	17.3	22.4	22.4	26.2/25.6		
54	23-Aug-09	Hoper pump truck, mix went into lock blocks	289 - 296	8	4	80	4.2	13.5	19.3/18.7	22.9	27.1/28	30.2/30.4		
54a	23-Aug-09	At pump truck- mix into lock block	297 - 300	4	4	80	4.2							Test batch of new design as per memo #3 (EBA engineering)- cylinders were cast for IDL
55	23-Aug-09	Mill Bldg - Pedestal A12 and wall A12-A13 (2nd lift)	301 - 306	6	3	105	4.6	11.6	17.5	22.1	26.0	30.0/30.3		
56	25-Aug-09	Mill Bldg-H15- top layer	307 - 312	6	3	110	4.6	12.5	17.3	23.3	27.9	28.9/29.8		
57	27-Aug-09	Into lock block	313 - 318	6	3	135	10.0	12.9		20.1	20.7	23.3/24.2		Test trial for reference- Increased amount of Plast. To determine higher slump
58	29-Aug-09	Trial- test batch for lock block	319 - 324	6	3	100	5.0	17.6 (4)	19.6	24.1	26.9	32.1/31.3		
59	29-Aug-09	Mill Bldg- Column 15D (2nd Lift)	325 - 330	6	3	80	4.1	12.9	16.2	20.9	22.3	25.7/26.4		
60	31-Aug-09	Crusher Bld, North Foundation, half way btwn East middle column, 2nd middle left	331 - 336	6	3	100	6.0	13.5	15.9	21.6	22.5	25.4/25.8		
61	1-Sep-09	Crusher Bld, Most Easterly footing, 2m S of most southern column	337 - 342	6	3	120	5.0	10.4	15.8	19.6	17.3	24.1/23.7		
62	2-Sep-09	Crusher Bld, Foundation; most easterly footing, 1/2 way btwn most Northernly column and 2nd left.	343 - 348	6	3	120	7.2	11.1	14.1	16.4	19.1	21.1/22.0		
63	2-Sep-09	Mill bldg-(support for machinery) Small Columns, B13A, B15A, F15A, F13A, F13B, F15A.	349 - 354	6	3	95	6.6	15.0 (6)	15.1	16.9	19.0	21.0/20.9		354 foaen during ground transport and delayed delivery to EBA
64	5-Sep-09	Mill bldg, Rod and Ball mill foundation, 2.5m W of E Face, 200mm up from u/s footing- grid 2m S of D	355 - 360	6	3	75	3.5	20.7	24.9	28.0	31.4	33.8/35.0		Large Pour/high production speed. Trucks did not have enough time to mix. It was pointed out to IDL
65	5-Sep-09	Mill bldg,Rod and Ball Mill foundation- 2m W of C13, 0.4m above u/s foundation	361 - 366	6	3	100	5.7	14.8	19.6	21.3	23.8	26.5/25.7		
66	5-Sep-09	Rod and Ball Mill foundation, NW corner, 0.7m S, 1.5m E; 0.6m above u/s foundation	367 - 372	6	3	110	4.9	14.9	19.4	22.1	22.4	27.1/26.3		
67	5-Sep-09	Rod and Ball Mill foundation- 5mS of NE corner, 1m W; 1.2m above u/s Foundation	373 - 378	6	3	95	4.4	15.1	22.0	24.7	27.9	31.5/29.9		
68	5-Sep-09	Roda and ball mill foundation- NW corner; 1.5m above u/s foundation	379 - 384	6	3	115	5.0	14.8	19.2	21.0	24.7	25.1/26.9		
69	5-Sep-09	Rod and ball mill foundation- 1m W of East face, 1/2 way, ele-8cm below top surface	385 - 390	6	3	115	4.4	15.1	20.0	21.2	25.6	27.1/26.9		
70	6-Sep-09	Rod and Ball mill foundation- 8m N of S face, 5m W of E face, 2.1m above u/s foundation	391 - 396	6	3	155	4.3	12.3	18.5	21.1	23.9	25.6/25.6		* See Note 4 at bottom of table
71	7-Sep-09	Pedestal for transmission tower above main offices	397 - 400	4	3	80	1.3		22.3		28.7	31.3/31.4		Pedestal pour on top of previously poured foundation
72	8-Sep-09	1m E of 1aA 2nd lift (over 0.6m above u/s grade beam)- load went into 2A to 1B.3	401 - 406	6	3	95	4.3		17.8/18.0		27.7/28.2	32.6/31.8		
73	10-Sep-09	Crusher building Wall (b.5/5)	407 - 412	6	3	115	6.0	11.0	14.0	18.7		25.4/25.4		

TABLE 1: WOLVERINE LAKE MINE CONCRETE TESTING SUMMARY

Test #	Date	Location	Cylinder #'s	# of Cylinders	Conc Mix	Slump (mm)	Air (%)	Compressive Strengths (# of days after casting)						
								3	7	14	28	56	84	
74	11-Sep-09	Mud slab around weeping tile outside west end of crusher building	413 - 418	6	3	90	3.5	9.3	15.1	16.6	20.9	24.3/23.8		
75	14-Sep-09	Crusher interior pad footings - west end line 2/b.5	419 - 424	6	3	135	5.2	16.1 (6)	18.5	19.5	21.3	26.1/26.4		
76	17-Sep-09	Test Batch #5 - Lock Blocks (New Aggs)	425 - 430	6	5	80	4.9	14.7 (5)	18.1	21.5	21.9	25.7/25.6		
77	18-Sep-09	C1.1	431 - 436	6	3	110	4.2	12.8 (4)	15.7	20.8	24.1	28.9/29.0		
78	20-Sep-09	H2 between lin 13 and 14 in the rod/ball mill feed bin	437 - 442	6	3	120	5.7	16.7 (6)	13.6	19.6	21.8	27.6/26.2		Cylinders 441 & 442 frozen during ground transport and delayed delivery to EBA
79	20-Sep-09	H1 line 14 Feed Bin rod/ball mill	443 - 448	6	3	100	4.2	19.3 (6)	16.9	24.1	23.7	30.3/28.9		Cylinders 446 & 447 frozen during ground transport and delayed delivery to EBA
80	21-Sep-09	Con-shed line between F2-D2	449 - 454	6	3	100	6.5	13.8 (5)	15.6	20.4	22.8	26.7/27.3		Cylinders 453 & 454 frozen during ground transport and delayed delivery to EBA
81	21-Sep-09	Crusher Bldg/Pad Between 1-2 on line B.4	455 - 460	6	3	115	5.8	14.5 (5)	16.0	20.6	21.7	27.4/28.9		Cylinder 457 frozen during ground transport and delayed delivery to EBA
82	28-Sep-09	Mill Bldg - fdn for pedestal at F12-F12	461 - 466	6	3	85	3.5	14.0 (4)	18.6	21.4	25.4	30.3/30.2		Cylinders 464 & 466 frozen during ground transport and delayed delivery to EBA
83	30-Sep-09	3 guard posts at mid walls and OHO (G3)	467 - 470	4	3	65	3.1		19.8		25.9	32.2/30.8		
84	1-Oct-09	Rod Mill - N/E column	471 - 476	6	3	90	3.3	15.6 (5)		18.9/19.5	24.8	30.6/30.3		Cylinders 472 & 473 frozen during ground transport and delayed delivery to EBA
85	2-Oct-09	Column on top and around fdn of Rod Bin	477 - 482	6	3	110	4.0	14.4 (4)	18.6	19.2	24.5	33.9/33.3		Cylinders 479, 480 & 481 frozen during ground transport and delayed delivery to EBA
86	3-Oct-09	3 small columns on N&E sides of Feed Bin Rod Mill	483 - 488	6	3	105	7.8	8.5	13.4	15.3	17.3	22.1/22.7		Cylinder 486 frozen during ground transport and delayed delivery to EBA
87	4-Oct-09	Slab pour at CLO E3	489 - 494	6	3	100	3.5	15.0	18.3	21.4	26.2	32.1/30.8		
88	4-Oct-09	Slab pour at CLO G5, 4 m W of Line G-F	495 - 500	6	3	115	3.5	14.0	17.0 (12)	19.8	24.8	31.3/31.7		Cylinder 496 frozen during ground transport and delayed delivery to EBA
89	4-Oct-09	Slab pour at CLO E4	501 - 506	6	3	110	3.7	13.8	17.7	18.8	25.4 (29)	30.9/32.7		Cylinder 503 frozen during ground transport and delayed delivery to EBA
90	9-Oct-09	Concentrate Loadout Bldg between F&F and 3&4	507 - 512	6	3 (130 L of H2O)	95	3.3	18.1 (5)	19.8	23.2	27.5	34.6/34.2		Using 130 L of water instead of 150 L and more superplasticizer
91	9-Oct-09	Concentrate Loadout Bldg line C between line 4&5	513 - 518	6	3 (130 L of H2O)	80	3.1	18.9 (5)	19.7	24.2	30.0	35.3/36.0		
92	9-Oct-09	Concentrate Loadout Bldg between Lines A&B and 2&3	519 - 524	6	3 (130 L of H2O)	115	3.1	19.0 (5)	20.0	24.0	28.3	34.4/37.1		
93	10-Oct-09	Mill Bldg - Rod and Ball Mill columns between Lines C&D and Lines 13&14	525 - 530	6	3 (130 L of H2O)	100	3.2	16.5 (4)	17.5	22.2	27.0	31.1/32.1		
94	11-Oct-09	Rod Mill Feed Bin - H1 and Line 13	531 - 536	6	3 (130 L of H2O)	110	6.8	10.4	13.7	16.2	21.5	26.5/24.6		
95	12-Oct-09	Mill Bldg - between Lines 9-10 along line 3, Floatation Pad	537 - 542	6	3 (130 L of H2O)	85	3.5	16.0 (4)	20.3	23.8	28.1	33.1/33.4		
96	13-Oct-09	Crusher Bldg - Grizzly Walls Line 1.1 and Line 8.5	543 - 548	6	3 (130 L of H2O)	115	6.5	7.4	14.6	17.2	20.7	27.2/25.6		
97	14-Oct-09	Mill Bldg - floatation Pad Footings Line 8 between D&E	549 - 554	6	3 (130 L of H2O)	140	6.5	15.1 (6)	16.6	19.7	22.1	28.5		
98	15-Oct-09	Crusher Bldg - line B4 (cone Crusher West Wall)	555 - 560	6	3 (130 L of H2O)	100	5.4	16.4 (5)	19.5	22.6	25.8	30.7/31.7		
99	16-Oct-09	Cone Bldg - line A and Line 4	561 - 566	6	3 (130 L of H2O)	125	4.0	13.3 (4)	17.1	19.5	25.5	31.4/32.3		
100	16-Oct-09	Cone Bldg - Line C and Line 4	567 - 572	6	3 (130 L of H2O)	115	4.3	13.3 (4)	17.8	19.7	25.5	31.7/30.9		
101	16-Oct-09	Cone Bldg - Line D and Line 4	573 - 578	6	3 (130 L of H2O)	120	4.3	13.8 (4)	17.2	20.0	25.2	33.0/32.1		
102	17-Oct-09	Rod Mill Floor Slab	579 - 584	6	3 (130 L of H2O)	100	7.0	11.9	17.2	26.1	31.7	39.8/40.6		
103	17-Oct-09	Rod Mill Floor Slab	585 - 590	6	3 (130 L of H2O)	150	N/A	11.9	16.1	18.5	22.8	27.4/28.2		
104	17-Oct-09	Crusher Bldg - Footings	591 - 596	6	4 (130 L of H2O)	140	4.8	14.2	16.5	18.7	22.3	29.2/28.8		
105	18-Oct-09	Mill Bldg - brwn line C&D and Line 6&7	597 - 602	6	4 (130 L of H2O)	200	8.0	11.2 (4)	12.4	15.4	20.0	22.8/23.8		
106	18-Oct-09	Mill Bldg - brwn Line D&E and Line 6&7	603 - 608	6	4 (130 L of H2O)	165	5.4	15.7 (4)	17.6	20.4	15.8	30.0/31.0		
107	19-Oct-09	Mill Bldg - Brwn Line C&D and Lines 3&4 (Sump Pad)	609 - 614	6	4 (166 L of H2O)	160	5.8	12.2	15.6	18.9	22.4	28.0/27.4		
108	19-Oct-09	Mill Bldg - Brwn Line C&D and Line 1 (Sump Pad)	615 - 620	6	4 (166 L of H2O)	160	4.9	15.3	18.2	21.1	26.2	30.5/31.3		
109	19-Oct-09	Mill Bldg - Line E and Line 3 (Sump Pad)	621 - 626	6	4 (166 L of H2O)	155	5.5	15.6	19.0 (8)	22.7	25.1	31.1/31.2		
110	21-Oct-09	Mill Bldg - Brwn Lines 2 &3 and Line G&H (Sump)	627 - 632	6	4 (166 L of H2O)	145	5.0	15.9 (6)	15.9	19.0	23.6	25.2/26.4		
111	22-Oct-09	Mill Bldg - Line D and Line 11	633 - 638	6	4 (166 L of H2O)	160	4.0	15.4 (5)	17.6	14.4	25.2	28.8/28.8		Cylinder 635 was damaged during ground transport
112	23-Oct-09	Genset Pad - 10 m Sof N wall, half way brwn W&E walls	639 - 644	6	4 (166 L of H2O)	155	5.3	13.8 (4)	16.1	18.0	20.7	26.4/25.4		
113	23-Oct-09	Cone Bldg - Line E and Line 2 Wheel stop	645 - 650	6	4 (166 L of H2O)	140	5.4	15.0	15.9	18.3	21.9	25.9/27.2		
114	24-Oct-09	Mill Bldg - Line C brwn Line 14 & 15	651 - 656	6	4 (166 L of H2O)	170	5.0	15.0	16.1	19.5	26.3	27.9/27.3		
115	24-Oct-09	Mill Bldg - brwn Lines D&E, brwn Lines 7&8	657 - 662	6	4 (166 L of H2O)	125	4.8	13.5	15.5	19.8	24.7	26.8/26.2		
116	25-Oct-09	Tailings Thickner 1.5 m from W edge	663 - 668	6	4 (166 L of H2O)	130	5.7	8.2	11.6	15.5	20.7	21.5/22.0		
117	26-Oct-09	Cone Bldg - Lines 1 & 2 near Line E	669 - 674	6	4 (166 L of H2O)	130	5.5		12.9	17.4	22.5	25.4/25.6	27.1	
118	26-Oct-09	Genset Pad 3.3 m S of N wall, 2.5 m E of W wall	675 - 680	6	4 (166 L of H2O)	155	5.4		14.0	18.4	22.5	26.0/26.5	2.1	
119	27-Oct-09	Mill Bldg - brwn lines 10&11, brwn lines E&F	681 - 686	6	4 (166 L of H2O)	130	5.6		11.6	16.0	23.3	26.2/28.3	28.0	
120	28-Oct-09	Mill Bldg - Rod and Ball Mill acnhor bolts pedestals	687 - 692	6	4 (166 L of H2O)	90	3.8	13.5 (4)	16.9	20.7	24.6	29.3/29.5		
121	28-Oct-09	Mill Bldg - Paste Plant Floor	693 - 698	6	4 (166 L of H2O)	150	4.0	14.2 (4)	16.7	20.4	25.0	28.2/29.0		
122	28-Oct-09	Mill Bldg - brwn line 3&4, Brwn Lines C&D	699 - 704	6	4 (166 L of H2O)	140	5.0	13.9 (4)	17.6	20.1	24.6	29.3/27.9		
123	29-Oct-09	Mill Bldg - Floatation Foundation Columns	705 - 710	6	4 (166 L of H2O)	160	4.3	10.8	16.8	19.9	24.9	29.0/28.9		
124	30-Oct-09	Mill Bldg - Slab brwn Line A12-A15 and B12-B15	711 - 716	6	4 (166 L of H2O)	110	4.1	12.9	16.5	21.9	27.1	30.3/31.1		
125	1-Nov-09	Crusher Bldg - vibrating screen fdn/columns	717 - 722	6	4 (166 L of H2O)	120	4.1	16.3	18.8		26.1	32.2/33.1	32.7	
126	1-Nov-09	Mill Bldg - brwn B4-B5 top lift	723 - 728	6	4 (166 L of H2O)	120	3.8	14.2	17.9		27.2	32.0/33.2	33.7	
127	1-Nov-09	Mill Bldg - SE corner	729 - 734	6	4 (166 L of H2O)	130	4.1	12.1	16.7		24.9	39.7/39.4	32.1	
128	2-Nov-09	Mill Bldg - slab section B18 to B15 and C12 to C14	735 - 740	6	4 (166 L of H2O)	125	3.8	9.6	14.2		23.8	25.6/27	26.6	
129	3-Nov-09	Mill Bldg - Floatation Foundation Line B11	741 - 746	6	4 (166 L of H2O)	105	3.2	12.3	16.1		23.2	28.6/27.9	30.0	
130	3-Nov-09	Genset Pad - mid center of S pad	747 - 752	6	4 (166 L of H2O)	115	3.6	14.1	19.7		23.5	27.6/26.6	28.8	
131	4-Nov-09	Mill Bldg Floor Slab	753 - 758	6	4 (166 L of H2O)	108	3.8	10.0	14.3		20.3	25.0/25.2	26.5	
132	5-Nov-09	Genset Slab - 3m S, 4m E of NW corner	759 - 764	6	4 (166 L of H2O)	135	5.5	14.7 (6)	14.4		17.9	22.8/22.4	22.5	
133	7-Nov-09	Mill Bldg, Slab brwn A7-A10 and B7-B10	765 - 770	6	4 (166 L of H2O)	135	2.8	14.3 (4)	16.8		22.7	26.9/26.4	26.1	
134	7-Nov-09	Genset Slab - Northern slab	771 - 776	6	4 (166 L of H2O)	130	5.3	13.1 (4)	15.1		19.4	24.9/24.0	26.9	
135	7-Nov-09	Con Bldg, concentrate cell walls (middle wall)	777 - 782	6	4 (166 L of H2O)	140	3.3	9.8 (4)	11.7			23.0/23.9	25.3	
136	8-Nov-09	Mill Bldg, Slab brwn 2+3 and D+E	783 - 788	6	4 (166 L of H2O)	135	4.3	10.0	15.4		20.9	24.9/23.9	24.8	
137	8-Nov-09	Mill Bldg, 2.5m N of F3, 2m E of F3	789 - 794	6	4 (166 L of H2O)	125	4.0	10.9	16.7 (8)		21.6	26.1/26.1	26.7	
138	9-Nov-09	Mill Bldg, Slab brwn B5-A5 and B7-A7	795 - 798	4	4 (166 L of H2O)	153	4.8		15.5	18.6	23.0	25.7/25.6	26.0	
139	9-Nov-09	Crusher Bldg, Elevator Slab and Columns	799 - 804	6	4 (166 L of H2O)	115	5.0	10.9 (4)	13.6		19.7	24.6/24.0	23.5	
140	11-Nov-09	Mill Bldg, Paste Plant water Tanks and Reagent Area	805 - 808	4	4 (166 L of H2O)	115	3.2		18.4		24.2	23.4/25.5		
141	13-Nov-09	Con Bldg, along Line A brwn 4+5	809 - 812	4	4 (166 L of H2O)	125	3.6		17.2		25.4	29.1/29.1		
142	13-Nov-09	Mill Bldg, brwn D+E along Line 6	813 - 818	6	4 (166 L of H2O)	130	4.1	13.8 (5)	16.1	20.0	22.7	24.7/25.6		
143	13-Nov-09	Mill Bldg, brwn 5+6 along line F	819 - 824	6	4 (166 L of H2O)	135	6.0	11.9	13.8	18.1	21.8	25.5/25.1		
144	13-Nov-09	Mill Bldg, brwn 6+7 along line F	825 - 830	6	4 (166 L of H2O)	130	6.2	11.4	13.1	17.0	19.7	23.8/22.6		
145	15-Nov-09	Mill Bldg, brwn A+B and 10+11	831 - 836	6	4 (166 L of H2O)	140	4.4		14.5/15.9			23.7/24.0		
146	16-Nov-09	Mill Bldg, Slab brwn 8+9 and C+D	837 - 842	6	4 (166 L of H2O)	130	5.8	13.0 (4)	15.2	18.2		24.7/21.5		
147	16-Nov-09	Mill Bldg, brwn 10+11 and B+C (slab)	843 - 848	6	4 (166 L of H2O)	130	6.2	13.4	15.9	19.4		23.0/24.4		
148	17-Nov-09	Mill Bldg, C+D, brwn 4+5 (Floor Slab)	849 - 854	6	4 (166 L of H2O)	110	5.2	14.6	17.7	20.3	23.5	25.2	28.6	
149	19-Nov-09	Crusher Bldg, Agg Hopper Fdn S of Bldg	855 - 860	6	4 (166 L of H2O)	120	6.9	13.4	15.5	16.9	20.8	22.2	25.3	
150	21-Nov-09	Mill Bldg, Floatation Area Floor Slab, E+F & 7+8	861 - 866	6	4 (166 L of H2O)	140	4.2	13.2	17.0	20.6	26.2 (30)	27.1	28.8	

TABLE 1: WOLVERINE LAKE MINE CONCRETE TESTING SUMMARY

Test #	Date	Location	Cylinder #'s	# of Cylinders	Conc Mix	Slump (mm)	Air (%)	Compressive Strengths (# of days after casting)						
								3	7	14	28	56	84	
151	21-Nov-09	Crusher Bldg, Transformer Pad S side of Bldg	867 - 872	6	4 (166 L of H2O)	140	4.8	12.7	15.3	19.3	27.3 (30)	26.4	27.1	
152	22-Nov-09	Genset Pad, Boiler Pump House Pad	873 - 878	6	4 (166 L of H2O)	120	7.1	10.4	13.9	17.1	18.7	22.1	23.5	
153	22-Nov-09	Mill Bldg, btwn 5+6 and F+G	879 - 884	6	4 (166 L of H2O)	115	2.3	14.3	17.5	20.6	19.8	26.3	27.1	
154	23-Nov-09	Pipe Bridge footing at CLO	885 - 890	6	4 (166 L of H2O)	120	6.2	12.8	17.4	19.0	22.2	25.0	25.0	
155	23-Nov-09	Mill Bldg, Octagon #2 btwn 6+7 and F+G	891 - 896	6	4 (166 L of H2O)	130	4.3	13.6	18.6	21.2	25.3	25.0	27.0	
156	23-Nov-09	Mill Bldg, Octagon #3 btwn 7+8 and F+G	897 - 902	6	4 (166 L of H2O)	120	4.7	11.6	13.9	18.8	22.2	25.7	25.1	
157	24-Nov-09	Gylcol Tank Pad	903 - 908	6	4 (166 L of H2O)	118	5.8	12.1	16.5	17.5	21.5	22.7	22.8	
158	24-Nov-09	Pipe Bridge Column #2 Footings	909 - 914	6	4 (166 L of H2O)	130	4.6	18.6	24.0	26.5	30.9	33.0	35.7	
159	25-Nov-09	Mine Air Heater Fdn	915 - 920	6	4 (166 L of H2O)	115	6.5		18.1/17.3	20.1	19.7	21.7/22.0		First 2 trucks contained 2% Accel. Following contained 1%. Waited 20-30 mins for the first lift; then pour 2nd. 1 L plasticizer added
160	25-Nov-09	Tailings Thickner walls NE Corner	921 - 926	6	4 (166 L of H2O)	120	5.2		19.7/197	23.0	21.6	25.9/24.5		
161	26-Nov-09	Varoius small pedestals	927 - 932	6	5	105	7.1	14.5	13.9		19.8	20.9/21.5	22.9	
162	27-Nov-09	Mill Bldg - 1st Floor Mezz	933 - 938	6	5	158	4.8	13.4 (5)	14.1		21.3	21.3/22.9	24.0	
163	27-Nov-09	Mill Bldg - floor slab 1m S of F6	939 - 944	6	5	122	4.7	16.9 (5)	18.0		23.4	24.6/23.6	26.0	
164	28-Nov-09	Mill Bldg - 2nd Floor Mezz	945 - 950	6	5	157	4.8	14.6 (4)	16.0		21.5	23.2/23.0	24.4	
165	29-Nov-09	Mill Bldg - CLO scale beams and walls	951 - 956	6	5	132	4.1	13.4	16.6		23.7	24.9/26	26.7	
166	30-Nov-09	Crusher Bldg - SW corner walls	957 - 962	6	5	132	4.0	12.1	14.5		20.1	21.1/21.8	23.5	
167	30-Nov-09	Crusher Bldg - A5-B.5 3m W	963 - 968	6	5	135	3.0	13.1	15.4		21.9	24.7/25	26.7	
168	1-Dec-09	Mill Bldg - 3rd Floor Mezz	969 - 974	6	5	142	3.0	10.6	15.6		21.2	22.2/23.2	25.3	
169	1-Dec-09	Mill Bldg - H15 Octagon Base	975 - 980	6	5	134	3.8	10.2	17.5		23.4	25.2/25.5	27.2	
170	2-Dec-09	CLO Bldg - outside scale walls	981 - 984	4	Fillcrete	200	1.7	2.5			3.9	4.8	5.2	
171	2-Dec-09	Mill Bldg - regrind area	985 - 990	6	5	115	3.1	12.0	13.9		23.0	23.2/25.8	27.5	
172	3-Dec-09	Mill Bldg - floor slab 2m W and 3m N of H14	991 - 996	6	5	131	3.0	14.3	18.2		25.3	26.9/26.8	28.7	
173	6-Dec-09	Mill Bldg - floor slab 1.5 m E of E12	997 - 1002	6	5	132	5.6	11.3	14.3		19.4	21.8/23.1	24.2	
174	4-Dec-09	Conveyor Foundation CNV 12 22740 footing	1003 - 1008	6	5	132	5.9		16.7/15.9		21.5	24.2/25.9	26.1	
175	5-Dec-09	Mill Bldg - Elevated octagon	1009 - 1014	6	5	130	2.9	15.8 (6)	18.5 (10)		23.1	26.7/27.2	27.0	
176	6-Dec-09	CLO - floor slab	1015 - 1020	6	5	122	3.1	15.8	20.5 (10)		26.5	28.5/27.6	23.0	
177	6-Dec-09	CNV - 12 6552	1021 - 1026	6	5	127	5.3	12.1	16.1 (10)		18.0	22.6/22.9	28.7	
178	7-Dec-09	Conveyor Transfer Tower Footing	1027 - 1032	6	5	135	5.6	13.2 (4)	16.5 (8)		21.3	24.4/24.7	25.8	
179	7-Dec-09	Conveyor Transfer Footing	1033 - 1038	6	5	132	5.8	11.3	15.0 (8)		19.6	22.2/23.2	23.8	
180	8-Dec-09	Mill Bldg - Floor Slab 2m N 0.5m E of H10	1039 - 1044	6	5	128	3.6	10.8	16.4		24.3	27.9/29.5	30.8	Curing box was left inside heated bldg (Mill Bldg), but was found open @ 8 am next morning
181	9-Dec-09	Mill Bldg - Floor Slab	1045 - 1050	6	5	128	1.5	11.3	17.3		26.1	29.6/27.7	30.7	Curing box was left inside heated bldg (Mill Bldg), but was found open @ 8 am next morning
182	9-Dec-09	Conveyor Fdn - 12 bent 2	1051 - 1056	6	5	125	5.9	13.3 (6)	13.0		18.9	23.6/23.1	24.1	
183	10-Dec-09	Mill Bldg Slab Floor; 1 m S of F10-F11	1057 - 1062	6	5	130	2.8	16.8 (5)	17.9		23.7	27.3/28.0	28.7	
184	10-Dec-09	SE Corner of Transformer 1/2 Walls	1063 - 1068	6	5	124	5.5	12.7 (5)	14.3		19.1	23.9/23.3	23.7	
185	11-Dec-09	Conveyor 8; Bent 2 (SK-9); top layer	1069 - 1074	6	5	135	7.1	10.4 (4)	13.4		15.7	20.7/20.2	21.8	
186	12-Dec-09	Footing (mid) & Contain Wall (short); Mill Site	1075 - 1080	6	5	138	7.0	10.7	14.1		19.5	21.9/22.7	23.9	
187	15-Dec-09	Mill Bldg; Curbs & Bases; b/w H6-H10 & F6-F10	1081 - 1086	6	5	126	3.1		19.6 (8)		27.3	28.1/29.1	30.3	
188	16-Dec-09	Cement Silo; Slab & Walls; S of Mill Bldg	1087 - 1092	6	5	140	5.5	13.0	16.8		22.0	25.3/26.0	26.0	
189	17-Dec-09	Slab & Vent; Raise	1093 - 1098	6	5	135	4.3	10.3	15.5		20.7	24.5/24.6	25.4	

Numbers in brackets after strengths indicate day break was actually done if it was out of the norm 3, 7, 28, or 56 day break.

* NOTES:

- Note 1: Cylinders were not cast due to controversy over suitability of load based on clumps of aggregate. 3 cylinders requested by S. Zhang, 189+190 to be broken at dates specified after 7 day break.
- Note 2: IDL added 70 kg of extra cement to truck due to higher than usual slump. Pour was on pier outside BLDG. EBA did not witness higher slump until pour was 80% complete. Curing box was moved 2 m (dragged out) at 5 pm of Aug 15/09 cylinder specimen may give low values.
- Note 3: Tested first two trucks for air and slump: 1) Air= 4.6% S= 120 2) Air= 6.0% S= 115. Did not test 3rd truck. Tested truck 5 = Air= 5.3% S= 130 made cyl #241-246 (Test 46)
- Note 4: Truck with ticket # 00376 had to wait @ hoper for 50 minutes while crew started finishing. Truck with ticket 00378 unloaded very slowly for finishing crew to do their work first 1/3 of load was on mixer for 3 hours. Stanley Zhang ok'ed discharge.



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n:

Element Cast & Location Tested: Trial Batch #1

Test No.: T-1 Placing Method: Chute

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 2:15
Ticket No: Mix No:
Load Amount: 3.0 m³ Cumulative: m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: GU Slump/Flow: 50 - 100 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

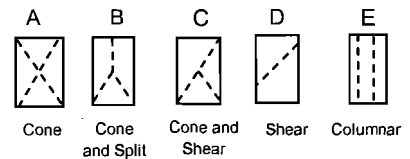
Contract Specifications as Provided

Same as Delivery Ticket: ☐ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 2:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 17.1 °C Concrete: 14.7 °C Diameter: 100 mm
Cast Slump/Flow: 42 mm Cast Air Content: 4.2 %
Initial Slump: 42 mm Initial Air Content: 4.2 %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/5/21 By: RC
Date Received: (Y/M/D) 2009/5/25 By: NSP

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
001	5	2009/5/26	BS	33750	18.5	D	
002	7	2009/5/28	TP	37320	20.5	A	
003	28	2009/6/18	BS	46220	25.4	C	
004	28	2009/6/15	BS	48870	26.8	D	

Remarks: Batch Plant (brand new set-up) Try Out, Water Meter was out
Cylinder cast for aggregate evolution only

Fax Copies To:

Reviewed By:

Whitehorse YT

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Consultants Ltd.**



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.004
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n:

Element Cast & Location Tested: Trial Batch #2

Test No.: T-2 Placing Method: Chute

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 10:00
Ticket No: Mix No:
Load Amount: 3.0 m³ Cumulative: 3.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: GU Slump/Flow: mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

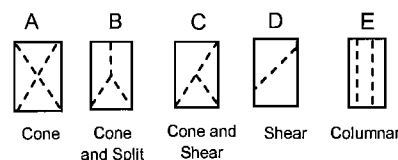
Contract Specifications as Provided

Same as Delivery Ticket: ☐ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 9:45 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 8.0 °C Concrete: 11.7 °C Diameter: 100 mm
Cast Slump/Flow: 0 mm Cast Air Content: 3.0 %
Initial Slump: 0 mm Initial Air Content: 3.0 %
Concrete Setting Temperature Within CSA Limits (15-25 °C): y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/5/22 By: RC
Date Received: (Y/M/D) 2009/5/25 By: NSP

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
005	4	2009/5/26	BS	54120	29.7	A	
006	7	2009/5/29	TP	57000	31.3	A	
007	28	2009/6/19	BS	74110	40.7	A	
008	28	2009/6/19	BS	66440	36.5	A	

Remarks: Water Meter on Plant Fixed, Mis as per EBA Design
Cylinder 6 last 3 digits not recorded, so assume 000

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.004
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n:

Element Cast & Location Tested: Trail Batch #3

Test No.: T-3 Placing Method: Chute

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 10:00
Ticket No: Mix No:
Load Amount: 3.0 m³ Cumulative: m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: GU Slump/Flow: 50- 100 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

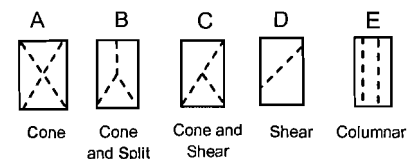
Contract Specifications as Provided

Same as Delivery Ticket: ☐ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 10:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 14.0 °C Concrete: 11.9 °C Diameter: 100 mm
Cast Slump/Flow: 34 mm Cast Air Content: 3.0 %
Initial Slump: 34 mm Initial Air Content: 3.0 %
Concrete Setting Temperature Within CSA Limits (15-25 °C): y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/5/22 By: RC
Date Received: (Y/M/D) 2009/5/25 By: NSP

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
009	4	2009/5/26	BS	50080	27.5	B	
010	7	2009/5/29	TP	59580	32.7	A	
011	28	2009/6/19	BS	71860	39.4	A	
012	28	2009/6/19	BS	74180	40.7	C	

Remarks: 30 litres of water & 4.5 litres of plast. added to truck's drum,
re-mixed & 4 cylinders cast

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Whitehorse YT

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested: Trail Batch #4

Test No.: T-4 Placing Method: Chute

Information From Delivery Ticket

Supplier: IDL
Truck No: MT-04 Batch Time: 11:15
Ticket No: Mix No:
Load Amount: 4.0 m³ Cumulative: 4.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: GU Slump/Flow: 60 - 100 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

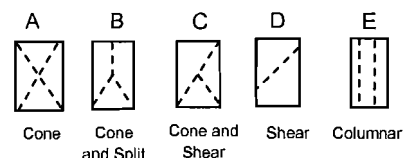
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: 28 days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 11:40 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 13.5 °C Concrete: 23.5 °C Diameter: 100 mm
Cast Slump/Flow: 15 mm Cast Air Content: 2.6 %
Initial Slump: 15 mm Initial Air Content: 2.6 %
Concrete Setting Temperature Within CSA Limits (15-25 °C): y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/6/5 By: MM
Date Received: (Y/M/D) 2009/6/10 By: NSP

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
013	5	2009/6/10	BS	35760	19.6	D	
014	7	2009/6/12	NP	41410	22.7	D	
015	28	2009/7/3	BS	57730	31.7	A	
016	28	2009/7/3	BS	52500	28.8	A	

Remarks: 4 cylinders cast

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested: Trail Batch #5

Test No.: T-5 Placing Method: Chute

Information From Delivery Ticket

Supplier: IDL
Truck No: MT-04 Batch Time: 11:15
Ticket No: Mix No:
Load Amount: 4.0 m³ Cumulative: 4.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: GU Slump/Flow: 60 - 100 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

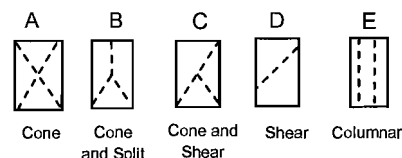
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: 28 days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 11:40 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 15.0 °C Concrete: 24.0 °C Diameter: 100 mm
Cast Slump/Flow: 85 mm Cast Air Content: 3.5 %
Initial Slump: 85 mm Initial Air Content: 3.5 %
Concrete Setting Temperature Within CSA Limits (15-25 °C): y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/6/5 By: MM
Date Received: (Y/M/D) 2009/6/10 By: NSP

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
017	5	2009/6/10	BS	34240	18.8	A	
018	7	2009/6/12	NP	39020	21.4	D	
019	28	2009/7/3	BS	56120	30.8	A	
020	28	2009/7/3	BS	54050	29.7	A	

Remarks: 4 cylinders cast

Test completed from same batch for T-04 after the addition of 2 L of plasticizer per 1 m3

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested: Trail Batch #6

Test No.: T-6 Placing Method: Chute

Information From Delivery Ticket

Supplier: IDL
Truck No: MT-04 Batch Time: 13:15
Ticket No: Mix No:
Load Amount: 4.0 m³ Cumulative: 4.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: GU Slump/Flow: 60 - 100 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

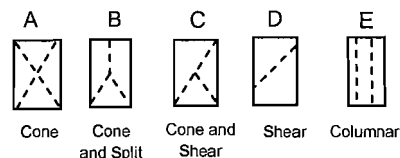
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: 28 days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 13:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 17.0 °C Concrete: 19.5 °C Diameter: 100 mm
Cast Slump/Flow: 135 mm Cast Air Content: 5.5 %
Initial Slump: 135 mm Initial Air Content: 5.5 %
Concrete Setting Temperature Within CSA Limits (15-25 °C): y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/6/5 By: MM
Date Received: (Y/M/D) 2009/6/10 By: NSP

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
021	5	2009/6/10	BS	27270	15.0	A	
022	7	2009/6/12	NP	32100	17.6	D	
023	28	2009/7/3	BS	47830	26.3	D	
024	56	2009/7/31	BS	53400	29.3	C	

Remarks: 4 cylinders cast

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Concentrate Loadout Bldg
Mud Sill, tested @ pour site

Test No.: T-7 Placing Method: Chute

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 2:45
Ticket No: Mix No:
Load Amount: 6.0 m³ Cumulative: 18.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

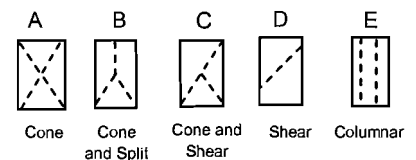
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 3:00 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 17.0 °C Concrete: 16.9 °C Diameter: 100 mm
Cast Slump/Flow: 135 mm Cast Air Content: 4.9 %
Initial Slump: 135 mm Initial Air Content: 4.9 %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/4 By: CH
Date Received: (Y/M/D) 2009/7/7 By: BS

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
025	3	2009/7/7	BS	19290	10.6	A	
026	7	2009/7/11	BS	19430	10.7	A	
027	28	2009/8/1	BS	48440	26.6	C	
028	28	2009/8/1	BS	46410	25.5	A	

Remarks: batched @ foundation spec to test and fine tune mix design

Cyl 026 almost borken on full advance, said 34870, but dropped to 19430 when switched to metered

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Concentrate Loadout Bldg - Footing F1

Test No.: T-8

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 4 Batch Time: 5:15
Ticket No: Mix No:
Load Amount: 6.0 m³ Cumulative: 24.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

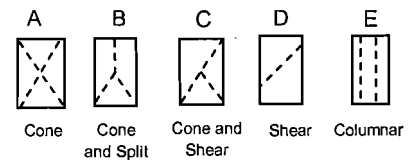
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 5:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 20.0 °C Concrete: 20.1 °C Diameter: 100 mm
Cast Slump/Flow: 90 mm Cast Air Content: 5.8 %
Initial Slump: 90 mm Initial Air Content: 5.8 %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/6 By: CH
Date Received: (Y/M/D) 2009/7/13 By: BS

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
029	7	2009/7/13	BS	29340	16.1	A	
030	7	2009/7/13	BS	29930	16.7	D	
031	28	2009/8/3	BS	39540	21.7	A	
032	28	2009/8/3	BS	40400	22.2	D	
033	21	2009/7/27	BS	38070	20.9	A	bad capping
034	56	2009/8/31	BS	45680	25.1	A	
035	65	2009/9/9	BS	26940	3.65		Splitting Tensile Test
036	65	2009/9/9	BS	27020	3.70		Splitting Tensile Test

Remarks: 8 cylinders cast at request of Stanley Zhang.

Batched with pre-mixed flyash.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Concentrate Loadout Bldg - Footing E1

Test No.: T-9 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 1:15
Ticket No: Mix No:
Load Amount: 6.0 m³ Cumulative: 18.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

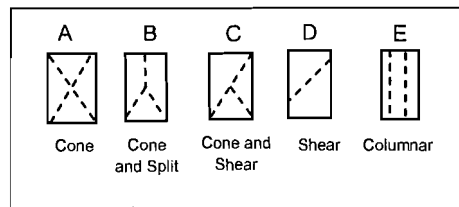
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 1:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 16.0 °C Concrete: 20.0 °C Diameter: 100 mm
Cast Slump/Flow: 115 mm Cast Air Content: 5.4 %
Initial Slump: 115 mm Initial Air Content: 5.4 %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/7 By: CH
Date Received: (Y/M/D) 2009/7/13 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
037	6	2009/7/13	BS	27610	15.2	A	
038	7	2009/7/14	BS	30480	16.7	A	
039	28	2009/8/4	BS	38370	21.1	A	
040	28	2009/8/4	BS	38220	21.0	C	
041	21	2009/7/28	BS	37730	20.7	C	
042	56	2009/9/1	BS	46150	25.3	C	

Remarks: pre-mixed flyash

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Concentrate Loadout Bldg - Footing D1

Test No.: T-10

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 6 Batch Time: 3:15
Ticket No: Mix No:
Load Amount: 6.0 m³ Cumulative: 36.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

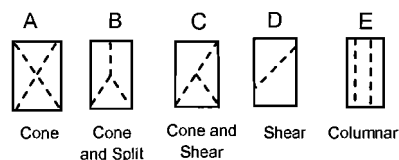
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 3:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 19.0 °C Concrete: 20.6 °C Diameter: 100 mm
Cast Slump/Flow: 110 mm Cast Air Content: 5.0 %
Initial Slump: 110 mm Initial Air Content: 5.0 %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/7 By: CH
Date Received: (Y/M/D) 2009/7/13 By: BS

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
042	6	2009/7/13	BS	27340	15.0	A	
044	7	2009/7/14	BS	28040	15.4	D	
045	28	2009/8/4	BS	37020	20.3	A	
046	28	2009/8/4	BS	38150	20.9	A	
047	21	2009/7/28	BS	36690	20.1	D	
048	56	2009/9/1	BS	45920	25.2	A	

Remarks: pre-mixed flyash

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Concentrate Loadout Bldg - Footing A2-A3

Test No.: T-11

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 4 Batch Time: 11:45
Ticket No: Mix No:
Load Amount: 6.0 m³ Cumulative: 24.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

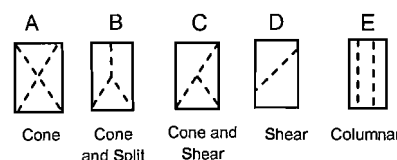
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 12:05 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 14.6 °C Concrete: 17.2 °C Diameter: 100 mm
Cast Slump/Flow: 70 mm Cast Air Content: 5.9 %
Initial Slump: 70 mm Initial Air Content: 4.5 %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/9 By: CH
Date Received: (Y/M/D) 2009/7/14 By: BS

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
049	5	2009/7/14	BS	21030	11.5	A	
050	7	2009/7/16	BS	23640	13.0	A	
051	28	2009/8/6	BS	35960	19.7	C	
052	28	2009/8/6	BS	36760	20.2	C	
053	18	2009/7/27	BS	31800	17.5	D	
054	56	2009/9/3	CH	43280	23.7	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Concentrate Loadout Bldg - Footing B6

Test No.: T-12

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL	
Truck No: 8	Batch Time:
Ticket No: 16	Mix No:
Load Amount: 6.0 m ³	Cumulative: 48.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: InterCem	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐	Air Content: 5 - 8 %
Other:	Winter Heat: ☐

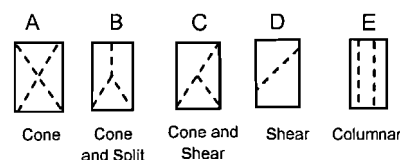
Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: MPa	Test Age: days
Slump/Flow: ± mm	Air Content: ± %
Class of Concrete:	Cement Type:

Field Test Data

Test Time:	Unit Weight: kg/m ³	Mould Type: Plastic
Temperature: Air: 14.6 °C Concrete: 17.7 °C	Diameter: 100 mm	
Cast Slump/Flow: mm	Cast Air Content: 3.8 %	
Initial Slump: mm	Initial Air Content: %	
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)		
Date Cast: (Y/M/D) 2009/7/9	By: CH	
Date Received: (Y/M/D) 2009/7/14	By: BS	

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
055	5	2009/7/14	BS	24750	13.5	A	
056	7	2009/7/16	BS	28100	15.4	C	
057	28	2009/8/6	BS	41320	22.7	D	
058	28	2009/8/6	BS	39630	21.8	A	
060	18	2009/7/27	BS	35900	19.7	A	
059	56	2009/9/3	CH	45930	25.2	A	

Remarks: * 1 L of air added after air test. Truck allowed to proceed based on previous results of air addition

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Concentrate Loadout Bldg - Footing G6

Test No.: T-13

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 4 Batch Time: 11:30
Ticket No: 24 Mix No:
Load Amount: 6.0 m³ Cumulative: 24.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5- 8 %
Other: Winter Heat: ☐

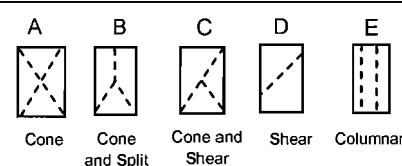
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: 28 days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 12:00 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 12.8 °C Concrete: 16.9 °C Diameter: 100 mm
Cast Slump/Flow: 75 mm Cast Air Content: 6.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/10 By: CH
Date Received: (Y/M/D) 2009/7/14 By: BS

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
061	4	2009/7/14	BS	23210	12.7	A	
062	7	2009/7/17	BS	28360	15.6	C	
063	28	2009/8/7	BS	40230	22.1	A	
064	28	2009/8/7	BS	39290	21.6	D	
065	17	2009/7/28	BS	34870	19.1	D	
066	56	2009/9/4	JP	50070	27.5	B	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Building - Footing F3

Test No.: T-14 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 1:15
Ticket No: 31 Mix No:
Load Amount: 6.0 m³ Cumulative: 24.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5- 8 %
Other: Winter Heat: ☐

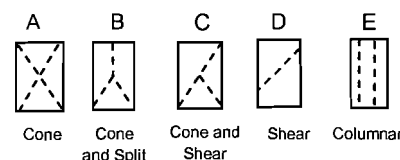
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 2:00 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 20.0 °C Concrete: 19.8 °C Diameter: 100 mm
Cast Slump/Flow: 120 mm Cast Air Content: 6.0 %
Initial Slump: mm Initial Air Content: 3.8 %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/14 By: CH
Date Received: (Y/M/D) 2009/7/17 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
067	3	2009/7/17	BS	15650	8.6	C	
068	7	2009/7/21	BS	21820	12.0	C	
069	28	2009/8/11	BS	33740	18.5	A	
070	28	2009/8/11	BS	34330	18.8	A	
071	14	2009/7/28	BS	28980	15.9	A	
072	56	2009/9/8	JP	41100	22.6	B	

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Consultants Ltd.



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
F8 1/4, bottom 1/3 of fdn, just N of column

Test No.: T-15 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3/8 Batch Time: 11:15
Ticket No: 36 Mix No:
Load Amount: 6.0 m³ Cumulative: 18.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5- 8 %
Other: Winter Heat: ☐

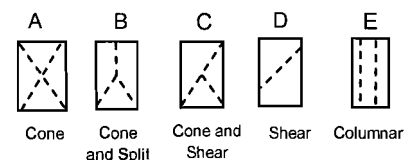
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 11:20 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 14.0 °C Concrete: 16.0 °C Diameter: 100 mm
Cast Slump/Flow: 90 mm Cast Air Content: 6.8 %
Initial Slump: 90 mm Initial Air Content: 6.8 %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/16 By: RC/VW
Date Received: (Y/M/D) 2009/7/21 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
073	5	2009/7/21	BS	22780	12.5	A	
074	7	2009/7/23	BS	27730	15.2	C	
075	29	2009/8/1	BS	40380	22.2	A	
076	28	2009/8/1	BS	39970	21.9	C	
077	14	2009/7/30	BS	31990	17.6	A	
078	56	2009/9/10	JP	45480	25.0	B	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg - Footing F10

Test No.: T-16 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1/2 Batch Time: 2:06
Ticket No: 42 Mix No:
Load Amount: 4.0 m³ Cumulative: 4.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5- 8 %
Other: Winter Heat: ☐

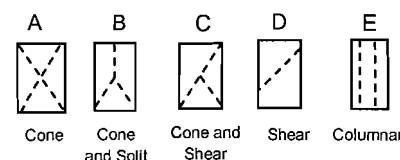
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 2:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 12.1 °C Concrete: 18.8 °C Diameter: 100 mm
Cast Slump/Flow: 110 mm Cast Air Content: 6.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): N y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/18 By: RC
Date Received: (Y/M/D) 2009/7/21 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
073	5	2009/7/21	BS	22780	12.5	A	
074	7	2009/7/23	BS	27730	15.2	C	
075	29	2009/8/1	BS	40380	22.2	A	
076	28	2009/8/1	BS	39970	21.9	C	
077	14	2009/7/30	BS	31990	17.6	A	
078	56	2009/9/10	JP	45480	25.0	B	

Remarks: Initial Curing Temperatures: Min 12.8°C Max 19.8°C

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Concentrate Loadout Bldg - Column G3

Test No.: T-18 Placing Method: Pump

Information From Delivery Ticket

Supplier: **IDL**
Truck No: **1** Batch Time: **5:30**
Ticket No: Mix No:
Load Amount: **6.0** m³ Cumulative: **58.0** m³
Strength: **30** MPa Max Agg. Size: **20** mm
Cement Type: **InterCem** Slump/Flow: **80** mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: **4-7** %
Other: Winter Heat: ☐

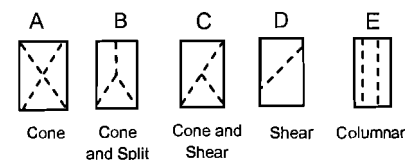
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: **±** mm Air Content: **±** %
Class of Concrete: Cement Type:

Field Test Data

Test Time: **10:40** Unit Weight: kg/m³ Mould Type: **Plastic**
Temperature: Air: **14.7** °C Concrete: **15.7** °C Diameter: **100** mm
Cast Slump/Flow: **80** mm Cast Air Content: **6.2** %
Initial Slump: **85** mm Initial Air Content: **6.8** %
Concrete Setting Temperature Within CSA Limits (15-25 °C): **Y** y/n (see remarks if No)
Date Cast: (Y/M/D) **2009/7/21** By: **RC**
Date Received: (Y/M/D) **2009/7/24** By: **BS**

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
083	3	2009/7/24	BS	21230	11.7	A	
084	7	2009/7/28	BS	31340	17.2	C	
085	14	2009/8/4	BS	35130	19.3	C	
086	28	2009/8/18	BS	41320	22.7	A	
087	56	2009/9/15	JMP	49280	27.1	A	
088	56	2009/9/15	JMP	47860	26.3	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Conc Loadout Bldg - grade beam between F5-G6

Test No.: T-19

Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 5 Batch Time: 12:20
Ticket No: Mix No:
Load Amount: 6.0 m³ Cumulative: 30.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

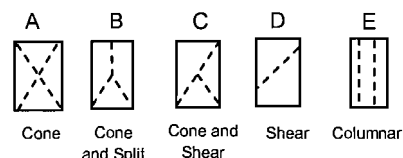
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 12:45 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 15.1 °C Concrete: 17.1 °C Diameter: 100 mm
Cast Slump/Flow: 115 mm Cast Air Content: 4.6 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/21 By: RC
Date Received: (Y/M/D) 2009/7/24 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
089	3	2009/7/24	BS	22120	12.1	A	
090	7	2009/7/28	BS	31790	17.5	A	
091	14	2009/8/4	BS	35560	19.5	A	
092	28	2009/8/18	BS	42620	23.4	D	
093	56	2009/9/15	JMP	60390	27.7	A	
094	56	2009/9/15	JMP	50810	27.9	B	

Remarks: ACL grout tested truck #2; Air = 4.6%; Slump 115 mm

Also tested truck #7; Air = 4.5%; Slump 95 mm

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Footing A1 - B1; 4 m S of A1
(1/2 between A1 - B1)

Test No.: T-20 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 12:20
Ticket No: 61 Mix No: 001
Load Amount: 7.0 m³ Cumulative: 21.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

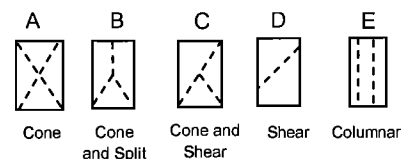
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 10:40 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 18.6 °C Concrete: 16.7 °C Diameter: 100 mm
Cast Slump/Flow: 80 mm Cast Air Content: 5.0 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/23 By: RC
Date Received: (Y/M/D) 2009/7/27 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
095	4	2009/7/27	BS	25900	14.2	D	
096	7	2009/7/30	BS	32470	17.8	A	
097	14	2009/8/6	BS	38470	21.1	A	
098	28	2009/8/20	BS	41820	23.1	C	
099	56	2009/9/17	JMP	49920	27.4	B	
100	56	2009/9/17	JMP	51660	28.4	C	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Footing A5 - B5; upper half of footing
(1/2 between A1 - B1)

Test No.: T-21 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 10 Batch Time: 1:35
Ticket No: 68 Mix No: 001
Load Amount: 7.0 m³ Cumulative: 70.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

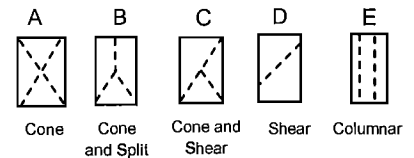
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 2:00 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 14.2 °C Concrete: 17.1 °C Diameter: 100 mm
Cast Slump/Flow: 80 mm Cast Air Content: 6.0 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/23 By: RC
Date Received: (Y/M/D) 2009/7/27 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
101	4	2009/7/27	BS	23730	13.0	A	
102	7	2009/7/30	BS	29600	16.2	A	
103	14	2009/8/6	BS	35210	19.3	A	
104	28	2009/8/20	BS	39880	21.9	C	
105	56	2009/9/17	JMP	47850	26.3	A	
106	56	2009/9/17	JMP	48220	26.5	B	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg Foundation
B3 - B4 top 1/3

Test No.: T-22 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 11:45
Ticket No: 74 Mix No: 001
Load Amount: 8.0 m³ Cumulative: 24.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

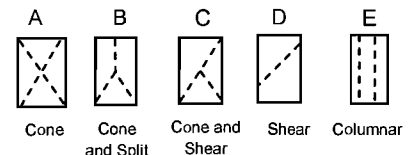
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 11:55 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 15.6 °C Concrete: 17.5 °C Diameter: 100 mm
Cast Slump/Flow: 120 mm Cast Air Content: 6.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/25 By: RC
Date Received: (Y/M/D) 2009/7/28 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
107	3	2009/7/28	BS	22740	12.5	C	
108	7	2009/8/1	BS	26840	14.7	D	
109	14	2009/8/8	BS	32720	18.0	C	
110	28	2009/8/22	BS	38510	21.1	C	
111	56	2009/9/19	JMP	43810	24.1	D	
112	56	2009/9/19	JMP	43300	23.8	B	

Remarks: Test truck #1 - Air = 4%; Slump 80 mm. No cyl.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Site Foundation
top half of B6

Test No.: T-23 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: Batch Time:
Ticket No: 78 Mix No:
Load Amount: 8.0 m³ Cumulative: 56.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

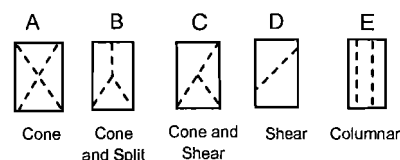
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 13:05 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 19.5 °C Concrete: 17.1 °C Diameter: 100 mm
Cast Slump/Flow: 120 mm Cast Air Content: 6.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/25 By: RC
Date Received: (Y/M/D) 2009/7/28 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
113	3	2009/7/28	BS	22740	12.5	C	
114	7	2009/8/1	BS	26840	14.7	D	
115	14	2009/8/8	BS	32720	18.0	C	
116	28	2009/8/22	BS	38510	21.1	C	
117	56	2009/9/19	JMP	43810	24.1	D	
118	56	2009/9/19	JMP	43300	23.8	B	

Remarks: Test truck #1 - Air = 4%; Slump 80 mm. No cyl.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Grade beam between B6 - A6
upper 1/3

Test No.: T-24

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 1:40
Ticket No: 84 Mix No: 001
Load Amount: 8.0 m³ Cumulative: 49.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

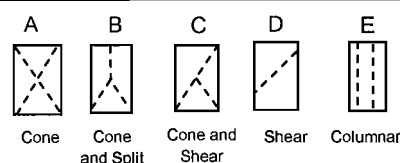
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 1:55 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 19.0 °C Concrete: 19.1 °C Diameter: 100 mm
Cast Slump/Flow: 110 mm Cast Air Content: 5.3 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/27 By: RC
Date Received: (Y/M/D) 2009/7/30 By: BS

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
119	3	2009/7/30	BS	23570	12.9	A	
120	7	2009/8/3	BS	30230	16.6	C	
121	14	2009/8/10	BS	33480	18.4	A	
122	28	2009/8/24	CH	39590	21.7	A	
123	56	2009/9/21	JMP	45940	25.2	B	
124	56	2009/9/21	JMP	45580	25.0	B	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
B11 Fdn Lower 1/2

Test No.: T-25 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 6 Batch Time: 10:55
Ticket No: 94 Mix No: 001
Load Amount: 8.0 m³ Cumulative: 48.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

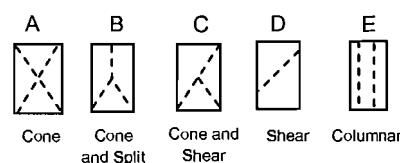
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 11:05 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 19.1 °C Concrete: 20.1 °C Diameter: 100 mm
Cast Slump/Flow: 120 mm Cast Air Content: 4.6 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C) : Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/28 By: RC
Date Received: (Y/M/D) 2009/7/31 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
125	3	2009/7/31	BS	28210	15.5	C	
126	7	2009/8/4	BS	32920	18.1	A	
127	10	2009/8/6	BS	32870	18.0	C	
128	19	2009/8/26	BS	44720	24.6	D	
129	56	2009/9/22	JMP	47330	26.0	B	
130	56	2009/9/22	JMP	47420	26.1	B	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
A9-B9 Fdn 1/2 way bottom 1/3

Test No.: T-26 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 14 Batch Time: 1:46
Ticket No: Mix No: 001
Load Amount: 8.0 m³ Cumulative: 112.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

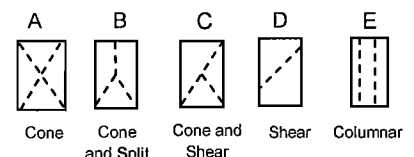
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 2:10 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 23.7 °C Concrete: 23.1 °C Diameter: 100 mm
Cast Slump/Flow: 120 mm Cast Air Content: 5.0 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/28 By: RC
Date Received: (Y/M/D) 2009/7/31 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
131	3	2009/7/31	BS	26790	14.7	C	
132	7	2009/8/4	BS	30750	16.9	A	
133	10	2009/8/6	BS	30470	16.7	C	
134	29	2009/8/26	BS	41250	22.6	A	
135	56	2009/9/22	JMP	43140	23.7	B	
136	56	2009/9/22	JMP	44240	24.3	D	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Fdn B8 3/4 upper lift

Test No.: T-27 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 19/21 Batch Time: 3:40
Ticket No: Mix No: 001
Load Amount: 8.0 m³ Cumulative: 152.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

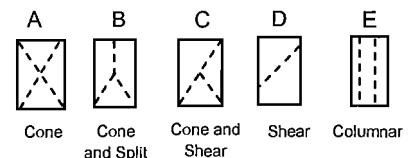
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 4:10 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 28.0 °C Concrete: 23.1 °C Diameter: 100 mm
Cast Slump/Flow: 95 mm Cast Air Content: 5.0 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/28 By: RC
Date Received: (Y/M/D) 2009/7/31 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
137	3	2009/7/31	BS	25770	14.1	C	
138	7	2009/8/4	BS	30380	16.7	A	
139	10	2009/8/6	BS	30980	17.0	C	
140	29	2009/8/26	BS	42930	23.6	C	
141	56	2009/9/22	JMP	47520	26.1	C	
142	56	2009/9/22	JMP	46490	25.5	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Fdn F2; SW corner
upper part MCK Bldg

Test No.: T-28 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 10:40
Ticket No: 112 Mix No: 001
Load Amount: 8.0 m³ Cumulative: 24.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

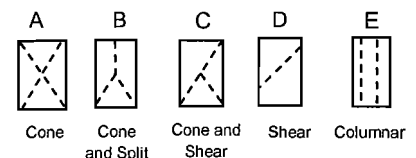
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 11:05 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 26.8 °C Concrete: 21.0 °C Diameter: 100 mm
Cast Slump/Flow: 120 mm Cast Air Content: 4.1 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/7/30 By: RC
Date Received: (Y/M/D) 2009/8/2 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
143	3	2009/8/2	BS	21550	11.8	A	
144	7	2009/8/6	BS	27970	15.4	C	
145	14	2009/8/13	BS	39370	19.4	A	
146	28	2009/8/27	BS	39050	21.4	A	
147	56	2009/9/24	KT	42790	23.5	C	
148	56	2009/9/24	KT	44450	24.4	C	

Remarks:

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Charles C.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

fdn A15
NE corner of box

Test No.: T-29 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL	
Truck No: 3	Batch Time: 2:05
Ticket No: 119	Mix No: 001
Load Amount: 8.0 m ³	Cumulative: 24.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: InterCem	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐	Air Content: 5-8 %
Other:	Winter Heat: ☐

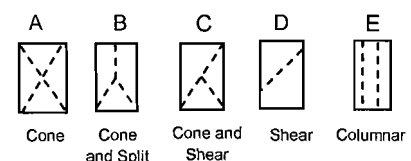
Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: MPa	Test Age: days
Slump/Flow: ± mm	Air Content: ± %
Class of Concrete:	Cement Type:

Field Test Data

Test Time: 2:25	Unit Weight: kg/m ³	Mould Type: Plastic
Temperature: Air: 26.0 °C	Concrete: 24.1 °C	Diameter: 100 mm
Cast Slump/Flow: 110 mm	Cast Air Content: 5.0 %	
Initial Slump: mm	Initial Air Content: %	
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)		
Date Cast: (Y/M/D) 2009/7/31	By: RC	
Date Received: (Y/M/D) 2009/8/3	By: BS	

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
149	3	2009/8/3	BS	28430	15.6	C	
150	7	2009/8/7	BS	35820	19.7	A	
151	14	2009/8/14	BS	43280	23.8	C	
152	28	2009/8/28	BS	48810	26.8	D	
153	56	2009/9/25	KT	51780	28.4	B	
154	56	2009/9/25	KT	49210	27.0	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Line 2 Fdn @ 2m N of D2

Test No.: T-30 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 3:45
Ticket No: 124 Mix No: 001
Load Amount: 8.0 m³ Cumulative: 24.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

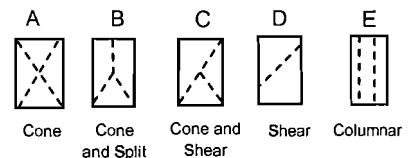
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 3:55 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 13.0 °C Concrete: 17.3 °C Diameter: 100 mm
Cast Slump/Flow: 110 mm Cast Air Content: 6.0 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/2 By: RC
Date Received: (Y/M/D) 2009/8/9 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
155	7	2009/8/9	BS	31590	17.3	C	
156	14	2009/8/16	BS	38030	20.9	A	
157	28	2009/8/30	BS	46950	25.8	A	
158	56	2009/9/27	KT	49930	27.4	C	
159	56	2009/9/27	KT	50900	27.9	D	

Remarks: Could not make 6th cyl. Concrete was thrown out by Randall Springer.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Line 2 Fdn 6m N of D2
Concentrate Loadout Bldg

Test No.: T-31 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 3:45
Ticket No: 124 Mix No: 001
Load Amount: 8.0 m³ Cumulative: 24.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: %
Other: Winter Heat: ☐

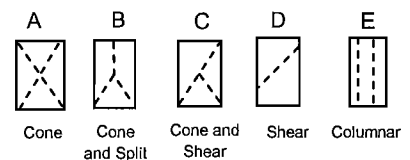
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: ± mm Air Content: ± %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 4:50 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 13.0 °C Concrete: 18.1 °C Diameter: 100 mm
Cast Slump/Flow: 85 mm Cast Air Content: 5.0 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) By:
Date Received: (Y/M/D) By:

Type of Fracture



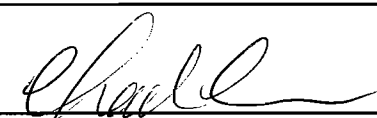
ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
160	7	2009/8/9	BS	37560	20.6	C	
161	28	2009/8/30	BS	53010	29.1	A	
162	56	2009/9/27	KT	55470	30.5	A	
163	56	2009/9/27	KT	63090	34.6	C	

Remarks: Made 4 cyl on this truck since driver is constantly lower in slump and
orr percentage.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Bldg
fdn H2, S corner

Test No.: T-32 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL	
Truck No: 2	Batch Time: 13:55
Ticket No: 130	Mix No: 001
Load Amount: 8.0 m ³	Cumulative: 16.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: InterCem	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐	Air Content: %
Other:	Winter Heat: ☐

Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: MPa	Test Age: days
Slump/Flow: ± mm	Air Content: ± %
Class of Concrete:	Cement Type:

Field Test Data

Test Time: 14:15 Unit Weight: kg/m³ Mould Type: Plastic

Temperature: Air: 13.9 °C Concrete: 18.1 °C Diameter: 100 mm

Cast Slump/Flow: 120 mm Cast Air Content: 6.6 %

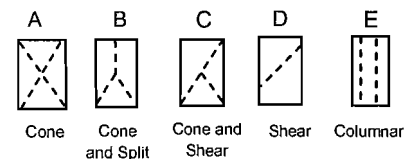
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/8/3 By: RC

Date Received: (Y/M/D) 2009/8/7 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
164	4	2009/8/7	BS	23750	13.0	C	
165	7	2009/8/10	BS	27400	15.0	C	
166	14	2009/8/17	BS	33070	18.2	C	
167	28	2009/8/31	BS	41200	22.6	C	
168	56	2009/9/28	KT	43460	23.9	B	
169	56	2009/9/28	KT	40130	22.0	D	

Remarks:

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Consultants Ltd.**



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Footings @ H8/H9 (1st m3) and H3/H4 (last 7m3)

Test No.: T-33

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: Batch Time: 10:35
Ticket No: 135 Mix No:
Load Amount: 8.0 m³ Cumulative: 32.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

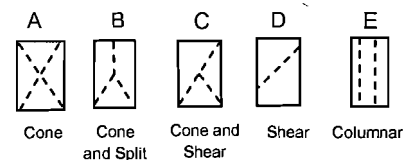
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 10:55 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 16.0 °C Concrete: 17.7 °C Diameter: 100 mm
Cast Slump/Flow: 100 mm Cast Air Content: 5.4 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/5 By: CH
Date Received: (Y/M/D) 2009/8/11 By: BS

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
170	6	2009/8/11	BS	22130	12.1	A	
171	7	2009/8/12	JP	31080	17.1	A	
172	14	2009/8/19	BS	37230	20.4	A	
173	28	2009/9/2	BS	47550	26.1	C	
174	56	2009/9/30	KT	45050	24.7	C	
175	56	2009/9/30	KT	48220	26.5	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Rod Mill - Mud Sill

Test No.: T-34 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: Batch Time: 10:35
Ticket No: Mix No:
Load Amount: 8.0 m³ Cumulative: 16.0 m³
Strength: 15 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

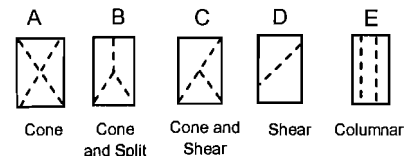
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 1:35 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 21.0 °C Concrete: 19.0 °C Diameter: 100 mm
Cast Slump/Flow: 90 mm Cast Air Content: 5.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/6 By: CH
Date Received: (Y/M/D) 2009/8/11 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
176	5	2009/8/11	BS	23170	12.7	C	
177	7	2009/8/13	BS	27480	15.1	C	
178	14	2009/8/20	BS	30130	16.5	A	
179	28	2009/9/3	CH	37610	20.6	C	
180	56	2009/10/1	KT	30910	21.4	C	
181	56	2009/10/1	KT	39580	21.7	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Pedestals/Walls from A1 to A3

Test No.: T-35 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 2 Batch Time: 3:50
Ticket No: 149 Mix No:
Load Amount: 8.0 m³ Cumulative: 34.9 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

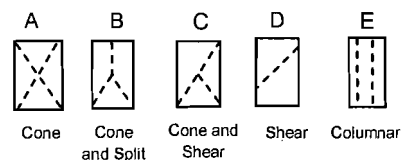
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 4:20 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 14.0 °C Concrete: 17.0 °C Diameter: 100 mm
Cast Slump/Flow: 115 mm Cast Air Content: 5.9 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/9 By: CH
Date Received: (Y/M/D) 2009/8/11 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
182	3	2009/8/12	JP	21060	11.6	B	
183	7	2009/8/16	BS	28890	15.9	A	
184	14	2009/8/23	BS	32950	18.1	C	
185	28	2009/9/6	JP	45060	24.7	B	
186	56	2009/10/4	KT	50870	27.9	C	
187	56	2009/10/4	KT	47960	26.3	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg - Pedestal/Wall between A1 + B1

Test No.: T-36 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 4:30
Ticket No: 150 Mix No:
Load Amount: 8.0 m³ Cumulative: 42.9 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

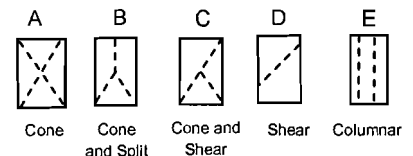
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 5:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 15.0 °C Concrete: 18.1 °C Diameter: 100 mm
Cast Slump/Flow: 100 mm Cast Air Content: 5.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/9 By: CH
Date Received: (Y/M/D) 2009/8/11 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
188	7	2009/8/16	BS	22100	12.1	A	
189	28	2009/9/6	JP	38810	21.3	B	
190	56	2009/10/4	KT	740	22.4	C	

Remarks: Cylinders were cast due to controversy over suitability of lad based on clumps of aggregate. 3 cylinders requested by S. Zhang. 189+190 to be broken at dates specified after 7 day break.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg - Footing H12/H13

Test No.: T-37 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 2:50
Ticket No: 156 Mix No:
Load Amount: 8.0 m³ Cumulative: 24.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

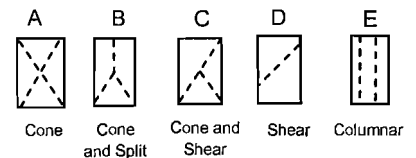
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 3:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 13.1 °C Concrete: 17.0 °C Diameter: 100 mm
Cast Slump/Flow: 80 mm Cast Air Content: 2.7 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/10 By: CH
Date Received: (Y/M/D) 2009/8/14 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
191	4	2009/8/14	BS	30720	16.9	A	
192	7	2009/8/17	BS	38210	21.0	A	
193	14	2009/8/24	CH	46130	25.3	A	
194	28	2009/9/7	JP	54010	29.7	A	
195	56	2009/10/5	KT	59390	32.6	C	
196	56	2009/10/5	KT	59190	32.8	B	

Remarks: Two air tests were conducted to ensure reading was correct.

6 additional cylinders were cast on ticket #158 @ air 6.8% to produce more representable results.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Building Footing H12/H13

Test No.: T-38 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 2 Batch Time: 3:35
Ticket No: 158 Mix No:
Load Amount: 8.0 m³ Cumulative: 43.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

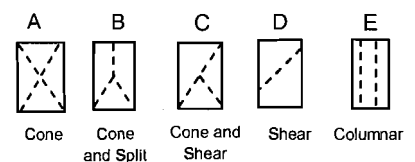
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 3:50 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 13.5 °C Concrete: 17.1 °C Diameter: 100 mm
Cast Slump/Flow: 100 mm Cast Air Content: 6.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/10 By: CH
Date Received: (Y/M/D) 2009/8/14 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
197	4	2009/8/14	BS	25930	14.0	A	
198	7	2009/8/17	BS	31780	17.4	A	
199	14	2009/8/24	CH	38790	21.3	D	
200	28	2009/9/7	JP	47680	26.2	C	
201	56	2009/10/5	KT	53400	29.3	C	
202	56	2009/10/5	KT	52030	28.6	B	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg - Footing H12/H13

Test No.: T-39 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL	
Truck No:	Batch Time: 2:30
Ticket No: 163	Mix No:
Load Amount: 8.0 m ³	Cumulative: 24.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: InterCem	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐	Air Content: 5- 8 %
Other:	Winter Heat: ☐

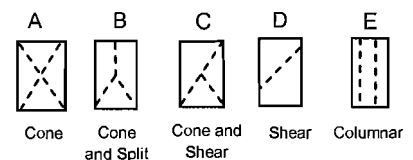
Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: MPa	Test Age: days
Slump/Flow: - mm	Air Content: %
Class of Concrete:	Cement Type:

Field Test Data

Test Time: 2:45	Unit Weight: kg/m ³	Mould Type: Plastic
Temperature: Air: 8.2 °C Concrete: 14.4 °C	Diameter: 100 mm	
Cast Slump/Flow: 80 mm	Cast Air Content: 4.6 %	
Initial Slump: mm	Initial Air Content: %	
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)		
Date Cast: (Y/M/D) 2009/8/11	By: CH	
Date Received: (Y/M/D) 2009/8/14	By: BS	

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
203	3	2009/8/14	BS	25060	13.8	A	
204	7	2009/8/18	BS	39950	19.5	C	
205	15	2009/8/26	BS	47380	26.0	A	
206	28	2009/9/8	JP	56120	30.8	B	
207	56	2009/10/6	KT	57810	31.7	C	
208	56	2009/10/6	KT	53840	29.6	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg - Footing H12/H13

Test No.: T-40 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: Batch Time: 2:00
Ticket No: 168 Mix No:
Load Amount: 8.0 m³ Cumulative: 8.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

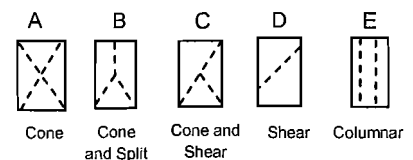
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 2:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 14.2 °C Concrete: 15.7 °C Diameter: 100 mm
Cast Slump/Flow: 80 mm Cast Air Content: 5.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/12 By: CH
Date Received: (Y/M/D) 2009/8/18 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
209	6	2009/8/18	BS	28870	15.8	A	
210	7	2009/8/19	BS	30270	16.6	C	
211	14	2009/8/26	BS	41220	22.6	C	
212	28	2009/9/9	JP	48270	26.5	B	
213	56	2009/10/7	KT	54160	29.7	A	
214	56	2009/10/7	KT	53480	29.4	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
-0.9m below top of Fdn. B12-B13; 1.5m E of B12

Test No.: T-41 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 5 Batch Time: 9:07
Ticket No: 178 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 40.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

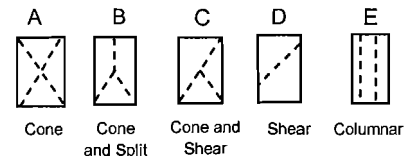
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 9:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 9.0 °C Concrete: 17.1 °C Diameter: 100 mm
Cast Slump/Flow: 110 mm Cast Air Content: 5.0 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/15 By: RC
Date Received: (Y/M/D) 2009/8/18 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
215	3	2009/8/18	BS	22280	12.2	C	
216	7	2009/8/22	BS	28420	15.6	A	
217	14	2009/8/29	BS	40010	22.0	C	
218	28	2009/9/12	JP	47850	26.3	B	
219	56	2009/10/11	KT	50270	27.6	C	
220	56	2009/10/11	KT	50820	27.9	C	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
1m N of column A12 (Pier outside Bldg)

Test No.: T-42 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 7 Batch Time: 9:45
Ticket No: 180 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 56.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

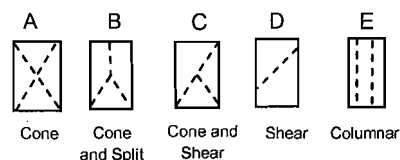
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 10:05 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 9.1 °C Concrete: 16.1 °C Diameter: 100 mm
Cast Slump/Flow: 140 mm Cast Air Content: 6.0 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/15 By: RC
Date Received: (Y/M/D) 2009/8/18 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
221	57	2009/10/11	KT	51320	28.2	C	
222	57	2009/10/11	KT	45190	24.8	C	

Remarks: IDL added 70Kg extra of cement to truck due to higher than usual slump. Pour was on Pier outside Bldg. EBA was not told of higher slump until pour was 80% complete. Larry Lebedoff.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg - Footing F3/F4

Test No.: T-40 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: Batch Time: 2:00
Ticket No: 168 Mix No:
Load Amount: 8.0 m³ Cumulative: 8.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

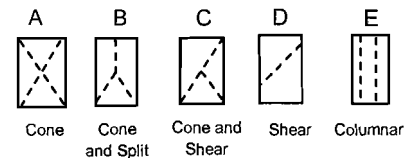
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 2:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 14.2 °C Concrete: 15.7 °C Diameter: 100 mm
Cast Slump/Flow: 80 mm Cast Air Content: 5.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/12 By: CH
Date Received: (Y/M/D) 2009/8/18 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
209	6	2009/8/18	BS	28870	15.8	A	
210	7	2009/8/19	BS	30270	16.6	C	
211	14	2009/8/26	BS	41220	22.6	C	
212	28	2009/9/9	JP	48270	26.5	B	
213	56	2009/10/7	KT	54160	29.7	A	
214	56	2009/10/7	KT	53480	29.4	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
SE Corner of B13

Test No.: T-43 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 10 Batch Time: 10:45
Ticket No: 183 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 80.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

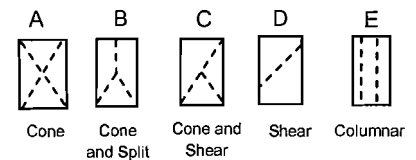
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 10:55 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 10.0 °C Concrete: 16.5 °C Diameter: 100 mm
Cast Slump/Flow: 85 mm Cast Air Content: 5.0 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/15 By: RC
Date Received: (Y/M/D) 2009/8/18 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
223	3	2009/8/18	BS	24940	13.5	A	
224	7	2009/8/22	BS	31410	17.2	A	
225	14	2009/8/29	BS	40720	22.4	A	
226	28	2009/9/12	JP	51580	28.3	A	
227	57	2009/10/11	KT	52860	29.0	C	
228	57	2009/10/11	KT	44880	24.6	C	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

2m S of A12 Fdn B12-A12; 0.3m below top of Fdn

Test No.: T-44

Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 18 Batch Time: 12:45
Ticket No: 191 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 144.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

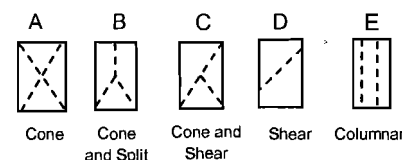
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 13:10 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 14.0 °C Concrete: 17.1 °C Diameter: 100 mm
Cast Slump/Flow: 105 mm Cast Air Content: 5.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/15 By: RC
Date Received: (Y/M/D) 2009/8/18 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
229	3	2009/8/18	BS	23480	12.9	A	
230	7	2009/8/22	BS	30600	16.8	C	
231	14	2009/8/29	BS	38600	21.2	A	
232	28	2009/9/12	JP	49820	27.3	B	
233	57	2009/10/11	KT	51520	28.3	C	
234	57	2009/10/11	KT	52620	28.9	C	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Top Layer of Column E1

Test No.: T-45 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 4 Batch Time: 17:15
Ticket No: 199 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 32.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

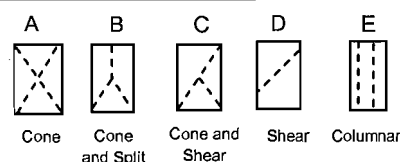
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 17:35 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 9.0 °C Concrete: 17.1 °C Diameter: 100 mm
Cast Slump/Flow: 120 mm Cast Air Content: 3.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/16 By: RC
Date Received: (Y/M/D) 2009/8/18 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
**235	3	2009/8/19	BS	**	**	**	**Reading not taken
236	7	2009/8/23	BS	30530	16.8	A	
237	14	2009/8/30	BS	44450	24.4	A	
238	28	2009/9/13	JP	53320	29.3	B	
239	57	2009/10/12	KT	58160	31.9	D	
240	57	2009/10/12	KT	51050	28.0	C	

Remarks: Tested first 2 trucks for Air/Slump

1) 4.6% S=120 2) 6.0% S=115 - Did not test 3rd truck.

Tested Truck #5=Air 5.3% slump 130 made cyl 241-246 T46

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
H4 2nd Layer

Test No.: T-46 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL	
Truck No: 5	Batch Time: 17:40
Ticket No:	Mix No: 003
Load Amount: 8.0 m ³	Cumulative: 40.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: InterCem	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐	Air Content: %
Other:	Winter Heat: ☐

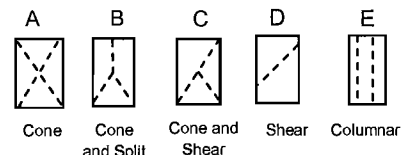
Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: MPa	Test Age: days
Slump/Flow: - mm	Air Content: %
Class of Concrete:	Cement Type:

Field Test Data

Test Time: 18:05	Unit Weight: kg/m ³	Mould Type: Plastic
Temperature: Air: 9.0 °C Concrete: 15.8 °C	Diameter: 100 mm	
Cast Slump/Flow: 130 mm	Cast Air Content: 5.3 %	
Initial Slump: mm	Initial Air Content: %	
Concrete Setting Temperature Within CSA Limits (15-25 °C) : Y y/n (see remarks if No)		
Date Cast: (Y/M/D) 2009/8/16	By: RC	
Date Received: (Y/M/D) 2009/8/18	By: BS	

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
241	3	2009/8/19	BS	20720	11.4	C	
242	7	2009/8/23	BS	27500	15.1	A	
243	14	2009/8/30	BS	42280	23.2	A	
244	28	2009/9/13	JP	50860	27.9	B	
245	57	2009/10/12	KT	53050	29.1	C	
246	57	2009/10/12	KT	55470	30.5	C	

Remarks: Made 2nd set due to Low air content in Test 45

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Consultants Ltd.**



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

1/2 Way between C15-D15 - 0.3m from
top of foundation

Test No.: T-47

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 4:28
Ticket No: 207 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 24.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

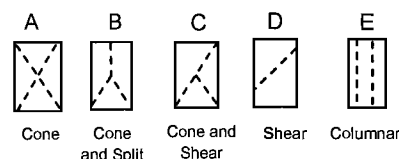
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 4:45 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 13.0 °C Concrete: 14.5 °C Diameter: 100 mm
Cast Slump/Flow: 110 mm Cast Air Content: 6.6 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/17 By: RC
Date Received: (Y/M/D) 2009/8/18 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
247	3	2009/8/20	BS	16580	9.1	A	
248	7	2009/8/24	BS	27660	15.2	A	
249	14	2009/8/31	BS	36870	20.2	C	
250	28	2009/9/14	JP	46120	25.3	B	
251	57	2009/10/13	JP	43660	24.0	A	
252	57	2009/10/13	KT	46820	25.7	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
1/2 Way H3-H2 and 12A-13A, 1st Lift of 3

Test No.: T-48 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 8 Batch Time: 8:42
Ticket No: 219 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 64.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

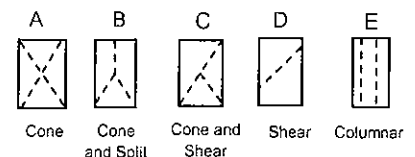
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 9:00 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 9.8 °C Concrete: 13.3 °C Diameter: 100 mm
Cast Slump/Flow: 90 mm Cast Air Content: 4.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/19 By: RC
Date Received: (Y/M/D) 2009/8/20 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
253	7	2009/8/26	BS	34720	19.1	A	
254	7	2009/8/26	BS	32940	18.1	C	
255	14	2009/9/2	BS	41100	22.6	A	
256	28	2009/9/16	JP	45520	25.0	A	
257	57	2009/10/15	KT	49520	27.2	C	
258	57	2009/10/15	KT	48900	26.8	C	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Just E of 13B & H1; discharge move immediately
to opposite corner (both on 2nd lift)

Test No.: T-49 Placing Method: Pump

Information From Delivery Ticket

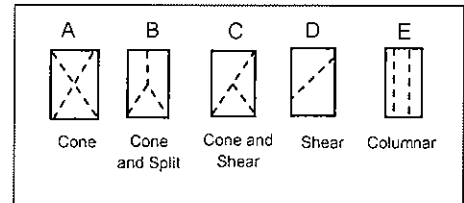
Supplier: IDL
Truck No: 16 Batch Time: 10:32
Ticket No: 227 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 128.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 10:50 Unit Weight: kg/m³ Mould Type: Plastic Type of Fracture
Temperature: Air: 12.3 °C Concrete: 16.1 °C Diameter: 100 mm
Cast Slump/Flow: 120 mm Cast Air Content: 6.6 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/19 By: RC
Date Received: (Y/M/D) 2009/8/20 By: BS



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
259	7	2009/8/26	BS	29260	16.1	D	
260	7	2009/8/26	BS	26710	14.7	C	
261	14	2009/9/2	BS	33790	18.5	A	
262	28	2009/9/16	JP	36260	19.9	C	
263	57	2009/10/15	KT	43110	23.7	A	
264	57	2009/10/15	KT	41370	22.7	A	

Remarks:

Reviewed By:

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Whitehorse YT

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**EBA Engineering
Consultants Ltd.**



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Just E of H2 & 13B; 3rd Lift

Test No.: T-50

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 26 Batch Time: 12:52
Ticket No: 237 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 208.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

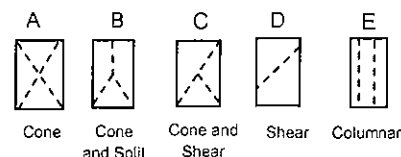
Field Test Data

Test Time: 13:05 Unit Weight: kg/m³ Mould Type: Plastic Type of Fracture
Temperature: Air: 13.6 °C Concrete: 15.2 °C Diameter: 100 mm
Cast Slump/Flow: 105 mm Cast Air Content: 5.0 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/8/19 By: RC

Date Received: (Y/M/D) 2009/8/20 By: BS



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
265	7	2009/8/26	BS	31270	17.2	A	
266	7	2009/8/26	BS	32120	17.6	C	
267	14	2009/9/2	BS	34450	18.9	A	
268	28	2009/9/16	JP	41180	22.6	A	
269	56	2009/10/15	KT	44470	24.4	A	
270	56	2009/10/15	KT	44430	24.4	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

1/2 way between H1 & H2 columns line 13b

Test No.: T-51

Placing Method:

Pump

Information From Delivery Ticket

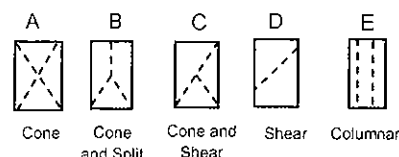
Supplier: IDL
Truck No: Batch Time: 3:24
Ticket No: 244 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 264.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

Contract Specifications as Provided

Same as Delivery Ticket: ☐ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 3:55 Unit Weight: kg/m³ Mould Type: Plastic Type of Fracture
Temperature: Air: 14.1 °C Concrete: 17.8 °C Diameter: 100 mm
Cast Slump/Flow: 115 mm Cast Air Content: 7.0 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/19 By: RC
Date Received: (Y/M/D) 2009/8/20 By: BS



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
271	7	2009/8/26	BS	28270	15.5	C	
272	7	2009/8/26	BS	29800	16.4	A	
273	14	2009/9/2	BS	32610	17.9	C	
274	28	2009/9/16	JP	38430	21.1	B	
275	56	2009/10/15	KT	40590	22.3	A	
276	56	2009/10/15	KT	40510	22.2	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Foundation F14 (part of load went into F15 as well)

Test No.: T-52 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL	
Truck No: 2	Batch Time: 4:28
Ticket No: 248	Mix No: 003
Load Amount: 8.0 m ³	Cumulative: 16.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: InterCem	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐	Air Content: 5-8 %
Other:	Winter Heat: ☐

Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: MPa	Test Age: days
Slump/Flow: mm	Air Content: %
Class of Concrete:	Cement Type:

Field Test Data

Test Time: 4:40 Unit Weight: kg/m³ Mould Type: Plastic

Temperature: Air: 11.2 °C Concrete: 16.4 °C Diameter: 100 mm

Cast Slump/Flow: 115 mm Cast Air Content: 5.6 %

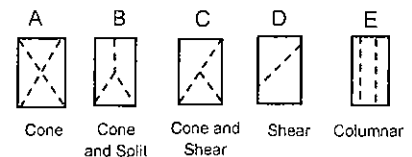
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/8/20 By: RC

Date Received: (Y/M/D) 2009/8/20 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
277	6	2009/8/26	BS	30560	16.8	A	
278	7	2009/8/27	BS	30360	16.7	C	
279	14	2009/9/3	CH	34100	18.7	D	
280	28	2009/9/17	JP	41290	22.7	C	
281	56	2009/10/16	KT	46250	25.4	A	
282	56	2009/10/16	KT	45730	25.1	A	

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Consultants Ltd.**



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Bottom of F13 (column)

Test No.: T-53 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 17:04
Ticket No: 252 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 8.2 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5-8 %
Other: Winter Heat: ☐

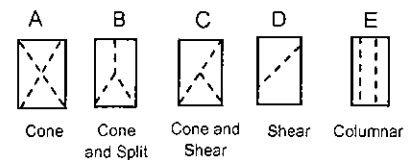
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 17:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 13.1 °C Concrete: 18.0 °C Diameter: 100 mm
Cast Slump/Flow: 90 mm Cast Air Content: 5.2 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/22 By: RC
Date Received: (Y/M/D) 2009/8/24 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
283	4	2009/8/26	BS	24480	13.4	C	
284	7	2009/8/29	BS	31500	17.3	A	
285	14	2009/9/5	JP	40780	22.4	C	
286	28	2009/9/19	JP	40820	22.4	D	
287	57	2009/10/18	KT	47800	26.2	C	
288	57	2009/10/18	KT	46590	25.6	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Hoper pump truck, mix went into Lock-Block

Test No.: T-54

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 10:40
Ticket No: Mix No:
Load Amount: 3.0 m³ Cumulative: 3.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

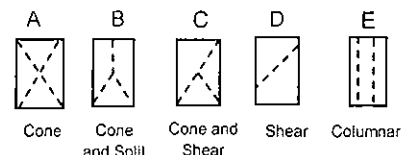
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 11:00 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 7.0 °C Concrete: 16.1 °C Diameter: 100 mm
Cast Slump/Flow: 80 mm Cast Air Content: 4.2 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/23 By: RC
Date Received: (Y/M/D) 2009/8/27 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
289	3	2009/8/26	BS	24660	13.5	A	
290	7	2009/8/30	BS	35220	19.3	C	
291	7	2009/8/30	BS	34080	18.7	A	
292	14	2009/9/6	JP	41750	22.9	B	
293	28	2009/9/20	JP	49370	27.1	C	
294	28	2009/9/20	JP	50950	28.0	B	
295	57	2009/10/19	KT	54990	30.2	C	
296	57	2009/10/19	KT	55430	30.4	A	

Remarks:

Reviewed By:

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Consultants Ltd.



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

At pump truck hopper - mix went into Lock-Block

Test No.: T-54a

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 10:40
Ticket No: Mix No:
Load Amount: 3.0 m³ Cumulative: 3.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

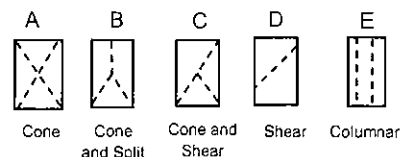
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 11:00 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 7.0 °C Concrete: 16.1 °C Diameter: 100 mm
Cast Slump/Flow: 80 mm Cast Air Content: 4.2 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/23 By: RC
Date Received: (Y/M/D) 2009/8/27 By: BS

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
297							additional cylinder cast for IDL
298							additional cylinder cast for IDL
299							additional cylinder cast for IDL
300							additional cylinder cast for IDL

Remarks:

additional cylinders cast by EBA for IDL, not tested by EBA

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Consultants Ltd.



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Pedestal A12 and wall A12-A13 (2nd lift)

Test No.: T-55

Placing Method:

Pump

Information From Delivery Ticket

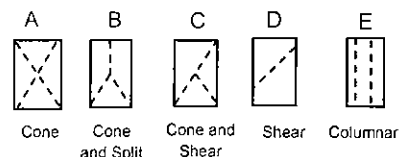
Supplier: IDL
Truck No: 3 Batch Time: 15:30
Ticket No: 257 Mix No: 002
Load Amount: 8.0 m³ Cumulative: 32.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 15:45 Unit Weight: kg/m³ Mould Type: Plastic Type of Fracture
Temperature: Air: 8.7 °C Concrete: 16.9 °C Diameter: 100 mm
Cast Slump/Flow: 105 mm Cast Air Content: 4.6 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/23 By: RC
Date Received: (Y/M/D) 2009/8/27 By: BS



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
301	3	2009/8/26	BS	21210	11.6	A	
302	7	2009/8/30	BS	31870	17.5	C	
303	14	2009/9/6	JP	40210	22.1	B	
304	28	2009/9/20	JP	47270	26.0	A	
305	57	2009/10/19	KT	54720	30.0	D	
306	57	2009/10/19	KT	55110	30.3	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
H15 top Layer

Test No.: T-56 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL	
Truck No:	Batch Time: 13:53
Ticket No: 267	Mix No: 002
Load Amount: 8.0 m ³	Cumulative: 48.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: InterCem	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐	Air Content: 5 - 8 %
Other:	Winter Heat: ☐

Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: MPa	Test Age: days
Slump/Flow: mm	Air Content: %
Class of Concrete:	Cement Type:

Field Test Data

Test Time: 2:40 Unit Weight: kg/m³ Mould Type: Plastic

Temperature: Air: 7.0 °C Concrete: 13.7 °C Diameter: 100 mm

Cast Slump/Flow: 110 mm Cast Air Content: 4.6 %

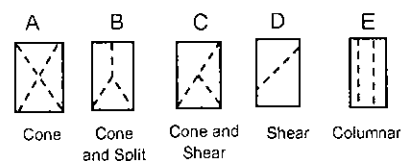
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/8/25 By: RC

Date Received: (Y/M/D) 2009/8/27 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
307	3	2009/8/28	BS	22810	12.5	A	
308	7	2009/9/1	BS	31470	17.3	A	
309	14	2009/9/8	JP	42370	23.3	C	
310	28	2009/9/22	JP	50790	27.9	C	
311	56	2009/10/21	KT	52580	28.9	C	
312	56	2009/10/21	KT	54240	29.8	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Into Lock-Blocks

Test No.: T-57 (Trial) Placing Method: Chute

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 8:00
Ticket No: Mix No: 003
Load Amount: 3.0 m³ Cumulative: 3.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

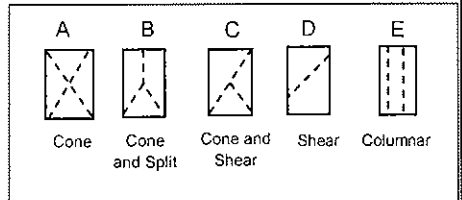
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 8:20 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 3.7 °C Concrete: 13.7 °C Diameter: 100 mm
Cast Slump/Flow: 135 mm Cast Air Content: 10 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/27 By: RC
Date Received: (Y/M/D) 2009/8/29 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
313	3	2009/8/30	BS	23420	12.5	A	
314	7	2009/9/3	CH	30250	16.6	A	
315	14	2009/9/10	JP	36690	20.1	C	
316	28	2009/9/24	KT	37640	20.7	C	
317	56	2009/10/23	KT	42460	23.3	C	
318	56	2009/10/23	KT	44060	24.2	C	

Remarks:

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**EBA Engineering
Consultants Ltd.**



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Trail - test batch for Lock-Block

Test No.: T-58 (Trial) Placing Method: Chute

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 3:30
Ticket No: Mix No: 003
Load Amount: 3.0 m³ Cumulative: 3.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

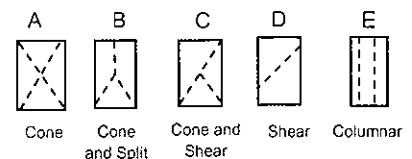
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 3:55 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 18.7 °C Concrete: 21.5 °C Diameter: 100 mm
Cast Slump/Flow: 100 mm Cast Air Content: 5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/28 By: RC
Date Received: (Y/M/D) 2009/8/30 By: BS

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
319	4	2009/9/1	BS	31970	17.6	C	
320	7	2009/9/4	JP	35630	19.6	B	
321	14	2009/9/11	JP	43980	24.1	B	
322	28	2009/9/25	KT	49070	26.9	C	
323	56	2009/10/23	KT	58420	32.1	C	
324	56	2009/10/23	KT	57080	31.3	C	

Remarks:

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Consultants Ltd.**



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Column 15D (2nd Lift)

Test No.: T-59 Placing Method: Pump

Information From Delivery Ticket

Supplier:	IDL		
Truck No:	3	Batch Time:	2:55
Ticket No:	257	Mix No:	003
Load Amount:	8.0 m ³	Cumulative:	16.0 m ³
Strength:	30 MPa	Max Agg. Size:	20 mm
Cement Type:	InterCem	Slump/Flow:	80 mm
Admixture: Air	☒	SP	☒ Acc. ☐ Air Content: 5 - 8 %
Other:		Winter Heat:	☐

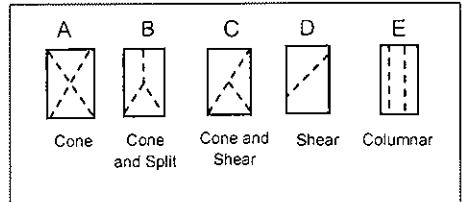
Contract Specifications as Provided

Same as Delivery Ticket:	☒	Not Available:	☐
Strength:	MPa	Test Age:	days
Slump/Flow:	- mm	Air Content:	%
Class of Concrete:		Cement Type:	

Field Test Data

Test Time: 3:05 Unit Weight: kg/m³ Mould Type: Plastic
 Temperature: Air: 16.8 °C Concrete: 22.4 °C Diameter: 100 mm
 Cast Slump/Flow: 80 mm Cast Air Content: 4.1 %
 Initial Slump: mm Initial Air Content: %
 Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
 Date Cast: (Y/M/D) 2009/8/29 By: RC
 Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
325	3	2009/9/1	BS	23460	12.9	C	
326	7	2009/9/5	JP	294901	16.2	B	
327	14	2009/9/12	JP	38020	20.9	B	
328	28	spe26	KT	40620	22.3	A	
329	56	2009/10/24	KT	46860	25.7	C	
330	56	2009/10/24	KT	48090	26.4	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

North Foundation 1/2 way between East & middle column; 2nd lift crusher bldg.

Test No.: T-60 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 17:10
Ticket No: 287 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 24.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

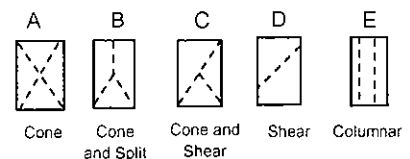
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 17:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 15.4 °C Concrete: 17.9 °C Diameter: 100 mm
Cast Slump/Flow: 100 mm Cast Air Content: 6 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/8/31 By: RC
Date Received: (Y/M/D) 2009/9/3 By: JP

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
331	4	2009/9/4	JP	24620	13.5	C	
332	7	2009/9/7	JP	29010	15.9	B	
333	14	2009/9/14	JP	39340	21.6	B	
334	28	2009/9/28	KT	40970	22.5	A	
335	56	2009/10/26	KT	46230	25.4	C	
336	56	2009/10/26	KT	46980	25.8	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Crusher Bldg. most southerly footing; 2m East
of most westerly column of footing; 2nd lift

Test No.: T-61 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: Batch Time: 3:15
Ticket No: 297 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 24.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

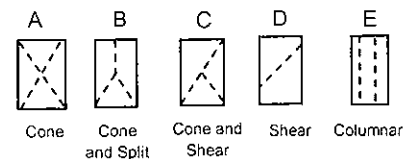
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 3:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 17.2 °C Concrete: 19.7 °C Diameter: 100 mm
Cast Slump/Flow: 120 mm Cast Air Content: 5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/9/1 By: RC
Date Received: (Y/M/D) 2009/9/3 By: JP

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
337	3	2009/9/4	JP	18980	10.4	D	
338	7	2009/9/8	JP	28750	15.8	B	
339	14	2009/9/15	JP	36030	19.8	C	
340	28	2009/9/29	KT	361530	17.3	C	Bad Capping?
341	56	2009/10/27	KT	43940	24.1	A	
342	56	2009/10/27	KT	43130	23.7	A	

Remarks:

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Consultants Ltd.**



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Crusher Bldg Fdn.; most easterly Ftg. 1/2 between
most northerly columns 2nd lift

Test No.: T-62 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 8:05
Ticket No: 302 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 24.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

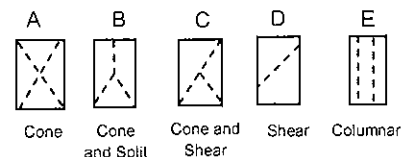
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 8:25 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 7.2 °C Concrete: 17.9 °C Diameter: 100 mm
Cast Slump/Flow: 120 mm Cast Air Content: 7.2 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/9/2 By: RC
Date Received: (Y/M/D) 2009/9/3 By: JP

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
343	3	2009/9/5	JP	20140	11.1	B	
344	7	2009/9/9	JP	25670	14.1	B	
345	14	2009/9/16	JP	20840	16.4	B	
346	28	2009/9/30	KT	34730	19.1	C	
347	56	2009/10/28	KT	38470	21.1	A	
348	56	2009/10/28	KT	40060	22.0	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Small columns B13; B15A; F15A; F13A; F13B; F15A
(support for machinery) on Mill Bldg.

Test No.: T-63

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 2:35
Ticket No: 308 Mix No: 003
Load Amount: 4.0 m³ Cumulative: 4.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

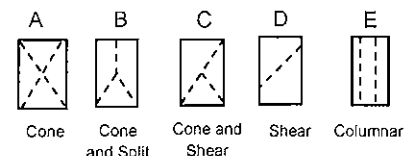
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 3:00 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 17.8 °C Concrete: 18.4 °C Diameter: 100 mm
Cast Slump/Flow: 95 mm Cast Air Content: 6.6 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C) : Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/9/2 By: RC
Date Received: (Y/M/D) 2009/9/8 By: JP

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
349	6	2009/9/8	JP	27290	15.0	D	
350	7	2009/9/9	JP	27550	15.1	B	
351	14	2009/9/16	JP	30840	16.9	C	
352	28	2009/9/30	KT	34660	19.0	A	
353	56	2009/10/28	KT	38340	21.0	C	
354	56	2009/10/28	KT	38030	20.9	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Rod & Ball Mill Fdn; 2.5m W of East Face; 1/2 way;
200mm up from U/S Ftg. GRID 2m S of D14

Test No.: T-64 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 7 Batch Time: 13:45
Ticket No: 319 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 56.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Delvo Winter Heat: ☐

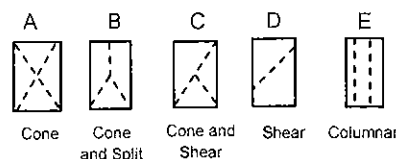
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 13:55 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 7.0 °C Concrete: 17.6 °C Diameter: 100 mm
Cast Slump/Flow: 75 mm Cast Air Content: 3.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/9/5 By: RC
Date Received: (Y/M/D) 2009/9/8 By: JP

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
355	3	2009/9/8	JP	37750	20.7	B	
356	7	2009/9/12	JP	45330	24.9	C	
357	14	2009/9/17	JP	51090	28.0	B	
358	28	2009/10/3	RS	87240	31.4	A	
359	56	2009/10/31	KT	61640	33.8	A	
360	56	2009/10/31	KT	63730	35.0	B	

Remarks: Large pour/high speed of production. Trucks did not have enough time to mix.
It was pointed out to IDL

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Consultants Ltd.**



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Rod & Ball Mill Fdn.; 2m W of C13
0.4m above U/S Ftg.

Test No.: T-65 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL	
Truck No: 17	Batch Time: 15:35
Ticket No: 329	Mix No: 003
Load Amount: 8.0 m ³	Cumulative: 136.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: InterCem	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐	Air Content: 5 - 8 %
Other: Delvo	Winter Heat: ☐

Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: _____ MPa	Test Age: _____ days
Slump/Flow: _____ mm	Air Content: _____ %
Class of Concrete: _____	Cement Type: _____

Field Test Data

Test Time: 15:50 Unit Weight: _____ kg/m³ Mould Type: Plastic

Temperature: Air: 9.0 °C Concrete: 15.7 °C Diameter: 100 mm

Cast Slump/Flow: 100 mm Cast Air Content: 5.7 %

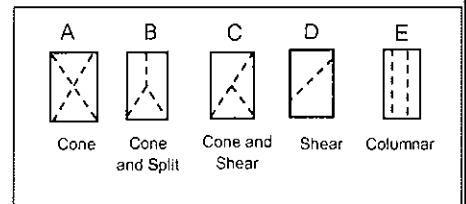
Initial Slump: _____ mm Initial Air Content: _____ %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/9/5 By: RC

Date Received: (Y/M/D) 2009/9/8 By: JP

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
361	3	2009/9/8	JP	26890	14.8	C	
362	7	2009/9/12	JP	35730	19.6	B	
363	14	2009/9/19	JP	38880	21.3	C	
364	28	2009/10/3	KT	43330	23.8	B	
365	56	2009/10/31	KT	48220	26.5	C	
366	56	2009/10/31	KT	46820	25.7	A	

Remarks:

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Consultants Ltd.**



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Rod & ball Mill Fdn; NW corner; 0.7m S; 1.5m E;
0.6m above U/S Fdn. GRID: L12 + 4m; C-2m

Test No.: T-66 Placing Method: Pump

Information From Delivery Ticket

Supplier:	IDL		
Truck No:	26	Batch Time:	17:10
Ticket No:	338	Mix No:	003
Load Amount:	8.0 m³	Cumulative:	208.0 m³
Strength:	30 MPa	Max Agg. Size:	20 mm
Cement Type:	InterCem	Slump/Flow:	80 mm
Admixture:	Air ☒ SP ☒ Acc. ☐	Air Content:	5 - 8 %
Other:	Delvo	Winter Heat:	☐

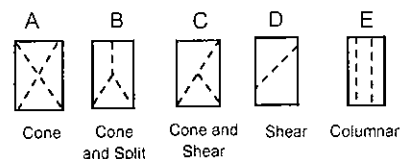
Contract Specifications as Provided

Same as Delivery Ticket:	☒	Not Available:	☐
Strength:	MPa	Test Age:	days
Slump/Flow:	mm	Air Content:	%
Class of Concrete:		Cement Type:	

Field Test Data

Test Time:	17:20	Unit Weight:	kg/m³	Mould Type:	Plastic
Temperature:	Air: 9.0 °C	Concrete:	15.5 °C	Diameter:	100 mm
Cast Slump/Flow:	110 mm	Cast Air Content:	4.9 %		
Initial Slump:	mm	Initial Air Content:	%		
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)					
Date Cast:	(Y/M/D) 2009/9/5	By:	RC		
Date Received:	(Y/M/D) 2009/9/8	By:	JP		

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
367	3	2009/9/8	JP	27070	14.9	B	
368	7	2009/9/12	JP	35390	19.4	B	
369	14	2009/9/19	JP	40170	22.1	b	
370	28	2009/10/3	KT	40840	22.4	C	
371	56	2009/10/31	KT	49340	27.1	C	
372	56	2009/10/31	KT	47980	26.3	C	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Rod & ball Mill Fdn; 5m S of NE corner; 1m W;
1.2m above U/S Fdn; GRID: C-D; L14+1.5m

Test No.: T-67 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 38 Batch Time: 19:19
Ticket No: 350 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 304.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Delvo Winter Heat: ☐

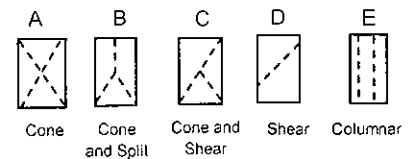
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: _____ MPa Test Age: _____ days
Slump/Flow: _____ mm Air Content: _____ %
Class of Concrete: _____ Cement Type: _____

Field Test Data

Test Time: 19:35 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 7.0 °C Concrete: 14.4 °C Diameter: 100 mm
Cast Slump/Flow: 95 mm Cast Air Content: 4.4 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/9/5 By: RC
Date Received: (Y/M/D) 2009/9/8 By: JP

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
373	3	2009/9/8	JP	27430	15.1	B	
374	7	2009/9/12	JP	40080	22.0	B	
375	14	2009/9/19	JP	45010	24.7	B	
376	28	2009/10/3	KT	50740	27.9	C	
377	56	2009/10/31	KT	57370	31.5	A	
378	56	2009/10/31	KT	54440	29.9	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Rod & ball Mill Fdn; NW corner; 1.5m above U/S Fdn
GRID: L12.7; C

Test No.: T-68 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 47 Batch Time: 20:58
Ticket No: 359 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 376.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

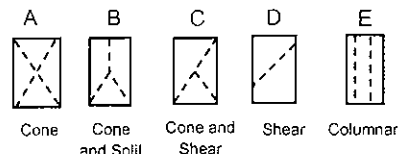
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 21:10 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 5.0 °C Concrete: 14.6 °C Diameter: 100 mm
Cast Slump/Flow: 115 mm Cast Air Content: 5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/9/5 By: RC
Date Received: (Y/M/D) 2009/9/8 By: JP

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
379	3	2009/9/8	JP	26890	14.8	B	
380	7	2009/9/12	JP	35060	19.2	A	
381	14	2009/9/19	JP	38290	21.0	D	
382	28	2009/10/3	KT	44910	24.7	D	
383	56	2009/10/31	KT	45690	25.1	A	
384	56	2009/10/31	KT	48670	26.7	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Rod & ball Mill Fdn; 1m W of East face; 1/2 way
elev 80m below top surface GRID: D-2m; L14+1.5m

Test No.: T-69

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 57 Batch Time: 23:09
Ticket No: 369 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 456.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

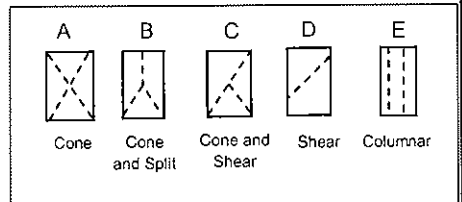
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 23:20 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 5.0 °C Concrete: 12.8 °C Diameter: 100 mm
Cast Slump/Flow: 115 mm Cast Air Content: 4.4 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/9/5 By: RC
Date Received: (Y/M/D) 2009/9/8 By: JP

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
385	3	2009/9/8	JP	27420	15.1	B	
386	7	2009/9/12	JP	36480	20.0	B	
387	14	2009/9/19	JP	38660	21.2	A	
388	28	2009/10/3	KT	46680	25.6	B	
389	56	2009/10/31	KT	49380	27.1	C	
390	56	2009/10/31	KT	49010	26.9	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Rod & ball Mill Fdn; 8m N of S Face; 5m W of E Face;
2.1m above U/S Fdn. GRID: 3rd column from E;
5m N of U
Test No.: T-70 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 66 Batch Time: 0:49
Ticket No: 378 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 528.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

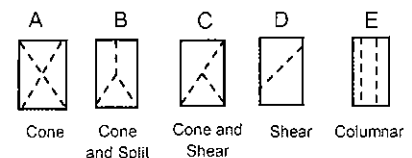
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 1:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 4.1 °C Concrete: 13.3 °C Diameter: 100 mm
Cast Slump/Flow: 155 mm Cast Air Content: 4.3 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/9/6 By: RC (N/S of Sep 5)
Date Received: (Y/M/D) 2009/9/8 By: JP

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
391	3	2009/9/8	JP	22370	12.3	C	
392	7	2009/9/12	JP	33750	18.5	C	
393	14	2009/9/19	JP	38420	21.1	B	
394	28	2009/10/3	KT	43450	23.9	B	
395	56	2009/10/31	KT	46620	25.6	A	
396	56	2009/10/31	KT	45480	25.0	A	

Remarks: Truck w/ticket #00376 had to wait @ hopper waited for 50 minutes while crew stood finishing. Truck w/ticket #00378 unloaded very slowly for finishing crew to do their work; last 1/3 of load was on mixer for 3hrs. Stanley Zang (YZC) okayed discharge.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Pedestal for transmission tower above main offices

Test No.: T-71

Placing Method:

Chute

Information From Delivery Ticket

Supplier: IDL
Truck No: 1/1 Batch Time: 12:55
Ticket No: 384 Mix No: 003
Load Amount: 2.0 m³ Cumulative: 2.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

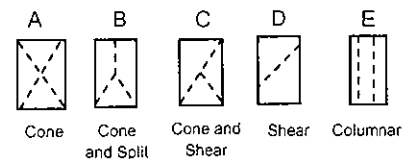
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 1:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 7.0 °C Concrete: 14.4 °C Diameter: 100 mm
Cast Slump/Flow: 80 mm Cast Air Content: 1.3 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/9/7 By: RC
Date Received: (Y/M/D) 2009/9/8 By: JP

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
397	7	2009/9/14	JP	40680	22.3	B	
398	28	2009/10/5	KT	52230	28.7	C	
399	56	2009/11/2	KT	57000	31.3	A	
400	56	2009/11/2	KT	57280	31.4	A	

Remarks: Pedestal pour on top of previously poured foundation.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

1m E of 1A; 2nd lift Cover, 0.6m (over U/S Grade Beam)
Load went into: (2A to 1B.3) pour section

Test No.: T-72 Placing Method: Chute

Information From Delivery Ticket

Supplier: IDL
Truck No: 1/1 Batch Time: 12:55
Ticket No: 384 Mix No: 003
Load Amount: 2.0 m³ Cumulative: 2.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

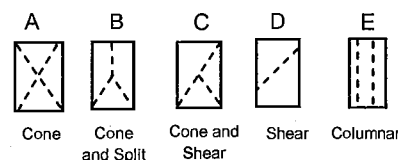
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 13:40 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 8.0 °C Concrete: 15.1 °C Diameter: 100 mm
Cast Slump/Flow: 95 mm Cast Air Content: 4.3 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/9/8 By: RC
Date Received: (Y/M/D) 2009/9/8 By: CH

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
401	7	2009/9/15	JP	32870	18.0	B	
402	7	2009/9/15	JP	32370	17.8	B	
403	28	2009/10/6	KT	50510	22.7	C	
404	28	2009/10/6	KT	51310	28.2	C	
405	56	2009/11/3	KT	59370	32.6	C	
406	56	2009/11/3	KT	57930	31.8	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Crusher Building Wall (B5/5)

Test No.: T-73 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL	
Truck No: 2	Batch Time: 18:15
Ticket No: 398	Mix No: 003
Load Amount: 6.0 m ³	Cumulative: 12.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: InterCem	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐	Air Content: 5 - 8 %
Other:	Winter Heat: ☐

Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: MPa	Test Age: days
Slump/Flow: mm	Air Content: %
Class of Concrete:	Cement Type:

Field Test Data

Test Time: 18:30 Unit Weight: kg/m³ Mould Type: Plastic

Temperature: Air: 6.0 °C Concrete: 14.6 °C Diameter: 100 mm

Cast Slump/Flow: 115 mm Cast Air Content: 6 %

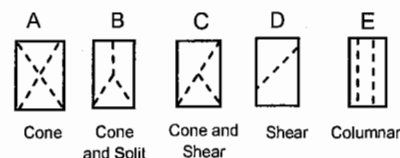
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/9/10 By: JTP

Date Received: (Y/M/D) 2009/9/10 By: JTP

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
407	4	2009/9/15	JP	20080	11.0	B	
408	7	2009/9/17	JP	25500	14.0	B	
409	14	2009/9/24	KT	34070	18.7	B	
410	28	2009/10/8	KT	41520	22.8	B	
411	56	2009/11/5	KT	46280	25.4	C	
412	56	2009/11/5	KT	46210	25.4	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mud Slab around weeping tile outside west end
of crusher building

Test No.: T-74 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 16:37
Ticket No: 401 Mix No: 003
Load Amount: 6.0 m³ Cumulative: 6.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

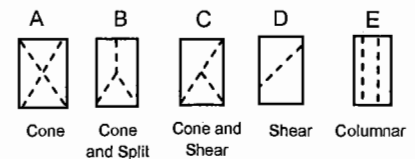
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 17:00 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 12.0 °C Concrete: 15.0 °C Diameter: 100 mm
Cast Slump/Flow: 90 mm Cast Air Content: 3.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/9/11 By: JTP
Date Received: (Y/M/D) 2009/9/11 By: JTP

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
413	4	2009/9/14	JP	16960	9.3	D	
414	7	2009/9/20	JP	27550	15.1	C	
415	14	2009/9/25	KT	30280	16.6	A	
416	28	2009/10/9	KT	38000	20.9	C	
417	56	2009/11/6	KT	44200	24.3	A	
418	56	2009/11/6	KT	43390	23.8	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Crusher interior Pad Footings - West End
Gridlines 2/B.5

Test No.: T-75 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL	
Truck No: 2	Batch Time: 14:30
Ticket No: 403	Mix No: 003
Load Amount: 8.0 m ³	Cumulative: 16.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: InterCem	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐	Air Content: 5 - 8 %
Other:	Winter Heat: ☐

Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: MPa	Test Age: days
Slump/Flow: - mm	Air Content: %
Class of Concrete:	Cement Type:

Field Test Data

Test Time: 15:00 Unit Weight: kg/m³ Mould Type: Plastic

Temperature: Air: 20.0 °C Concrete: 18.0 °C Diameter: 100 mm

Cast Slump/Flow: 135 mm Cast Air Content: 5.2 %

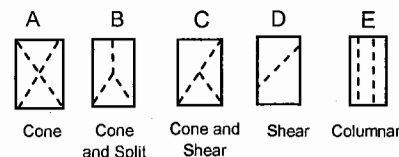
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/9/14 By: JTP

Date Received: (Y/M/D) 2009/9/14 By: JTP

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
419	6	2009/9/20	JP	29250	16.1	B	
420	8	2009/9/22	JP	33770	18.5	A	
421	14	2009/9/28	KT	35480	19.5	A	
422	28	2009/10/12	KT	38870	21.3	C	
423	56	2009/11/9	KT	47490	26.1	A	
424	56	2009/11/9	KT	48020	26.4	C	

Remarks:

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**EBA Engineering
Consultants Ltd.**



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Test Batch, mix went into lock blocks

Test No.: T-76 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL	
Truck No: 1	Batch Time: 4:20
Ticket No: 405	Mix No: 004
Load Amount: 3.0 m ³	Cumulative: 3.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: InterCem	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐	Air Content: 5 - 8 %
Other:	Winter Heat: ☒

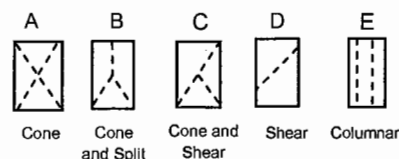
Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: MPa	Test Age: days
Slump/Flow: mm	Air Content: %
Class of Concrete:	Cement Type:

Field Test Data

Test Time: 4:30	Unit Weight: kg/m ³	Mould Type: Plastic
Temperature: Air: 18.0 °C Concrete: 17.0 °C	Diameter: 100 mm	
Cast Slump/Flow: 80 mm	Cast Air Content: 4.9 %	
Initial Slump: mm	Initial Air Content: %	
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)		
Date Cast: (Y/M/D) 2009/9/17	By: MI	
Date Received: (Y/M/D) 2009/9/22	By: JP	

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
425	5	2009/9/22	JP	26780	14.7	A	
426	7	2009/9/24	KT	32980	18.1	C	
427	14	2009/10/1	KT	39250	21.5	A	
428	28	2009/10/15	KT	39860	21.9	A	
429	56	2009/11/12	KT	46800	25.7	A	
430	56	2009/11/12	KT	46680	25.6	C	

Remarks: Test Batch with new mix material

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Consultants Ltd.**



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
C 1.1

Test No.: T-77 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL	
Truck No: 2	Batch Time: 2:35
Ticket No: 407	Mix No: 003
Load Amount: 8.0 m ³	Cumulative: 16.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: InterCem	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐	Air Content: 5 - 8 %
Other:	Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: MPa	Test Age: days
Slump/Flow: mm	Air Content: %
Class of Concrete:	Cement Type:

Field Test Data

Test Time: 2:50 Unit Weight: kg/m³ Mould Type: Plastic

Temperature: Air: 8.0 °C Concrete: 18.0 °C Diameter: 100 mm

Cast Slump/Flow: 110 mm Cast Air Content: 4.2 %

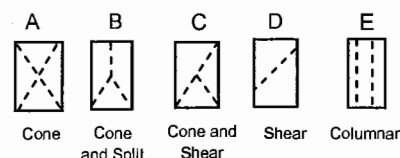
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/9/18 By: MI

Date Received: (Y/M/D) 2009/9/22 By: JP

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
431	4	2009/9/22	JP	23230	12.8	A	
432	7	2009/9/25	KT	28580	15.7	C	
433	14	2009/10/2	KT	37930	20.8	A	
434	28	2009/10/15	KT	43820	24.1	A	
435	56	2009/11/13	KT	52600	28.9	A	
436	56	2009/11/13	KT	52880	29.0	C	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
H2, btwn line 13-14 in the Rod/Ball mill feed bin

Test No.: T-78 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 5 Batch Time: 1:50
Ticket No: 417 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 40.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

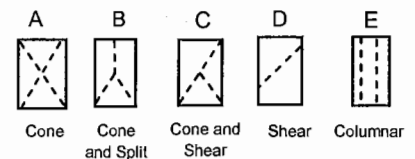
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 2:00 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 7.0 °C Concrete: 13.8 °C Diameter: 100 mm
Cast Slump/Flow: 120 mm Cast Air Content: 5.7 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/9/20 By: MI
Date Received: (Y/M/D) 2009/9/25 By: KT

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
437	6	2009/9/26	KT	29460	16.2	B	
438	7	2009/9/27	KT	24720	13.6	A	
439	14	2009/10/4	KT	35730	19.6	A	
440	28	2009/10/18	KT	39800	21.8	C	
441	57	2009/11/16	CH	50320	27.6	C	* cylinder was frozen during transport
442	57	2009/11/16	CH	47730	26.2	A	* cylinder was frozen during transport

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Rod/Ball mill feed bin, H1, Line 14

Test No.: T-79 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 10 Batch Time: 3:15
Ticket No: 422 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 80.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

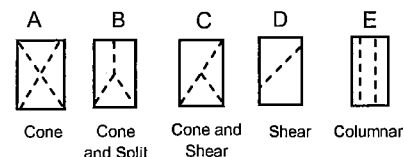
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 3:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 6.3 °C Concrete: 12.8 °C Diameter: 100 mm
Cast Slump/Flow: 100 mm Cast Air Content: 4.2 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/9/20 By: MI
Date Received: (Y/M/D) 2009/9/25 By: KT

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
443	6	2009/9/26	KT	35170	19.3	B	
444	7	2009/9/27	KT	30860	16.9	C	
445	14	2009/10/4	KT	43990	24.1	A	
446	28	2009/10/18	KT	43260	23.7	C	* cylinder was frozen during transport
447	57	2009/11/16	CH	55160	30.3	A	* cylinder was frozen during transport
448	57	2009/11/16	CH	52700	28.9	A	* cylinder was frozen during transport

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo
Element Cast & Location Tested:
Con-Shed, Line 2 btwn E2-D2

Test No.: T-80 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 4 Batch Time: 12:50
Ticket No: 430 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 32.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

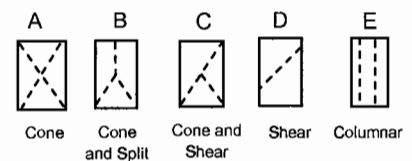
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 1:10 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 8.0 °C Concrete: 14.0 °C Diameter: 100 mm
Cast Slump/Flow: 100 mm Cast Air Content: 6.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/9/21 By: MI
Date Received: (Y/M/D) 2009/9/25 By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
449	5	2009/9/26	KT	25100	13.8	B	
450	7	2009/9/28	KT	28410	15.6	C	
451	14	2009/10/5	KT	37220	20.4	D	
452	28	2009/10/19	KT	41450	22.8	C	
453	56	2009/11/16	CH	48690	26.7	A	* cylinder was frozen during transport
454	56	2009/11/16	CH	49760	27.3	C	* cylinder was frozen during transport

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Crusher Building/Pad btwn 1-2, on line B.4

Test No.: T-81 Placing Method: Pump

Information From Delivery Ticket

Supplier:	IDL		
Truck No:	1	Batch Time:	4:20
Ticket No:	435	Mix No:	003
Load Amount:	6.0 m ³	Cumulative:	6.0 m ³
Strength:	30 MPa	Max Agg. Size:	20 mm
Cement Type:	InterCem	Slump/Flow:	80 mm
Admixture:	Air ☒ SP ☒ Acc. ☐	Air Content:	5 - 8 %
Other:	Winter Heat: ☒		

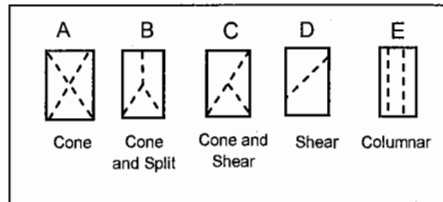
Contract Specifications as Provided

Same as Delivery Ticket:	☒	Not Available:	☐
Strength:	MPa	Test Age:	days
Slump/Flow:	- mm	Air Content:	%
Class of Concrete:		Cement Type:	

Field Test Data

Test Time:	4:35	Unit Weight:	kg/m ³	Mould Type:	Plastic
Temperature:	Air: 7.8 °C	Concrete: 13.7 °C		Diameter:	100 mm
Cast Slump/Flow:	115 mm	Cast Air Content:	5.8 %		
Initial Slump:	mm	Initial Air Content:	%		
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)					
Date Cast:	(Y/M/D) 2009/9/21	By:	MI		
Date Received:	(Y/M/D) 2009/9/25	By:	KT		

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
455	5	2009/9/26	KT	26370	14.5	A	
456	7	2009/9/28	KT	29220	16.0	C	
457	14	2009/10/5	KT	3748	20.6	C	
458	28	2009/10/19	KT	39450	21.7	A	* cylinder was frozen during transport
459	56	2009/11/16	CH	49880	27.4	D	
460	56	2009/11/16	CH	51820	28.9	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg; Foundation for Pedestal C; E12-F12

Test No.: T-82 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 2 of 3 Batch Time: 4:20
Ticket No: 438 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 16.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 100 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

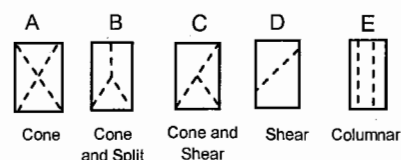
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 3:55 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 0.0 °C Concrete: 18.1 °C Diameter: 100 mm
Cast Slump/Flow: 85 mm Cast Air Content: 3.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/9/28 By: RC
Date Received: (Y/M/D) 2009/10/1 By: KT

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
461	4	2009/10/2	KT	25510	14.0	C	
462	7	2009/10/5	KT	33800	18.6	B	
463	18	2009/10/16	KT	39050	21.4	B	* cylinder was frozen during transport
464	28	2009/10/26	KT	46250	25.4	C	
465	56	2009/11/23	CH	55330	30.3	B	* cylinder was frozen during transport
466	56	2009/11/23	CH	55050	30.2	C	* cylinder was frozen during transport

Remarks:

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CSA A23.2

Pump

Supplier:	IDL			
Truck No:			Batch Time:	9:40
Ticket No:	441		Mix No:	003
Load Amount:	7.5	m ³	Cumulative:	7.5 m ³
Strength:	30	MPa	Max Agg. Size:	20 mm
Cement Type:	InterCem		Slump/Flow:	80 mm
Admixture: Air	☒	SP ☒	Acc. ☐	Air Content: 5 - 8 %
Other:				Winter Heat: ☒

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: _____ MPa	Test Age: _____ days
Slump/Flow: _____ mm	Air Content: _____ %
Class of Concrete: _____	Cement Type: _____

ST: Splitting Tensile F: Flexural Strength

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
467	7	2009/10/7	KT	36070	19.8	C	
468	28	2009/10/28	KT	47090	25.9	A	
469	56	2009/11/25	CH	58700	32.2	A	
470	56	2009/11/25	CH	56120	30.8	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Columns on top fo rod mill foundation; NE column

Test No.: T-84 Placing Method: Pump

Information From Delivery Ticket

Supplier:	IDL		
Truck No:	3 of 3	Batch Time:	17:05
Ticket No:	444	Mix No:	003
Load Amount:	8.0 m ³	Cumulative:	24.0 m ³
Strength:	30 MPa	Max Agg. Size:	20 mm
Cement Type:	InterCem	Slump/Flow:	80 mm
Admixture: Air	☒	SP	☒ Acc. ☐ Air Content: 5 - 8 %
Other:		Winter Heat:	☒

Contract Specifications as Provided

Same as Delivery Ticket:	☒	Not Available:	☐
Strength:	MPa	Test Age:	days
Slump/Flow:	- mm	Air Content:	%
Class of Concrete:		Cement Type:	

Field Test Data

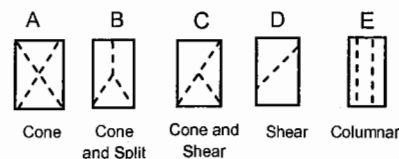
Test Time:	17:35	Unit Weight:	kg/m ³	Mould Type:	Plastic
Temperature:	Air: 1.8 °C Concrete: 18.7 °C	Diameter:	100 mm		
Cast Slump/Flow:	90 mm	Cast Air Content:	3.3 %		
Initial Slump:	100 mm	Initial Air Content:	4.6 %		

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/10/1 By: RC

Date Received: (Y/M/D) 2009/10/15 By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
471	15	2009/10/16	KT	28480	15.0	A	
472	15	2009/10/16	KT	34340	18.9	A	* cylinder was frozen during transport
473	15	2009/10/16	KT	35600	19.5	A	* cylinder was frozen during transport
474	28	2009/10/29	KT	45260	24.8	A	
475	56	2009/11/26	CH	55670	30.6	A	
476	56	2009/11/26	CH	55240	30.3	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Columns on top of rod bin & foundation around rod bin.
Sampled @ foundation (NE side)

Test No.: T-85 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 2 of 2 Batch Time: 17:48
Ticket No: 446 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 16.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

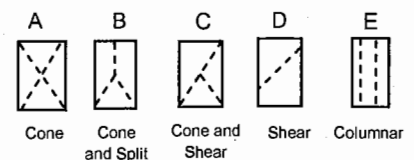
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 18:25 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 1.5 °C Concrete: 14.9 °C Diameter: 100 mm
Cast Slump/Flow: 110 mm Cast Air Content: 4 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/2 By: RC
Date Received: (Y/M/D) 2009/10/6 By: KT

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
477	4	2009/10/6	KT	26260	14.4	C	
478	7	2009/10/9	KT	33800	18.6	A	
479	14	2009/10/16	KT	35010	19.2	A	* cylinder was frozen during transport
480	28	2009/10/30	KT	44640	24.5	A	* cylinder was frozen during transport
481	56	2009/11/27	JMP	60600	33.3	B	
482	56	2009/11/27	JMP	61740	33.9	B	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
3 small columns on NE side of rod mill

Test No.: T-86 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 of 1 Batch Time:
Ticket No: Mix No: 003
Load Amount: 3.0 m³ Cumulative: 3.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

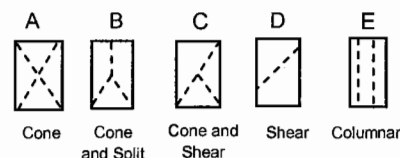
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 16:45 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 1.5 °C Concrete: 12.8 °C Diameter: 100 mm
Cast Slump/Flow: 105 mm Cast Air Content: 7.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/3 By: RC
Date Received: (Y/M/D) 2209/10/6 By: KT

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
483	3	2009/10/6	KT	15520	8.5	C	
484	7	2009/10/10	KT	24330	13.5	C	
485	14	2009/10/17	KT	27840	15.3	C	
486	28	2009/10/31	KT	31500	17.3	C	* cylinder was frozen during transport
487	56	2009/11/28	CH	40230	22.1	C	
488	56	2009/11/28	CH	41380	22.7	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Slab 4 @ E-3

Test No.: T-87 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 10 of 25 Batch Time: 1:42
Ticket No: 458 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 80.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Hard-Cem Winter Heat: ☒

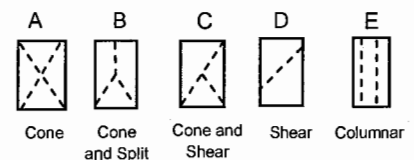
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: _____ MPa Test Age: _____ days
Slump/Flow: _____ mm Air Content: _____ %
Class of Concrete: _____ Cement Type: _____

Field Test Data

Test Time: 2:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 2.0 °C Concrete: 16.2 °C Diameter: 100 mm
Cast Slump/Flow: 100 mm Cast Air Content: 3.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/4 By: RC
Date Received: (Y/M/D) 2009/10/6 By: KT

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
489	3	2009/10/7	KT	27330	15.0	C	
490	7	2009/10/11	KT	33310	18.3	C	
491	14	2009/10/18	KT	38980	21.4	C	
492	28	2009/11/1	KT	47640	26.2	C	
493	56	2009/11/29	CH	58420	32.1	C	
494	56	2009/11/29	CH	56160	30.8	B	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Slab on CLO G-5; 4 m W of Line G-F

Test No.: T-88 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 18 of 25 Batch Time: 3:40
Ticket No: 466 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 144.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Hard-Cem Winter Heat: ☒

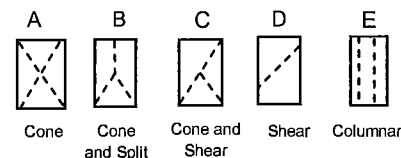
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 3:55 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 2.5 °C Concrete: 15.6 °C Diameter: 100 mm
Cast Slump/Flow: 115 mm Cast Air Content: 3.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/4 By: RC
Date Received: (Y/M/D) 2009/10/6 By: KT

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
495	3	2009/10/7	KT	25540	14.0	C	
496	12	2009/10/16	KT	31040	17.0	C	* cylinder was frozen during transport
497	14	2009/10/18	KT	36020	19.8	C	
498	28	2009/11/1	KT	45100	24.8	C	
499	56	2009/11/29	CH	57010	31.3	C	
500	56	2009/11/29	CH	57730	31.7	B	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Slab @ CLO E-4

Test No.: T-89 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 25 of 25 Batch Time: 5:34
Ticket No: 473 Mix No: 003
Load Amount: 8.0 m³ Cumulative: 200.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Hard-Cem Winter Heat: ☒

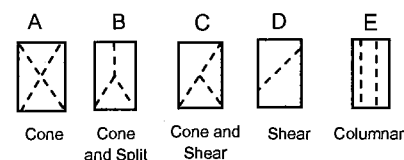
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: _____ MPa Test Age: _____ days
Slump/Flow: _____ mm Air Content: _____ %
Class of Concrete: _____ Cement Type: _____

Field Test Data

Test Time: 5:55 Unit Weight: _____ kg/m³ Mould Type: Plastic
Temperature: Air: 2.0 °C Concrete: 15.5 °C Diameter: 100 mm
Cast Slump/Flow: 110 mm Cast Air Content: 3.7 %
Initial Slump: _____ mm Initial Air Content: _____ %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/4 By: RC
Date Received: (Y/M/D) 2009/10/6 By: KT

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
501	3	2009/10/7	KT	25060	13.8	A	
502	7	2009/10/11	KT	32240	17.7	C	
503	14	2009/10/18	KT	34210	18.8	C	* cylinder was frozen during transport
504	29	2009/11/2	KT	46350	25.4	A	
505	56	2009/11/29	CH	56370	30.9	A	
506	56	2009/11/29	CH	58890	32.7	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Concentrate load out bldg; between E & F; between 3 & 4

Test No.: T-90 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 6 Batch Time: 1:53
Ticket No: 484 Mix No: _____
Load Amount: 8.0 m³ Cumulative: 48.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☐ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: hardner Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: _____ MPa Test Age: _____ days
Slump/Flow: _____ mm Air Content: _____ %
Class of Concrete: _____ Cement Type: _____

Field Test Data

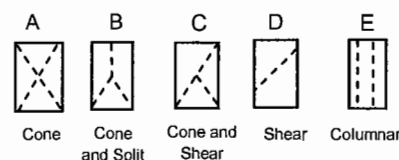
Test Time: 1:05 Unit Weight: _____ kg/m³ Mould Type: Plastic
Temperature: Air: -4.6 °C Concrete: 16.5 °C Diameter: 100 mm
Cast Slump/Flow: 95 mm Cast Air Content: 3.3 %
Initial Slump: _____ mm Initial Air Content: _____ %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/10/9 By: MI

Date Received: (Y/M/D) various By: _____

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
507	5	2009/10/14	KT	32970	18.1	C	
508	7	2009/10/16	KT	36130	19.8	A	
509	14	2009/10/23	KT	42190	23.2	A	
510	29	2009/11/6	KT	50110	27.5	C	
511	56	2009/12/4	CH	63140	34.6	A	
512	56	2009/12/4	CH	62510	34.2	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Concentrate load out bldg; line C; between 4 & 5

Test No.: T-91 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 15 Batch Time: 3:47
Ticket No: 489 Mix No:
Load Amount: 8.0 m³ Cumulative: 112.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☐ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: hardner Winter Heat: ☒

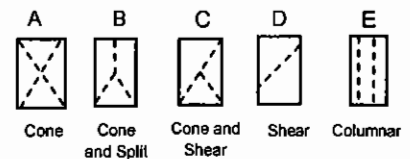
Contract Specifications Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 4:00 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -6.0 °C Concrete: 16.6 °C Diameter: 100 mm
Cast Slump/Flow: 80 mm Cast Air Content: 3.1 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/9 By: MI
Date Received: (Y/M/D) various By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
513	5	2009/10/14	KT	34370	18.9	A	
514	7	2009/10/16	KT	35890	19.7	A	
515	14	2009/10/23	KT	44000	24.2	A	
516	29	2009/11/6	KT	54560	30.0	A	
517	56	2009/12/4	CH	64390	35.3	C	
518	56	2009/12/4	CH	65610	36.0	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverline Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Concentrate load out bldg; between line A & B; between 2 & 3

Test No.: T-92 Placing Method: Pump

Information from Delivery Ticket			
Supplier:	IDL		
Truck No:	20	Batch Time:	5:47
Ticket No:	493	Mix No:	
Load Amount:	8.0 m ³	Cumulative:	160.0 m ³
Strength:	30 MPa	Max Agg. Size:	20 mm
Cement Type:	InterCem	Slump/Flow:	80 mm
Admixture:	Air ☐ SP ☒ Acc. ☐	Air Content:	5 - 8 %
Other:	hardner		Winter Heat: ☒

Contract Specifications as Provided			
Same as Delivery Ticket:	☒	Not Available:	☐
Strength:	MPa	Test Age:	days
Slump/Flow:	mm	Air Content:	%
Class of Concrete:		Cement Type:	

Field Test Data			
Test Time:	5:55	Unit Weight:	kg/m ³
Temperature:	Air: -6.0 °C Concrete: 15.3 °C	Mould Type:	Plastic
Cast Slump/Flow:	115 mm	Cast Air Content:	3.1 %
Initial Slump:	mm	Initial Air Content:	%
Concrete Setting Temperature Within CSA Limits (15-25 °C) : Y y/n (see remarks if No)			
Date Cast:	(Y/M/D) 2009/10/9	By:	MI
Date Received:	(Y/M/D) various	By:	

Type of Fracture					
A	B	C	D	E	
Cone	Cone and Split	Cone and Shear	Shear	Columnar	

ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data							
Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
519	5	2009/10/14	KT	34570	19.0	A	
520	7	2009/10/16	KT	36490	20.0	A	
521	14	2009/10/23	KT	43700	24.0	A	
522	29	2009/11/6	KT	51620	28.3	A	
523	56	2009/12/4	CH	62700	34.4	A	
524	56	2009/12/4	CH	67760	37.1	D	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Bldg; Rod & Ball mill columns, between line C & D; and line 13 & 14

Test No.: T-93

Placing Method:

Pump

Information From Delivery Ticket			
Supplier:	IDL		
Truck No:	4	Batch Time:	1:40
Ticket No:	502	Mix No:	
Load Amount:	8.0 m³	Cumulative:	32.0 m³
Strength:	30 MPa	Max Agg. Size:	20 mm
Cement Type:	InterCem	Slump/Flow:	80 mm
Admixture:	Air ☐ SP ☒ Acc. ☐	Air Content:	5 - 8 %
Other:	hardner	Winter Heat:	☒

Contract Specifications Provided			
Same as Delivery Ticket:	☒	Not Available:	☐
Strength:	MPa	Test Age:	days
Slump/Flow:	mm	Air Content:	%
Class of Concrete:		Cement Type:	

Field Test Data			
Test Time:	2:15	Unit Weight:	kg/m³
Temperature:	Air: -5.1 °C Concrete: 14.7 °C	Mould Type:	Plastic
Cast Slump/Flow:	100 mm	Cast Air Content:	3.2 %
Initial Slump:	mm	Initial Air Content:	%
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)			
Date Cast:	(Y/M/D) 2009/10/10	By:	MI
Date Received:	(Y/M/D) various	By:	

Type of Fracture

A	B	C	D	E
Cone	Cone and Split	Cone and Shear	Shear	Columnar

ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data							
Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
525	4	2009/10/14	KT	30050	16.5	A	
526	7	2009/10/17	KT	31800	17.5	C	
527	14	2009/10/24	KT	40490	22.2	A	
528	29	2009/11/7	KT	49230	27.0	A	
529	56	2009/12/5	CH	56720	31.1	A	
530	56	2009/12/5	CH	58510	32.1	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Rod Mill Feed bin; H1 & line 13

Test No.: T-94 Placing Method: Pump

Information From Delivery Ticket

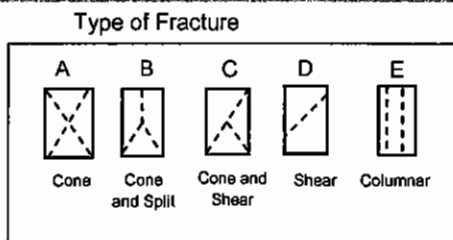
Supplier: IDL
Truck No: 2 Batch Time: 2:41
Ticket No: 507 Mix No:
Load Amount: 8.0 m³ Cumulative: 16.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: hardener Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -5.0 °C Concrete: 13.0 °C Diameter: 100 mm
Cast Slump/Flow: 110 mm Cast Air Content: 6.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/11 By: MI
Date Received: (Y/M/D) various By:



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
531	3	2009/10/14	KT	18990	10.4	A	
532	7	2009/10/18	KT	24880	13.7	A	
533	14	2009/10/25	KT	29600	16.2	A	
534	29	2009/11/8	KT	39080	21.5	A	
535	56	2009/12/6	CH	48310	26.5	B	
536	56	2009/12/6	CH	44760	24.6	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Bldg; between lines 9 & 10; along line 3
(foundation pad)

Test No.: T-95 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL	
Truck No: 5	Batch Time: 11:38
Ticket No: 513	Mix No:
Load Amount: 8.0 m ³	Cumulative: 40.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: InterCem	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐	Air Content: 5 - 8 %
Other: hardner	Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: MPa	Test Age: days
Slump/Flow: mm	Air Content: %
Class of Concrete:	Cement Type:

Field Test Data

Test Time: 11:50 Unit Weight: kg/m³ Mould Type: Plastic

Temperature: Air: -8.0 °C Concrete: 13.1 °C Diameter: 100 mm

Cast Slump/Flow: 85 mm Cast Air Content: 3.5 %

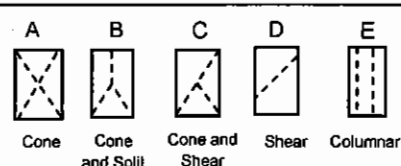
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/10/12 By: MI

Date Received: (Y/M/D) various By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
537	4	2009/10/16	KT	29130	16.0	A	
538	7	2009/10/19	KT	37040	20.3	A	
539	14	2009/10/26	KT	43350	23.8	A	
540	29	2009/11/9	KT	51130	28.1	A	
541	56	2009/12/7	JMP	60310	33.1	C	
542	56	2009/12/7	JMP	60870	33.4	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Crusher Bldg; Grizzly Walles; Line 1.1 and Line 8.5

Test No.: T-96

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 5 Batch Time: 3:05
Ticket No: 524 Mix No:
Load Amount: 8.0 m³ Cumulative: 40.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Hardener Winter Heat: ☒

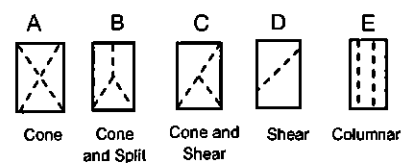
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 3:25 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -11.0 °C Concrete: 11.1 °C Diameter: 100 mm
Cast Slump/Flow: 115 mm Cast Air Content: 6.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/13 By: MI
Date Received: (Y/M/D) various By:

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
543	3	2009/10/16	KT	13500	7.4	A	
544	7	2009/10/19	KT	26630	14.6	A	
545	14	2009/10/26	KT	31400	17.2	C	
546	28	2009/11/10	KT	37770	20.7	C	
547	56	2009/12/8	SMS	49550	27.2	C	
548	56	2009/12/8	SMS	46650	25.6	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Building, Floatation Pad Footings, Line 8, Between D&E

Test No.: T-97

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 6 Batch Time: 1:50
Ticket No: 534 Mix No:
Load Amount: 8.0 m³ Cumulative: 48.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Hardener Winter Heat: ☒

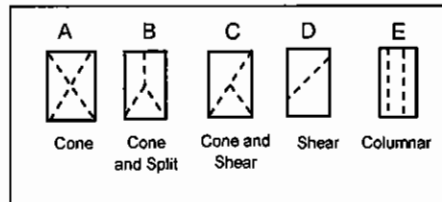
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 2:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -9.8 °C Concrete: 9.5 °C Diameter: 100 mm
Cast Slump/Flow: 140 mm Cast Air Content: 6.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/14 By: MI
Date Received: (Y/M/D) various By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
549	6	2009/10/20	KT	27590	15.1	A	
550	7	2009/10/21	KT	30210	16.6	C	
551	14	2009/10/28	KT	35910	19.7	A	
552	28	2009/11/11	KT	40280	22.1	C	
553	56	2009/12/9	CH	51840	28.5		
554	62	2009/12/15	SMS	49100	27.0	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Crusher building; line 2; line B4 (Cone Crusher, west wall)

Test No.: T-98

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 4 Batch Time: 12:50
Ticket No: 542 Mix No:
Load Amount: 8.0 m³ Cumulative: 32.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

Contract Specifications as Provided

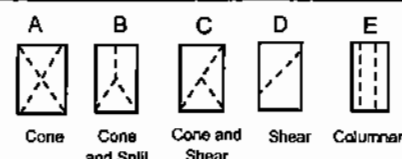
Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 1:35 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -6.5 °C Concrete: 12.7 °C Diameter: 100 mm
Cast Slump/Flow: 100 mm Cast Air Content: 5.4 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/10/15 By: MI
Date Received: (Y/M/D) various By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
555	5	2009/10/20	KT	30060	16.5	A	
556	7	2009/10/22	KT	35540	19.5	C	
557	14	2009/10/29	KT	41190	22.6	C	
558	28	2009/11/12	KT	47030	25.8	C	
559	56	2009/12/10	CH	55920	30.7	A	
560	56	2009/12/10	CH	57700	31.7	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

5 m S line A; 2 m E line 4 in the concentrate load out bldg

Test No.: T-99

Placing Method:

Pump

Information From Delivery Ticket

Supplier: **IDL**
Truck No: **5** Batch Time: **11:50**
Ticket No: **550** Mix No: _____
Load Amount: **8.0** m³ Cumulative: **40.0** m³
Strength: **30** MPa Max Agg. Size: **20** mm
Cement Type: **InterCem** Slump/Flow: **80** mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: **5 - 8** %
Other: _____ Winter Heat: ☒

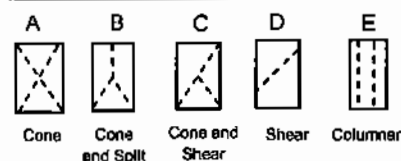
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: _____ MPa Test Age: _____ days
Slump/Flow: _____ mm Air Content: _____ %
Class of Concrete: _____ Cement Type: _____

Field Test Data

Test Time: **12:05** Unit Weight: _____ kg/m³ Mould Type: **Plastic**
Temperature: Air: **2.5** °C Concrete: **10.5** °C Diameter: **100** mm
Cast Slump/Flow: **125** mm Cast Air Content: **4.0** %
Initial Slump: _____ mm Initial Air Content: _____ %
Concrete Setting Temperature Within CSA Limits (15-25 °C): _____ y/n (see remarks if No)
Date Cast: (Y/M/D) **2009/10/16** By: **MI**
Date Received: (Y/M/D) **various** By: _____

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
561	4	2009/10/20	KT	24190	13.3	A	
562	7	2009/10/23	KT	31080	17.1	A	
563	14	2009/10/30	KT	35600	19.5	C	
564	28	2009/11/13	KT	46420	25.5	A	
565	56	2009/12/11	CH	57210	31.4	C	
566	56	2009/12/11	CH	58880	32.4	D	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Concentrate Load Out Building, Line C & 4

Test No.: T-100 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 12 Batch Time: 2:45
Ticket No: 557 Mix No:
Load Amount: 8.0 m³ Cumulative: 96.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

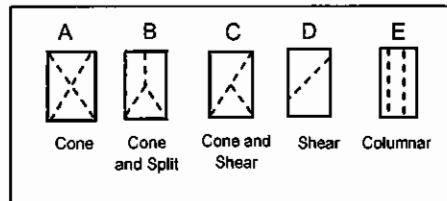
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 3:05 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 2.5 °C Concrete: 11.4 °C Diameter: 100 mm
Cast Slump/Flow: 115 mm Cast Air Content: 4.3 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C) : y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/16 By: MI
Date Received: (Y/M/D) various By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
567	4	2009/10/20	KT	24300	13.3	A	
568	7	2009/10/23	KT	32430	17.8	A	
569	14	2009/10/30	KT	35880	19.7	C	
570	28	2009/11/13	KT	46500	25.5	A	
571	56	2009/12/11	CH	57850	31.7	A	
572	60	2009/12/15	SMS	56340	30.9	A	

Remarks: No power on Dec 14, couldn't break

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Concentrate Load Out Building,
1 m East of Line 4, 2 m South of Line D

Test No.: T-101 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 17 Batch Time: 5:25
Ticket No: 564 Mix No:
Load Amount: 8.0 m³ Cumulative: 152.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

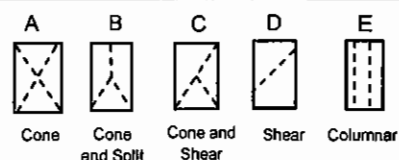
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 5:45 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 2.5 °C Concrete: 11.8 °C Diameter: 100 mm
Cast Slump/Flow: 120 mm Cast Air Content: 4.3 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/16 By: MI
Date Received: (Y/M/D) various By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
573	4	2009/10/20	KT	25050	13.8	A	
574	7	2009/10/23	KT	31290	17.2	C	
575	14	2009/10/30	KT	36490	20.0	C	
576	28	2009/11/13	KT	45870	25.2	A	
577	60	2009/12/15	SMS	60040	33.0	A	
578	56	2009/12/11	CH	58470	32.1	C	

Remarks: No power on Dec 14, couldn't break

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Rod Mill Feed Bin, Floor Slab

Test No.: T-102 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 9:03
Ticket No: 569 Mix No:
Load Amount: 8.0 m³ Cumulative: 8.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

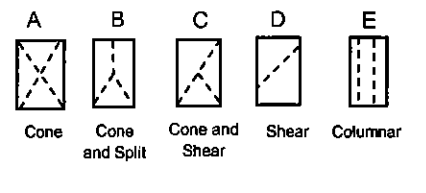
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 10:25 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 1.7 °C Concrete: 13.6 °C Diameter: 100 mm
Cast Slump/Flow: 100 mm Cast Air Content: 7 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): N y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/17 By: MI
Date Received: (Y/M/D) 2009/10/18 By: SD

Type of Fracture



ST: Splitting Tensile F: Flexure Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
579	3	2009/10/20	KT	27680	11.9	A	
580	7	2009/10/24	KT	38880	21.2	A	
581	14	2009/10/31	KT	47620	26.1	C	
582	28	2009/11/14	KT	57800	31.7	A	
583	59	2009/12/15	SMS	72580	39.8	A	
584	59	2009/12/15	SMS	74000	40.6	A	

Remarks: Initial Curing Temperatures: Min 15°C, Max 31°C

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Rod Mill Feed Bin, Floor Slab

Test No.: T-103

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 2 Batch Time: 11:00
Ticket No: 570 Mix No:
Load Amount: 8.0 m³ Cumulative: 16.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

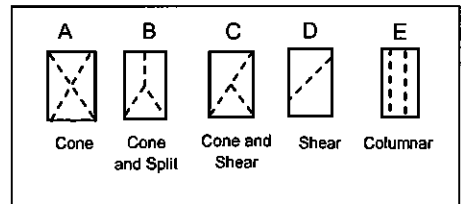
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 11:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 1.7 °C Concrete: 16.0 °C Diameter: 100 mm
Cast Slump/Flow: 150 mm Cast Air Content: %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): N y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/17 By: MI
Date Received: (Y/M/D) various By:

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
585	3	2009/10/20	KT	21690	11.9	A	
586	7	2009/10/24	KT	29400	16.1	C	
587	14	2009/10/31	KT	33690	18.5	A	
588	28	2009/11/14	KT	41610	22.8	C	
589	59	2009/12/15	SMS	49850	27.4	A	
590	59	2009/12/15	SMS	51300	28.2	A	

Remarks: Initial Curing Temperatures: Min 15°C, Max 31°C

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Crusher Building Footings

Test No.: T-104 Placing Method: Pump

Information From Delivery Ticket			
Supplier:	IDL		
Truck No:	2	Batch Time:	2:15
Ticket No:	573	Mix No:	
Load Amount:	9.0 m³	Cumulative:	17.0 m³
Strength:	30 MPa	Max Agg. Size:	20 mm
Cement Type:	InterCem	Slump/Flow:	80 mm
Admixture: Air	☐	SP	☒
Other:		Acc.	☐
		Air Content:	5 - 8 %
		Winter Heat:	☒

Contract Specifications as Provided			
Same as Delivery Ticket:	☒	Not Available:	☐
Strength:		MPa	Test Age:
Slump/Flow:		mm	Air Content:
Class of Concrete:			Cement Type:

Field Test Data					
Test Time:	2:45	Unit Weight:	kg/m³	Mould Type:	Plastic
Temperature: Air:	1.7 °C	Concrete:	12.8 °C	Diameter:	100 mm
Cast Slump/Flow:	140 mm	Cast Air Content:	4.8 %		
Initial Slump:	mm	Initial Air Content:	%		
Concrete Setting Temperature Within CSA Limits (15-25 °C) : N y/n (see remarks if No)					
Date Cast:	(Y/M/D) 2009/10/17	By:	MI		
Date Received:	(Y/M/D) various	By:			

Type of Fracture

A	B	C	D	E
Cone	Cone and Split	Cone and Shear	Shear	Columnar

ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data							
Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
591	3	2009/10/20	KT	25890	14.2	A	
592	7	2009/10/24	KT	30060	16.5	A	
593	14	2009/10/31	KT	34140	18.7	A	
594	28	2009/11/14	KT	40600	22.3	A	
595	59	2009/12/15	SMS	53170	29.2	A	
596	59	2009/12/12	SMS	52410	28.8	A	

Remarks: Initial Curing Temperatures: Min 15°C, Max 31°C

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Building, Between Line C & D, and Between Line 6 & 7

Test No.: T-105

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 2 Batch Time: 4:20
Ticket No: 576 Mix No:
Load Amount: 8.0 m³ Cumulative: 16.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

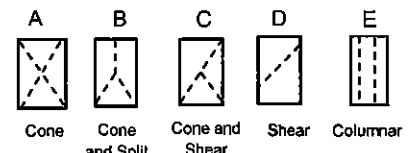
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 4:45 Unit Weight: kg/m³ Mould Type: Plastic Type of Fracture
Temperature: Air: 2.5 °C Concrete: 16.9 °C Diameter: 100 mm
Cast Slump/Flow: 200 mm Cast Air Content: 8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/10/18 By: MI
Date Received: (Y/M/D) various By:



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
597	3	2009/10/21	KT	20320	11.2	C	
598	7	2009/10/25	KT	22630	12.4	A	
599	14	2009/11/1	KT	28060	15.4	A	
600	29	2009/11/16	CH	36440	20.0	A	
601	58	2009/12/15	SMS	41540	22.8	A	
602	58	2009/12/15	SMS	43310	23.8	A	

Remarks: Today's concrete pour was a trial and error process in an attempt to discover a suitable mix design for the remaining concrete to be poured at Wolverine Mine.

The initial slump of this test is an example of too much Plasticizer. Strength should not be affected.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Building, Between Line D & E, and Between Line 6 & 7

Test No.: T-106

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 5:00
Ticket No: 577 Mix No:
Load Amount: 8.0 m³ Cumulative: 24.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

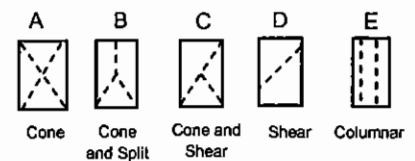
Contract Specifications As Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 5:20 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 2.5 °C Concrete: 18.1 °C Diameter: 100 mm
Cast Slump/Flow: 165 mm Cast Air Content: 5.4 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/18 By: MI
Date Received: (Y/M/D) various By:

Type of Fracture



ST: Splitting Tensile F: Flexure Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
603	4	2009/10/21	KT	28620	15.7	A	
604	7	2009/10/25	KT	32120	17.6	A	
605	14	2009/11/1	KT	37100	20.4	A	
606	29	2009/11/15	CH	47030	25.8	A	
607	58	2009/12/15	SMS	54600	30.0	A	
608	58	2009/12/15	SMS	56550	31.0	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Building, Between Line C & D, and Between Line 3 & 4
Sump Pad Foundation

Test No.: T-107 Placing Method: Pump

Information From Delivery Ticket

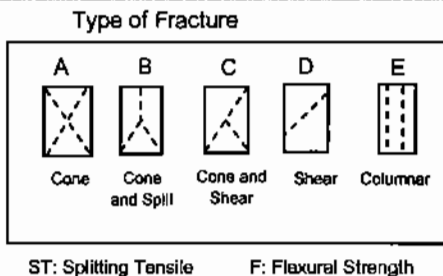
Supplier: IDL
Truck No: 8 Batch Time: 12:24
Ticket No: 586 Mix No:
Load Amount: 8.0 m³ Cumulative: 64.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 12:50 Unit Weight: kg/m³ Mould Type: Plastic Type of Fracture
Temperature: Air: 2.0 °C Concrete: 14.8 °C Diameter: 100 mm
Cast Slump/Flow: 160 mm Cast Air Content: 5.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/18 By: MI
Date Received: (Y/M/D) various By:



Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
609	4	2009/10/22	KT	22250	12.2	C	
610	7	2009/10/26	KT	28470	15.6	A	
611	14	2009/11/2	KT	33880	18.9	A	
612	28	2009/11/16	CH	41040	22.4	A	
613	57	2009/12/15	SMS	50990	28.0	A	
614	57	2009/12/15	SMS	49960	27.4	A	

Remarks: Initial Curing Temperatures: Min 12.7°C, Max 36.6°C
Electricians working in the lab on Dec 14

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Building, Between Line C & D, 2 m East of Line
Sump Pad Foundation

Test No.: T-108

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 15 Batch Time: _____
Ticket No: 593 Mix No: _____
Load Amount: 8.0 m³ Cumulative: 120.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: _____ Winter Heat: ☒

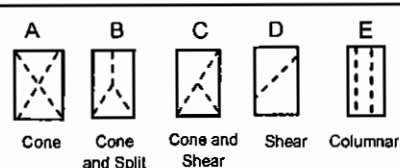
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: _____ MPa Test Age: _____ days
Slump/Flow: _____ mm Air Content: _____ %
Class of Concrete: _____ Cement Type: _____

Field Test Data

Test Time: 3:25 Unit Weight: _____ kg/m³ Mould Type: Plastic
Temperature: Air: 3.0 °C Concrete: 15.3 °C Diameter: 100 mm
Cast Slump/Flow: 160 mm Cast Air Content: 4.9 %
Initial Slump: _____ mm Initial Air Content: _____ %
Concrete Setting Temperature Within CSA Limits (15-25 °C): N y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/19 By: MI
Date Received: (Y/M/D) various By: _____

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
615	3	2009/10/22	KT	27870	15.3	C	
616	7	2009/10/26	KT	33090	18.2	A	
617	14	2009/11/2	KT	38480	21.1	A	
618	28	2009/11/16	CH	47730	26.2	A	
619	57	2009/12/15	SMS	55540	30.5	A	
620	57	2009/12/15	SMS	57020	31.3	A	

Remarks: Initial Curing Temperatures: Min 12.7°C, Max 36.6°C

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Building, Line E, 5 m West of Line 3
Sump Pad Foundation

Test No.: T-109

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 25 Batch Time: _____
Ticket No: 603 Mix No: _____
Load Amount: 8.0 m³ Cumulative: 200.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: _____ Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: _____ MPa Test Age: _____ days
Slump/Flow: _____ mm Air Content: _____ %
Class of Concrete: _____ Cement Type: _____

Field Test Data

Test Time: 6:40 Unit Weight: _____ kg/m³ Mould Type: Plastic
Temperature: Air: 2.0 °C Concrete: 14.0 °C Diameter: 100 mm
Cast Slump/Flow: 155 mm Cast Air Content: 5.5 %
Initial Slump: _____ mm Initial Air Content: _____ %

Concrete Setting Temperature Within CSA Limits (15-25 °C): N y/n (see remarks if No)

Date Cast: (Y/M/D)

2009/10/19

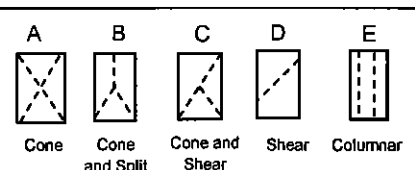
By: MI

Date Received: (Y/M/D)

various

By: _____

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
621	3	2009/10/22	KT	28460	15.6	A	
622	8	2009/10/27	KT	34560	19.0	C	
623	14	2009/11/2	KT	41350	22.7	A	
624	28	2009/11/16	CH	45790	25.1	D	
625	57	2009/12/15	SMS	56650	31.1	A	
626	57	2009/12/15	SMS	56850	31.2	A	

Remarks: Initial Curing Temperatures: Min 12.6°C, Max 36.6°C

Electricians working in the lab on Dec 14

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Crusher building; line 2; line B4 (Cone Crusher, west wall)

Test No.: T-110 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time:
Ticket No: 608 Mix No:
Load Amount: 4.0 m³ Cumulative: 4.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

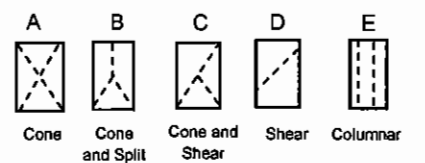
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 4:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -2.6 °C Concrete: 11.2 °C Diameter: 100 mm
Cast Slump/Flow: 145 mm Cast Air Content: 5.0 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/21 By: MI
Date Received: (Y/M/D) various By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
627	6	2009/10/27	KT	28960	15.9	A	
628	7	2009/10/28	KT	29000	15.9	C	
629	14	2009/11/4	KT	34640	19.0	A	
630	28	2009/11/18	SMS	42940	23.6	A	
631	56	2009/12/16	CH	45940	25.2	C	
632	56	2009/12/16	CH	48130	26.4	C	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg foundation area; line D and line 11

Test No.: T-111 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 5:27
Ticket No: 613 Mix No:
Load Amount: 8.5 m³ Cumulative: 25.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

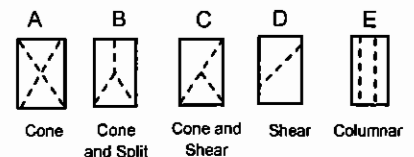
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 4:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 0.9 °C Concrete: 10.0 °C Diameter: 100 mm
Cast Slump/Flow: 160 mm Cast Air Content: 4.0 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/22 By: MI
Date Received: (Y/M/D) various By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
633	6	2009/10/25	KT	28110	15.4	A	
634	7	2009/10/29	KT	32020	17.6	A	
635	14	2009/11/5	KT	26220	14.4	C	damaged cylinder??
636	28	2009/11/19	CH	46000	25.2	A	
637	56	2009/12/17	SMS	52530	28.8	A	
638	56	2009/12/17	SMS	52530	28.8	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Genset Pad; 10 m S of the northern most edge and 1/2 way
between the E/W walls

Test No.: T-112 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 5 Batch Time: 10:00
Ticket No: 621 Mix No:
Load Amount: 8.0 m³ Cumulative: 40.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

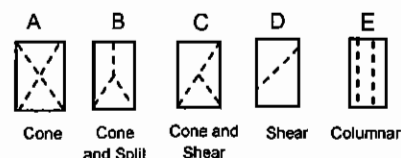
Test Time: 10:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -4.0 °C Concrete: 11.5 °C Diameter: 100 mm
Cast Slump/Flow: 155 mm Cast Air Content: 5.3 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/10/23 By: MI

Date Received: (Y/M/D) various By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
639	4	2009/10/27	KT	25210	13.5	A	
640	7	2009/10/30	KT	25580	14.0	C	
641	14	2009/11/6	KT	32740	18.0	A	
642	28	2009/11/20	CH	37870	20.7	D	
643	56	2009/12/18	CH	48120	26.4	A	
644	56	2009/12/18	CH	46260	25.4	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Concentrate load out bldg; 1.8 m N line E along line 2
(Wheel Stop)

Test No.: T-113 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 2 Batch Time: 2:43
Ticket No: 628 Mix No:
Load Amount: 8.0 m³ Cumulative: 16.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

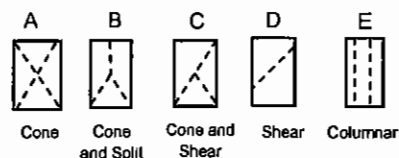
Test Time: 2:50 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -4.0 °C Concrete: 13.7 °C Diameter: 100 mm
Cast Slump/Flow: 140 mm Cast Air Content: 5.4 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/10/23 By: MI

Date Received: (Y/M/D) various By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
645	4	2009/10/27	KT	27280	15.0	C	
646	7	2009/10/30	KT	28980	15.9	A	
647	14	2009/11/6	KT	33300	18.3	A	
648	28	2009/11/20	CH	39840	21.9	D	
649	56	2009/12/18	CH	47210	25.9	A	
650	56	2009/12/18	CH	49530	27.2	D	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Small footing @ line C, b/w 14/15 of the Mill Bldg

Test No.: T-114 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 5 Batch Time: 2:32
Ticket No: 633 Mix No:
Load Amount: 8.0 m³ Cumulative: 40.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

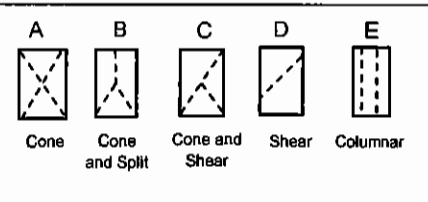
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 2:45 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -2.0 °C Concrete: 14.1 °C Diameter: 100 mm
Cast Slump/Flow: 170 mm Cast Air Content: 5.0 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/24 By: MI
Date Received: (Y/M/D) various By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
651	3	2009/10/27	KT	27260	15.0	C	
652	7	2009/10/31	KT	29270	16.1	A	
653	14	2009/11/7	KT	35580	19.5	A	
654	28	2009/11/21	CH	47940	26.3	A	
655	56	2009/12/19	CH	50970	27.9	A	
656	56	2009/12/19	CH	49750	27.3	A	

Remarks: Cylinders were cast using material from the very end of mixing truck. There was only about 1.0 m left.
Material was taken from the end of the pump NOT from the truck.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Bldg Foundataion; area peds and grade beams
1/2 way b/w 7/8; 1/2 way b/w D/E

Test No.: T-115 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 2 Batch Time: 4:35
Ticket No: 636 Mix No:
Load Amount: 8.0 m³ Cumulative: 15.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

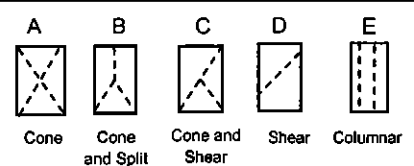
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 4:50 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -3.0 °C Concrete: 14.1 °C Diameter: 100 mm
Cast Slump/Flow: 125 mm Cast Air Content: 4.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C) : Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/24 By: MI
Date Received: (Y/M/D) various By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
657	3	2009/10/27	KT	24580	13.5	A	
658	7	2009/10/31	KT	28180	15.5	A	
659	14	2009/11/7	KT	36100	19.8	A	
660	28	2009/11/21	CH	44970	24.7	A	
661	56	2009/12/19	CH	48840	26.8	A	
662	56	2009/12/19	CH	47770	26.2	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Tailing Thickener Foundation; 1.5 m E of the W edge

Test No.: T-116 Placing Method: Pump

Information From Delivery Ticket

Supplier:	IDL		
Truck No:	6	Batch Time:	1:05
Ticket No:	644	Mix No:	
Load Amount:	8.0 m ³	Cumulative:	48.0 m ³
Strength:	30 MPa	Max Agg. Size:	20 mm
Cement Type:	InterCem	Slump/Flow:	80 mm
Admixture: Air	☒	SP	☒ Acc. ☐ Air Content: 5 - 8 %
Other:		Winter Heat:	☒

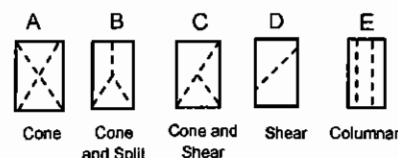
Contract Specifications as Provided

Same as Delivery Ticket:	☒	Not Available:	☐
Strength:	MPa	Test Age:	days
Slump/Flow:	mm	Air Content:	%
Class of Concrete:		Cement Type:	

Field Test Data

Test Time:	1:25	Unit Weight:	kg/m ³	Mould Type:	Plastic
Temperature: Air:	-4.0 °C	Concrete:	12.3 °C	Diameter:	100 mm
Cast Slump/Flow:	130 mm	Cast Air Content:	5.7 %		
Initial Slump:	mm	Initial Air Content:	%		
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)					
Date Cast: (Y/M/D)	2009/10/25	By:	MI		
Date Received: (Y/M/D)	various	By:			

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
663	3	2009/10/28	KT	14990	8.2	A	
664	8	2009/11/2	KT	21060	11.6	A	
665	14	2009/11/8	KT	38310	15.5	A	
666	28	2009/11/22	CH	37840	20.7	A	
667	56	2009/12/20	CH	39100	21.5	A	
668	56	2009/12/20	CH	40070	22.0	C	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Concentrate Load Outbuilding; 4 m N; line E
1/2 way between lines 1 & 2

Test No.: T-117

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 4 Batch Time: 9:10
Ticket No: 651 Mix No:
Load Amount: 8.0 m³ Cumulative: 32.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

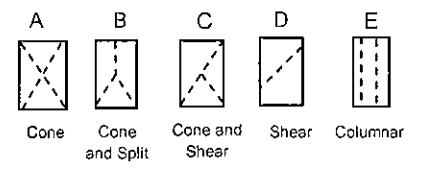
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 9:50 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -1.5 °C Concrete: 14.6 °C Diameter: 100 mm
Cast Slump/Flow: 130 mm Cast Air Content: 5.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/26 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
669	84	2010/1/18	KT	49310	27.1	B	
670	7	2009/11/2	JMP	23520	12.9	A	
671	14	2009/11/9	KT	31730	17.4	A	
672	28	2009/11/23	CH	40910	22.5	A	
673	56	2009/12/21	SMS	46270	25.4	A	
674	56	2009/12/21	SMS	46700	25.6	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Genset Pad; 3.3 m S of the N wall
2.5 m E of the W wall

Test No.: T-118 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 1:35
Ticket No: 657 Mix No:
Load Amount: 8.0 m³ Cumulative: 32.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

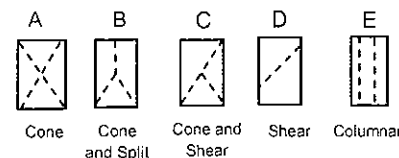
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 1:45 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -2.0 °C Concrete: 14.6 °C Diameter: 100 mm
Cast Slump/Flow: 130 mm Cast Air Content: 5.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/26 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
675	84	2010/11/18	JMP	53000	29.1	C	
676	7	2009/11/2	KT	25440	14.0	C	
677	14	2009/11/9	KT	33520	18.4	C	
678	28	2009/11/23	CH	41030	22.5	A	
679	56	2009/12/21	SMS	47300	26.0	A	
680	56	2009/12/21	SMS	48260	26.5	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Bldg Foundation area; b/w lines 10/11
b/w line E/F

Test No.: T-119

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 2 Batch Time: 4:05
Ticket No: 661 Mix No:
Load Amount: 8.0 m³ Cumulative: 16.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

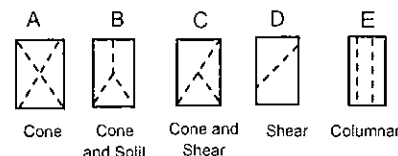
Test Time: 5:05 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -2.0 °C Concrete: 13.6 °C Diameter: 100 mm
Cast Slump/Flow: 130* mm Cast Air Content: 5.6 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/10/27 By: MI

Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
681	84	2010/1/19	JMP	52400	28.8	D	
682	7	2009/11/3	KT	21500	11.6	A	
683	14	2009/11/10	KT	29060	16.0	A	
684	28	2009/11/24	JMP	42490	23.3	B	
685	56	2009/12/22	SMS	47760	26.2	A	
686	56	2009/12/22	SMS	51480	28.3	A	

Remarks: * Mixer truck added approx 1.5 L of plasticizer to the truck on site. The mixer had waited for about an hour due to pump truck difficulties.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg; small anchor bolt pedestals around the
Rod & Ball Mill foundation

Test No.: T-120 Placing Method: Chute

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 11:40
Ticket No: 664 Mix No:
Load Amount: 8.0 m³ Cumulative: 8.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☐ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

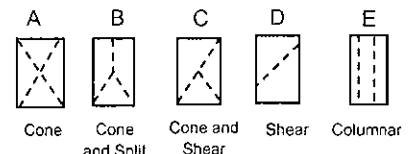
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 12:10 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -8.0 °C Concrete: 16.3 °C Diameter: 100 mm
Cast Slump/Flow: 90 mm Cast Air Content: 3.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/28 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
687	4	2009/11/1	KT	24540	13.5	A	
688	7	2009/11/4	KT	30800	16.9	A	
689	14	2009/11/11	KT	37730	20.7	A	
690	28	2009/11/25	CH	44720	24.6	A	
691	56	2009/12/23	SMS	53330	29.3	A	
692	56	2009/12/23	SMS	53730	29.5	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Bldg; Paste Plant floor slab; b/w lines F/G & b/w lines 2/3

Test No.: T-121

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 7 Batch Time: 2:34
Ticket No: 670 Mix No:
Load Amount: 8.0 m³ Cumulative: 56.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☐ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

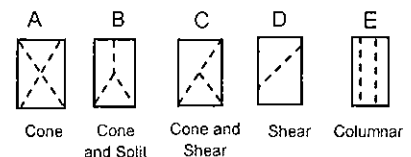
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 3:05 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -6.0 °C Concrete: 15.2 °C Diameter: 100 mm
Cast Slump/Flow: 150 mm Cast Air Content: 4.0 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/28 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
693	4	2009/11/1	KT	25820	14.2	A	
694	7	2009/11/4	KT	30370	16.7	A	
695	14	2009/11/11	KT	37180	20.4	A	
696	28	2009/11/25	CH	45540	25.0	B	
697	56	2009/12/23	SMS	51360	28.2	C	
698	56	2009/12/23	SMS	52860	29.0	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg; b/w lines C/D & b/w lines 3/4

Test No.: T-122 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: Batch Time: 6:50
Ticket No: 676 Mix No:
Load Amount: 8.0 m³ Cumulative: 120.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

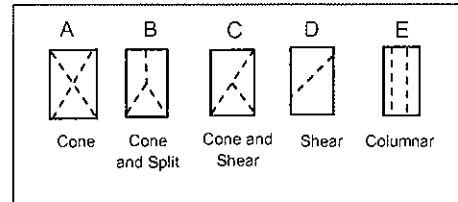
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 7:00 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -1.0 °C Concrete: 14.0 °C Diameter: 100 mm
Cast Slump/Flow: 140 mm Cast Air Content: 5.0 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/28 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
699	4	2009/11/1	KT	25280	13.9	A	
700	7	2009/11/4	KT	32030	17.6	A	
701	14	2009/11/11	KT	36700	20.1	A	
702	28	2009/11/25	CH	44830	24.6	A	
703	56	2009/12/23	SMS	53450	29.3	A	
704	56	2009/12/23	SMS	50760	27.9	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Floatation Foundation Columns; Samples NE column & beam

Test No.: T-123 Placing Method: Chute

Information From Delivery Ticket

Supplier: IDL
Truck No: 4 Batch Time: 5:02
Ticket No: 682 Mix No:
Load Amount: 8.0 m³ Cumulative: 120.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: hardner Winter Heat: ☒

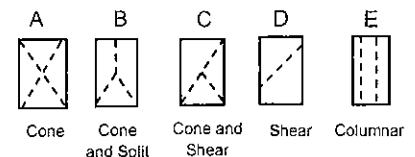
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 5:35 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -10.0 °C Concrete: 14.8 °C Diameter: 100 mm
Cast Slump/Flow: 160 mm Cast Air Content: 4.3 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/10/29 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
705	3	2009/11/1	KT	19710	10.8	A	
706	7	2009/11/5	KT	30610	16.8	A	
707	14	2009/11/12	KT	36210	19.9	A	
708	28	2009/11/26	CH	45280	24.9	A	
709	56	2009/12/24	SMS	52910	26.9	A	
710	56	2009/12/24	SMS	52600	28.9	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Slab; Section b/w A12-A15 & B12-B15

Sampled @ 2 m S of A14

Test No.: T-124

Placing Method:

Chute

Information From Delivery Ticket

Supplier: IDL
Truck No: 5 Batch Time: 1:10
Ticket No: 689 Mix No:
Load Amount: 8.0 m³ Cumulative: 40.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: hardner Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

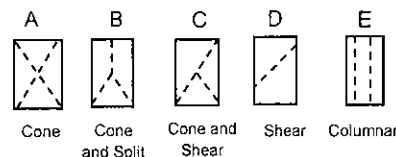
Test Time: 1:25 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -8.0 °C Concrete: 12.8 °C Diameter: 100 mm
Cast Slump/Flow: 110 mm Cast Air Content: 4.1 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/10/30 By: RC

Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
711	3	2010/11/2	KT	23560	12.9	A	
712	7	2010/11/6	KT	30000	16.5	A	
713	14	2010/11/13	KT	39840	21.9	C	
714	28	2010/11/27	JMP	49300	27.1	B	
715	56	2010/12/25	CH	55300	30.3	A	
716	56	2010/12/25	CH	56580	31.1	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Crusher Bldg; Vibrating Screen Foundation/Column
NW Column of Foundation Cluster

Test No.: T-125 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL	
Truck No: 1 of 2	Batch Time: 8:34
Ticket No: 692	Mix No:
Load Amount: 8.0 m ³	Cumulative: 8.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: InterCem	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐	Air Content: 5 - 8 %
Other: hardner	Winter Heat: ☒

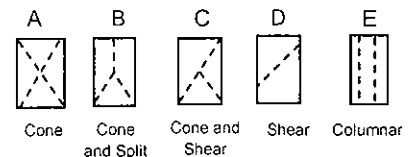
Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: MPa	Test Age: days
Slump/Flow: mm	Air Content: %
Class of Concrete:	Cement Type:

Field Test Data

Test Time: 9:00	Unit Weight: kg/m ³	Mould Type: Plastic
Temperature: Air: -10.5 °C	Concrete: 14.5 °C	Diameter: 100 mm
Cast Slump/Flow: 120 mm	Cast Air Content: 4.1 %	
Initial Slump: mm	Initial Air Content: %	
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)		
Date Cast: (Y/M/D) 2009/11/1	By: RC	
Date Received: (Y/M/D)	By:	

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
717	3	2009/11/4	KT	29660	16.3	A	
718	7	2009/11/8	KT	34320	18.8	A	
719	28	2009/11/29	CH	47600	26.1	A	
720	56	2009/12/27	CH	58450	32.2	A	
721	56	2009/12/27	CH	60360	33.1	D	
722	84	2010/1/24	JMP	59640	32.7	D	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Big Pour Fdn; 1.5 m S of N end of footing (top lift)
b/w B4-B5

Test No.: T-126 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 8 Batch Time: 2:07
Ticket No: 703 Mix No:
Load Amount: 8.0 m³ Cumulative: 64.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: hardner Winter Heat: ☒

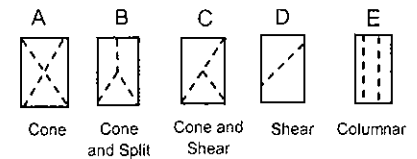
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 2:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -2.0 °C Concrete: 13.1 °C Diameter: 100 mm
Cast Slump/Flow: 120 mm Cast Air Content: 3.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/1 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
723	3	2009/11/4	KT	25830	14.2	A	
724	7	2009/11/8	KT	32610	17.9	A	
725	28	2009/11/29	CH	49500	27.2	A	
726	56	2009/12/27	CH	58280	32.0	B	
727	56	2009/12/27	CH	60530	33.2	A	
728	84	2010/1/24	JMP	61320	33.7	B	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

160 m3 Fdn; 2.5 m N of SE corner of pour just below re-bar
Mill Bldg

Test No.: T-127

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 18 Batch Time: 4:42
Ticket No: 713 Mix No:
Load Amount: 8.0 m³ Cumulative: 144.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: hardner Winter Heat: ☒

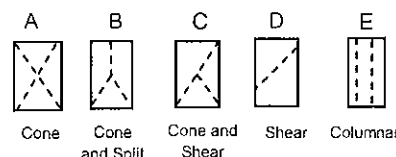
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 5:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -2.0 °C Concrete: 11.1 °C Diameter: 100 mm
Cast Slump/Flow: 130 mm Cast Air Content: 4.1 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/1 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
729	3	2009/11/4	KT	22070	12.1	A	
730	7	2009/11/8	KT	30460	16.7	A	
731	28	2009/11/29	CH	45360	24.9	C	
732	56	2009/12/27	CH	54180	29.7	A	
733	56	2009/12/27	CH	53570	29.4	C	
734	84	2010/1/24	JMP	58550	32.1	B	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Bldg Slab; section B12-B15 & C12-C14 - C14-E14
sampled @ 2 m of B15-B14 1/2 way

Test No.: T-128 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 4 Batch Time: 3:55
Ticket No: 721 Mix No: 005 *
Load Amount: 8.0 m³ Cumulative: 32.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: hardner Winter Heat: ☒

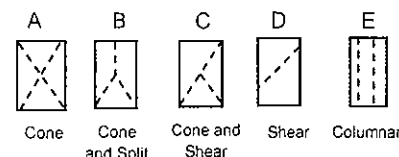
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 4:10 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 1.1 °C Concrete: 12.5 °C Diameter: 100 mm
Cast Slump/Flow: 125 mm Cast Air Content: 3.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/2 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
735	3	2009/11/5	KT	17420	9.6	A	
736	7	2009/11/9	KT	25890	14.2	A	
737	28	2009/11/30	CH	43440	23.8	C	
738	56	2009/12/28	CH	46720	25.6	C	
739	56	2009/12/28	CH	49210	27.0	A	
740	84	2010/1/25	JMP	48480	26.6	B	

Remarks: * new 20 mm rock/aggregate

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Bldg Floatation Foundation
Sampled @ 4th Column/Beam S of B11 Line

Test No.: T-129 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 4 Batch Time: 9:58
Ticket No: 727 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 32.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

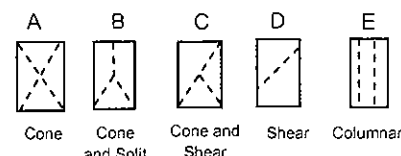
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 10:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 2.0 °C Concrete: 10.5 °C Diameter: 100 mm
Cast Slump/Flow: 105 mm Cast Air Content: 3.2 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/3 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
741	3	2009/11/6	KT	22340	12.3	A	
742	7	2009/11/10	KT	29380	16.1	C	
743	28	2009/12/11	CH	42350	23.2	C	
744	56	2009/12/29	CH	52150	28.6	A	
745	56	2009/12/29	CH	50910	27.9	A	
746	84	2010/1/26	JMP	54750	30.0	B	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

GenSet Pad; Middle Center of Southern-most Pad
Slab for standby

Test No.: T-130

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 2:43
Ticket No: 733 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 24 / 72 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: hardner Winter Heat: ☒

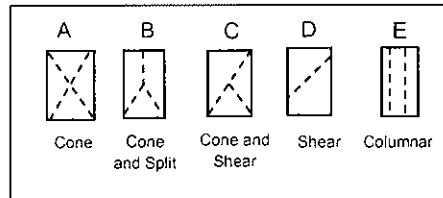
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 3:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -9.0 °C Concrete: 13.0 °C Diameter: 100 mm
Cast Slump/Flow: 115 mm Cast Air Content: 3.6 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/3 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
747	3	2009/11/6	KT	25610	14.1	C	
748	8	2009/11/11	KT	35800	19.7	A	
749	28	2009/12/1	CH	42820	23.5	C	
750	56	2009/12/29	CH	50320	27.6	A	
751	56	2009/12/29	CH	48510	26.6	A	
752	84	2010/1/26	JMP	52460	28.8	B	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Bldg Floor Slab; 2.5 m S Line A2-A1
2.5 m E of A2-B2

Test No.: T-131

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 8 Batch Time: 12:07
Ticket No: 747 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 64 / 103 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: hardner Winter Heat: ☒

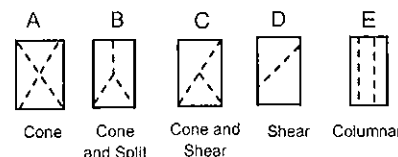
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 12:25 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 2.0 °C Concrete: 11.8 °C Diameter: 100 mm
Cast Slump/Flow: 108 mm Cast Air Content: 3.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/4 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
753	3	2009/11/7	KT	18220	10.0	A	
754	7	2009/11/11	KT	26100	14.3	A	
755	28	2009/12/2	CH	37050	20.3	C	
756	56	2009/12/30	CH	45590	25.0	C	
757	56	2009/12/30	CH	45960	25.2	A	
758	84	2010/1/27	SMS	48310	26.5	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Middle of 3 GenSet Slab
Sampled: 3 m S; 4 m E of NW corner

Test No.: T-132 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 2 Batch Time: 12:38
Ticket No: 755 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 16 / 46 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: hardner Winter Heat: ☒

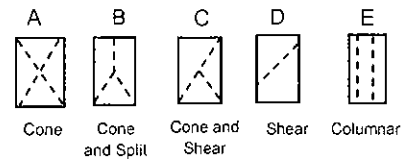
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 12:50 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -11.0 °C Concrete: 14.4 °C Diameter: 100 mm
Cast Slump/Flow: 135 mm Cast Air Content: 5.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/5 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
759	6	2009/11/11	KT	26760	14.7	A	
760	7	2009/11/12	KT	26250	14.4	A	
761	28	2009/12/3	CH	32540	17.9	C	
762	58	2010/1/1	CH	41460	22.8	A	
763	58	2010/1/1	CH	40840	22.4	A	
764	84	2010/1/28	SMS	41070	22.5	C	

Remarks: Very cold and windy. Ground was thawed out with torch. Ground showed soft spots.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg Slab; Section A7-A10; B7-B10
Sampled: 1/2 way A10-B10; 2 m W of that line

Test No.: T-133 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 5 Batch Time: 8:35
Ticket No: 764 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 40 / 44 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: hardner Winter Heat: ☒

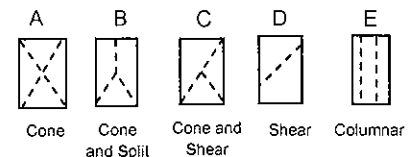
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 9:25 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 3.0 °C Concrete: 15.5 °C Diameter: 100 mm
Cast Slump/Flow: 135 mm Cast Air Content: 2.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/7 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
765	4	2009/11/11	KT	26060	14.3	A	
766	7	2009/11/14	KT	30580	16.8	A	field cast
767	28	2009/12/5	CH	41330	22.7	C	
768	57	2010/1/3	CH	49070	26.9	A	
769	57	2010/1/3	CH	48130	26.4	A	
770	86	2010/2/1	SMS	47550	26.1	C	

Remarks: IDL just received fresh powder and air content was corrected. For next outside pour it was increased to reach required %. Cyl 766 was field cast inside Mill Bldg for 24 hrs.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

GenSet Pad; Northern most Slab (3/3) and small slab @
tank farm for WL construction

Test No.: T-134 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 2 Batch Time: 11:37
Ticket No: 767 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 16 / 40 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

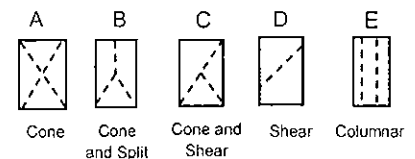
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 12:05 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -5.0 °C Concrete: 14.3 °C Diameter: 100 mm
Cast Slump/Flow: 130 mm Cast Air Content: 5.3 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/7 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
771	4	2009/11/11	KT	23870	13.1	A	
772	7	2009/11/14	KT	27560	15.1		
773	28	2009/12/5	CH	35420	19.4	D	
774	57	2010/1/3	CH	45440	24.9	D	
775	57	2010/1/3	CH	43890	24.0	A	
776	86	2010/2/1	SMS	49020	26.9	C	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
CLO Bldg; concentrate cell walls;
middle wall perpendicular to 1.5 m above slab

Test No.: T-135 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 6 Batch Time: 6:32
Ticket No: 776 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 48 / 83 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: hardner Winter Heat: ☐

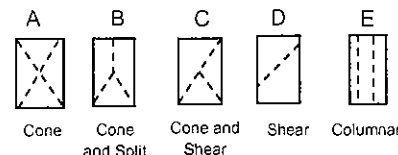
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 7:10 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 4.0 °C Concrete: 15.2 °C Diameter: 100 mm
Cast Slump/Flow: 140 mm Cast Air Content: 3.3 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/7 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
777	4	2009/11/11	KT	17930	9.8	A	
778	7	2009/11/14	KT	21370	11.7	A	
779	28	2009/12/5	CH	35360	19.4	A	
780	57	2010/1/3	CH	41910	23.0	A	
781	57	2010/1/3	CH	43530	23.9	A	
782	86	2010/2/1	SMS	46100	25.3	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Slab on Mill Bldg
Sampled @ 2.4 m W of Line 3; 1/2 way b/w D-E line

Test No.: T-136 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 10 Batch Time: 11:47
Ticket No: 792 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 80 / 147 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: hardner Winter Heat: ☒

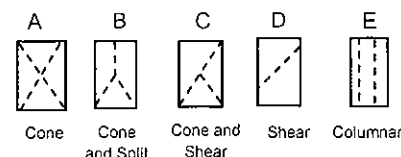
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 11:55 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 4.2 °C Concrete: 12.8 °C Diameter: 100 mm
Cast Slump/Flow: 135 mm Cast Air Content: 4.3 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/8 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
783	3	2009/11/11	KT	18200	10.0	A	
784	8	2009/11/15	CH	27940	15.4	A	
785	28	2009/12/6	CH	38090	20.9	A	
786	57	2010/1/4	SMS	45340	24.9	A	
787	57	2010/1/4	SMS	43460	23.9	C	
788	85	2010/2/1	SMS	45120	24.8	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Slab on Mill Bldg
Sampled @ 2.5 m N or F3; 2 m E of F3

Test No.: T-137 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL	
Truck No: 18	Batch Time: 1:36
Ticket No: 799	Mix No: 005
Load Amount: 8.0 m ³	Cumulative: 136.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: InterCem	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐	Air Content: 5 - 8 %
Other: hardner	Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: MPa	Test Age: days
Slump/Flow: mm	Air Content: %
Class of Concrete:	Cement Type:

Field Test Data

Test Time: 1:12 Unit Weight: kg/m³ Mould Type: Plastic

Temperature: Air: 4.0 °C Concrete: 11.1 °C Diameter: 100 mm

Cast Slump/Flow: 125 mm Cast Air Content: 4.0 %

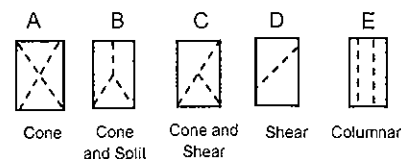
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/11/8 By: RC

Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
789	3	2009/11/11	KT	19880	10.9		
790	8	2009/11/15	CH	30470	16.7	A	
791	28	2009/12/6	CH	39390	21.6	A	
792	57	2010/1/4	SMS	47530	26.1	B	
793	57	2010/1/4	SMS	74490	26.1	B	
794	85	2010/2/1	SMS	48590	26.7	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Slab on Mill Bldg; Section B5-A5 to B7-A7

Sampled @ 2 m N of line B5-B6; 2 m E B5

Test No.: T-138

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 4 Batch Time: 2:03
Ticket No: 807 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 32 / 49 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: hardner Winter Heat: ☒

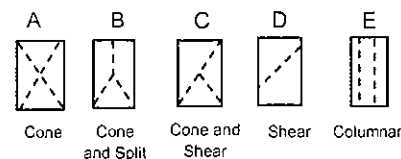
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 2:25 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 3.0 °C Concrete: 11.4 °C Diameter: 100 mm
Cast Slump/Flow: 153 mm Cast Air Content: 4.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/9 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
795	7	2009/11/16	CH	28280	15.5	A	
796	28	2009/12/7	JMP	41860	23.0	A	
797	57	2010/1/5	SMS	46680	25.6	A	
798	57	2010/1/5	SMS	46820	25.7	B	
795B	14	2009/11/23	CH	33810	18.6	B	
798B	84	2010/2/1	SMS	47450	26.0	A	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Crusher Bldg - Elevated Slabs and Columns

Test No.: T-139 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 4:20
Ticket No: 405 Mix No:
Load Amount: 3.0 m³ Cumulative: 3.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: Intercem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

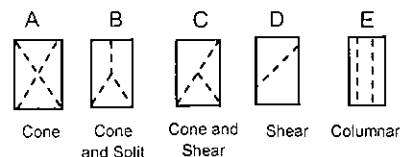
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 5:10 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -8.0 °C Concrete: 11.9 °C Diameter: 100 mm
Cast Slump/Flow: 115 mm Cast Air Content: 5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/9 By: RC
Date Received: (Y/M/D) 2009/11/13 By: CH

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
799	4	2009/11/13	CH	19870	10.9	A	
800	7	2009/11/16	CH	24860	13.6	A	
801	14	2009/12/7	JMP	25840	19.7	B	
802	56	2010/1/4	SMS	44790	24.6	B	
803	56	2010/1/4	SMS	43690	24.0	B	
804	84	2010/2/1	SMS	42740	23.5	C	

Remarks: Test Batch with new mix material

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg; Paste Plant; Water Tanks; Reagent Area
DWG E0-15-801 & Compressor Footings

Test No.: T-140 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 11:30
Ticket No: 816 Mix No:
Load Amount: 8.0 m³ Cumulative: 23.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: Intercem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: hardner Winter Heat: ☒

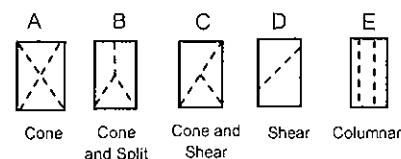
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 11:50 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 2.0 °C Concrete: 13.6 °C Diameter: 100 mm
Cast Slump/Flow: 115 mm Cast Air Content: 3.2 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2010/11/11 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
805	7	2010/11/18	CH	33450	18.4	A	
806	28	2010/12/9	CH	44070	24.2	A	
807	56	2010/1/6	SMS	42580	23.4	B	
808	56	2010/1/6	SMS	46520	25.5	A	

Remarks: After inside pour, IDL delivered 30 m³ for footings for line-silo. EBA tested for air, temp & slump every truck. Air = 5 - 5.5%; Slump = 100 - 130; Temp = 9.8 - 11.0°C

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Concentrate load out building; Between lines 4 & 5
along line A

Test No.: T-141 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 5 Batch Time: 10:54
Ticket No: 835 Mix No:
Load Amount: 8.0 m³ Cumulative: 40.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: Slump/Flow: 80 mm
Admixture: Air ☐ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

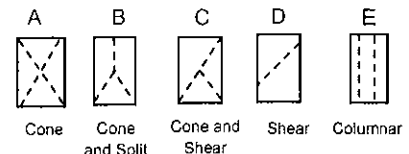
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 11:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 2.1 °C Concrete: 12.5 °C Diameter: 100 mm
Cast Slump/Flow: 125 mm Cast Air Content: 3.6 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/13 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
809	7	2009/11/20	CH	31380	17.2	A	
810	28	2009/12/11	CH	46340	25.4	D	
811	56	2010/1/8	SMS	53000	29.1	C	
812	56	2010/1/8	SMS	52960	29.1	D	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Bldg; Along line 6; between lines D & F

Test No.: T-142

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 8 Batch Time: 5:43
Ticket No: 847 Mix No:
Load Amount: 8.0 m³ Cumulative: 64.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

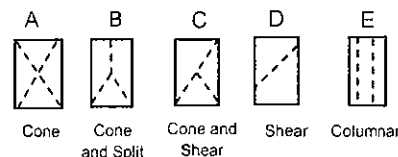
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 6:10 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 3.2 °C Concrete: 11.2 °C Diameter: 100 mm
Cast Slump/Flow: 130 mm Cast Air Content: 4.1 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/13 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
813	5	2009/11/18	SMS	25190	13.8	C	
814	7	2009/11/20	CH	29260	16.1	A	
815	14	2009/11/27	JMP	36440	20.0	C	
816	28	2009/12/11	CH	41290	22.7	C	
817	56	2010/1/8	SMS	45070	24.7	C	
818	56	2010/1/8	SMS	46570	25.6	C	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg; between lines 5 & 6; along line F

Test No.: T-143 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 18 Batch Time:
Ticket No: 857 Mix No:
Load Amount: 8.0 m³ Cumulative: 144.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

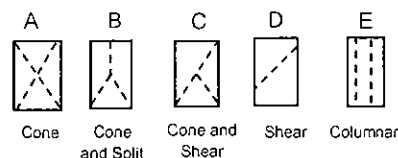
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 9:05 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 3.2 °C Concrete: 6.0 °C Diameter: 100 mm
Cast Slump/Flow: 135 mm Cast Air Content: 6 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): N y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/13 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
819	5	2009/11/18	SMS	21750	11.9	C	
820	7	2009/11/20	CH	25100	13.8	C	
821	14	2009/11/27	JMP	33000	18.1	D	
822	28	2009/12/11	CH	69800	21.8	C	
823	56	2010/1/8	SMS	46500	25.5	D	
824	56	2010/1/8	SMS	45700	25.1	D	

Remarks: + 3 L plasti added @ the plant

Plant has trouble maintaining water temp, also full water truck dumped into batch plant's water tank making it very difficult to recover heat in time. Batch plant wait 30 minutes then batches out at 30 min intervals to try to gain temp.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Bldg; between lines 6& 7; along line F

Test No.: T-144

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 24 Batch Time: 11:30
Ticket No: 863 Mix No:
Load Amount: 8.0 m³ Cumulative: 196.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☐ SP ☐ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

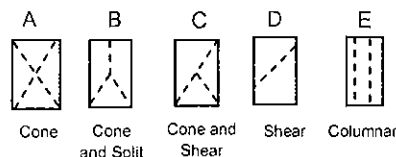
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 12:50 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 3.2 °C Concrete: 9.2 °C Diameter: 100 mm
Cast Slump/Flow: 130 mm Cast Air Content: 6.2 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): N y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/13 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
825	5	2009/11/18	SMS	20740	11.4	B	
826	7	2009/11/20	SMS	23940	13.1	C	
827	14	2009/11/27	JMP	31050	17.0	C	
828	28	2009/12/11	CH	35200	19.3	A	
829	56	2010/1/8	SMS	43420	23.8	D	
830	56	2010/1/8	SMS	41250	22.6	D	

Remarks: Plant has trouble maintaining water temp, also full water truck dumped into batch plant's water tank making it very difficult to recover heat in time. Batch plant wait 30 minutes then batches out at 30 min intervals to try to gain temp.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Bldg; between lines A & B and between lines 10 & 11
Stairwell Base Pad

Test No.: T-145

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 11:15
Ticket No: 867 Mix No:
Load Amount: 8.0 m³ Cumulative: 196.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

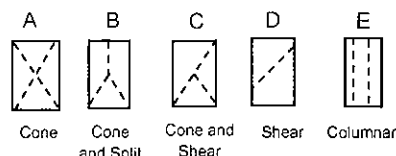
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 11:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 3.4 °C Concrete: 12.2 °C Diameter: 100 mm
Cast Slump/Flow: 140 mm Cast Air Content: 4.4 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/13 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile

F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
831	7	2009/11/22	CH	26510	14.5	C	
832	7	2009/11/22	CH	29000	15.9	A	
833	14	2009/11/29					misplaced cylinder
834	30	2009/12/15	SMS	43550	23.9	A	
835	57	2010/1/11	SMS	43090	23.7	B	
836	57	2010/1/11	SMS	43790	24.0	C	

Remarks: 3 L/m³ of plasticizer added at the plant to allow material to penetrate the hopper's grate.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg; Floor Slab between lines 8 & 9
and between lines C & D

Test No.: T-146 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 9 Batch Time: 11:57
Ticket No: 878 Mix No:
Load Amount: 8.0 m³ Cumulative: 72.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

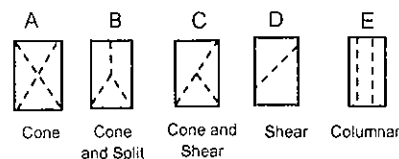
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 12:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 4.9 °C Concrete: 11.6 °C Diameter: 100 mm
Cast Slump/Flow: 130 mm Cast Air Content: 5.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/16 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
837	4	2009/11/20	SMS	23750	13.0	A	
838	7	2009/11/23	JMP	27610	15.2	B	
839	14	2009/11/30	CH	33100	18.2	A	
840	29	2009/12/15	SMS	41350	22.7	C	
841	56	2010/1/11	SMS	44930	24.7	C	
842	56	2010/1/11	SMS	39250	21.5	D	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg; Floor Slab between lines 10 & 11
and between lines B & C

Test No.: T-147 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 16 Batch Time: 2:25
Ticket No: 885 Mix No:
Load Amount: 8.0 m³ Cumulative: 128.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☐

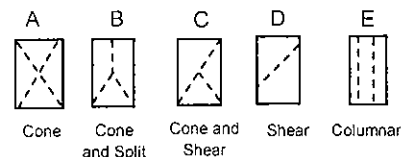
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 3:00 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 4.9 °C Concrete: 10.0 °C Diameter: 100 mm
Cast Slump/Flow: 130 mm Cast Air Content: 6.2 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/16 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
843	4	2009/11/19	CH	24320	13.4	C	
844	7	2009/11/23	CH	28880	15.9	A	
845	14	2009/11/30	CH	35370	19.4	A	
846	29	2009/12/15	SMS	41690	23.0	C	
847	56	2010/1/11	SMS	41980	23.0	C	
848	56	2010/1/11	SMS	44450	24.4	C	

Remarks: An extra 0.5 L of SP was added on site due to the mixer truck having to wait for the pump.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg; between C & D, between 4 & 5
(floor slab)

Test No.: T-148 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 6 Batch Time: 1:15
Ticket No: 889 Mix No:
Load Amount: 8.0 m³ Cumulative: 48.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: Inter Cem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☐

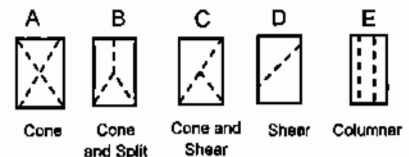
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 1:35 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 3.4 °C Concrete: 10.9 °C Diameter: 100 mm
Cast Slump/Flow: 110 mm Cast Air Content: 5.2 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/17 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
849	3	2009/11/20	CH	26540	14.6	A	
850	7	2009/11/24	CH	32270	17.7	A	
851	14	2009/12/1	CH	36950	20.3	D	
852	28	2009/12/15	SMS	42760	23.5	C	
853	56	2010/1/12	SMS	45840	25.2	C	
854	84	2010/2/9	JP	52040	28.6	B	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Crusher Building - Agg Hopper Foundation,
South of Building

Test No.: T-149 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 1:14
Ticket No: 906 Mix No:
Load Amount: 8.0 m³ Cumulative: 24.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: Inter Cem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

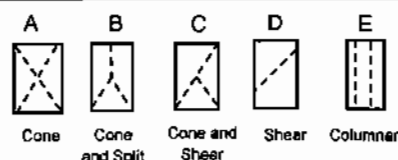
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 1:25 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -22 °C Concrete: 9.2 °C Diameter: 100 mm
Cast Slump/Flow: 120 mm Cast Air Content: 6.9 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/19 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
855	3	2009/11/22	CH	24400	13.4	B	
856	7	2009/11/26	CH	28380	15.5	D	
857	14	2009/12/3	CH	30740	16.9	C	
858	28	2009/12/17	SMS	37870	20.8	C	
859	56	2010/1/14	SMS	40440	22.2	D	
860	84	2010/2/11	JP	46060	25.3	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg Floor Slab @ Floatation Area
Between E/F and between 7/8

Test No.: T-150 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 7 Batch Time: 12:50
Ticket No: 915 Mix No:
Load Amount: 8.0 m³ Cumulative: 56.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: Inter Cem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

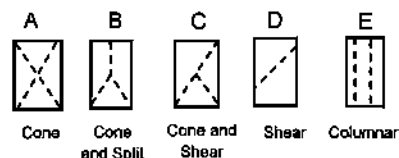
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 1:10 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 6.3 °C Concrete: 10.9 °C Diameter: 100 mm
Cast Slump/Flow: 140 mm Cast Air Content: 4.2 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/21 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
861	3	2009/11/24	CH	24000	13.2	A	
862	7	2009/11/28	CH	30910	17.0	C	
863	14	2009/12/5	CH	37570	20.6	C	
864	30	2009/12/21	SMS	47800	26.2	C	
865	56	2010/1/16	JP	49450	27.1	B	
866	84	2010/2/13	JP	52540	28.8	B	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Crusher Bldg

Transformer pad located on the South side of bldg

Test No.: T-151 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 4:00
Ticket No: 924 Mix No:
Load Amount: 4.0 m³ Cumulative: 4.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: Inter Cem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

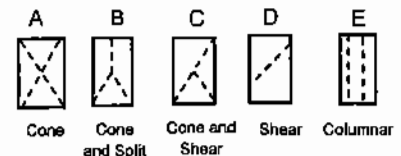
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 4:20 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -22.7 °C Concrete: 8.6 °C Diameter: 100 mm
Cast Slump/Flow: 140 mm Cast Air Content: 4.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/21 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
867	3	2009/11/24	CH	22900	12.6	A	
868	7	2009/11/28	CH	27860	15.3	B	
869	14	2009/12/5	CH	35180	19.3	A	
870	30	2009/12/21	SMS	44220	24.3	A	
871	56	2010/1/16	JP	48010	26.4	A	
872	84	2010/2/13	JP	49330	27.1	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
GenSet Pad; Boiler Pump House Pad
7.1 m S of the NW corner

Test No.: T-152 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 7 Batch Time: 12:18
Ticket No: 931 Mix No:
Load Amount: 8.0 m³ Cumulative: 56.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: Inter Cem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

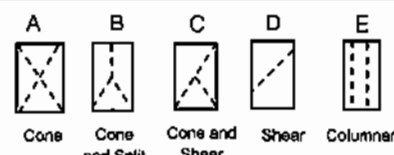
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 12:35 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -10.0 °C Concrete: 11.2 °C Diameter: 100 mm
Cast Slump/Flow: 120 mm Cast Air Content: 7.1 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/22 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
873	3	2009/11/25	CH	18870	10.4	C	
874	7	2009/11/19	CH	25350	13.9	D	
875	14	2009/12/6	CH	31140	17.1	D	
876	28	2009/12/20	CH	34130	18.7	B	
877	56	2010/1/17	JP	40300	22.1	B	
878	84	2010/2/14	JP	42830	23.5	D	

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CONCRETE STRENGTH TEST RESULTS



Standard A 203
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095 005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Bldg

Octagon located b/w lines 5&6 and lines F&G

Test No.: T-153 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 4:08
Ticket No: 937 Mix No:
Load Amount: 8.0 m³ Cumulative: 24.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: Inter Cem Slump/Flow: 80 mm
Admixture: Air ☐ SP ☒ Acc. ☒ Air Content: n/a %
Other: Winter Heat: ☒

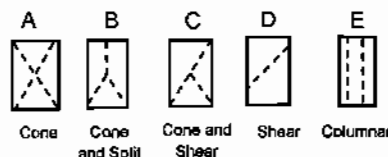
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 4:25 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -10.0 °C Concrete: 15.4 °C Diameter: 100 mm
Cast Slump/Flow: 115 mm Cast Air Content: 2.3 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/22 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
879	3	2009/11/25	CH	26020	14.3	C	
880	7	2009/11/19	CH	31840	17.5	C	
881	14	2009/12/6	CH	37620	20.6	A	
882	28	2009/12/20	CH	36060	19.8	D	
883	56	2010/1/17	JP	47850	26.3	C	
884	84	2010/2/14	JP	49330	27.1	B	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Pipe Bridge Footing #2
West of the CLO

Test No.: T-154 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 1:58
Ticket No: 943 Mix No:
Load Amount: 7.0 m³ Cumulative: 7.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: Inter Cem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

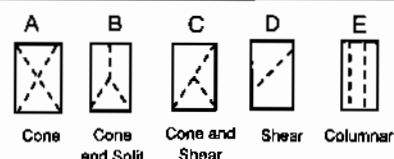
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 2:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -10.0 °C Concrete: 12.6 °C Diameter: 100 mm
Cast Slump/Flow: 120 mm Cast Air Content: 6.2 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/23 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
885	3	2009/11/26	CH	23310	12.8	D	
886	7	2009/11/30	CH	31740	17.4	D	
887	14	2009/12/7	JP	34560	19.0	C	
888	28	2009/12/21	SMS	40580	22.2	C	
889	56	2010/1/18	JP	45600	25.0	B	
890	84	2010/2/15	JP	45550	25.0	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Bldg
Octagon #2; b/w 6&7 and b/w F&G

Test No.: T-155 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL	
Truck No: 2	Batch Time: 3:48
Ticket No: 945	Mix No:
Load Amount: 8.0 m ³	Cumulative: 16.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: Inter Cern	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒	Air Content: 5 - 8 %
Other:	Winter Heat: ☒

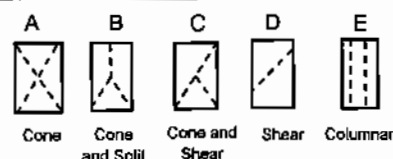
Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: MPa	Test Age: days
Slump/Flow: mm	Air Content: %
Class of Concrete:	Cement Type:

Field Test Data

Test Time: 4:05	Unit Weight: kg/m ³	Mould Type: Plastic
Temperature: Air: 5.0 °C Concrete: 12.7 °C	Diameter: 100 mm	
Cast Slump/Flow: 130 mm	Cast Air Content: 4.3 %	
Initial Slump: mm	Initial Air Content: %	
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)		
Date Cast: (Y/M/D) 2009/11/23	By: MI	
Date Received: (Y/M/D)	By:	

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
891	3	2009/11/26	CH	24810	13.6	C	
892	7	2009/11/30	CH	33850	18.6	C	
893	14	2009/12/7	JP	68630	21.2	B	
894	28	2009/12/21	SMS	46050	25.3	C	
895	56	2010/1/18	JP	45510	25.0	D	
896	84	2010/2/15	JP	49230	27.0	C	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Bldg
Octagon #3; b/w 7&8 and b/w F&G

Test No.: T-156 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL	
Truck No: 2	Batch Time: 6:38
Ticket No: 948	Mix No: _____
Load Amount: 8.0 m ³	Cumulative: 16.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: Inter Cern	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒	Air Content: 5 - 8 %
Other: _____	Winter Heat: ☒

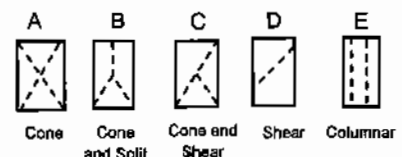
Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: _____ MPa	Test Age: _____ days
Slump/Flow: - mm	Air Content: _____ %
Class of Concrete: _____	Cement Type: _____

Field Test Data

Test Time: 6:55	Unit Weight: _____ kg/m ³	Mould Type: Plastic
Temperature: Air: 5.0 °C	Concrete: 12.9 °C	Diameter: 100 mm
Cast Slump/Flow: 120 mm	Cast Air Content: 4.7 %	
Initial Slump: _____ mm	Initial Air Content: _____ %	
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)		
Date Cast: (Y/M/D) 2009/11/23	By: MI	
Date Received: (Y/M/D)	By: _____	

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
897	3	2009/11/26	CH	21050	11.6	A	
898	7	2009/11/30	CH	25400	13.9	B	
899	14	2009/12/7	JP	34280	18.8	C	
900	28	2009/12/21	SMS	40360	22.2	C	
901	56	2010/1/18	JP	46820	25.7	B	
902	84	2010/2/15	JP	45790	25.1	D	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Glycol Tank Pad

Test No.: T-157 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 2 Batch Time: 9:08
Ticket No: 950 Mix No:
Load Amount: 8.0 m³ Cumulative: 16.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: Inter Cem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

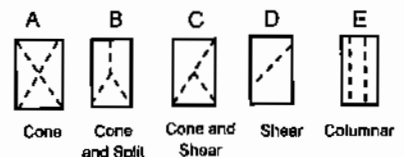
Test Time: 9:35 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -15.0 °C Concrete: 13.9 °C Diameter: 100 mm
Cast Slump/Flow: 118 mm Cast Air Content: 5.8 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/11/24 By: MI

Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
903	3	2009/11/27	JP	22020	12.1	C	
904	7	2009/12/1	CH	30010	16.5	A	
905	14	2009/12/8	SMS	31830	17.5	C	
906	28	2009/12/22	SMS	39110	21.5	A	
907	56	2010/1/19	JP	41270	22.7	C	
908	84	2010/2/16	SMS	41450	22.8	C	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Pipe Bridge Footing; Columns #2

Test No.: T-158 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 5:45
Ticket No: 959 Mix No:
Load Amount: 1.5 m³ Cumulative: 1.5 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: Inter Cem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

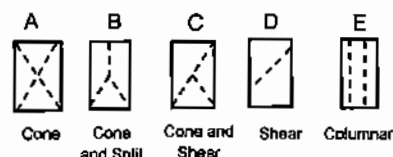
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 6:05 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -17.0 °C Concrete: 10.8 °C Diameter: 100 mm
Cast Slump/Flow: 130 mm Cast Air Content: 4.6 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/24 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
909	3	2009/11/27	JP	33950	18.6	B	
910	7	2009/12/1	CH	43730	24.0	A	
911	14	2009/12/8	SMS	48240	26.5	C	
912	28	2009/12/22	SMS	56300	30.9	C	
913	56	2010/1/19	JP	60170	33.0	A	
914	84	2010/2/16	SMS	65060	35.7	A	

Remarks:

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Chad

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mine Air Heater foundation; near vent raise

Test No.: T-159 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 9.20
Ticket No: 962 Mix No:
Load Amount: 8.0 m³ Cumulative: 24.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: Inter Cem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

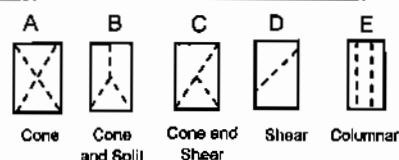
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 10:10 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -10.0 °C Concrete: 14.6 °C Diameter: 100 mm
Cast Slump/Flow: 115 mm Cast Air Content: 6.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/25 By: MI
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
915	7	2009/12/2	CH	32950	18.1	C	
916	7	2009/12/2	CH	31510	17.3	B	
917	15	2009/12/15	SMS	36700	20.1	A	
918	28	2009/12/24	SMS	35860	19.7	A	
919	56	2010/1/20	SMS	39590	21.7	A	
920	56	2010/1/20	SMS	40000	22.0	C	

Remarks: First 2 trucks contained 2% Accel and all following contained 1%. We waited 20-30 minutes for the first lift to set up before pouring. 1 L of plasticizer was added on site to this load due to the wait.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Tailings Thickener; NE section of the thickner walls

Test No.: T-160 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 4 Batch Time: 5:50
Ticket No: 967 Mix No:
Load Amount: 8.0 m³ Cumulative: 32.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: Inter Cem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

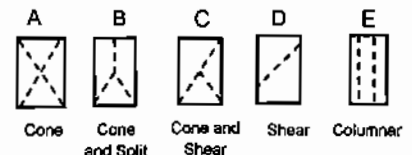
Test Time: 6:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -15.0 °C Concrete: 16.8 °C Diameter: 100 mm
Cast Slump/Flow: 120 mm Cast Air Content: 5.2 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/11/25 By: MI

Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
921	7	2009/12/2	CH	35930	19.1	A	
922	7	2009/12/2	CH	35970	19.7	C	
923	15	2009/12/15	SMS	41930	23.0	C	
924	28	2009/12/24	SMS	39420	21.6	C	
925	56	2010/1/20	SMS	47170	25.9	D	
926	56	2010/1/20	SMS	44560	24.5	D	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Various small foundation, pedestals and beams
as per DWG OE-15-201

Test No.: T-161 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1 Batch Time: 1:40
Ticket No: 972 Mix No: 005
Load Amount: 4.0 m³ Cumulative: 4.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: Inter Cem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

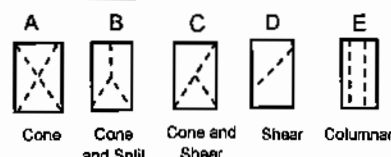
Test Time: 2:05 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -4.0 °C Concrete: 14.1 °C Diameter: 100 mm
Cast Slump/Flow: 105 mm Cast Air Content: 7.1 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/11/26 By: RC

Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
927	3	2009/11/29	CH	26390	14.5	D	
928	7	2009/12/3	CH	25460	13.9	A	
929	28	2009/12/24	SMS	36140	19.8	A	
930	56	2010/1/21	SMS	38040	20.9	C	
931	56	2010/1/21	SMS	39190	21.5	C	
932	84	2010/2/18	SMS	41740	22.9	B	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg; 1st Floor Mezzanine
area between columns A11 - B11 to A-15 - B15

Test No.: T-162 Placing Method: Pump

Information From Delivery Ticket			
Supplier:	IDL		
Truck No:	6	Batch Time:	2:40
Ticket No:	981	Mix No:	005
Load Amount:	4.0 m ³	Cumulative:	4.0 m ³
Strength:	30 MPa	Max Agg. Size:	20 mm
Cement Type:	Inter Cem	Slump/Flow:	80 mm
Admixture:	Air ☒ SP ☒ Acc. ☐	Air Content:	5 - 8 %
Other:	additional Plaz		Winter Heat: ☒

Contract Specifications as Provided			
Same as Delivery Ticket:	☒	Not Available:	☐
Strength:	MPa	Test Age:	days
Slump/Flow:	- mm	Air Content:	%
Class of Concrete:		Cement Type:	

Field Test Data					
Test Time:	2:55	Unit Weight:	kg/m ³	Mould Type:	Plastic
Temperature:	Air: 3.0 °C	Concrete: 15.4 °C		Diameter:	100 mm
Cast Slump/Flow:	158 mm	Cast Air Content:	4.8 %		
Initial Slump:	mm	Initial Air Content:	%		
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)					
Date Cast:	(Y/M/D) 2009/11/27	By:	RC		
Date Received:	(Y/M/D)	By:			

Type of Fracture

A
Cone

B
Cone and Split

C
Cone and Shear

D
Shear

E
Columnar

ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data							
Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
933	5	2009/12/1	CH	24460	13.4	A	
934	7	2009/12/4	CH	25860	14.1	A	
935	28	2009/12/25	CH	38880	21.3	D	
936	56	2010/1/22	SMS	38740	21.3	C	
937	56	2010/1/22	SMS	41660	22.9	C	
938	84	2010/2/19	SMS	43720	24.0	A	

Remarks: IDL added 4 L of Plaz to be able to pump to 1st floor.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Bldg; Floor Slab as per dwg OE-15-802
sampled @ 1 m S of F6

Test No.: T-163 Placing Method: Chute/Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: Batch Time: 6:30
Ticket No: 987 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 38 / 69 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: Inter Cem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

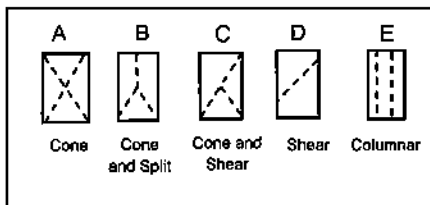
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 6:38 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 4.0 °C Concrete: 13.4 °C Diameter: 100 mm
Cast Slump/Flow: 122 mm Cast Air Content: 4.7 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/11/27 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
939	5	2009/12/2	CH	30770	16.9	B	
940	7	2009/12/4	CH	32790	18.0	B	
941	28	2009/12/25	CH	42790	23.4	C	
942	56	2010/1/22	SMS	44850	24.6	A	
943	56	2010/1/22	SMS	43990	23.6	C	
944	84	2010/2/19	SMS	47300	26.0	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

2nd Floor Mezzanine - Mill Building
Sampled at 1 m N of B13

Test No.: T-164 Placing Method: Pump

Information From Delivery Ticket			
Supplier:	IDL		
Truck No:	4/6	Batch Time:	15:50
Ticket No:	997	Mix No:	005
Load Amount:	8.0 m ³	Cumulative:	32.0 m ³
Strength:	30 MPa	Max Agg. Size:	20 mm
Cement Type:	InterCem	Slump/Flow:	80 mm
Admixture: Air	☒	SP	☒ Acc. ☒ Air Content: 5 - 8 %
Other:	Winter Heat: ☒		

Contract Specifications as Provided			
Same as Delivery Ticket:	☒	Not Available:	☐
Strength:	MPa	Test Age:	days
Slump/Flow:	- mm	Air Content:	%
Class of Concrete:		Cement Type:	

Field Test Data					
Test Time:	4:05	Unit Weight:	kg/m ³	Mould Type:	Plastic
Temperature:	Air: 4.0 °C	Concrete: 13.5 °C	Diameter:	100 mm	
Cast Slump/Flow:	157 mm	Cast Air Content:	4.8 %		
Initial Slump:	mm	Initial Air Content:	%		
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)					
Date Cast:	(Y/M/D) 11/28/2009	By:	RC		
Date Received:	(Y/M/D)	By:			

A
Cone

B
Cone and Split

C
Cone and Shear

D
Shear

E
Columnar

ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data							
Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
945	4	2009/12/2	CH	26630	14.6	C	
946	7	2009/12/5	CH	29220	16.0	A	
947	28	2009/12/26	CH	39190	21.5	A	
948	56	2010/1/23	JP	42230	23.2	B	
949	56	2010/1/23	JP	41940	23.0	C	
950	84	2010/2/20	JP	44520	24.4	B	

Remarks: Mix was adjusted for pump truck to be able to pump to the 2nd floor. YZC & EBA decided to reduce 200 kg/cu.m of 20 mm aggregates & substitute w/sands (200 kg/cu.m). All other components are as per EBA's Mix #005. Stanley Zhang (YZC) was provided the information. Accelerator=16.6; HRWR=16.44; 3 litres extra of 3030 (Plaz).

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

C L O Scale Beams & Walls - Sampled at S wall,
lower left.

Test No.: T-165 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1/3 Batch Time: 11:37
Ticket No: 1002 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 22.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: 0.50% Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

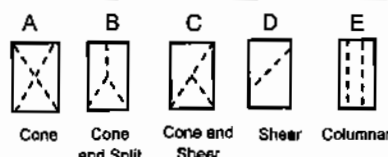
Test Time: 11:52 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 3.0 °C Concrete: 14.5 °C Diameter: 100 mm
Cast Slump/Flow: 132 mm Cast Air Content: 4.1 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/11/29 By: RC

Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
951	3	2009/12/2	CH	24390	13.4	A	
952	7	2009/12/6	CH	30180	16.6	C	
953	28	2009/12/27	CH	43190	23.7	B	
954	56	2010/1/24	JP	45430	24.9	C	
955	56	2010/1/24	JP	47360	26.0	A	
956	84	2010/2/21	JP	48660	26.7	B	

Remarks: Speciman was left at CLO Bldg.; extruded at 24 hours but seems that still not cured enough

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Crusher Bldg. - SW corner 2 m N of wall, E-W or
3 m E of B1; 2 m N of B1

Test No.: T-166 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 6 Batch Time: 15:21
Ticket No: 1010 Mix No:
Load Amount: 8.0 m³ Cumulative: 48.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

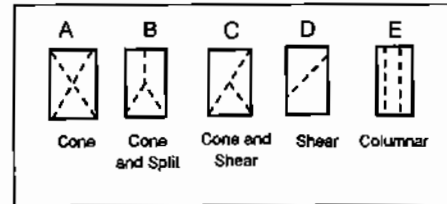
Test Time: 15:40 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: °C Concrete: 14.6 °C Diameter: 100 mm
Cast Slump/Flow: 132 mm Cast Air Content: 4 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/11/30 By: RC

Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
957	3	2009/12/3	CH	22020	12.1	A	
958	7	2009/12/7	JP	26440	14.5	B	
959	28	2009/12/28	CH	36620	20.1	C	
960	56	2010/1/25	JP	42040	23.1	C	
961	56	2010/1/25	JP	39710	21.8	D	
962	84	2010/2/22	JP	42790	23.5	B	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Crusher Bldg. - Halfway A5 - B.5; 3 m W of it

Test No.: T-167 Placing Method: Chute

Information From Delivery Ticket			
Supplier:	IDL		
Truck No:	14	Batch Time:	18:35
Ticket No:	1018	Mix No:	005
Load Amount:	8.0 m ³	Cumulative:	112.0 m ³
Strength:	30 MPa	Max Agg. Size:	20 mm
Cement Type:	InterCem	Slump/Flow:	80 mm
Admixture:	Air ☒ SP ☒ Acc ☐	Air Content:	5 - 8 %
Other:	Winter Heat: ☐		

Contract Specifications as Provided			
Same as Delivery Ticket:	☒	Not Available:	☐
Strength:	MPa	Test Age:	days
Slump/Flow:	mm	Air Content:	%
Class of Concrete:		Cement Type:	

Field Test Data					
Test Time:	19:20	Unit Weight:	kg/m ³	Mould Type:	Plastic
Temperature:	Air: °C	Concrete: 11.4 °C	Diameter:	100 mm	
Cast Slump/Flow:	135 mm	Cast Air Content:	3 %		
Initial Slump:	mm	Initial Air Content:	%		
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)					
Date Cast:	(Y/M/D)	2009/11/30	By:	RC	
Date Received:	(Y/M/D)		By:		

Type of Fracture

A	B	C	D	E
Cone	Cone and Split	Cone and Shear	Shear	Columnar

ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data							
Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
963	3	2009/12/3	CH	23880	13.1	C	
964	7	2009/12/7	JP	27980	15.4	B	
965	28	2009/12/28	CH	39890	21.9	A	
966	56	2010/1/25	JP	45050	24.7	B	
967	56	2010/1/25	JP	45510	25.0	A	
968	84	2010/2/22	JP	48610	26.7	B	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Building, 3rd Floor Mezzazine - sampled at:
A13-A14 and B13-B14

Test No.: T-168 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 2 Batch Time: 11:20
Ticket No: 1024 Mix No: 00M
Load Amount: 8.0 m³ Cumulative: 16.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☐ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

Contract Specifications as Provided

Same as Delivery Ticket: ☐ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

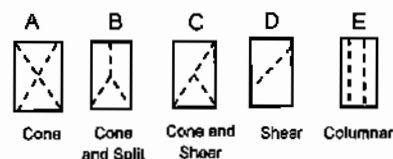
Test Time: 11:45 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 2.0 °C Concrete: 16.4 °C Diameter: 100 mm
Cast Slump/Flow: 142 mm Cast Air Content: 3 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/12/1 By: RC

Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
969	3	2009/12/4	CH	19390	10.6	C	
970	7	2009/12/8	CH	28490	15.6	A	
971	28	2009/12/28	CH	38570	21.2	B	
972	56	2010/1/26	JP	40410	22.2	D	
973	56	2010/1/26	JP	42180	23.2	C	
974	84	2010/2/23	JP	46150	25.3	B	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Building - octogon base by H15

Test No.: T-169 Placing Method: Chute

Information From Delivery Ticket

Supplier: IDL
Truck No.: 1/9 Batch Time:
Ticket No.: 1028 Mix No.: 005
Load Amount: 8.0 m³ Cumulative: 8.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☐

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

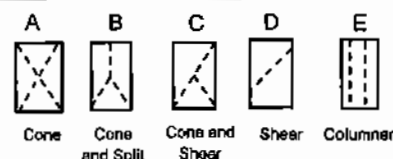
Test Time: 15.05 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 2.0 °C Concrete: 12.1 °C Diameter: 100 mm
Cast Slump/Flow: 134 mm Cast Air Content: 3.8 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/12/1 By: RC

Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
975	3	2009/12/4	CH	18560	10.2	A	
976	7	2009/12/8	CH	31910	17.5	A	
977	28	2009/12/28	CH	42680	23.4	A	
978	56	2010/1/26	JP	45910	25.2	B	
979	56	2010/1/26	JP	46450	25.5	C	
980	84	2010/2/23	JP	49520	27.2	B	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Fillcrete - CLO Building, outside - 1.5 m E of F1

Test No.: T-170 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3 Batch Time: 10:10
Ticket No: 1044 Mix No: Fill-crete
Load Amount: 8.0 m³ Cumulative: 24.0 m³
Strength: 10 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 160 mm
Admixture: Air ☐ SP ☒ Acc. ☐ Air Content: N/A %
Other: Winter Heat: ☐

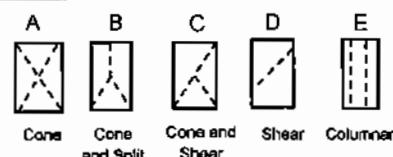
Contract Specifications as Provided

Same as Delivery Ticket: ☐ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 10:40 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 1.0 °C Concrete: 11.4 °C Diameter: 100 mm
Cast Slump/Flow: 200 mm Cast Air Content: 1.7 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/12/2 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
981	7	2009/12/9	CH	4540	2.5	C	
982	28	2009/12/29	CH	7060	3.9	C	
983	57	2010/1/28	SMS	9360	4.8	C	
984	84	2010/1/23	JP	9430	5.2	C	

Remarks: #981 = 194 cm with cap.
mPa x .995 = true strength
#983 = mPa x 0940 = true strength

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Building (Tall Octagon) at B5 - B6; C5 -C6
Regrind area 1 m above slab 0

Test No.: T-171 Placing Method: Bucket

Information From Delivery Ticket

Supplier: IDL	
Truck No: 2/4	Batch Time: 12:30
Ticket No: 1049	Mix No: 005
Load Amount: 8.0 m ³	Cumulative: 16.0 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: InterCem	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐	Air Content: 5-8 %
Other:	Winter Heat: ☐

Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: _____ MPa	Test Age: _____ days
Slump/Flow: _____ mm	Air Content: _____ %
Class of Concrete: _____	Cement Type: _____

Field Test Data

Test Time: 13:05	Unit Weight: kg/m ³	Mould Type: Plastic
Temperature: Air: 4.0 °C Concrete: 11.8 °C	Diameter: 100 mm	
Cast Slump/Flow: 115 mm	Cast Air Content: 3.1 %	
Initial Slump: mm	Initial Air Content: %	
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)		
Date Cast: (Y/M/D) 2009/12/2	By: RC	
Date Received: (Y/M/D)	By:	

Type of Fracture				
A Cone	B Cone and Split	C Cone and Shear	D Shear	E Columnar
ST: Splitting Tensile F: Flexural Strength				

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
985	3	2009/12/5	JP	21930	12.0	C	
986	7	2009/12/9	CH	25500	13.9	C	
987	28	2009/12/29	CH	41920	23.0	A	
988	56	2010/1/27	SMS	42220	23.2	C	
989	56	2010/1/27	SMS	47000	25.8	C	
990	84	2010/2/23	JP	50100	27.5	B	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Building Floor Slab -
sampled at 2 m W; 3 m N of H14

Test No.: T-172 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 6/14 Batch Time: 13:12
Ticket No: 1077 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 48.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☐

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

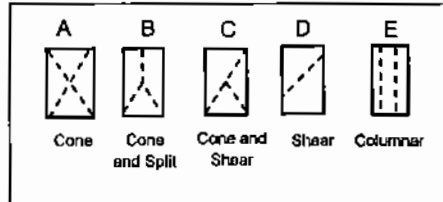
Test Time: 13:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 3.0 °C Concrete: 10.4 °C Diameter: 100 mm
Cast Slump/Flow: 131 mm Cast Air Content: 3 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/12/3 By: RC

Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
991	3	2009/12/6		26070	14.3	C	
992	7	2009/12/10	CH	33210	18.2	D	
993	30	2009/12/31	CH	46010	25.3	B	
994	56	2010/1/28	SMS	48950	26.9	A	
995	56	2010/1/28	SMS	48790	26.8	C	
996	84	2010/2/24	JP	52300	28.7	B	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Building Floor Slab - sampled at 1 m E of E12

Test No.: T-173 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 12/14 Batch Time: 15:08
Ticket No: 1083 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 105.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☐

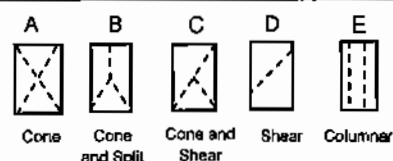
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 15:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 3.0 °C Concrete: 12.8 °C Diameter: 100 mm
Cast Slump/Flow: 132 mm Cast Air Content: 5.6 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/12/3 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
997	3	2009/12/6		20590	11.3	C	
998	7	2009/12/10	CH	26110	14.3	C	
999	30	2009/12/31	CH	35380	19.4	A	
1000	56	2010/1/28	SMS	39660	21.8	A	
1001	56	2010/1/28	SMS	41990	23.1	A	
1002	84	2010/2/24	JP	44060	24.2	B	

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Foundation Conveyor - CNV 12 22740 Footing
Middle layer of Footing

Test No.: T-174 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 2/3 Batch Time: 18:01
Ticket No: 1089 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 16.0 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

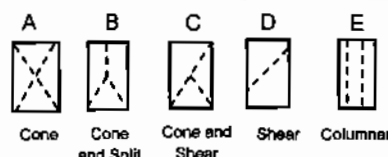
Test Time: 18:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -10.0 °C Concrete: 10.8 °C Diameter: 100 mm
Cast Slump/Flow: 132 mm Cast Air Content: 5.9 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/12/4 By: RC

Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
1003	7	2009/12/11	CH	30360	16.7	D	
1004	7	2009/12/11	CH	28920	15.9	A	
1005	28	2010/1/1	CH	39150	21.5	A	
1006	56	2010/1/29	SMS	44150	24.2	C	
1007	56	2010/1/29	SMS	45350	24.9	C	
1008	84	2010/2/24	JP	47500	26.1	B	

Remarks: 1 L of PLAZ added on site and approximately 10 L of water to increase slump.

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg; Pour on elevated octagon
@ 5 - 6/D - E

Test No.: T-175 Placing Method: Pump/Bucket

Information From Delivery Ticket

Supplier: IDL
Truck No: 4/8 Batch Time: 12:27
Ticket No: 1094 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 32 / 54 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☐ Air Content: 5 - 8 %
Other: Winter Heat: ☒

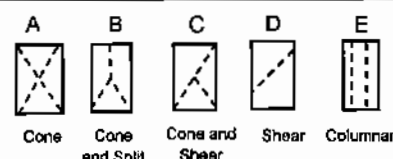
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 12:50 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -10.0 °C Concrete: 12.5 °C Diameter: 100 mm
Cast Slump/Flow: 130 mm Cast Air Content: 2.9 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/12/5 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
1009	6	2009/12/11	CH	28900	15.8	B	
1010	10	2009/12/15	SMS	33680	18.5	A	
1011	29	2010/1/3	CH	42010	23.1	A	
1012	58	2010/2/1	SMS	48630	26.7	A	
1013	58	2010/2/1	SMS	49610	27.2	C	
1014	84	2010/2/25	SMS	49220	27.0	A	

Remarks: Discharge was both pump and bucket sampled from bucket/chute

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
CLO Slab Pour @ 1 m E of C1

Test No.: T-176 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 5/10 Batch Time: 11:32
Ticket No: 1103 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 40 / 76 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

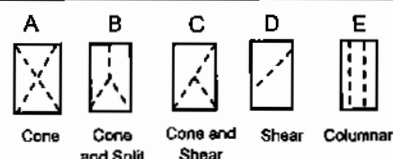
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 11:50 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -13.0 °C Concrete: 13.6 °C Diameter: 100 mm
Cast Slump/Flow: 122 mm Cast Air Content: 3.1 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/12/6 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
1015	3	2009/12/9	CH	28810	15.8	A	
1016	9	2009/12/15	SMS	37310	20.5	A	
1017	29	2010/1/4	SMS	48300	26.5	B	
1018	57	2010/2/1	SMS	51850	28.5	C	
1019	57	2010/2/1	SMS	50250	27.6	C	
1020	84	2010/2/26	SMS	41850	23.0	B	possible bad cap

Remarks: 2 L of Plaz added @ batch

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

CNV 12 6552; Just N of pedestal re-bar
Conveyor ftg; just E of crusher

Test No.: T-177 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 1/3 Batch Time: 3:36
Ticket No: 1112 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 8 / 23 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

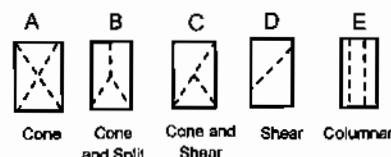
Test Time: 5:40 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -16.0 °C Concrete: 11.5 °C Diameter: 100 mm
Cast Slump/Flow: 127 mm Cast Air Content: 5.3 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/12/6 By: RC

Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
1021	3	2009/12/9	CH	22020	12.1	A	
1022	9	2009/12/15	SMS	29330	16.1	A	
1023	29	2010/1/4	SMS	32820	18.0	C	
1024	57	2010/2/1	SMS	41150	22.6	C	
1025	57	2010/2/1	SMS	41710	22.9	C	
1026	84	2010/2/26	SMS	52320	28.7	A	

Remarks: 2 L of Plaz added @ batch

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Conveyor Transfer Tower Footing; @ NE corner
1.2 m below TOF (E of Crusher Bldg)

Test No.: T-178 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 8/22 Batch Time: 4:40
Ticket No: 1125 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 64 / 176 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

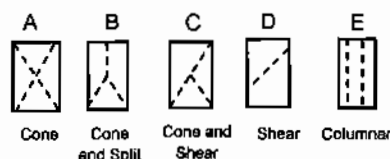
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 5:05 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -20.0 °C Concrete: 13.5 °C Diameter: 100 mm
Cast Slump/Flow: 135 mm Cast Air Content: 5.6 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/12/7 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
1027	4	2009/12/11	CH	24000	13.2	A	
1028	8	2009/12/15	SMS	30120	16.5	A	
1029	28	2010/1/4	SMS	38800	21.3	B	
1030	58	2010/2/1	SMS	44400	24.4	A	
1031	58	2010/2/1	SMS	45020	24.7	A	
1032	84	2010/2/27	JMP	46950	25.8	C	

Remarks: 1 L of extra Plaz; total 14 L per load

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005

Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Conveyor Transfer Tower Footing, @ NW corner
0.3 m below TOF

Test No.: T-179

Placing Method:

Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: Batch Time: 7:28
Ticket No: 1135 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 114/176 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 7:45 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -20.0 °C Concrete: 8.8 °C Diameter: 100 mm
Cast Slump/Flow: 132 mm Cast Air Content: 5.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (sae remarks if No)

Date Cast: (Y/M/D)

2009/12/7

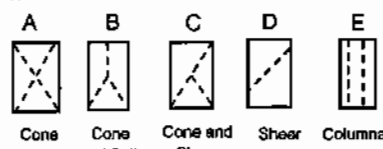
By: RC

Date Received: (Y/M/D)

By:

ST: Splitting Tensile

F: Flexural Strength



Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
1033	3	2009/12/10	CH	20670	113.0	C	
1034	8	2009/12/15	SMS	27410	15.0	A	
1035	28	2010/1/4	SMS	35670	19.6	C	
1036	56	2010/2/1	SMS	40420	22.2	A	
1037	56	2010/2/1	SMS	42240	23.2	C	
1038	84	2010/2/27	JMP	4330	23.8	B	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg Floor Slab; 2 m N, 0.5 m E of H10

Test No.: T-180 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: Batch Time: 4:28
Ticket No: 1150 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 64/106 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: 2 L extra Plaz Winter Heat: ☒

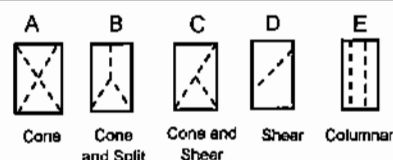
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 4:40 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -4.0 °C Concrete: 10.1 °C Diameter: 100 mm
Cast Slump/Flow: 128 mm Cast Air Content: 3.6 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/12/8 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
1039	3	2009/12/11	CH	19640	10.8	B	
1040	7	2009/12/15	SMS	29870	16.4	A	
1041	28	2010/1/5	SMS	44220	24.3	B	
1042	56	2010/2/2	SMS	50890	27.9	C	
1043	56	2010/2/2	SMS	53690	29.5	B	
1044	84	2010/2/28	JMP	56170	30.8	B	

Remarks: Curing box was left inside heated bldg (mill bldg); but found open @ 8 am next morning

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg Floor Slab; E-D/10-11

Test No.: T-181 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 12/14 Batch Time: 6:15
Ticket No: 1154 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 96/106 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☐ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: 2 L extra Plaz Winter Heat: ☒

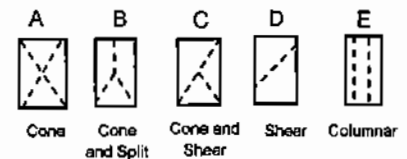
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 6:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: 2.0 °C Concrete: 11.1 °C Diameter: 100 mm
Cast Slump/Flow: 128 mm Cast Air Content: 1.5 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/12/8 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
1045	3	2009/12/11	CH	20600	11.3	B	
1046	7	2009/12/15	SMS	31480	17.3	A	
1047	28	2010/1/5	SMS	47470	26.1	B	
1048	56	2010/2/2	SMS	53940	29.6	C	
1049	56	2010/2/2	SMS	50520	27.7	C	
1050	84	2010/2/28	JMP	55920	30.7	B	

Remarks: Curing box was left inside heated bldg (mill bldg); but found open @ 8 am next morning

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

SK12 - Conveyor 12 Bent 2; Sampled @ NW corner
1/2 way of height; footing for conveyor just E of Crusher

Test No.: T-182 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 2/3 Batch Time: 10:12
Ticket No: 1159 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 16 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: 2 L extra Plaz Winter Heat: ☒

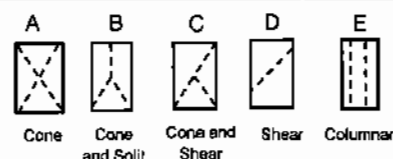
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 10:30 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -10.0 °C Concrete: 10.5 °C Diameter: 100 mm
Cast Slump/Flow: 125 mm Cast Air Content: 5.9 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/12/9 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
1051	6	2009/12/15	SMS	24210	13.3	A	
1052	7	2009/12/16	CH	23670	13.0	B	
1053	28	2010/1/5	SMS	34370	18.9	C	
1054	56	2010/2/3	SMS	43020	23.6	B	
1055	56	2010/2/3	SMS	42040	23.1	A	
1056	84	2010/3/1	JMP	43910	24.1	B	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Mill Bldg Slab Floor; sampled @ 1 m S of F10-F11

Test No.: T-183 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 5/11 Batch Time: 12:05
Ticket No: 1184 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 40/63 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☐ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: 2 L extra Plaz Winter Heat: ☒

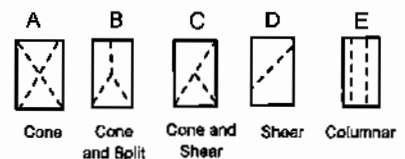
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 12:25 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -6.0 °C Concrete: 13.1 °C Diameter: 100 mm
Cast Slump/Flow: 130 mm Cast Air Content: 2.8 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/12/10 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
1057	5	2009/12/15	SMS	30570	16.8	A	
1058	7	2009/12/17	SMS	23560	17.9	A	
1059	28	2010/1/6	SMS	43130	23.7	A	
1060	56	2010/2/4	SMS	49690	27.3	B	
1061	56	2010/2/4	SMS	51070	28.0	A	
1062	84	2010/3/2	SMS	52250	28.7	A	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Transformer 1/2 walls; sampled @ SE corner of
transformer walls; 1/2 way high

Test No.: T-184 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 2/2 Batch Time: 4:50
Ticket No: 1191 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 10 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: 2 L extra Plaz Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: - mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

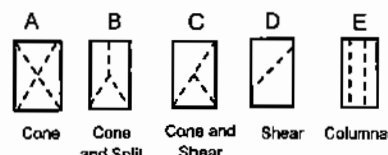
Test Time: 5:15 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -12.0 °C Concrete: 11.1 °C Diameter: 100 mm
Cast Slump/Flow: 124 mm Cast Air Content: 5.5 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/12/10 By: RC

Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
1063	5	2009/12/15	SMS	23100	12.7	A	
1064	7	2009/12/17	SMS	26030	14.3	A	
1065	28	2010/1/6	SMS	34730	19.1	B	
1066	56	2010/2/4	SMS	43490	23.9	A	
1067	56	2010/2/4	SMS	42360	23.3	A	
1068	84	2010/3/2	SMS	43180	23.7	A	

Remarks:

Fax Copies To:

Reviewed By:

Whitehorse YT

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EBA Engineering
Consultants Ltd.



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Conveyor 8; Bent 2 (SK-9); top layer

Test No.: T-185 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 3/3 Batch Time: 3:48
Ticket No: 1199 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 24 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: 2 L extra Plaz Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

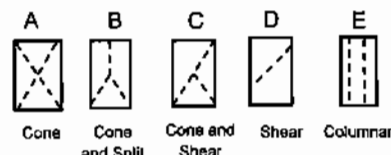
Test Time: 4:05 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -15.0 °C Concrete: 11.1 °C Diameter: 100 mm
Cast Slump/Flow: 135 mm Cast Air Content: 7.1 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/12/10 By: RC

Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
1069	5	2009/12/15	SMS	18870	10.4	A	
1070	7	2009/12/17	CH	24430	13.4	A	
1071	28	2010/1/7	SMS	28680	15.7	C	
1072	56	2010/2/5	JMP	37680	20.7	D	
1073	56	2010/2/5	JMP	36790	20.2	D	
1074	84	2010/3/3	SMS	39680	21.8	C	

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EBA Engineering
Consultants Ltd.



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
**Footing (middle) & Containment Wall (short)
@ Mill Site Transformer**

Test No.: T-186 Placing Method: **Pump**

Information From Delivery Ticket

Supplier:	IDL		
Truck No:	1	Batch Time:	9:50
Ticket No:	1204	Mix No:	005
Load Amount:	8.0 m ³	Cumulative:	8 m ³
Strength:	30 MPa	Max Agg. Size:	20 mm
Cement Type:	InterCem	Slump/Flow:	80 mm
Admixture:	Air ☒ SP ☒ Acc. ☒	Air Content:	5 - 8 %
Other:		Winter Heat:	☒

Contract Specifications as Provided

Same as Delivery Ticket:	☒	Not Available:	☐
Strength:	MPa	Test Age:	days
Slump/Flow:	- mm	Air Content:	%
Class of Concrete:		Cement Type:	

Field Test Data

Test Time:	10:10	Unit Weight:	kg/m ³	Mould Type:	Plastic
Temperature:	Air: -18.0 °C Concrete: 8.2 °C	Diameter:	100 mm		
Cast Slump/Flow:	138 mm	Cast Air Content:	7 %		
Initial Slump:	mm	Initial Air Content:	%		
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)					
Date Cast:	(Y/M/D) 2009/12/12	By:	RC		
Date Received:	(Y/M/D)	By:			

Type of Fracture				
A	B	C	D	E
Cone	Cone and Split	Cone and Shear	Shear	Columnar

ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
1075	3	2009/12/15	SMS	19460	10.7	A	
1076	7	2009/12/19	CH	25180	14.1	A	
1077	28	2010/1/8	SMS	35530	19.5	C	
1078	56	2010/2/6	JMP	39970	21.9	D	
1079	56	2010/2/6	JMP	41700	22.7	B	
1080	84	2010/3/4	SMS	43470	23.9	A	

Remarks:

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**EBA Engineering
Consultants Ltd.**



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category II

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:

Mill Bldg; Curbs & Bases
between H6 - H10 & F6 - F10

Test No.: T-187 Placing Method: Bucket

Information From Delivery Ticket

Supplier: IDL	
Truck No: 3 / 4	Batch Time: 11:05
Ticket No: 1210	Mix No: 005
Load Amount: 8.0 m ³	Cumulative: 20 m ³
Strength: 30 MPa	Max Agg. Size: 20 mm
Cement Type: InterCem	Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒	Air Content: 5 - 8 %
Other: 2 L extra Plaz	Winter Heat: ☒

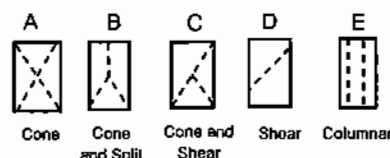
Contract Specifications as Provided

Same as Delivery Ticket: ☒	Not Available: ☐
Strength: _____ MPa	Test Age: _____ days
Slump/Flow: _____ mm	Air Content: _____ %
Class of Concrete: _____	Cement Type: _____

Field Test Data

Test Time: 11:20	Unit Weight: kg/m ³	Mould Type: Plastic
Temperature: Air: -22.0 °C Concrete: 12.8 °C	Diameter: 100 mm	
Cast Slump/Flow: 126 mm	Cast Air Content: 3.1 %	
Initial Slump: mm	Initial Air Content: %	
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)		
Date Cast: (Y/M/D) 2009/12/15	By: RC	
Date Received: (Y/M/D)	By:	

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
1081	3	2009/12/18					cylinder missing
1082	8	2009/12/23	SMS	35760	19.6	A	
1083	28	2010/1/11	SMS	49730	27.3	D	
1084	56	2010/2/9	JMP	51230	28.1	B	
1085	56	2010/2/9	JMP	52980	29.1	C	
1086	84	2010/3/7	JMP	55190	30.3	B	

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Consultants Ltd.**



CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**
Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Cement Silo; Slab & Walls
just S of Mill Bldg

Test No.: T-188 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 2 / 6 Batch Time: 2:31
Ticket No: 1228 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 16/43 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

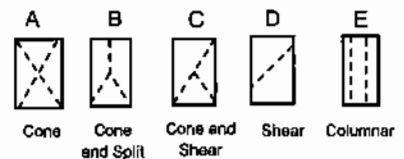
Test Time: 2:45 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -23.0 °C Concrete: 9.3 °C Diameter: 100 mm
Cast Slump/Flow: 140 mm Cast Air Content: 5.5 %
Initial Slump: mm Initial Air Content: %

Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)

Date Cast: (Y/M/D) 2009/12/16 By: RC

Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
1087	3	2009/12/19	CH	23760	13.0	C	
1088	7	2009/12/23	SMS	30640	16.8	C	
1089	28	2010/1/12	SMS	40100	22.0	D	
1090	56	2010/2/10	JMP	46000	25.3	B	
1091	56	2010/2/10	JMP	47270	26.0	C	
1092	84	2010/3/8	JMP	47280	26.0	D	

Remarks:

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CONCRETE STRENGTH TEST RESULTS



Standard A 283
Concrete Testing
Category 0

CSA A23.2

Project No.: W14101095.005
Project: **Wolverine Mine Site - Concrete**

Client: Yukon Zinc Corp.

Att'n: Mr. Chiew Yeo

Element Cast & Location Tested:
Slab @ Vent Raise

Test No.: T-189 Placing Method: Pump

Information From Delivery Ticket

Supplier: IDL
Truck No: 4 / 6 Batch Time: 12:13
Ticket No: 1240 Mix No: 005
Load Amount: 8.0 m³ Cumulative: 32/53 m³
Strength: 30 MPa Max Agg. Size: 20 mm
Cement Type: InterCem Slump/Flow: 80 mm
Admixture: Air ☒ SP ☒ Acc. ☒ Air Content: 5 - 8 %
Other: Winter Heat: ☒

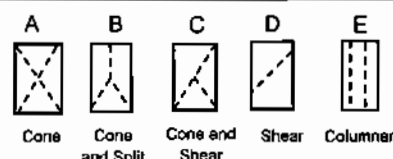
Contract Specifications as Provided

Same as Delivery Ticket: ☒ Not Available: ☐
Strength: MPa Test Age: days
Slump/Flow: mm Air Content: %
Class of Concrete: Cement Type:

Field Test Data

Test Time: 12:25 Unit Weight: kg/m³ Mould Type: Plastic
Temperature: Air: -18.0 °C Concrete: 13.9 °C Diameter: 100 mm
Cast Slump/Flow: 135 mm Cast Air Content: 4.3 %
Initial Slump: mm Initial Air Content: %
Concrete Setting Temperature Within CSA Limits (15-25 °C): Y y/n (see remarks if No)
Date Cast: (Y/M/D) 2009/12/17 By: RC
Date Received: (Y/M/D) By:

Type of Fracture



ST: Splitting Tensile F: Flexural Strength

Laboratory Test Data

Cylinder Number	Age Days	Test Date (Y/M/D)	Test By	Load lbs	Strength MPa	Type of Fracture	Comments
1093	3	2009/12/20	CH	18830	10.3	C	
1094	7	2009/12/24	SMS	28170	15.5	C	
1095	28	2010/1/13	SMS	37790	20.7	D	
1096	56	2010/2/11	JMP	44700	24.5	B	
1097	56	2010/2/11	JMP	44720	24.6	C	
1098	84	2010/3/9	SMS	46260	25.4	A	

Remarks:

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Reviewed By:

Whitehorse YT

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Consultants Ltd.



APPENDIX D

APPENDIX D: SUMMARY OF WEEKLY REPORTS

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: APR 23-30, 2009

EBA FILE: W14101095.005

Weather:	From Windy and snowy to clouds with sunny, Temp range -3 to 8 deg C.
Tasks:	April 23 - 30 - Two EBA personnel arrived at site; Chadwyck Cowan, P Eng. via Alkan Air and Ricardo Colaci, C.E.T. driving a pick-up and towing EBA's portable laboratory trailer unit. Chadwyck Cowan left site later that day on the airplane. - EBA attended meeting with construction managers in preparation to on site QA/QC set-up. EBA & Mr. Lebedoff attended meeting with Nuway Crushing Ltd at km 17.5 access road, site for aggregate crushing and production. Nuway Crushing started a night shift on April 30. - EBA was able to have the Testing Laboratory set up by April 25th. - EBA sampled for particle size analysis determination at a rate of 4 tests/day and later at a rate of 1 test every two hours. This was shared with Randall Springer, geo-tech. of Campo Verde Consulting - Arctic Construction Ltd. (ACL) mostly worked on stripping overburden at the future mill site and organic layer around the W site of the road at km 28.5. ACL stripped some material on N end of future mill site and placed it on a lower area as fill. All placed material was compacted with an Ingersol Rand D100 compactor. - EBA tested placed material for in-situ density test at pad W of the future fresh water pond site by the road at km 28.5. EBA also tested for compaction at Mill Site fill. All test passed. - Every day, EBA made frequent rounds on the site to talk to foreman and keep itself inform on work progress and meetings with management as needed.

Worked Hours: Ricardo Colaci (onsite) 12.0 hrs. per day.

Total: 8 days x 12 hrs = 96 hours

Prepared by: Ricardo Colaci

Reviewed by: 

Key Personnel: Ricardo Colaci, EBA
 Clive Creaney, Yukon Zinc Corp. (YZC)
 Stanley Zhang, Yukon Zinc Corp. (YZC)
 Larry Lebedoff (Merit Consulting) (Left site on April 28th for time off)
 Don Carr, Arctic Construction Ltd.

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: MAY 1-9, 2009

EBA FILE: W14101095.005

Weather:	Mostly sunny, Temp range -4 to 6 deg C.
Tasks:	May 1 - 9 - ACL continued placing fill material at Mill Site during day shift. Stripping organics at night shift. - EBA conducted particle size analysis determination at a rate 1 test every two hours until May 3rd. when aggregate production was calculated and deemed sufficient. It was decided that the natural sand stockpile will be further re-screened with YZC screen plant. - Nuway Crushing started road gravel production on May 2nd. EBA and Randall Springer sampled and tested particle size analysis determination. - ACL mostly worked on stripping overburden around the portal area. Arctic placed lifts of material at km 27.3 for future road base.. - EBA tested for compaction on fill material placed. All test passed. EBA left site from Tuesday, May 5th. at 1PM; flying to Whitehorse and having 1 hour meeting with Chadwyck Cowan. EBA returned site on Thursday, May 7th at 9 AM. - EBA was able to catch up on the majority of its paperwork during Nuway's production switch over. Every day, EBA made frequent rounds on the site to talk to foreman and keep itself inform on work progress and meetings with management as needed.

Worked Hours: Ricardo Colaci (onsite) 12.0 hrs. per day.
Total: (7 days x 12 hrs) + (1 day x 9 hrs) = 93 hours
Prepared by: Ricardo Colaci

Reviewed by: 

Key Personnel: Ricardo Colaci, EBA (absent from site May 5th. at 1PM to May 7th. at 9 AM.
 Clive Creaney, Yukon Zinc Corp. (YZC)
 Stanley Zhang, Yukon Zinc Corp. (YZC)
 Larry Lebedoff (Metit Consulting) (Arrived on site May 5th.)
 Don Carr, Arctic Construction Ltd.

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: MAY 10-16, 2009

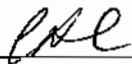
EBA FILE: W14101095.005

Weather:	Mostly snowy, blizzard conditions at times. Temp range -6 to 3 deg C.
Tasks:	May 10-16 - ACL worked mostly on stripping and placing around the Fresh Water Pond, lower by-pass road below the mine portal, Gen-set-Fuel storage pad and on the Water Treatment Plant (km 27.5 lower road) pads. ACL also placed a couple lifts of material, W of mill site pad. - EBA continued testing for densities on soils materials placed during day shift. On May 10th & 11th. EBA started at 4 AM to test for compaction's of night shift. Randy Springer tested part of night shift until mid-night. All test either passed or materials were re-compacted by ACL. - ACL started the "Screen King" plant, on May 12th. EBA tested for particle size analysis distribution of the test run. EBA determined that the natural sand screened would be suitable for a concrete mix design. Eight 20 lt. pails were sent to EBA's Whitehorse laboratory for mix design. A theoretical mix design was delivered on Friday, May 15th. - EBA's Chadwyck Cowan, P. Eng; arrived on site Saturday, May 16th for inspection to mill site work and meetings with YZC, ACL and IDL (concrete supplier). Chad Cowan left about 4 PM, same day. - Nuway Crushing started screening rocks for drainage usage (rip-rap) on May 12th. - Every day, EBA representative made frequent rounds on the site, talking to foreman and superintendent to keep himself informed on work progress. EBA had meetings with management as needed.

Worked Hours: Ricardo Colaci (onsite) 12.0 hrs. per day.

Total: 7 days x 12 hrs = 84 hours

Prepared by: Ricardo Colaci

Reviewed by: 

Key Personnel:

Ricardo Colaci, EBA (onsite)
 Chad Cowan, P. Eng. EBA; (on site on May 16th. for 3 hrs.)
 Brad Osaduik, Yukon Zinc Corp. (YZC) (arrived on site May 12th.)
 Clive Creaney, Yukon Zinc Corp. (YZC) (left site May 14th.)
 Stanley Zhang, Yukon Zinc Corp. (YZC) (left site May 14th.)
 Larry Lebedoff (Merit Consulting)
 Don Carr, Arctic Construction Ltd.

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: MAY 17-23, 2009

EBA FILE: W14101095.005

Weather:	Mostly sunny. Temp range 1 to 18 deg C.
Tasks:	May 17 – 23 - ACL continued working mostly on stripping and placing around the Gen-Set-Fuel Storage pad, Water Treatment Plant pads and fill area of mill site. ACL reached grade elevation at the Fresh Water Pond (km 27.5) and by-pass road (km 28-28.7) below the portal. Arctic cancelled night shift after May 18th, 2009. - EBA continued testing for densities on soils materials placed during this week day as requested and/or need it. Randy Springer tested as well. All test passed. - Nuway Crushing has finished screening and moved their plant out of site. ACL started the screening plant on May 20th to produce sands for the concrete mix design. - EBA provided a theoretical mix design to the concrete sub-contractor (IDL) and tested two trial batches. First one was undetermined due to malfunction of the water meter and the second batch was after water meter was repaired. All test specimens were delivered to EBA Whitehorse laboratory for curing and testing. - EBA and Randy Springer, of Campo Verde Geotech tested production for particle size analysis distribution on a daily base. Every day, EBA representative made frequent rounds on the site, talking to foreman and superintendent to keep himself informed on work progress. EBA had meetings with management as needed.

Worked Hours: Ricardo Colaci (onsite) 7 days x 12 hrs = 84 hours
Mike Mc Farlane (arrived on May 21st) 3 days x 12 hrs = 36 hours
Total: 120.0 hrs.

Prepared by: Ricardo Colaci

Reviewed by: 

Key Personnel: Ricardo Colaci, EBA onsite
Mike Mc Farlane, EBA; on site on May 21st.
Brad Osaduik, Yukon Zinc Corp. (YZC)
Clive Creaney, Yukon Zinc Corp. (YZC) (arrived on May 21st)
Stanley Zhang, Yukon Zinc Corp. (YZC) (arrived on May 19th)
Larry Lebedoff (Merit Consulting)
Don Carr, Arctic Construction Ltd.

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: MAY 24TH - 30TH, 2009

EBA FILE: W14101095.005

Weather:	Mostly sunny. Temp range 7 to 20 deg C.; except snow on May 29 th . (Temp -3 to 5C)
Tasks:	May 24-30 - ACL continued stripping and placing around the Gen-Set-Fuel Storage pad, Water Treatment Plant pads and mill site fill area. Snowfall started on May 29th, 2009. - EBA continued testing for densities on soils materials placed during this week day as requested and/or need it. Randy Springer, tested as well until his departure from site, on May 27th. All test either passed or materials were re-compacted by ACL. - ACL continued screening sands. On May 28th the plant was down for repairs and was still being repaired on May 30th. EBA and Randy Springer, of Campo Verde Geotech tested production for particle size analysis distribution as it was produced. - Drilling and blasting on the north portion of mill site was done from May 26th to May 29th, when blasting finished. - Every day, EBA representative made frequent rounds on the site, talking to foreman and superintendent to keep himself informed on work progress. EBA had meetings with management as needed.

Worked Hours: Mike McFarlane: 7 days x 12 hrs/day = 84 hours

Prepared by: Ricardo Colaci from Mike McFarlane's notes

Reviewed by: 

Key Personnel: Mike Mc Farlane, EBA; on site.
 Brad Osaduik, Yukon Zinc Corp. (YZC)
 Clive Creaney, Yukon Zinc Corp. (YZC)
 Stanley Zhang, Yukon Zinc Corp. (YZC)
 Larry Lebedoff (Merit Consulting)
 Don Carr, Arctic Construction Ltd.

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: MAY 30TH - JUNE 6TH, 2009

EBA FILE: W14101095.005

Weather:	Snow on May 30 th ; otherwise mostly sun & clouds. Temp range -3 to 20 deg C.
Tasks:	May 30 - June 6 - ACL had to clear overnight snowfall on May 30th, 2009; then continued working on stripping and placing around the Gen-Set-Fuel Storage pad and placing lifts on fill area of the mill site. From June 1st to June 3rd, ACL installed a culvert across the access road on the south end of mill site. During this week, ACL constructed a berm around the Water Treatment Plant. - EBA continued testing for densities on soils materials placed during this week day as requested and/or need it. Victor Whitaker, of Campo Verde Geotech arrived to site on June 4th to assist ACL on their QC. All test either passed or materials were re-compacted by ACL. - On June 3rd, underground water springs made necessary for Chad Cowan to come to site for an inspection and evaluation. After meetings with management, Chad Cowan left site later in the afternoon. - Arctic repaired the screen plant on May 31st and restarted screening sands. Production continued until June 2nd, when volume for concrete was considered sufficient. EBA tested production for particle size analysis distribution as it was produced. - IDL produced three test batches of concrete on June 5th, which included fly ash, as per EBA specifications. EBA made twelve specimens of 100mm x 200mm cylinders for testing at EBA's Whitehorse Laboratory. - Every day, EBA representative made frequent rounds on the site, talking to foreman and superintendent to keep himself informed on work progress. EBA had meetings with key personnel as needed.

Worked Hours: Mike McFarlane: 7 days x 12 hrs/day = 84 hours

Prepared by: Ricardo Colaci from Mike McFarlane's notes

Reviewed by: 

Key Personnel: Mike McFarlane, EBA; on site.
 Clive Creaney, Yukon Zinc Corp. (YZC)
 Stanley Zhang, Yukon Zinc Corp. (YZC)
 Larry Lebedoff (Merit Consulting)
 Don Carr, Arctic Construction Ltd.

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: JUNE 7-13, 2009

EBA FILE: W14101095.005

Weather:	Mostly sunny with two heavy rain periods. Temp range 5 to 20 deg C.
Tasks:	June 7-13 - ACL continued working on placing around the Gen-Set-Fuel Storage pad and mill site fill area. Two days, one on June 7th and another on June 11th, work had to be stopped due to intense rain. ACL repaired damage caused by rain to placed material. ACL allowed for the materials to dry up before continuing work. On June 8th work started at noon and on June 12th placement re-started at 4:30 PM - EBA continued testing for densities on soils materials placed during this week day as requested and/or need it. Victor Whitaker, of Campo Verde Geotech started to work noon to midnight shifts on June 8th to QC compaction efforts in the evenings. ACL has now a crew compacting materials overnight. All test either passed or materials were re-compacted. - Underground water springs continue to flow and it made necessary to set up 5 sumps and 4 pumps achieve a de-watering rate of 15 litre/second flow. Ditches were excavated to channel water to sumps. - Every day, EBA representative made frequent rounds on the site, talking to foreman and superintendent to keep himself informed on work progress. EBA had meetings with key personnel as needed.

Worked Hours: Mike McFarlane: 4 days x 12 hrs + 1 @ 8 hrs = 56 hours
Ricardo Colaci: 3 days x 12 hrs = 36 hours
Total Hours: 92 hrs.
Prepared by: Ricardo Colaci from own and Mike McFarlane's notes

Reviewed by: 

Key Personnel: Mike Mc Farlane, EBA; on site until noon time of June 11th
Ricardo Colaci, EBA (arrived on site June 11th at 9:00 AM)
Clive Creaney, Yukon Zinc Corp. (YZC)
Stanley Zhang, Yukon Zinc Corp. (left site on June 9th)
Larry Lebedoff (Merit Consulting)
Don Carr, Arctic Construction Ltd.

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

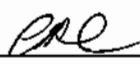
DATES: JUNE 14-20, 2009

EBA FILE: W14101095.005

Weather:	Mostly sunny with two heavy rain periods. Temp range 5 to 20 deg C.
Tasks:	June 14-20 - Arctic Construction (ACL) continued working on placing around the Gen-Set / Fuel Storage Pad and the mill site road area by pushing excavated material from the de-watering ditch. This material was semi-wet, but it dried during the week. This road has reached now grade elevation. ACL will concentrate on the Gen-Set / Fuel Storage Pad fill. ACL was fixing the ditch #1 service road behind mill site. ACL placed 2 pipes across access road to continued de-watering while accessing the Gen-set bench. EBA continued testing for densities on soils materials placed during this week day as requested and/or need it. Victor Whitaker (left site on June 16th) and Randy Springer, of Campo Verde Geotech assisted ACL with test from compacted materials. All test either passed or materials were re-compacted by ACL. - ACL started the foundation (fdn.) excavation on the Con-Shed building at fdn. 1G to 1A, to 6A and 6B to the underside (U/S) of footings. Line 6 was only excavated to U/S up to 6B and from there to 1G was only excavated to a 1 metre depth. Some seepage occurred and sumps had to be dug to control it. - ACL excavated for a culvert ½ way of N-S ditch on the east side of mill pad for dewatering the site and accessing a road to Gen-set/Fuel pad area. ACL continued dewatering the mill site around the clock at a pump flow rate of 15 litres per second. - McCaw Drilling & Blasting arrived on site to drill around the seepage flowing from NE corner of Mill Pad, north of Conc-Shed area. Drillers blasted to channel water underground; however water did seeping. Blasting stopped on June 19th. - Every day, EBA representative made frequent rounds on the site, talking to foreman and superintendent to keep himself informed on work progress. EBA had meetings with key personnel as needed.

Worked Hours: Ricardo Colaci; 7 days x 12 hrs = 84 hours

Prepared by: Ricardo Colaci

Reviewed by: 

Key Personnel: Ricardo Colaci (on site) and Chad Cowan (arrived June 16th) of EBA,
 YZC: Clive Creaney (left June 18th), Brad Brad Osaduik (arrived June 16th),
 Gary McPatridge (arrived June 16th) and Stanley Zhang,
 Larry Lebedoff (Merit Consulting)

8. Weekly June 14-20, 2009.doc

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WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

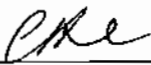
DATES: JUNE 21-26, 2009

EBA FILE: W14101095.005

Weather:	Mostly sun & clouds, with rain (June 21 & 22) & snow (June 26). Temp range 0 to 20 C.
Tasks:	June 21-26 - ACL continued working on placing around the Gen-Set-Fuel Storage Pad. Randy Springer, of Campo Verde or EBA tested compacted materials. All test either passed or materials were re-compacted by ACL. - ACL continued footings excavation at CLO Bldg. Found water at U/S of 2A. ACL dug a sump, but some bedrock collapsed. All material was removed; rock replaced and compacted. ACL compacted footings on Line 1, D to F, where 5 to 15 cm of 20 mm crushed material was placed for levelling. A sump was dug at A6. EBA tested OG material around G2, F2 and F3. EBA recommended material under footings be removed and replaced with 20mm crushed (road gravel mat.) as per Wardrop Specs. All material excavation, re-placement and compaction done by June 25. On June 23, ACL started footing excavation at mill building foundation, Line A1 to A15 (done by June 25) and Line A15 to H15. ACL did not work on June 26 due to weather. - IDL started placing forms on CLO footing A5 & A4 on June 21. On June 22, continued placing forms A1 to A3; B1 and C1. Placed forms on footing Line A6 to G6 on June 23 and 24. Rebar has arrived on site. Reinforcing steel was placed on foundation Line A and foundation Line 1. Reinforcing steel for columns are placed in 6 forms: 1A; 2A and 2 in 3A and 1B and 1C. - ACL continued de-watering the mill site around the clock. EBA representatives made flow measurements for French drain design for de-watering. - Every day, EBA representative made frequent rounds on the site, talking to foreman and superintendent to keep himself informed on work progress. EBA had meetings with key personnel as needed.

Worked Hours: Ricardo Colaci; 7 days x 12 hrs = 84 hours

Prepared by: Ricardo Colaci

Reviewed by: 

Key Personnel: EBA: Ricardo Colaci (on site) and Chad Cowan (arrived June 23, left June 25th)
 YZC Brad Brad Osaduk, Stanley Zhang and Gary McFatrige
 Larry Lebedoff (Merit Consulting, left site on June 23)
 Don Carr, ACL

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: JUNE 27-JULY 2, 2009

EBA FILE: W14101095.005

Weather	Mostly sun & clouds, with rain (June 21 & 22) & snow (June 26). Temp range 0 to 20 C.
Tasks:	June 27: - ACL only work in the morning, due to rain falling from 11 AM on. At of Con-Shed, backhoe sub-excavated to elevation 1354 m at fdn to remove FSM at G4 to G6 to place a first lift of rocks. - IDL continued preparing and placing reinforcing steel columns. Columns were placed in 6A, 6B, 6C and A5, A4, A3. June 28th. - ACL's backhoe excavator continued placing successive lifts of rock (0.3 m) at foundations G4 to G6, elevation 1354.3 m of Con-Shed. ACL used vacuum track to de-water Line 1, mill building grade it and static rolling compacted the bedrock surface. Work stopped at 2 PM due to heavy rain. ACL's backhoe excavator started excavating along Line F of mill building. - IDL continued preparing and placing reinforcing steel columns. Columns were placed in 1F and 1G. June 29th. - ACL's backhoe excavator continued excavating along Line F of mill building. ACL continued placing backfill rocks at G4 to G6 in 200mm increments and compacted it. By mid-afternoon reached elevation of U/S of footing at 1355.6 m. - IDL continued placing reinforcing steel columns at G1 to G3, including columns June 30th. - ACL's backhoe excavator continued excavating along Line F from F4 to F15 of mill building. Found bedrock from F4 to F6 (+/-); then colluvial to F10 (+/-). Bedrock again from F11 to F15. - IDL continued placing reinforcing steel columns at G4 to G6. All columns were placed at shift's end July 1st. - ACL's backhoe excavator continued excavating along Line F from F4 to F15 of mill building to obtain grade. Found a pocket of silt at fdn. F4. It was excavated and replaced w/bedrock material from elevation 1355.1 (+/-) to U/S of footing elevation 1355.4 m. Excavation had bedrock from F4 to F6; then mixed w/colluvial and bedrock again from F11 to F15. This excavation was approved and released to ACL for forms placement at mid-afternoon. - IDL was levelling reinforcing steel columns around con-shed. YZC made its inspection for re-bars placing.

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July 2nd.

- EBA continued monitoring de-watering of mill building site, area still unsuitable for concrete placement
- IDL reinforced concentrator building footings with additional re-bar as per spec. IDL began footing construction on mill building at F15. ACL backhoe and bulldozer down for most of day.

Notes:

EBA continued monitoring the placing and the compaction of material mill site, as well as the de-watering progress. ACL continued dewatering the mill site for 24 hrs period. Every day, EBA representative made frequent rounds on the site, talking to foreman and superintendent to keep himself informed on work progress. EBA had meetings with key personnel as needed.

Worked Hours: Ricardo Colaci; 7 days x 12 hrs = 84 hours
Chris Harwood; 3 days x 12 hrs = 36 hours
Total hours = 120 hrs

Prepared by: Ricardo Colaci

Reviewed by: 

Key Personnel: EBA: Ricardo Colaci (on site until July 22nd.) and
Chris Harwood (arrived June 30)
YZC: Brad Brad Osaduk, Stanley Zhang and Gary McFatridge
Clive Creaney, YZC (arrived on June 30)
Larry Lebedoff (Merit Consulting, arrived on June 30)
Don Carr, ACL

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: JULY 3-JULY 9, 2009

EBA FILE: W14101095.005

Weather:	Mostly sunny with periods of cloud. Overcast with low ceiling and rain midweek. Temp. 5 -20 C.
Tasks:	July 3rd. - ACL backhoe excavated additional sumps along North-East mill building wall in attempt to dry out top layer of saturated material. Material was deemed unsuitable for footing placement by ACL and EBA representatives. Monitored excavation at mill building by ACL backhoe of unsuitable, water saturated, silt-heavy material from footing trench: A 6.5 to A 14. Unsuitable material was replaced with coarse weathered/fractured bedrock material generated in excavation of line B. July 4th. - EBA Monitored sub-excavation for placement of mud sill. Area was approved and released to ACL for concrete pour. - EBA representative met with IDL representative Wally Mills to discuss concrete mix design and specifications. Mix design for foundation will be barched and used as mud sill pad at both, CLO & Mill Bldg to fine tune air and slump before foundation pour commences. - EBA and YZC agreed that all concrete testing is to be performed on first meter of truck-load at batch plant when foundation pour commences, until specs are consistently met. - EBA tested each concrete truck (at batch plant) for slump and air values, cast 4 cylinders from third truck (T-07). July 5th. - EBA continued monitoring grade preparation for Mill building footing lines A and B. July 6th. - EBA Tested west wall of tailings pond dam: 0+450 to 0+464 (-4 m from grade) at request from Clive Creaney and Gary McFatdrige. All tests passed @ 95% compaction spec. - EBA tested air and slump (at batch plant) for all concrete trucks pouring footings G1, G2, F1. Cast 8 cylinders (T-08) from truck #4. July 7th. - EBA tested slump and air on each truck (at batch plant) for pour at concentrator load-out building footings C1 to E1. Six cylinders were cast on truck #3 (18m of 36m) and truck #6 (36m of 36m). Pour commenced at 12:30, ceased at 15:30. July 8th. - Backfill along Mill building footing line A was watered to optimum moisture content and compacted with drum packer. EBA conducted density testing along footing line A, all tests passed at 100% standard proctor spec. EBA approved and released area to ACL for forming. EBA inspected mill building footing line B and released area to ACL for forming. <i>Cont'd next page</i>

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July 9th.

- EBA tested slump and air on each truck (at batch plant) for pour at concentrator load-out building footings A1 to A6, B6 and C6. Six cylinders were cast on truck #4 (24m of 60m, test 11) and truck #8 (48m of 60m, test 12). EBA confirmed with YNZ representative (Larry Lebedoff), that 20mm crush material from coarse concrete aggregate stockpile at km 17 was acceptable for placement as bedding material for concentrator load-out building weeping tile.

Notes:

- All material was moisture conditioned and compacted using two 1,000 pound plate tampers, one double drum sheep's foot, and two jumping jacks. All tests passed at the specified percentage of standard proctor value for that backfill.
- WT was placed straight, at center on grade, with 150mm of approved material surrounding.
- ACL continued de-watering the mill site around the clock.
- Every day, EBA representative made frequent rounds on the site, talking to foremen and superintendent to keep himself informed on work progress. EBA had meetings with key personnel as needed.

Worked Hours: Chris Harwood 7 days @ 12 hrs = 84 hours

Prepared by: Chris Harwood.

Reviewed by: _____

Key Personnel: Chris Harwood (EBA) on site
Clive Creaney, Stanley Zhang, Gary McFatdrige (YZC) on site
Larry Lebedoff (Merrit Consulting) on site
Don Carr, ACL on site

WEEKLY FIELD TESTING REPORTDATES: JULY 10TH - 12TH, 2009**INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING****WOLVERINE LAKE MINE SITE, YUKON**

EBA FILE: W14101095.005

Weather:	Mostly sun & clouds, with periods of light rain. Temp. range 13 -24 C.
Tasks:	July 10th. - EBA representative accompanied YNC representative (Larry Lebedoff) to Km. 17.5 to inspect stockpile of reject material, from 20mm coarse aggregate re-screening, for suitability as weeping tile bedding material. A sample was taken to perform a grain size analysis. Grain size analysis was completed and results sent to EBA (Chad Cowan). - EBA tested slump and air on each truck (at batch plant) for pour at concentrator load-out building footings E6 to G4. Six cylinders were cast on truck #4 (24m of 32, test 13). Pour commenced at 10:00 and ceased at 12:30. July 11th. - Confirmed with YZC representatives Larry Lebedoff and Clive Creaney that sand from coarse aggregate re-screening stockpile at km 17.5 was acceptable as bedding material for weeping tile. - EBA monitored preparation of subgrade, bedding material placement/compaction, weeping tile placement and backfill along NE side of concentrator load out building. All components were correctly placed and conditioned. Backfill material was not at optimum moisture content and will be tested for density. July 12th. - Continued monitoring of backfilling at concentrate load-out building along line 1 (above weeping tile). EBA conducted 6 soil density tests, all passed at 95% standard proctor. Material showed change from coarse to fine and so EBA conducted new proctor for material. - EBA rep accompanied ACL rep Steven Knight to sample various materials for suitability as backfill and facing rock material for MSE wall. Samples to be shipped morning of July 13th. Notes: -All material was moisture conditioned and compacted using two 1,000 pound plate tampers, one double drum sheep's foot, and two jumping jacks. All tests passed at the specified percentage of standard proctor value for that backfill. -WT was placed straight, at center on grade, with 150mm of approved material surrounding. -ACL continued de-watering the mill site around the clock. -Every day, EBA representative made frequent rounds on the site, talking to foremen and superintendent to keep himself informed on work progress. EBA had meetings with key personnel as needed.

Worked Hours: Chris Harwood 4 days x 12 hrs = 48 hours
Chris Harwood 1 day x 8 hrs = 8 hours
Ricardo Colaci; 3 days x 12 hrs = 36 hours

Prepared by: Ricardo Colaci with own and notes from C. Harwood

Reviewed by: 

Key Personnel: EBA: Chris Harwood, on site until July 16, leaving at 12:30 PM and
Ricardo Colaci, (arrived on site July 16) of EBA,

YZC: Clive Creaney, Yukon Zinc Corp. (YZC)
Stanley Zhang, Yukon Zinc Corp. (YZC)
Gary McFadrige, Yukon Zinc Corp. (YZC)
Larry Lebedoff, Meritt Consulting,
Owen Pickle and Jack McKenna, ACL

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: JULY 12-18, 2009

EBA FILE: W14101095.005

Weather:	Mostly sun & clouds, with periods of light rain Temp. range 0 to 18 C.
Tasks:	July 12th. - Arctic Construction (ACL) backfilling at concentrate load-out building along Line 1 (above weeping tile). Material changed gradation, therefore EBA conducted new proctor for this material. EBA sampled various materials for backfill/facing rock suitability for MSE wall. July 13th. - Collected additional samples at km. 17.5 for MSE wall backfill and facing rock. MSE samples from July 12 and July 13 were shipped to EBA's Edmonton Lab. - ACL cont'd backfill and compaction at Line 1 and A Concentrate load-out building. July 14th. - ACL cont'd backfilling and compacting material at Line A and started Line 6 of Concentrate load-out building. - IDL produced concrete for pour from footing F7 to F1. Pour was halted after three truck loads due to form location. Test for air and slump on each truck at batch plant. Cylinders cast from truck #3 last of 18m3 total. Footings F3 and F7 poured. July 15th. - ACL cont'd backfill/compaction of material at Line A, Line 6 and material placed above weeping tile at Line 6 of CLO Building - ACL placed weeping tile (WT) along Line 6 and Line G. July 16th. - ACL placing backfill/compacting material between footing A5 and A6 and footings along Line A6 to G6 of Concentrate load-out building to and elevation of 1361.05. - ACL continued placement of weeping tile (WT) along concentrate load-out building along Line A and Line G. - ACL started excavation for MSE Wall from sta. 0+00 to 0+70 (+/-). - IDL batched 42m3 of concrete mix. It was placed at mill bldg. foundations F8-F9 and F5 and F6. Conducted concrete Test # 15, for air content, slump and cast 6 cylinders. Auger on cement silo broke down and batching had to stop. - IDL forming and rebar crew continued placing rebar into the forms at Line 1A to 1G of the concentrate load out bldg. IDL placed forms at foundations A8 and A9 Line B8 and B9 (large footing) of the mill bldg. July 17th. - ACL continued placing backfill material between footings G4 and G5 to G6 of CLO Bldg <i>Cont'd next page</i>

*Cont'd from previous page***July 17th. (cont'd)**

- at elevation 1359.1, compacting along Line A5 -A6 and Line 6A to 6G elevation of 1361.0
- ACL continued placement of weeping tile along CLO Bldg. along line A and line G.
- ACL continued excavation for MSE Wall from sta. 0+00 to 0+70 (+/-) cutting the slopes to make it safer for workers while compacting. Spring water is ponding at NE corner, sta. 47+00 (+/-). Found bedrock all around.
- IDL placing forms foundations A8 and A9 Line B8 and B9, Mill Bldg. Rebar crew continued placing steel into forms at Line 1A to 1G of the CLO Bldg. inside panel at Line A1 to A6.

July 18th.

- ACL continued placing backfill material between footings G4 to G6, concentrate load-out building, elevation 1359.6 to 1361.1 in successive lifts of 0.2m.
- ACL continued excavation for MSE Wall 2A from sta. 0+00 to 0+70 (+/-) cutting the slopes to make it safer for workers.
- IDL placing forms foundations A12, B12 (large footing) and A11 and B11, A10, A11 and B10 of the mill bldg. Rebar crew continued placing steel into the forms at Line A and G of the concentrate load out bldg. Placed rebar at Line A1 to A4.
- IDL batched 8 m3, placed at foundation F10 of mill bldg. EBA conducted Test 16 and measured air content, slump and cast 4 cylinders

Notes:

-All material was moisture conditioned and compacted using two 1,000 pound plate tampers, one double drum sheep's foot, and two jumping jacks. All tests passed at the specified percentage of standard proctor value for that backfill.

-WT was placed straight, at center on grade, with 150mm of approved material surrounding.

-ACL continued de-watering the mill site around the clock.

-Every day, EBA representative made frequent rounds on the site, talking to foremen and superintendent to keep himself informed on work progress. EBA had meetings with key personnel as needed.

Worked Hours: Chris Harwood 4 days x 12 hrs = 48 hours
 Chris Harwood 1 day x 8 hrs = 8 hours
 Ricardo Colaci; 3 days x 12 hrs = 36 hours

Prepared by: Ricardo Colaci with own and notes from C. Harwood

Reviewed by: _____ *RC*

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Key Personnel: EBA: Chris Harwood, on site until July 16, leaving at 12:30 PM and
Ricardo Colaci, (arrived on site July 16) of EBA,

YZC: Clive Creaney, Yukon Zinc Corp. (YZC)
Stanley Zhang, Yukon Zinc Corp. (YZC)
Gary McFadrige, Yukon Zinc Corp. (YZC)
Larry Lebedoff, Meritt Consulting,
Owen Pickle and Jack McKenna, ACL

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: JULY 19-25, 2009

EBA FILE: W14101095.005

Weather:	Mostly sun & clouds Temp range 3 to 21 C.
asks	July 19th. - ACL started de-watering excavation for MSE Wall 2A from sta. 0+00 to 0+044. Spring water collected by installed stand pipe 3 m N of corner at sta. 0+044 is pumped out. - ACL backfilling Line F of Mill Bldg. on night shift placing backfill material to top of foundation between footings F4 to F14. Mill site density tests were conducted by KCBL as a request of ACL. - IDL continued placing forms foundations A12-B12 and A11-A12, B11, B10, A10 and A11 of the Mill Bldg. Rebar crew continued placing steel into the forms at Line A and G of the CLO Bldg. . Placed panels at forms Line 1, Line A. July 20th. - ACL re-assumed de-watering excavation for MSE Wall 2A. Ground still wet. - ACL night shift continued to backfill Line F of Mill Bldg. placing material between footings F5 and F9 to top of foundation elevation in successive lifts under QA/QC of KCBL for ACL. - IDL continued forming foundations at the mill bldg. Footings A12-B12, A11-A12, B10, B11, A10 and A11. Rebar crew continued placing steel into the forms at Line A and B, plus rebar columns A1 to A3 and B1, B3. - IDL continued working on grade beam forms Line 1, Line A and Line G, CLO Bldg. July 21st. - ACL continued draw down water form MSE Wall 2A. Ground still wet. - ACL night shift continued to backfill Line F of Mill Bldg. placing material between footings F10 and F11 to top of foundation elevation All QA/QC tests by KCBL. - IDL placing forms at the mill bldg. Footings A12-B12, A11-A12, B11, B10, A10, and A11. Rebar crew placing steel at Line A and B, plus rebar on columns same line. - IDL batch and pour 58m³ of concrete starting at column G3, G2, A1, A2 and all grade beams and columns on Line 1 A1 to A3 and G1 to G3 of the CLO Bldg. . July 22nd. - ACL continued draw down water form MSE Wall 2A. Ground is improving, but area closer to sta. 0+044 still wet. - IDL continued placing forms foundations at the Mill Bldg. Rebar crew continued placing steel into the forms at Line A and B, plus rebar columns Line A and B. - IDL batched concrete with new mix design as per EBA Technical Memo 002. Additional changes in additives made mix too dry and cancelled plans for pouring. IDL and EBA evaluated results and decided to continue with mix design as per EBA's Technical Memo 001. <i>Cont'd next page</i>

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July 23rd. (cont'd)

- backfilling with well-graded rocks (0.3m minus). Excavation was done between Sta. 0+036 and 0+044, an approx. area of 8m x 4m x 0.5m depth.
- ACL done additional backfilling work overnight on CLO Bldg. at G3-G4 and A3-A4, under QA/QC of KCBL.
- IDL continued placing forms foundations at the Mill Bldg. Rebar crew continued placing steel into the forms at Line A and B, plus rebar columns Line A & B. Forms out at CLO Bldg; finishing forming columns and grade beam
- IDL batch 87 m3 of concrete for foundation A1-B1, 2A, 3A, 5A & 6A and forming columns F4, F5 and F8. EBA conducted concrete tests T20 and T21

July 24th.

- ACL done additional backfilling work overnight on CLO Bldg, A3-A4 and G3-G4 under QA/QC of KCBL.
- ACL finished base preparation of MSE Wall 2A. Approved for welded wire metal and fill.
- IDL placing forms foundations at the mill bldg. Rebar crew placing steel into the forms at Line A and B, plus rebar columns Line A and B. Forms out at CLO Bldg.
- EBA tested for compaction Line H of mill bldg.

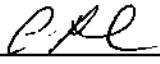
July 25th.

- ACL night shift continued backfilling on CLO Bldg. under QA/QC of KCBL at location G3-G4 and A3-A4. ACL day shift continued placing material. EBA was requested to test at beginning of day shift lift and found lower lifts were not compacted to specifications. EBA reiterated to ACL's Engineer that the responsibility of these lifts will be of their own. Work continued.
- ACL work on MSE Wall 2A, laying down welded wire mesh and placed first lift of fill. Placement was approved by 3PM. ACL started a second lift.
- IDL rebar crew continued placing steel into the forms at Line A and B, plus rebar columns Line A and B; forming crew continued placing forms foundations at the mill bldg; plus taking forms out and finishing forms of grade beam Line 6 at the CLO Bldg. .
- IDL batch 68 m3 of concrete for foundation B3-B4, A3-A4, B6, B7 and columns F4 and F5 of mill bldg.

Notes:

- EBA shipped to its Whitehorse laboratory all concrete cylinders due for strength test.
- Every day, EBA representative made frequent rounds on the site, talking to foreman and superintendent to keep himself informed on work progress. EBA had meetings with key personnel as needed.

Worked Hours: Ricardo Colaci; 7 days x 12 hrs = 84 hours
Prepared by: Ricardo Colaci

Reviewed by: 

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Key Personnel: Ricardo Colaci of EBA on site
Clive Creaney, Yukon Zinc Corp. (YZC, left site on Thursday)
Stanley Zhang, Yukon Zinc Corp. (YZC)
Gary McFadrige, Yukon Zinc Corp. (YZC)
Larry Lebedoff, Meritt Consulting,
Owen Pickle and Jack McKenna, ACL

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: JULY 26-AUG 1ST., 2009

EBA FILE: W14101095.005

Weather:	Sunny & hot Temp range 12 to 28 C.
Tasks	July 26th. - ACL night shift continued backfilling at CLO Bldg; location G3-G4 and A3-A4. QC tests by Campo Verde geo-tech. ACL day shift continued placing material. EBA tested compaction at A3-A4 at start of day shift and it passed. ACL turned section over to IDL. - ACL continued work on MSE Wall 2A laying down welded wire mesh, elevation 1340.5m to start a second lift of material (0.25m). Two lifts of rocky material per Welded Wire Mesh row (0.5m height). - IDL rebar crew continued placing steel into the forms and columns, Line A and B at the Mill Bldg. Continuing taking forms out and finishing forms on grade beam Line 6 at the CLO Bldg. Base preparation on Line 2 of the CLO Bldg. still wet from Line A to Line C. ACL placed a sump to pump water out. July 27th. - ACL night shift continued backfilling at CLO Bldg; Line 1, A-G. Tests by Campo Verde Geo-tech. YZC requested BA that backfill around grade beams and columns be placed un-compacted for 0.5m above top of foundation to 0.3m (approx.) below grade beam. A sketch for placement was provided to ACL by YZC. Base preparation on Line 2 of the CLO Bldg. still wet from Line A to C. It was decided to excavate the base and place a lean-crete slab. - ACL continued work on MSE wall 2A laying; elevation 1341 m. - IDL rebar crew continued placing steel into the forms and columns, Line A and B at the mill bldg. Placing forms at G3-G4 and A3-A4 of grade beam at the CLO Bldg. . - IDL batch 48 m3 of concrete and placed it on the grade beam and columns of Line 6 A6-G6, Line A, A3-A6 and Line G, G3-G6. EBA conducted concrete test # 24. July 28th. - ACL continued backfilling at Line 1, from A-G of the CLO Bldg; elevation 1360.7 m. Tests by Campo Verde Geo-tech. - ACL continued work on MSE wall 2A, elevation 1341.5 m July 28th. - IDL rebar crew continued placing steel into the forms and columns, Line A and B at the mill bldg. Placing forms at G3-G4 and A3-A4 of grade beam at the CLO Bldg. . - IDL batch 163 m3 of concrete and placed it on the Mill Bldg, Lines A & B, foundations A5 to A11 and B5 to B11 and columns F5 to F7. EBA conducted concrete tests #s T25; T26 & T27. Additionally, IDL placed a lean-crete slab on line A1 to A3, CLO Bldg. July 29th. - ACL continued backfilling on CLO Bldg. at Line 1, A-G, elevation 1360.6m. - ACL finished preparation base for MSE wall 2B and started lay out welded wire mesh and <i>Cont'd next page</i>

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July 29th. (Cont'd)

- tie-backs, elevation 1342.5m. At MSE wall 2A reached elevation of 1341.5 m. ACL covered a trench at sta. 0+044 (90 degree corner) even though was advised it was saturated by water truck dumping a load of water. ACL covered it with rocks, after 24 hrs of drying time.
- IDL rebar & forming crew cont'd placing steel into the forms and columns, Line A14-A15 and B14-B15, mill bldg. Line H forming couldn't be done due to not being to grade.
- **Nightshift:** ACL re-started night shift work, backfilling foundations between A1 and A4 and B1-B2, of the mill bldg. EBA personnel tested during night shift work.

July 30th.

- ACL continued backfilling on CLO Bldg. at Line 1, A-G; elevation 1360.7m.
- ACL continued work on MSE wall 2A, elevation 1342.5 m. At MSE wall 2B started first row of material placement.
- IDL rebar crew continued placing steel into the forms and columns, Line A and B at the mill bldg. Continued placing forms at Line 2 at the CLO Bldg.
- IDL batch 32 m3 of concrete and placed it on the mill bldg, foundation E1, F1 & F2. EBA conducted concrete test # 28.
- **Nightshift:** ACL continued night shift work; backfilling evenly both sides of Line 1, CLO Bldg. EBA personnel tested during night shift work.

July 31st.

- ACL continued backfilling on CLO Bldg. at both sides of Line 1 to elevation 1361.3m; excavated a trench for electrical grounding. ACL dug for MH at foundation G1, CLO Bldg; and overexposed footing.
- ACL continued work on MSE wall 2A to elevation 1343 m. Started placing material at base at MSE wall 2B.
- IDL rebar crew continued placing steel into the forms and columns, Line 2 of the CLO Bldg.
- IDL batch 32 m3 of concrete and placed it on the mill bldg, foundation A14, A15 & B14. EBA conducted concrete test # 29.
- **Nightshift:** ACL continued night shift work, backfilling 0.2m around each column of Line 6 of the CLO Bldg. EBA personnel tested during night shift work.

Aug 1st.

- ACL continued backfilling CLO Bldg at both sides of foundation A1 up to elevation 1361.3m, and backfilling excavated trench for electrical grounding. Placing material and compacting around columns of Line 6.
- ACL continued work on retaining wall 2A excavating the existing ramp at corner sta. 0+00, laying down welded wire mesh, placing lifts of 0.5m rock material, elevation 1343 m. Continued placing material at base at MSE Wall 2B. Crew did not work in the afternoon due to being trained on man-lift equipment usage.
- IDL rebar crew placed steel into forms Line 2 of the CLO Bldg. and it was found incorrect. Will redo steel work tomorrow. IDL is taking out forms in Line 1A to 1F; forming rebar in Line H1 to H7.
- **Nightshift:** ACL continued night shift work, backfilling in both sides of Line 1, up to elevation 1356.6m and in both sides of Line 6 up to elevation 1357.5 m of the CLO Bldg.

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Notes:

- On MSE wall 2A, placed lifts of 0.5m of rocky material and 0.25 m thickness for the gravel & sand for about 1.8 m width at the back slope of MSE wall 2A.
- On night shift material was placed with a backhoe or bobcat and compacted with two jumping jacks, one 24", walk behind double drum packer and one 1000 lbs tamper plate at both, the CLO Bldg. and mill bldg. Dayshift had additional equipment.
- ACL continued de-watering the mill site around the clock.
- EBA shipped to its Whitehorse laboratory all concrete cylinders due for strength test.
- Every day, EBA representative made frequent rounds on the site, talking to foremen and superintendent to keep himself informed on work progress. EBA had meetings with key personnel as needed.

Worked Hours: Ricardo Colaci; 7 days x 12 hrs = 84 hours
 Chris Harwood: 2 days x 12 hrs = 24 hours
 Mackenzie Ingram: 3 days x 12 = 36 hours

Prepared by: Ricardo Colaci

Reviewed by: 

Key Personnel: Ricardo Colaci of EBA (on site)
 Chris Harwood, EBA (arrived on site Tuesday, left site Thursday, July 30, 2009)
 Mackenzie Ingram, EBA (arrived on site Thursday, July 30, 2009)
 Clive Creaney, Yukon Zinc Corp. (YZC, arrived site on Tuesday, July 28, 2009)
 Stanley Zhang, Yukon Zinc Corp. (YZC)
 Gary McFadrige, Yukon Zinc Corp. (YZC)
 Larry Lebedoff, Meritt Consulting, (arrived on site on Tuesday, July 28, 2009)
 Owen Pickle, ACL. Don Carr, ACL (arrived on site on Tuesday, July 27, 2009)
 Jack McKenna, ACL (left site Thursday, July 27, 2009)

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: AUG 2ND – AUG 8TH, 2009

EBA FILE: W14101095.005

Weather:	Sunny and hot Sun-Thurs, overcast Thurs-Sat. Temp from 15 to 28 degrees C.
Tasks	Aug 2nd - ACL continued backfilling and compacting around columns/grade beam on Line 6 and both sides of Line A; CLO Bldg elevation 1361.3m (+/-) and backfilling excavated trench for drain tile. On Mill Bldg., one more lift placed outside perimeter, Line A1 to A7. - ACL continued work on MSE Wall 2A, placing drain tiles at elevation 1343 m and backfilling at excavation next to existing ramp, corner of sta. 0+00. Placed one lift of 0.5m rock material to elevation 1343.5 m. Continued placing material at base at RW B1. - IDL is taking out forms in Mill Bldg; Line 1A to 1F; forming rebar in Line H. - IDL rebar crew redone steel work at Line 2 of the CLO Bldg and poured concrete EBA conducted test #'s T30 and T31. Aug 3rd - ACL night shift continued backfilling on CLO Bldg; Line 1, A-G. Tests by Campo Verde Geo-tech. YZC requested EBA that backfill around grade beams and columns be placed un-compacted for 0.5m above top of foundation to 0.3m (approx.) below grade beam. A sketch for placement was provided to ACL from YZC. Base preparation on Line 2 of the CLO Bldg still wet from Line A to C. It was decided to excavate the base and place a lean-concrete slab. - ACL continued work on MSE wall 2A laying; elevation 1341 m. - IDL rebar crew continued placing steel into the forms and columns, Line A and B at the Mill Bldg. . Placing forms at G3-G4 and A3-A4 of grade beam at the CLO Bldg. . - IDL batch 48 m3 of concrete and placed it on the grade beam and columns of Line 6 A6-G6, Line A, A3-A6 and Line G, G3-G6. EBA conducted concrete test # 24. Aug 4th - ACL continued backfilling along line A of Mill building. One lift placed from F7 to F11. - ACL continued backfilling at on both side of interior wall at G2 to bring interior backfill material level with exterior backfill material. ACL began backfilling along building interior side of wall at Line 2, compaction to be checked by night shift. - ACL continued work on MSE Wall 2A, placing drain tiles at elevation 1343 m and backfilling at excavation next to existing ramp, corner of sta. 0+000. Placed one lift of 0.5m rock material to elevation 1344.5 m. Continued placing material at base at RW B1. - ACL continued dewatering process over 24 hr. periods with two pumps, one at NW corner of mill building and one at SW corner. - EBA began calibration survey of Schmidt hammer for in situ non-destructive concrete testing. Aug 5th - ACL continued backfill on east side of Line 2 wall at CLO Bldg. to elev. 1356.5m <i>Cont'd next page</i>

Tasks	<i>Cont'd from previous page</i> Aug 5th (cont'd) - ACL continued backfill at corner H1 of mill building to top of footings and between/along footings F1 to F4 to top of footings. - ACL continued placement of clean coarse and weathered bedrock material at reinforced earth retaining wall. - IDL placed concrete at mill building from footing H3 to footing H9. Pour commenced at 10:00 AM, ceased at 12:00 PM with a total of 48 m³. Cylinders cast on truck 4 (T-33, cylinders #170-175). - EBA conducted non-destructive concrete tests on pedestals along West and East walls of CLO Bldg. Aug 6th - Backfill at CLO Bldg NE corner continued to grade. Backfill at mill building continued along line F from footings 3-9. - ACL continued placement of clean coarse and weathered bedrock material at reinforced earth retaining wall. EBA conducted additional non-destructive concrete strength tests along line 6 of CLO Bldg. Tests showed strengths between 24 and 30.5 MPA, with a mean of 26. - IDL placed concrete at rod mill mud sill. Pour commenced at 12:30 PM, ceased at 14:00 PM with a total of 32 cubic metres. Cylinders cast on truck 3 (T-34, cylinders #176- 181). Aug 7th. - ACL continued placement of clean coarse and weathered bedrock material at reinforced earth retaining wall. - ACL continued backfilling at mill building along line H, specifically above weeping tile, as well as between lines A and B from footing 7 to footing 15. Some lifts placed consisted of recently excavated bedrock material. Said material contained no fines and compaction resulted in complete rock in rock contact. Material was un-testable by nuclear densometer. It was passed after observation of acceptable water application and compactive effort and a visual inspection. Aug 8th - ACL continued placement of clean coarse and weathered bedrock material at reinforced earth retaining wall. All testable material placed was tested and passed at 95% standard proctor value. - ACL continued backfill placement and compaction between lines A and B of mill building. Notes: • On MSE Wall, placed lifts of 0.5m of rocky material and 0.25 m thickness for the gravel & sand for about 1.8 m width at the back slope of MSE wall A2. • On night shift material was placed with a backhoe or bobcat and compacted with two jumping jacks, one 0.6m, walk behind double drum packer and one 1000 lbs tamper plate at both, the CLO Bldg. and Mill Bldg. Dayshift had additional equipment. • ACL continued de-watering the mill site around the clock. • EBA shipped to its Whitehorse laboratory all concrete cylinders due for strength test. <i>Cont'd next page</i>
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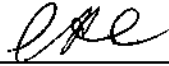
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Notes: *(cont'd)*

- Every day, EBA representative made frequent rounds on the site, talking to foremen and superintendent to keep himself informed on work progress. EBA had meetings with key personnel as needed.
- On Aug 5th EBA rep (C. Harwood) met with YZC reps to discuss modification from testing at 98% proctor value to 95% on all material placed under non-foundation elements (ie: footings, pedestals). Henceforth material placed under slab, grade beams/walls and at wall exteriors (to a distance of 3 m) will be tested for density at 95% standard proctor value. All testable material placed was tested and passed at 95% standard proctor value.

Worked Hours: Ricardo Colaci; 2 days x 12 hrs = 24 hours
Chris Harwood: 5 days x 12 hrs = 60 hours
Mackenzie Ingram: 7 days x 12 = 84 hours

Prepared by: Ricardo Colaci and Chris Harwood

Reviewed by: 

Key Personnel: Ricardo Colaci of EBA (on site, left site Aug 4th)
Chris Harwood, EBA (arrived on site Aug 4th)
Mackenzie Ingram, EBA (onsite)
Clive Creaney, Yukon Zinc Corp. (onsite)
Stanley Zhang, Yukon Zinc Corp. (YZC) (onsite)
Gary McFadrige, Yukon Zinc Corp. (YZC) (onsite)
Larry Lebedoff, (YZC) (onsite)
Owen Pickle, ACL. Don Carr, ACL)

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: AUG 9TH – AUG 15TH, 2009

EBA FILE: W14101095.005

Weather:	Sunny and Clouds Sun-Thurs, overcast Thurs-Sat. Temp from 8 to 18 degrees C.
Tasks:	Aug 9th. - ACL continued placement of clean coarse and weathered bedrock material at reinforced earth retaining wall. - IDL placed concrete on Mill bldg. walls and pedestals along line a 1-4 and line 1 A-E. Pour commenced at 13:00, ceased at 18:00 with a total of approximately 48 m3. Specimens for concrete test were cast from truck 4 (T-35) and truck 5 (T-36). - Night shift: ACL night shift crew worked on the MSE Wall 2A. Aug 10th. - ACL continued placement of clean coarse and weathered bedrock material at MSE Wall 2A to an elevation of 1346.7m. - IDL placed concrete mill building, footing H13-H10. Pour commenced at 13:30 PM, ceased at 16:00 PM with a total of 48 m3. Specimens for concrete test were cast from truck 3 (T-37) and truck 5 (T-38). - Night shift: ACL continued working on the MSE Wall 2A. Aug 11th. - ACL continued placement of clean coarse and weathered bedrock material at MSE Wall 2A to an elevation of 1347.7m. - IDL placed concrete at Mill Bldg, footing F13-F10. Pour commenced at 16:30 PM, ceased at 18:00 PM with a total of 32 m3. Specimens for concrete test were cast from truck 3 (T-39). - Night shift: ACL night shift worked on the MSE Wall2A to an elevation of 1348.0m. Aug 12th. - ACL continued placement of clean coarse and weathered bedrock material at MSE Wall to an elevation of 1348.5m. - IDL placed concrete at mill building, footing F3/F4. Pour commenced at 14:00 PM, ceased at 15:00 PM with a total of 32 m. Specimens for concrete test were cast from first truck (T-40). - ACL continued to place backfill material in the Mill Bldg along sections A1 and B1 through to A8 and B8. - ACL placed and compacted material along section H10 to H13 of the Mill Bldg. - Night shift: ACL night shift worked on the MSE Wall2A to an elevation of 1349.0m. Aug 13th - ACL continued placement of clean coarse and weathered bedrock material at MSE WallB2 to an elevation of 1349.5m. - IDL continued working on rebar placement at mill building, footing of Rod Mill forms and foundations A12-B12 – A13-B13. Re-bars/forms also placed on Line A1 to E1. - ACL continued dewatering process over 24 hour period with two pumps, one at NW <i>Cont'd next page</i>

Tasks Tasks	<i>(Continued from previous page).</i> Aug 13th (cont'd) - corner of mill building and another at SE corner. Also, ACL was instructed to pump water accumulated at sta. 0+044 (just E of 90 degree corner +/-) of the MSE Wall B2. - Night shift: ACL continued to place backfill material in the mill building along sections A1 and B1 through to A8 and B8. ACL placed material around the outside of the North facing wall from A1 to A8. Backfill was placed at the west facing wall of the mill building between A1 and B1. Aug 14th - ACL continued placement of clean coarse and weathered bedrock material at MSE Wall 2A to an elevation of 1349.6m (+/-). - ACL continued placement of backfill material inside mill site bldg; between A1 to A9 and B1 to B9 to an elevation of 1357.6m (+/-). Also placing backfill material outside of mill bldg, Line A1 to D1. - IDL finished rebar placement at rod mill footing forms and foundations A12-B12 and A13-B13. Re-bars/forms also placed on Line A1 to E1. - IDL made a lean-crete pour and placement for future support of grade beam forms between H9.5 to H11.75. - Night shift: ACL night shift worked on the MSE Wall 2B, elevation 1343.5m. Aug 15th - ACL continued backfill on East side of inner wall at Line 2 of CLO Bldg to an elevation of 1356.5 m. - ACL continued backfill at corner H1 of mill building to top of footings and between/along footings F1 to F4 to top of footings. - ACL continued placement of clean coarse and weathered bedrock material at MSE Wall2B, elevation 1344m. - IDL placed concrete at mill building from footing H3 to footing H9. Pour commenced at 10:00, ceased at 12:00 with a total of 48 m3. Specimens for concrete test were cast from truck 4 (T-33, cylinders #170-175). - EBA conducted non-destructive concrete tests on pedestals along West and East walls of concentrate load out building. - Night shift: ACL night shift worked on the MSE Wall 2B, elevation 1344.5m. Notes: - ACL continued dewatering process over 24 hour period with two pumps, one at NW corner of mill building and another at SE corner. - At MSE Wall2A, all testable material placed was tested and passed at 95% standard proctor value. Coarse rock material placed was compacted with smooth drum roller and used a 1000 lbs tamper plate for 1m next to gabion placement. - At mill building, material placed was tested and passed at 95% standard proctor value. - At the concentrate load out building, material placed was tested and passed at 95% standard proctor value.
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Worked Hours: Chris Harwood: 5 days x 12 hrs = 60 hours
Mackenzie Ingram: 7 days x 12 = 84 hours
Ricardo Colaci; 2 days x 12 hrs = 24 hours

Prepared by: Ricardo Colaci and Chris Harwood

Reviewed by: 

Key Personnel: Chris Harwood, EBA (dayshift, on site until Aug 13th)
Ricardo Colaci of EBA (arrived on site Aug 13th for dayshift,)
Mackenzie Ingram, EBA (nightshift, on site)
Clive Creaney, Yukon Zinc Corp.
Stanley Zhang, Yukon Zinc Corp. (left site on Aug 13th)
Gary McFadrige, Yukon Zinc Corp.
Larry Lebedoff, Meritt Consulting,
Don Carr, (ACL)

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: AUG 23RD – 29TH, 2009

EBA FILE: W14101095.005

Weather:	Long Periods of Rain, Mostly Overcast w/some Periods of Sun Temp from -3 to 20 degrees C.
Tasks:	Aug 23 - ACL compacted lift from night shift and continued placement at MSE Wall 2B to an elevation of 1348.5 m (+/-). Its Welded Wire Mesh is now in its 11th row above base. ACL clean up materials stockpiled outside excavation at Crusher Bldg. - ACL finished cutting ground at Mill Bldg with Dozer D7, inside line F and Line B for new footings. Steel columns are now inside foundation - IDL batch 3 m3 of new mix design try-out at mid-morning. EBA conducted T54, recording concrete temperature, entrained air, slump, cast 8 specimens. In addition EBA cast 4 specimens as T54A for IDL testing at a laboratory of their choice. All 12 cylinders were cast from same sample. At 3 PM, IDL batch 40.1 m3 of concrete for pour at Line A9 to A15. Pour started at 3:30 PM and finished at 5:45 PM. EBA tested 3 truckloads, 6 cylinders Test 55. Nightshift - ACL night shift continued working on the reinforced earth MSE Wall. Aug 24 - ACL continued placement at MSE Wall 2B to an elevation of 1349 m (+/-). Welded Wire Mesh is now in its 13th row above base. - ACL could not work on the mill bldg due to heavy rain. - Ironclad contractor started installing columns on Lines A3 to A4 and B3 to B4. - IDL continued finishing forms / rebar at Line H9 to H15 and H15 to F15; as well as mill base. - EBA tested surface hardness on columns H1 to H8 with a Schmidt Hammer. Each face of column was tested 10 times and averaged w/o outliers. Results forwarded to YZC. Nightshift - ACL night shift continued working on the MSE Wall. Aug 25 - ACL continued placement at MSE Wall 2B to an elevation of 1349.5 m (+/-). Welded Wire Mesh is now in its 15th row above base. - ACL could not work on the Mill Bldg due to heavy rain. - Ironclad contractor continued installing columns on Lines A1 and A2 and B1 to B2. - IDL continued at Mill Bldg, finishing forms / rebar at Line H9 to H15 and H15 to F15 for pouring at noon. Also worked on mill base forms / rebar and started on forms at Crusher Foundations. - IDL batch 57 m3 of concrete for Line H9 to H15 to F15 and column F14 (Mill Bldg). EBA conducted test slump in 80% of loads for concrete temperature, slump, entrained air and casting 6 specimens (T56) at truck # 6/8. Pour started at noon; finished at 4:15 PM. Nightshift - ACL night shift continued working on the reinforced earth MSE Wall. <i>Cont'd Next page</i>

Tasks	<i>Cont'd from previous page</i> Aug 26 - ACL continued placement at MSE Wall 2B to an elevation of 1349.5 m (+/-). Welded Wire Mesh is now in its 16th (and last) row above base. ACL reassumed work at 2A. - After the rain, ACL reassumed work on the Mill Bldg, pumping mud out of foundations A9 to A15. EBA tested for compaction before weeping tiles installation at on Rod Bin foundation. All test failed due to an un-compacted 1 m lift. ACL removed excess material by end of shift. - IDL continued finishing forms / rebar on mill at Line F14 to F 12 and continued on forming at Crusher Foundations. Nighshift - ACL night shift worked on backfilling around the Rod Bin foundation. The aforementioned lift was removed and new material was placed with appropriate lift intervals. At the beginning of the evening ACL had a few labourers remove and backfill heavily saturated material outside the Mill Bldg between sections A15 – A12. ACL also had two operators building up an access ramp at East side of MSE Wall 2B. Aug 27 - ACL continued placement at MSE Wall 2A to an elevation of 1353 m (+/-). Welded Wire Mesh is now in its 24th row above base. ACL continued work at MSE 2B, placing colluvial material for road base, South of CLO Bldg. - ACL work on preparing base for weeping tile at Rod Bin site and Line 15 and Line H, Mill Bldg. - EBA conducted 2 concrete mix trials at batch plant (cast cylinders at Test # 57). - IDL continued finishing forms / rebar on mill base forms / rebar at Line F14 to F 12 and continued on forms at Crusher Foundations. Nightshift - ACL night shift backfilling around the Rod Bin foundation. ACL backfilled material outside the Mill Bldg between sections A11–A15 and backfilled inside Mill Bldg between A13-A15. ACL also had two operators and two trucks working on raising the grade of the east side of MSE Wall 2B. Aug 28 - ACL continued placement at MSE Wall 2A to an elevation of 1353.5 m (+/-). Welded Wire Mesh is now in its 25th row above base. ACL continued work at MSE 2B, placing material for road base. EBA observed MH installation at MSE 2B. ACL continued backfilling grade beam trench on Line A9 to A15, Mill Bldg. - EBA conducted concrete mix trial test # 58 at batch plant and Schmidt Hammer surface strength tests on columns and wall between A14 to A15, Mill Bldg. EBA assisted at km 17.5 crushing operation to determine screen size for free drain material to be used for weeping tiles. - IDL continued finishing forms / rebar on mill base forms / rebar at Line F14 to F 12 and continued on forms at Crusher Foundations. EBA observed rainwater was not controlled and ground under East foundation is saturated. <i>Cont'd next page</i>
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Tasks:	<i>Cont'd from previous page</i> Nightshift - ACL night shift worked on backfilling around the Rod Bin foundation. ACL reached final grade after a few hours. ACL backfilled material outside the Mill Bldg between sections A7-A15. Night Shift also worked on backfilling inside Mill Bldg between A12-A15. ACL had two operators and two trucks working on raising the grade of the east side of MSE Wall 2B. Aug 29 - ACL continued placement at MSE Wall 2A to an elevation of 1354 m (+/-) and preparing truck-dumping bay. Welded Wire Mesh is now in its 26th row above base. ACL stripped a 2m wide x 30m long (approx.) saturated materials just west of MSE Wall 2A to replace it with dry material. Continued working at MSE 2B with pipe installation to 2nd MH and placing material to make an easterly ramp to Mill pad. ACL placed free drain material and installed weeping tiles between west side of Rod Bin foundation and H9, Mill bldg. - IDL batch / poured 20 m3 of concrete between B15 to F15 (inside these two columns, starting at grade beam) mill bldg. Pour started at 14:50 hours and finished at 16:30 hours. EBA conducted concrete test # 59, casting 6 cylinders. IDL continued finishing forms / rebar on forms at Crusher Foundations. EBA observed that ground under East foundation still saturated. Nightshift - ACL night shift worked on backfilling around the Rod Bin foundation. The aforementioned lift was removed and new material was place at appropriate lift intervals. At the beginning of the evening ACL had a few labourers remove and backfill heavily saturated material outside the Mill Bldg between sections A15-A12. - ACL also had two operators working on developing an access ramp on the west side of MSE Wall #2B. Notes: -All week, ACL continued placement of clean coarse material at reinforced earth MSE Walls 2A and 2B. Testable material placed by ACL was tested for compaction and passed at 95% standard proctor value. All other material was visually inspected for compaction. As well, ACL continued dewatering process over 24 hour period with two pumps, one at NW corner of Mill Bldg and another at SE corner. - EBA conducted test slump in 80% of loads for concrete temperature, slump, entrained air plus casting specimens every 50 to 70 m3, depending on the pour volume. -EBA shipped all due for testing concrete cylinders to EBA's Whitehorse laboratory.
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Worked Hours: Ricardo Colaci; 7 days x 12 = 84 hours
Mackenzie Ingram; 7 days x 12 = 84 hours

Prepared by: Ricardo Colaci

Reviewed by: Chad Cowan 

Key Personnel: Ricardo Colaci and Mackenzie Ingram, EBA (on site)
Clive Creaney, YZC (left site on Aug 27)
Brad Osaduk, Gary McFadrigue, Jamie Swanson and Stanley Zhang, YZC.
Don Carr, (ACL)

WEEKLY FIELD TESTING REPORTDATES: AUG 30TH– SEPT 5TH, 2009**INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING****WOLVERINE LAKE MINE SITE, YUKON**

EBA FILE: W14101095.005

Weather:	Mostly Overcast w/some Periods of Light Rain Temp from -3 to 20 degrees C.
Tasks:	Aug 30th. - ACL continued placement of clean coarse material at MSE 2A to an elevation of 1351.2 m (+/-). Welded Wire Mesh is on its 25th row above base. Continued work at MSE 2B, placing material on south embankment and installation of 2nd rise on MH; plus added 2nd length of CSP West to ditch # 5. - ACL placed material inside Mill Bldg, Line H9-H15. - IDL batch / poured 20 m3 of concrete between B15 to F15 (inside two columns, starting at grade beam) Mill Bldg. Pour started at 14:50 hours and finished at 16:30 hours. EBA conducted concrete test # 59, casting 6 cylinders. - IDL continued finishing forms / rebar on Mill Bldg at Line F14 to F 12 and continued on forms at Crusher Foundations. EBA observed that ground under East foundation still saturated. Nightshift - ACL placing backfill materials both inside and outside the Mill Bldg between sections H7-H13. Backfill was also placed at the junction of line 15 and line H. Material was compacted; some tests did not the 95% standard proctor value. - A crew placed and compacted material at 600mm culvert at MSE Wall 2B. - ACL working on raising the grade of the east side of MSE Wall 2B. Aug 31st. - ACL continued placement of clean coarse material at MSE 2A to an elevation of 1351.7 m. Welded Wire Mesh is on its 25th row above base. Continued placing material at MSE 2B, (elev. 1352.2m) on south embankment and installation of 3rd rise on MH; added 3rd length of CSP West to ditch # 5. - ACL placed material inside Mill Bldg, by Line H9-H15, elevation 1356.5 (+/-). Fitted w/50mm rigid Styrofoam N face of Rod Bin foundation for mud slab pour. - IDL continued finishing forms / rebar at Crusher Foundations. By 3 PM foundations N & W were ready for pour. EBA observed that ground under East foundation still saturated. - IDL batch / poured 64 m3 of concrete for N & W crusher foundations. Pour started at 15:20 hours and finished at 19:30 hours. IDL had problems with batch plant's scale and the two first truckloads of concrete were of unreliable weight. IDL verbally requested that under their responsibility the 16 m3 pour were to be spread thin over the base of North form, as mud slab. EBA consulted YZC's rep. Mr. Zhang and he was agreeable. EBA conducted concrete test # 60, casting 6 cylinders. Nightshift - ACL nightshift placed a culvert at km 26.5. EBA did not inspect this installation. - ACL worked on manhole at MSE Wall 2B. Placing and packing two lifts and graded MSE Wall 2A toward the W. <i>Cont'd next page</i>

Tasks	<i>Cont'd from previous page</i> Sept. 1 - ACL placed material inside Mill Bldg along Line H9-H15, elevations 1356.8m to 1357.1m (+/-). ACL continued placement of clean coarse material at MSE 2A, elevation of 1352.1m. Welded Wire Mesh is on its 26th row above base. ACL placing fill material on MSE Wall 2B, elevation 1353m (+/-). - IDL continuing working on forms/rebar at Crusher Building, south foundation. By 3 PM foundation was ready for pour. IDL batched 40 m³ of concrete for south wall foundation. Pour started at 15:20 hours and finished at 16:50 hours. EBA conducted concrete test # 61, casting 6 cylinders. After that, IDL poured lean-crete between N face of Rod Bin foundation and Mill Bldg. Both foundations were lined w/rigid insulation. Nightshift - ACL raising the grade at east side of MSE 2B and backfilling around the MH at MSE 2B. - ACL backfilling along line H of the Mill Bldg, from H8- H13 on the outside and H8-H15 on the inside. Sept. 2 - ACL dayshift had to cut 1 m (+/-) lift from nightshift at MSE Wall 2B. MSE Wall 2A reached grade elevation 1352.6 m; dug a trench to add a length of CSP from MH to ditch # 5 (compaction tested by Campo Verde Consul.) and continued to place backfill material inside Mill Bldg, Line H9-H15, elevation 1357.8 (+/-). At km 17.5, ACL is crashing material from quarry at km 18. ACL started working on road upgrade at km 15 to km 17. - EBA sampled from stockpile at crushing plant and sent it to EBA's Whitehorse lab to be analysed for concrete aggregates suitability. EBA sampled material from road upgrade construction (km 15.1) for Moisture/Density Relationship determination. - IDL finished rebar at Crusher Bldg Foundation, E wall; it is ready for pour. Pour started at 8:00 hours and finished at 10:00 hours. EBA conducted concrete Test # 62, casting 6 cylinders. At 2:30 PM another batch of 4 m³ for 7 small columns around Rod & Ball Mill foundation. EBA conducted concrete Test # 63, casting 6 cylinders. Nightshift - No crew working. EBA worked on lab duties, data entry and particle size determination. Sept. 3 - ACL working at MSE Wall 2B, reach elevation 1357 to 1357.6 m (+/-), backfilling trench for CSP from MH to ditch # 5. ACL crashing at km 17.5, material from quarry at km 18. ACL cont'd working on road upgrade at km 15 to km 17. EBA tested for compaction at road upgrade, km 15.1; all test failed. - EBA had several meetings with IDL for planning the 550 m³ pour at Rod-Ball Mill foundation. Nightshift - No nightshift crew working. EBA worked on lab duties, data entry and Proctor test from km 15.1 fill material sample. Sept. 4th. ACL compacting final grade at MSE Wall 2A, elevation 1352.6 m (+/-); plus placing and compacting at MSE Wall 2B, elevation 1357 to 1357.6 m. ACL started excavation at sta. 0+300 to 0+320 for CSP for seepage trench, bottom elev. 1355 (+/-). Base compaction was tested by Campo Verde. <i>Cont'd next page</i>
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Tasks:	<i>Cont'd from previous page</i> Sept. 4th. (cont'd) - EBA attended two IDL meetings for planning the 550 m3 pour at Rod-Ball Mill foundation. Nightshift - No nightshift crew working. EBA worked on lab duties, data entry and moving/sorting 146 specimens of concrete cylinders into additional bathtub, located between ACL/IDL office hallways and preparing bathtub for new specimens from big pour. Sept 5 - ACL compacting around SE corner of Mill Bldg, elevation 1357.7 m. ACL placed 2 layers of 50mm rigid insulation to cover 15mm crush material (bedding) around CSP for seepage trench, between sta. 0+320 to 0+305. - IDL started at 12:45 PM, the 550 m3 pour for rod & ball mill foundation. EBA tested concrete for slump, air entrainment and concrete temperature. Over the pour, EBA made 7 complete sets of cylinders (T 64 to T 70, both shifts). Pour started at 12:45 PM on Saturday and ended at 5:00 AM Sunday. Nightshift - IDL continued the 550 m3 pour for rod & ball mill foundation from Saturday's day shift and ended at 5:00 AM Sunday. EBA night shift tested cement mixers for slump, air entrainment and concrete temperature and complete sets of cylinders (T 64 to T 70, both shifts). Notes: -During the week, ACL continued placement of clean coarse material at reinforced earth retaining walls 2A and 2B. Testable material placed by ACL was tested for compaction and passed at 95% standard proctor value. All other material was visually inspected for compaction. As well, ACL continued dewatering process over 24 hour period with two pumps, one at NW corner of mill building and another at SE corner. - EBA conducted test slump in approx 60% of loads for concrete temperature, slump, entrained air plus casting specimens every 50 to 70 m3, depending on the pour volume. -EBA shipped all due for testing concrete cylinders to EBA Whitehorse laboratory.
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Worked Hours: Ricardo Colaci; 7 days x 12 = 84 hours

Mackenzie Ingram; 7 days x 12 = 84 hours

Prepared by: Ricardo Colaci

Reviewed by:



Key Personnel:

Ricardo Colaci (dayshift) and Mackenzie Ingram (nightshift) EBA (on site)

Brad Osaduik, Stanley Zhang & Larry Lebedoff, YZC (on site)

Jack MacKenna, (ACL)

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: SEPT 6TH– 12TH, 2009

EBA FILE: W14101095.005

Weather:	Mostly Overcast w/some Periods of Light Rain Temp from 5 to 20 degrees C.
Tasks:	Sept 6th - ACL compacting backfill material on top of 2 layers of 50mm rigid insulation over CSP, of seepage trench, between sta. 0+320 to 0+305, elevation 1356.5 m. Work had to halt due to conflicting elevation of 2nd CSP from ditch # 1. Design to be reviewed by ACL. Also, ACL placed lock-blocks on top of grade at MSE 2A. - IDL continued forming grade beam walls from 5A-1A-1B-B5; Crusher Bldg foundations. Nightshift - EBA nightshift continued filed density data entry, 42 concrete specimens cylinders extrusion & marking. - -ACL worked both inside and outside the mill Bldg between sections H7–H13. Sept 7th - IDL continued forming grade beam walls from 5A-1A-1B-B5; Crusher Bldg foundations. Work re-started at Rod Feed Bin placing forms for grade beam walls. - IDL batched 2 m3 pour for a pedestal for communication tower above main offices. EBA tested concrete for slump, air entrainment and concrete temperature. Delivered concrete had very low air in 2 test readings. EBA made 1 set of cylinders (T71). Pour started at 1:30 PM and ended at 14:00 PM. Nightshift - EBA nightshift continued filed density data entry. Sept. 8th. - - ACL reassumed placing and compacting backfill material on top of 2nd CSP, discharge of ditch # 2, elevation 1357.2 m (+/-). Tested by Campo Verde geo-tech. - IDL finished forming grade beam walls 5A-1A-1B-B5, Crusher Bldg. Work continued at Rod Feed Bin placing forms for grade beam walls. - IDL batched 56 m3 pour for grade beam walls 5A-1A-1B-B5. EBA tested concrete for slump, air entrainment and concrete temperature in 5 of 7 loads and making 1 set of cylinders (T71). Pour started at 1:30 PM and ended at 14:00 PM. Sept. 9th. - ACL finished placing and compacting backfill material on top of 2nd CSP, discharge of ditch # 1, elevation 1358 m (+/-). Testing by Campo Verde geo-tech. Started excavation to continue seepage ditch construction from sta. 0+300 to 0+250 and placed crush bedding for CSP. ACL built a ramp west of corner B5, Crusher Bldg to walk in a hoe to prepare base for Jaws & Conc Crusher foundation. - IDL continued forming grade beam walls 5A to B5, Crusher Bldg. Work continued at Rod Feed Bin placing forms for grade beam walls. <i>Cont'd next page</i>

Tasks	<i>Cont'd from previous page</i> Sept. 10th. - IDL finished forming grade beam walls 5A to B5, Crusher Bldg. Walls poured from 18:00 to 19:30 (three trucks). - EBA cross-shift personnel, Mr. Justin Piggage, EIT, arrived on site and took safety orientation from YZC. Ricardo briefed Justin on site conditions and progress. - EBA prepared and shipped five coolers of concrete cylinders (39 cylinders) by truck to Whitehorse. Sept. 11th. - EBA performed preliminary inspection of bearing surface within Crusher Bldg footprint to facilitate construction of pad footing forms. Formal inspection with sign-off to follow. - IDL poured 6 m³ of 20 MPa mud slab around weeping tile at vertical sump outside perimeter of the crusher Bldg on the west end. EBA performed full suite of field concrete testing. Sept. 12th. - YZC (Gary MacFatrige) requested particle size analysis of both the fine aggregate stockpile at the batch plant and the reject sand from kilometre 17. EBA began particle size determination. Notes: -All testable material placed by ACL was tested for compaction and passed at 95% standard proctor value. All other material was visually inspected for compaction. - EBA conducted test slump in approx 60% of loads for concrete temperature, slump, entrained air plus casting specimens every 50 to 70 m³, depending on the pour volume. -EBA shipped all due for testing concrete cylinders to EBA Whitehorse laboratory. -ACL continued dewatering process over 24 hour period with two pumps, one at NW corner of mill Bldg and another at SE corner.
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Worked Hours: Ricardo Colaci; 4 days x 12hrs + 1 day x 7 hrs = 55 hours
Mackenzie Ingram: 3 days x 12 = 36 hours
Justin Piggage, EBA 3 days x 12 hrs = 36 hours

Prepared by: Ricardo Colaci

Reviewed by:



Key Personnel:

Ricardo Colaci, EBA (left site Sept. 10th, noon)
Mackenzie Ingram, EBA (left site Sept. 8th, AM) and
Justin Piggage, EBA (arrived on site Sept. 10th, 9 AM)
Brad Osaduik, Stanley Zhang & Larry Lebedoff, YZC (on site)
Clive Creaney, Jamie Swanson and Gary MacFatrige, YZC (arrived on site Sept. 8th, AM)
Jack MacKenna, (ACL)



WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: SEPT 13TH - 19TH, 2009

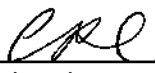
EBA FILE: W14101095.005

Weather:	Mostly Overcast w/some Periods of Light Rain Temp from 5 to 20 degrees C.
Tasks:	Sept 13th - EBA personnel was on site and available for geotechnical liaison during the day shift. Sept 14th - EBA completed inspection and approval for bearing surface within the Crusher Bldg on the west end. - IDL poured 18m³ for inside footing pads at west end of Crusher Bldg. EBA conducted concrete tests for temperature, slump and air; plus casting 6 cylinders on T75 on sampled concrete placed at gridlines 2/B.5 Sept. 15th. - EBA observed drilling at the crusher pad, one hole at 6m outside the building foot print and one at 55 feet inside the building. The drilling took place under the direction of Jamie Swanson. - EBA completed a sieve for and reported the results to Gary Mc Fatridge. - Compaction test at km 14 for a 1200m CSP installation. - EBA conducted compaction tests on the drainage ditch located north of the Mill Bldg. ACL installing perforated PCP pipes and drainage tile leading to a Sump located at the NE section of the mill pad and piped under the access road to an outlet draining to rip-rap and culvert south of lower bypass road. - Jamie Swanson and EBA inspects and confirms collapsed Rock Anchor test hole, 6m by 12 noon, and then collapsed to 1.6m by 4:30pm. Sept. 16th. - Report three sieve analysis sheets to Gary regarding a new mix for concrete. - Jamie Swanson notes that there will be no more test hole for rock anchors. - Jerry Quaile, of YES, requested road surface compaction tests. EBA will continue doing compaction tests to compile data. - EBA tested for compaction at top the drainage trench north of the Mill Bldg. Sept. 17th. - IDL finished forming grade beam walls 5A to B5, Crusher Bldg. Concrete pour from 18:00 Pm to 19:30 PM. EBA tested concrete for temperature, slump and air content. - ACL continued installation of 1200mm CSP km 15, along with re-working of the road surface. EBA conducted compaction tests on the backfill surrounding the culvert and the road surface fill. - ACL continues work at the drainage ditch, north of the Mill Bldg site and constructing the access road to the Gen-set pad located west of the CLO Bldg. - ACL is backfilling with one lift placed along wall 15, inside the Mill Bldg. <i>Cont'd next page</i>

Tasks	<i>Cont'd from previous page</i> Sept. 17th. - IDL batch a new concrete mix using new material crushed by ACL and approved by YZC. At 4:30 PM, EBA conducted a full Test 76, including 6 cylinders. Rest of concrete was poured into lock blocks. Sept. 18th. - ACL requested compaction tests at km 15m, on both the culvert backfill and the road fill. - ACL continues to place weeping tile and perforate PVC pipe and backfilling the drainage ditch north of the Mill Bldg. - ACL's backfilling of line 15 of the Mill Bldg continues in consecutive lifts. - IDL batch and pours footings at the Crusher Bldg, EBA tested concrete for temperature, slump and air content, plus 6 cylinders casted for T 77. Sept. 19th. - ACL is working at km 15, the culvert is completely in place and the road fill continues. - ACL is still backfilling along line 15 between C15 and F15. - At the Crusher Bldg weeping tile is being placed and backfill is going in around the pipes. Not ready for EBA to density test. - ACL progresses at backfilling the drainage ditch located north of the Mill Bldg. - ACL placing material on top of MSE Wall 2A. Notes: -All testable material placed by ACL was tested for compaction and passed at 95% standard proctor value. All other material was visually inspected for compaction. - EBA conducted test slump in approx 60% of loads for concrete temperature, slump, entrained air plus casting specimens every 50 to 70 m3, depending on the pour volume. -EBA shipped all due for testing concrete cylinders to EBA Whitehorse laboratory.
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Worked Hours: Mackenzie Ingram, EBA 5 days x 12 = 60 hours
 Justin Piggage, EBA 2 days x 12 hrs + 1 day x 3 hrs = 27 hours

Prepared by: Ricardo Colaci, from notes recorded by Mackenzie Ingram & Justin Piggage

Reviewed by: 

Key Personnel: Mackenzie Ingram, EBA (arrived on site Sept. 15th. 9 AM) and
 Justin Piggage, EBA (left site Sept. 15th. 10 AM)
 Brad Osaduk, Stanley Zhang & Larry Lebedoff, YZC (left site Sept. 17th. AM)
 Clive Creaney, Jamie Swanson and Gary MacFatrige, YZC
 Owen Pickle, (ACL)

WEEKLY FIELD TESTING REPORTDATES: SEPT 20TH - 26TH, 2009**INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING****WOLVERINE LAKE MINE SITE, YUKON**

EBA FILE: W14101095.005

Weather:	Mostly sun & clouds, Temp from 2 to 12 degrees C.
Tasks:	Sept 20th - IDL batch and poured 109 m3 at Rod Mill Feed Bin foundation. Pour started at 13:30 hrs and ended at 17:15 hrs. EBA tested several air, temperature and slump tests; conducting full test T78 and T79, casting 6 cylinders in each (12 in total). - ACL backfilling along Line 15 between C15 and F15, Mill Bldg. - ACL backfilling at the drainage ditch located north of the Mill Bldg. Sept 21st. - IDL batched and poured 109 m3 of concrete into Line 2, CLO Bldg. EBA conducted concrete tests for temperature, slump and air; plus casting 6 cylinders on T 80. Campo Verde is at the batch plant to test concrete before the trucks leave for the pour site. Campo Verde and EBA record nearly identical results. - Small pour at the crusher pad, a footing near the rear wall. EBA conducted a full test, including 6 cylinders on T 81. Sept. 22nd. - ACL is backfilling in the mill building along Line 15 around F and E. - ACL's work at km 14 continues, ACL is working on a substantial fill. - The Gen-set pad is being extended at the south-western corner. New material placed and packed. - Backfill along Line H of the Mill Bldg tested by EBA for compaction. Sept. 23rd. - ACL backfilling Line H, between H10 and H13, Mill Bldg. - ACL backfilling between Line H and Line F from Line 1 to Line 12, Mill Bldg. EBA tested. - ACL requested testing final grade of the road surface at km 14. - At the Gen-set Pad, final lift was placed. - Some excavation, backfilling and compaction done in the CLO along Lines 6A to Line 6G and Line G from Line 6G to Line 3G. - ACL placing and compacting between Lines H-F from Line 1-12, Mill Bldg. Sept. 24th. - ACL backfilled to sub-grade elevation, section between Line F1-H1 and F15-H15. Compaction test results were variable. ACL will continue compacting next day. - ACL compacting for final grade at CLO Bldg, between Line 6 and Line 3. By end of shift dug a trench for ground wire placement. Trench was backfilled and compaction started, but not finished. - IDL placing forms on top of Rod Mill foundation. - EBA inspected road work between kilometers 14 to 17. <i>Cont'd next page</i>

Tasks	<i>Cont'd from previous page</i> Sept. 25th. - ACL continued backfilling-compacting to sub-grade elevation (1357.7m), sections between Line F1-H1 and F15-H15. EBA tested for compaction and passed. Backfill continued. - ACL continued compacting ground wire trench; backfilled in lifts of 200 mm. - IDL continued placing forms on top of Rod Mill foundation. - EBA inspected road work and culvert placement at km 16.1; took 4 density tests. Sept. 26th. - ACL finished backfilling-compacting to sub-grade elevation of 1357.7m, section around F13 and OH door G13; excavating for new foundation forms around Rod Mill location and backfilling outside Rod Feed Bin. EBA tested for compaction just South of F13 column and failed at -0.3 m. Crew lead-man said that a big lift was un-compacted below. ACL will evaluate removal. Backfill continued. - ACL continued backfilling-compaction at both sides of Line 2 of the CLO Bldg. Compaction was approved on W side at elevation 1355.6m (+/-). - ACL started backfilling at the bottom of vent-rise shaft (multi-plate structure). Crew worked placing material by hand and ramming it with 2x4 studs. Unable to use mechanical compactor. - IDL continued placing forms on top of Rod Mill foundation and started 7 new foundation forms around Rod Mill location. Notes: -Testable material placed by ACL, tested for compaction, passing at 95% of standard proctor value. - EBA conducted test slump in approx 60% of loads for concrete temperature, slump, entrained air plus casting specimens every 50 to 70 m³, depending on the pour volume. -EBA shipped all due for testing concrete cylinders to EBA Whitehorse laboratory.
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Worked Hours: Mackenzie Ingram, EBA 4 days x 12 hrs + 1 day x 5 hrs = 53 hours
 Ricardo Colaci, EBA 3 days x 12 hrs = 36 hours

Prepared by: Ricardo Colaci, from notes recorded by Mackenzie Ingram.

Reviewed by: 

Key Personnel: Mackenzie Ingram, EBA (left site Sept. 24th. 10 AM) and
 Ricardo Colaci, EBA (arrived on site Sept. 24th. 9 AM)
 Brad Osaduk, Stanley Zhang & Larry Lebedoff, Clive Creaney, Jamie Swanson, YZC
 Owen Pickle, (ACL)

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: SEPT 27TH – OCT 3RD, 2009

EBA FILE: W14101095.005

Weather:	Mostly cloudy some snow, Temp from -6 to 7 degrees C.
Tasks:	Sept 27th - ACL continued backfilling at the side and bottom of vent-rise shaft (multi-plate structure). EBA was requested by owner to monitor work. Crew continued placing material by hand and ramming it with 2x4 studs. Unable to use mechanical compactor. - ACL continued backfilling-compaction at both sides of Line 2 of the CLO Bldg. Compaction was approved on W side at elevation 1355.9 (+/-). Placement stop at West side of wall (Line 2), to wait for forms placement for new foundation under future scale location. East side placement continued. Backfill placement outside Rod Feed Bin continued between elevations 1356.4 m to 1357 m (+/-) or 1.4m below sub-grade elevation. Testing by Randall Springer, QC for ACL. - IDL continued placing forms on top and around Rod Mill foundation. Sept 28th. - ACL continued backfilling at the side and bottom of vent-rise shaft (multi-plate structure) until noon, when work stop. Crew was assigned to other sites. EBA tested for compaction and all tests failed. ACL will reassume compaction at a later date. - ACL continued backfilling-compaction at East side of Line 2 of the CLO Bldg. Backfill placement outside Rod Feed Bin continued between elevations 1357.2 m and 1357.6 m. ACL also backfilling trench from SW corner of CLO to ditch # 6. EBA did not test for densities at neither of these due to monitoring vent-rise shaft backfill and concrete testing. - IDL forming crew continued placing forms on top of Rod Mill foundation. - IDL batch 22 m3 of concrete for 7 foundations just W and S of Rod Mill foundation location. Pour started at 14:30 PM and ended at 5:00 PM. EBA tested every truckload for slump, air entrainment and concrete temperature. EBA cast a set of 6 cylinders (T 82). Sept. 29th. - ACL continued backfilling-compaction at East side of Line 2 of the CLO Bldg, now in its final lift between D2 to G2. Some material between G-E had to be removed and replaced with dry material. - Backfill placement outside Rod Feed Bin continued between elevations 1357.7 m and 1357.8 m. Tested by Randall Springer. ACL finished backfilling trench with CSP from SW corner of CLO to ditch # 6 with one big lift. EBA was not called for testing. - IDL forming crew continued placing forms on top of Rod Mill foundation. - IDL was to supply concrete for Gisborne guard posts placement at CLO, but it cancelled by IDL at 17:15 hrs. Sept. 30th - ACL continued backfilling-compaction at East (elevation 1357.6 m) and West side of Line 2, elevation 1356.4 m, CLO Bldg, between A2 to D2. ACL is not following specs <i>Cont'd next page</i>

Tasks	<i>Cont'd from previous page</i> Sept. 30th (cont'd) - regarding placing at both sides and maintaining equal elevation. ACL excavating at Mill Bldg for foundations for mineral separation bath. - IDL forming crew continued placing forms on top of Rod Mill foundation. - IDL batched and supplied 7 m3 of concrete for the Gisborne Group for wall guard posts placement at CLO. Pour started at 9:45 AM and finished at 11:20 AM. EBA conducted slump, air entrainment and concrete temperature test, plus cast 4 specimens for strength test determination (T83). Oct. 1st - ACL continued backfilling-compaction at East (now at grade elevation) and West side (elevation 1357.2 m) of Line 2 of the CLO Bldg, between A2 to D2. ACL still excavating and hauling from Mill Bldg at foundations for mineral separation baths. - Work re-assumed at vent-rise shaft. Crew was directed to backfill as per YZC e-mail and instructions. EBA tested for compaction and failed. ACL will continue compacting - IDL forming crew continued placing forms on top of Rod Mill foundation. - IDL supplied 24 m3 of concrete for placement at various columns around S and W sides of mill bldg grounding area and rod mill footing foundation (drawing E0-15-041). Pour started at 3:25 PM and finished at 7:40 PM. EBA conducted slump, air entrainment and concrete temperature test, plus cast 6 specimens for strength test determination (T84). Oct 2nd - ACL continued backfilling-compaction at East (now at grade elevation) and West side (grade elevation of 1357.8 m), Line 2 of the CLO Bldg, between A2 to D2. ACL still excavating and hauling from Mill Bldg at area of mineral separation baths. - Work continued at vent-rise shaft. EBA did not test for compaction. - IDL forming crew continued placing forms on top of Rod Mill foundation. - IDL supplied 16 m3 of concrete for placement at various columns around S and W sides of Mill Bldg grounding area and rod mill footing foundation (drawing E0-15-041). Pour started at 4:30 PM and finished at 8:00 PM. EBA conducted slump, air entrainment and concrete temperature test, plus cast 6 specimens for strength test determination (T85). - YZC approved usage of new concrete mix design, as per EBA's Technical Memo 003. - Southwest Contracting Ltd arrived on site for rock-anchor bolts installation at the Crusher Bldg, where the vibrating screen plant foundation is to be installed. Drilling by McCows Drilling & Blasting Ltd. Oct 3rd. - ACL continued backfilling / compaction at East (now at grade elevation) and West side (grade elevation of 1357.8 m), Line 2 of the CLO Bldg, between A2 to D2. EBA tested for compaction at several spots of the CLO and Mill Bldg. ACL still excavating and hauling from Mill Bldg at area of mineral separation baths. - Work continued at vent-rise shaft. EBA did not test for compaction. <i>Cont'd next page</i>
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Oct 3rd. (cont'd)

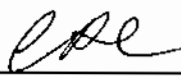
- IDL forming crew continued placing forms on top of Rod Mill foundation.
- IDL supplied 16 m3 of concrete for placement on 3 columns around N & E sides of grounding area and rod mill footing foundation, located N of C12 and East of Line 13 and up to Line 15, mill bldg (drawing E0-15-041). Pour started at 4:30 PM and finished at 8:00 PM. EBA conducted slump, air entrainment and concrete temperature test, plus cast 6 specimens for strength test determination (T86).
- Southwest Contracting Ltd started at 7 AM the drilling and installation of DYWIDAG Micro-piles rock-anchor bolts at the Crusher Bldg, Line 3, where the foundations for vibrating screen plant is to be located. A Gardner-Denver Tracked Drill was used, owned & operated by McCows Drilling & Blasting Ltd. A total of 36 complete DYWIDAG Micro-piles and grouted as installed were completed by 11 PM. EBA observed most of those installations, except for the time required to be testing at mill bldg for concrete pour.

Notes:

- Testable material placed by ACL, tested for compaction, passing at 95% of standard proctor value at several spots of the CLO and Mill Bldg
- EBA conducted test slump in approx 60% of loads for concrete temperature, slump, entrained air plus casting specimens every 50 to 70 m3, depending on the pour volume.
- EBA shipped all due for testing concrete cylinders to EBA Whitehorse laboratory.

Worked Hours: Ricardo Colaci, EBA 7 days x 12 hrs = 84 hours

Prepared by: Ricardo Colaci

Reviewed by: 

Key Personnel: Ricardo Colaci, EBA (on site)
Brad Osaduik, Stanley Zhang & Larry Lebedoff, Clive Creaney, Jamie Swanson, YZC
Owen Pickle, (ACL)

**WEEKLY FIELD TESTING REPORT
INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING
WOLVERINE LAKE MINE SITE, YUKON**DATES: OCT 4TH – 10TH, 2009

EBA FILE: W14101095.005

Weather: Cloudy some clear skies with periods of winds - Temp from +2 to -10 degrees C.

Tasks: **Oct. 4th.**

- ACL continued finishing East side of Line 2, CLO Bldg, between A2 to D2, (now at grade elevation). ACL still excavating and hauling from Mill Bldg at area of mineral separation bath. Work continued at vent-rise shaft. EBA did not test for compaction.
- IDL forming crew continued placing forms inside Crusher Bldg, Grizzle foundation and on top of Rod Mill foundation.
- IDL supplied 200 m³ of concrete to the Gisborne Group for placement on the slab at CLO, between G6 to G3 and F3 to F6. Pour started at 11:00 AM and finished at 6:30 PM. EBA conducted slump, air entrainment and concrete temperature test, plus cast 18 specimens for strength test determination (T87, T88 and T89).
- Southwest Contracting Ltd started at 7 AM, complete pull tests on 12 Micropile anchor bolts of the first set of 24/36 installed DYWIDAG Micropiles rock-anchor bolts. The other 12 micropiles were proof-tested. EBA observed the tests and dial gauge readouts. Testing finished around 10 PM. All tests passed.

Oct 5th.

- ACL still excavating and hauling from Mill Bldg at area of mineral separation bath. Work continued at vent-rise shaft and it is half cover. EBA did not observe this backfill placement due to testing at crusher bldg micropiles installation.
- IDL forming crew continued placing forms inside Crusher Bldg, Grizzle foundation and on top of Rod Mill foundation.
- Southwest Contracting Ltd continued complete pull tests in 12 remaining installed DYWIDAG Micropiles rock-anchor bolts. Of the twelve, six of them were proof-tested. EBA observed tests and dial gauge readouts. Rock-anchor bolt 28 (installation number) failed due to sizing during drilling and assumed to have received poor or no-grouting. Failure was communicated by field personnel to EBA, YZC and Wardrop. Testing finished around 1 PM. All other tests passed.

Oct 6th.

- ACL work continued at vent-rise shaft and it is over half cover. EBA did not observe this backfill placement.
- IDL forming crew continued placing forms inside Crusher Bldg, Grizzle foundation and on top of Rod Mill foundation.
- ACL continued backfilling / compaction at East (elevation 1357.6 m) and West side (elevation 1356.4 m) of Line 2 of the CLO Bldg, between A2 to D2. ACL is not following specs regarding placing at both sides and maintaining equal elevation. EBA tested for compaction at CLO and Mill Bldg. ACL excavating at Mill Bldg at mineral separation bath foundations.

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Tasks:

*Cont'd from previous page***Oct 6th, (cont'd)**

- IDL supplied 7 m3 of concrete to the Gisborne Group for wall guard posts installation at CLO. Pour started at 9:45 AM and finished at 11:20 AM. EBA conducted T83.

Oct 7th,

- ACL work continued at vent-rise shaft and it is at access road level. EBA did not observe backfill placement.
- IDL forming crew continued placing forms inside Crusher Bldg, Grizzle foundation and on top of Rod Mill foundation. IDL batch plant operator, needed to conduct concrete tests to record how winter water- temperature affects frozen aggregates and the effect of the Hard-Cem component on the mix. EBA assisted in three trials, by measuring relevant data.

Oct 8th,

- IDL forming crew continued placing forms inside Crusher Bldg, Grizzle foundation and on top of Rod Mill foundation. IDL batch plant operator, needed to conduct concrete tests to record how winter water- temperature is affected by cold air and wind (evaporation) and the effectiveness of the super plasticizer component on the mix. EBA assisted in four trials, by measuring relevant data.
- EBA does density testing in the mill building surrounding the Rod and Ball mill foundation, compaction at 95% standard proctor value achieved. Some difficulty obtaining compaction has been noted due to frozen material.

Oct 9th,

- IDL pours floor slab concrete into the CLO Bldg, from lines B to line D and lines 2 to 6. The pour lasts 6.5 hours and calls for 180m3 of concrete. EBA conducted regular temperature, air and slump tests; plus three sets of 6 cylinders cast on T 90; T91 and T92.
- Gisborne finishing crew on site for the pour; worked all night to finish concrete.
- EBA completes density tests in the Mill Building surrounding the Rod and Ball mill foundation. Difficulty compacting soil due to frost continues.

Oct 10th,

- IDL batch and pours with its finishing crew 50 m3 into columns for Rod mill. IDL. EBA tested for temp; slump and air entrainment tests on all trucks. One set of six specimen cast on T93.
- EBA conducted density tests around the North side of the rod mill foundation.

Notes:

- Testable material placed by ACL was tested for compaction by EBA as requested and approved at 95% of standard proctor value at both Mill Bldg and CLO.
- Randall Springer, QC for ACL tested concrete at the batch plant before the trucks depart for pour site. This was implemented to avoid have to send truck back for batch correction. EBA recorded test results at pour site by conducting slump, temperature and air content, plus casting specimen as required.



Worked Hours: Ricardo Colaci; days: $3 \times 12 + 1 \times 15.5 + 1 \times 8 = 59.5$ hours
Mackenzie Ingram: $2 \times 12 + 1 \times 13.5 = 37.5$

Prepared by: Mackenzie Ingram from own notes and notes from Ricardo Colaci

Reviewed by: _____



Key Personnel: Ricardo Colaci, EBA (left site Oct 8th. AM)
Mackenzie Ingram, EBA (arrived on site Oct 8th. AM)
Stanley Zhang and Larry Lebedoff, Yukon Zinc Corp. (on site)
Brad Osaduik, Jamie Swanson (arrived on site on Oct 1st.)
Jack McKenna & Owen Pickle, (ACL)

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: OCT 10TH – 17TH, 2009

EBA FILE: W14101095.005

Weather:	Periods of overcast and winds, light snow once in a while- Temp from +2 to -10 degrees C.
Tasks:	Oct. 10 - IDL pours 50 m3 into columns for Rod Mill. IDL is also the finishing crew for this work. EBA tested for Temp, Slump and Air Entrainment on all trucks; plus casted one set of six specimens on T 93. - EBA conducted density tests around the North side of the rod mill foundation.
	Oct. 11 - IDL pours 23 m3 into the Rod Mill Feed Bin area. IDL is also the finishing crew for this work. EBA tested for Temp, Slump and Air Entrainment on all trucks; plus casted one set of six specimens on T 94. - EBA conducted Schmidt hammer tests inside the CLO Bldg to determine suitability of the floor slab to support parked concrete truck. Results are forwarded to EBA Whitehorse and YZC on site.
	Oct. 12 - IDL batched 80m3 of concrete to be poured into floatation pad footings, Mill Bldg. The pour starts off well with consistent slump and air results. EBA tested for Temp, Slump and Air Entrainment; plus casted one set of six specimens on T 95 at approx 35 m3. At 2:20 PM, pump truck malfunctioned and the pour was temporarily halted. Gisborne built a ramp and the remaining concrete was poured from the truck to a bobcat bucket to the ramp. Two trucks were on site for slightly over two hours before pouring; YZC's rep on site and approved the trucks stand-by time.
	Oct 13 - IDL batched 61.5m3 of concrete to be poured into the grizzly walls at the crusher building. EBA tested for Temp, Slump and Air Entrainment; plus casted one set of six specimens on T 96. Also 4m3 of concrete was batched and poured for sumps in the Mill Bldg. Gisbourne is the sub-contractor for the form work and finishing. Nightshift: - ACL placing-compacting material in the NW corner of the Mill Bldg. Material is very difficult to compact and reach the required compaction. Material is frozen while being placed. EBA recommended to the contractor that fill material be stockpiled, heated and hoarded prior to placement to ensure material is not frozen prior to placement and compaction. New material being used as fill. Material came from excavation at CLO Bldg. Sample # 8 taken for sieve analysis and proctor.
	Oct 14 - IDL batched 80 m3 of concrete for Gisborne to pour at floatation pad footing at Mill Bldg. EBA tested for Temp, Slump and Air Entrainment; plus casted one set of six specimens on T 97. Concrete temperature is low. The batch plant boiler not-working for

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Oct 14th. (cont'd)

- a while. Once boiler it's fixed, temperatures are within specs. Small amount of concrete is poured into sump foundation.

Nightshift:

- ACL continuing to place and compact material in the NW corner of the mill building. It continues to be difficult to compact and reach the required compaction due to material being frozen while being placed.
- ACL also excavating material in mill from lower area between lines 10 & 12 and lines C&E.

Oct 15th.

- IDL batched 52 m3 of concrete to be poured into the cone and jaw crusher walls. IDL is the finishing crew at this location. 47 m3 poured and the remaining concrete is placed into lock blocks. EBA tested for Temp, Slump and Air Entrainment; plus casted one set of six specimens on T 98.

Night Shift:

- ACL continuing to place and compact material in the NW corner of the Mill Bldg. ACL bringing to final grade the section between Lines 12-15 and Lines A-C, elev. 1358 m.
- Completed proctor and sieve from CLO Bldg excavation material. Material does not meet the gradation spec as a base course material but does meet the gradation spec for sub-base pit run (slightly dirty on the 75 micron).

Oct. 16th.

- IDL batched 180m3 of concrete for Gisbourne to be placed in the CLO Bldg. Pour started at 10:00am and finished at 7:30pm. Gisborne crew work a night shift to properly finish the floor slab. EBA tested for Temp, Slump and Air Entrainment; plus casted six specimens on each of tests T 99, T 100 and T 101.
- ACL continues to backfill in parts of the mill building as well as work to achieve grade by making cuts in areas where machine pads will be placed.

Nightshift:

- ACL continuing to place and compact material in the NW corner of the mill building.

Oct. 17th.

- IDL use a new mix design (004), for a pour; but the concrete is too dry. IDL continue using mix design 003 for the remainder of the pour. Concrete is poured and finished by IDL in the rod mill feed bin, as a floor slab. EBA tested for Temp, Slump and Air Entrainment; plus casted one set of six specimens on T 102 and T 103.
- Concrete is also poured at the Crusher Bldg; small footings prepared by IDL. EBA tested for Temp, Slump and Air Entrainment; plus casted one set of six specimens on T 104.

Nightshift:

- ACL backfilling around flotation area footings.

Notes:

All testable material placed by ACL was rested for compaction and passed at 95% standard proctor value. All other material was visually inspected for compaction.

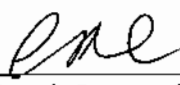
- EBA conducted test slump in approx 60% of loads for concrete temperature, slump, entrained air plus casting specimens every 50 to 70 m3, depending on the pour volume.

-EBA shipped all due for testing concrete cylinders to EBA Whitehorse laboratory.

Tasks:

Worked Hours: Mackenzie Ingram, EBA (dayshift) 7 days x 12 hrs = 84
Scott Dimitroff, EBA (nightshift) 4 days x 12 hrs = 48

Prepared by: Mackenzie Ingram and Scott Dimitroff, (EBA)

Reviewed by: 

Key Personnel: Mackenzie Ingram, Scott Dimitroff, EBA (on site)
Clive Creaney, Stanley Zhang and Larry Lebedoff, Brad Osaduik, Gary McFtridge,
Jamic Swanson Yukon Zinc Corp. (On site)
Jack McKenna & Don Carr, (ACL)

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: OCT 18TH – 24TH, 2009

EBA FILE: W14101095.005

Weather:	Periods of overcast and winds, light snow once in a while- Temp from +2 to -10 degrees C.
Tasks:	Oct. 18th. - IDL received Technical Memo with new mix design. More rock, less sand than yesterday's mix. EBA recommended Glenium be added with batch water to allow better mixing. EBA Met with Jamie Swanson (YZC) and IDL to discuss EBA's recommendations. EBA recommended to adjust slump adjustments with Glenium, not with water. - IDL batched 27m³ of concrete for Gisbourne to place into footings within floatation area, Mill Bldg. EBA tested for Temp, Slump and Air Entrainment on all trucks; plus casted one set of six specimens on T 105 and T 106. Nightshift: - ACL backfilling outside NW corner of crusher with a sandy, silty, gravel material. Oct. 19th. - Gisbourne, IDL and YZC approved new concrete mix. It was agreed by all that adding SP during batching is better. The slump requirement is higher than before. Due to concerns about large rocks contaminated in the mix, an extra set of grating has been placed in the pump hopper. It appears that a minimum of 140mm slump is required to prevent concrete from "plugging" on the grate. It is not clear from batch plant whether the mix is 150 litres water plus 2 litres SP/m³ as per EBA's latest revision or 166 litres water plus 1.3 litres SP/m³ as per a recent memo from YZC. Pour at Mill Bldg; sump, pad/fdn btwn C-D, 2 m E of Line 1. EBA tested for Temp, Slump and Air Entrainment on all trucks; plus casted one set of six specimens on T 107, T 108 and T 109. - ACL continues to backfill and compact areas of the mill building, EBA does several densities along the North wall between lines 10 to 15. All densities pass at 95% standard proctor value. Nightshift: - Work Stop due to industrial accident underground. Oct 20th. - No work due to total mine shutdown. Night Shift: - ACL backfilled on the outside of the crusher building in the SW corner. Approximately 1.2 metres of fill placed. Oct 21 - ACL backfilling and compacting in some areas of the Mill building. - Concrete pour at a paste sump pad in the Mill Bld. 4m³ of 30mpa concrete batched and poured. sump, btwn G-H, Lines 1 & 2. EBA tested for Temp, Slump and Air Entrainment on all trucks; plus casted one set of six specimens on T 110. Night shift: - ACL backfilled on the outside of the crusher building on the West and North side. Oct 22nd. - ACL backfilling along the North wall of the mill building. Backfill between A and B from <i>cont'd next page</i>

Tasks:	<i>cont'd from previous page</i> Oct 22nd. (Cont'd) - Line 1 to line 15 all tested. - ACL backfilling outside the Crusher Bldg between the MSE Wall and the building. IDL batched concrete for Gisbourne to pour at the floatation area, Line D & Line 11, Mill Bldg. Pour started at 5:00 PM, ended at 7 PM. EBA tested for Temp, Slump and Air Entrainment on all trucks; plus casted one set of six specimens on T 111. Nightshift: - ACL completed backfilling on the outside of the crusher building on the West and North side. All lifts were compacted and tested and met 95 %. - ACL also completed backfilling the N hole for the grizzly on the inside of the crusher. Oct. 23rd. - IDL pours concrete for Gisbourne at the Gen-set Pad. Over 72m3 are poured. EBA tested for Temp, Slump and Air Entrainment on all trucks; plus casted one set of six specimens on T 112. - IDL also pours concrete for Gisbourne in the Concentrate load out building. A tirestop retaining wall is poured, using about 16m3 of 30 mpa concrete. EBA tested for Temp, Slump and Air Entrainment on all trucks; plus casted one set of six specimens on T 113. - ACL backfilling at the crusher building along Line 1.1. - ACL continued backfilling areas of the mill building around the de-water section. EBA tested for compaction. - ACL backfilling around the vent raise, EBA tested for compaction. Nightshift: - ACL backfilling of middle and southern holes inside crusher (grizzly). The middle hole had 500mm of material at start of night shift. Not clear whether a lift had been compacted and tested during day shift. ACL subsequently placed one 600mm lift in the S hole. EBA instructed to remove 300mm prior to beginning compaction and to keep subsequent lifts to 250mm to 300mm thick (loose). - Grizzly was backfilled to final grade. All lifts were tested and met 95% compaction. Note – Final lift in middle was placed but not compacted at end of shift. - ACL had planned to work on backfill in the mill building but forming subcontractor was working and in the way. Oct. 24th. - ACL compacted another small section around the de-watering area of the Mill Building. - ACL continues to place backfill around the vent raise. - IDL pours concrete for IDL's form workers at the Fixed Bearing in the Mill Building. EBA tested for Temp, Slump and Air Entrainment on all trucks; plus casted one set of six specimens on T 114. - IDL then pours concrete for Gisbourne in the floatation area, pedestals and tie beams, Mill Bldg. EBA tested for Temp, Slump and Air Entrainment on all trucks; plus casted one set of six specimens on T 115. Nightshift: - ACL completed backfilling of holes outside crusher @ SW and SE corners. ACL placed and compacted 1 metre fill in Crusher Bldg base between lines B & B.4 and lines 3 & 4. ACL backfilling-compacting in the floatation area between lines B & E and lines 10 & 11, Mill Bldg <i>cont'd next page</i>
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Tasks	<i>cont'd from previous page</i> Notes: -All testable material placed by ACL was tested for compaction and passed at 95% standard proctor value. All other material was visually inspected for compaction. - EBA conducted test slump in approx 60% of loads for concrete temperature, slump, entrained air plus casting specimens every 50 to 70 m3, depending on the pour volume. -EBA shipped all due for testing concrete cylinders to EBA Whitehorse laboratory.
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Worked Hours: Mackenzie Ingram, EBA 6 days x 12 hrs. + 1 x 13.5 hrs = 85.5 hrs
Scott Dimitroff, EBA 5 days x 12 hrs = 60 hrs

Prepared by: Mackenzie Ingram and Scott Dimitroff, (EBA)

Reviewed by: _____

Key Personnel: Mackenzie Ingram, (dayshift), Scott Dimitroff, (nightshift) both EBA (on site)
Clive Creaney, Stanley Zhang and Larry Lebedoff, Brad Osaduik, Gary McFatridge, Jamie Swanson Yukon Zinc Corp. (On site)
Jack McKenna & Don Carr, (ACL)

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: OCT 25TH – 31ST, 2009

EBA FILE: W14101095.005

Weather:	Periods of overcast and some blizzard conditions with strong winds-Temp from +2 to -10 degrees C.
Tasks:	Oct. 25th. - ACL backfilling around the crusher building during night shift. EBA tested for compaction and made a final check on the sump area of the building. - IDL batch 70m3 for Gisbourne. Pour at tailings thickener foundation started at noon and finished at 6:45 PM. EBA conducted concrete test T116. - ACL backfilling around some of the flotation pad footings. EBA tested for compaction. - YZC requested EBA to do a surface test with Schmidt Hammer at the Ball Mill fixed bearing column. The area needs to be repaired using a grout. Nightshift: - ACL began backfilling/compacting in the flotation area W of line 8. Approximately one metre of fill was placed/compacted in this area. All fill stockpiled within the mill building was used up by end of shift. Oct. 26th. - ACL backfilled around the crusher building during night shift. EBA tested on the sump area of the building. ACL did not backfill today. Most of the time was focused on bringing material indoors for heating and hording. - IDL batch 55.3 m3 for Gisbourne, at 8 AM. Pour went into the weigh scale base at the concentrate load out building. EBA conducted concrete test T117. - IDL batch 34 m3 for a slab at the Gen-set pad; placement is by IDL crew. Pour started at 1:00pm and finished at 3 PM. EBA conducted concrete test T118 Nightshift: - ACL continued backfilling/compacting in the flotation area W of line 8. Approximately one metre of fill was placed/compacted in this area. All fill stockpiled within the mill building was used up by end of shift. Fill material was "trammed in" with the loader continuously from 3 AM on. Oct 27th. - ACL backfilling inside the mill building along line 15 between lines B-E. EBA tested the compacted area. - IDL production started at 4:30 PM due to batch plant crew change. IDL batch 20m3 of concrete for Gisbourne for placing in a flotation footing within the mill building. EBA conducted concrete test T119. Nightshift: - ACL backfilled around the outside of the tailings thickener. Material used came from excavation of material inside Mill Building. ACL excavated material from regrind area of Mill Building. Oct 28th. - IDL begins to pour for IDL in the mill building 8m3 is batched for some small anchor bolt pedestals around the rod and ball mill foundation. EBA conducted concrete test T120. <i>cont'd next page</i>

Tasks:

*cont'd from previous page***Oct 28th. (cont'd)**

- IDL batches 96m³ for Gisbourne to place in the mill building paste plant floor slab. EBA conducted concrete test T121.

Nightshift:

- Concrete poured in Mill Building. Two sump bases between D & E and 3 & 4 were poured. Also poured THK - 041 pad between C & D and 3 & 4. Approximately 24 m³ of concrete poured. EBA conducted concrete test T122.
- ACL excavated material from outside the S side of crusher to allow grounding cable to be placed. Excavation process was slow due to frozen ground.

Oct 29th.

- EBA Field Residents Technicians' rotation. Mackenzie Ingram & Scott Dimitroff left site and Ricardo Colaci arrived on site.
 - ACL finished compacting inside mill bldg, just E of rod mill foundation. EBA tested for compaction.
 - IDL batched 32m³ for the Gisbourne Group. Pour was placed into 16 columns/tie-beams supporting flotation equipment inside mill building. Pour started at 4:30PM and finished at 7:30 PM. EBA conducted concrete test T123.
 - IDL forming crew continued work at the grizzle foundation.
- Nightshift: EBA's nightshift was released from site.**
- ACL backfilled with material outside the S side of crusher. EBA has not nightshift QC for placement and/or compaction

Oct 30th.

- IDL batched 48m³ for the Gisbourne Group. Pour was for floor slab in the area between A12- B12 and A15-B15 inside mill building. Pour started at 11 AM and finished at 2:30 PM. EBA conducted concrete test T124.
- IDL forming crew continued work at the grizzle foundation.

Oct 31st.

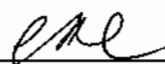
- No concrete placed today. At the end of dayshift, IDL cancelled batching / pouring.

Notes:

- All density tests conducted passed at 95% of standard proctor value.
- EBA tested concrete mixer loads for temperature, air and slump plus casting 6 cylinders for every 50-100 m³ (approximately) of pour.
- EBA made frequent rounds on the jobsite, attended meetings as required and shipped concrete specimen to EBA's Whitehorse laboratory for compressive load testing.

Worked Hours: (4 days of 2 techs at 12 hours each/day = 96 hours
+ 3 days of 1 tech x 12 hrs/day = 36 hrs)

Prepared by: Ricardo Colaci, with own notes and notes from Mackenzie Ingram & Scott Dimitroff

Reviewed by: 

Key Personnel: Mackenzie Ingram, Scott Dimitroff, EBA (on site until Oct 29th)
Ricardo Colaci, EBA (arrived on site Oct 29th)
Clive Creaney, Stanley Zhang, Brad Osaduik, (On site)
Larry Lebedoff, (arrived on site Oct 29th) all Yukon Zinc Corp.
Jack McKenna & Don Carr, (ACL)



WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: NOV 8TH – 14TH, 2009

EBA FILE: W14101095.005

Weather:	Periods of sun & clouds. Overcast & Snow at times, with strong winds. Temp -4 to -13 degrees C.
Tasks:	Nov 8th, - IDL batched 144 m3 for the Gisborne Group. Pour was placed in a section of slab between lines B2-B4 and F2-F4. Pour started at 9:10 AM and ended at 3:30 PM. EBA conducted Concrete Tests 136 and 137, casting 6 cylinders for each set. - IDL batched 8 m3 for WL Construction. Pour was placed as mud-slab for future foundation of Lime Silo, located just E of the Rod Bin Transfer. Pour started at 1:40 PM and ended at 2:00 PM. EBA did not test this concrete. Nov 9th, - IDL batched 8 m3 for WL Construction. Pour was placed in an outside slab just west of the Fuel Tank Farm. Pour started at 11:00 AM and ended at 11:30 PM. EBA did not test this concrete. - IDL batched 144 m3 for the Gisborne Group. Pour was placed in a section of slab between lines B5-B6 and A5-A6. Pour started at 1:30 PM and ended at 3:50 PM. EBA conducted Concrete Test 138, casting 6 cylinders for each set. - IDL batched 24 m3 for a pour by its forming crew at the Crusher Bldg. Pour was placed in the elevated slab and 3 columns. Pour started at 4:15 PM and ended at 7:00 PM. EBA conducted Concrete Test 139, casting 6 cylinders. Nov 10th, - No concrete pour today. WL Construction is thawing the ground for the boiler pad that will be located 3 m East of Gen-set pads. Nov 11th, - IDL batched 23 m3 for the Gisborne Group. Pour was placed in two sections of mill bldg. One was on compressors footings on top of the slab between lines A1-A4 and B1-B4. The other area of pour was for Paste Plant, Water Tanks & Reagent area; between lines F1-F4 and H1-H4 as shown in Dwg. E0-15-801 for several footing, beams and pedestal. Pour started at 11:30 AM and ended at 3:00PM. EBA conducted Concrete Test 140, casting 4 cylinders. - IDL batched 30 m3 for WL Construction. Pour was outside for the Lime Silo footings Pour started at 3:45 PM and ended at 5:45 PM. EBA tested in situ all truckloads for temperature air and slump. - At 5:30 PM, the Gisborne Group requested 2 m3 for a sump located S of Line B8-B9 and W of C8. Nov 12th, - IDL batched 8 m3 for WL Construction for a mud-slab outside the crusher bldg. Pour was for foundation of aggregate. Pour started at 1:15 PM and ended at 1:50 PM. EBA did not tested this mud-slab - ACL dayshift continued backfilling with material inside the mill building between floatation foundation areas. <i>cont'd next page</i>

Tasks:*cont'd from previous page***Nov 13th.**

- IDL batched 96 m3 for Gisbourne Construction for retaining walls inside the CLO Bldg. Pour started at 9:15 PM and ended at 3:00 PM. EBA on site to test for slump, air, and cast 4 cylinders on T 141.
- IDL batched 196 m3 for Gisbourne for the slab area of re-grind foundation; Mill Bldg. Pour began at 3:30 PM and ended at 1:00 AM, Nov. 14th. EBA tested for slump, air and to cast 3 sets of 6 cylinders on T 142, T 143 and T 144.
- ACL dayshift continued backfilling with material inside the Mill Bldg between floatation foundation areas.

Nov 14th.

- ACL dayshift continued backfilling with material inside the Mill Bldg between floatation foundation areas.

Notes:

- EBA tested concrete mixer loads for temperature, air and slump plus casting 6 cylinders for every 50-100 m3 (approximately) of pour or every time batching re-started.
- EBA made frequent rounds on the jobsite, attended meetings as required and shipped concrete specimen to EBA's Whitehorse laboratory for compressive load testing.
- ACL dayshift backfilled with granular material inside the mill and crusher building foundations areas. No density testing was done by EBA until final grade. ACL nightshift ceased to work on the evening of Nov. 10.

Worked Hours: Ricardo Colaci, EBA (dayshift) 5 days x 12 hrs + 1 day x 7 hrs = 67 hrs
 Mackenzie Ingram, EBA (dayshift) 2 days x 12 hrs = 24 hrs
 Total= 91 hours.

Prepared by: Mackenzie Ingram w/notes from Ricardo Colaci.

Reviewed by: 

Key Personnel: Ricardo Colaci, EBA (left site Nov 13 PM)
 Mackenzie Ingram, EBA (arrived on site Nov 13 PM)
 Clive Creaney, Stanley Zhang and Jaime Swanson, Yukon Zinc Corp. (On site)
 Larry Lebedoff, Yukon Zinc Corp. (left site Nov 10 AM)
 Jack McKenna & Don Carr, (ACL)

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: NOV 8TH – 14TH, 2009

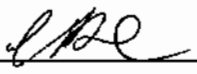
EBA FILE: W14101095.005

Weather:	Periods of sun & clouds. Overcast & Snow at times, with strong winds. Temp -4 to -13 degrees C.
Tasks:	Nov 8th. - IDL batched 144 m3 for the Gisborne Group. Pour was placed in a section of slab between lines B2-B4 and F2-F4. Pour started at 9:10 AM and ended at 3:30 PM. EBA conducted Concrete Tests 136 and 137, casting 6 cylinders for each set. - IDL batched 8 m3 for WL Construction. Pour was placed as mud-slab for future foundation of Lime Silo, located just E of the Rod Bin Transfer. Pour started at 1:40 PM and ended at 2:00 PM. EBA did not test this concrete. Nov 9th. - IDL batched 8 m3 for WL Construction. Pour was placed in an outside slab just west of the Fuel Tank Farm. Pour started at 11:00 AM and ended at 11:30 PM. EBA did not test this concrete. - IDL batched 144 m3 for the Gisborne Group. Pour was placed in a section of slab between lines B5-B6 and A5-A6. Pour started at 1:30 PM and ended at 3:50 PM. EBA conducted Concrete Test 138, casting 6 cylinders for each set. - IDL batched 24 m3 for a pour by its forming crew at the Crusher Bldg. Pour was placed in the elevated slab and 3 columns. Pour started at 4:15 PM and ended at 7:00 PM. EBA conducted Concrete Test 139, casting 6 cylinders. Nov 10th. - No concrete pour today. WL Construction is thawing the ground for the boiler pad that will be located 3 m East of Gen-set pads. Nov 11th. - IDL batched 23 m3 for the Gisborne Group. Pour was placed in two sections of mill bldg. One was on compressors footings on top of the slab between lines A1-A4 and B1-B4. The other area of pour was for Paste Plant, Water Tanks & Reagent area; between lines F1-F4 and H1-H4 as shown in Dwg. E0-15-801 for several footing, beams and pedestal. Pour started at 11:30 AM and ended at 3:00PM. EBA conducted Concrete Test 140, casting 4 cylinders. - IDL batched 30 m3 for WL Construction. Pour was outside for the Lime Silo footings Pour started at 3:45 PM and ended at 5:45 PM. EBA tested in situ all truckloads for temperature air and slump. - At 5:30 PM, the Gisborne Group requested 2 m3 for a sump located S of Line B8-B9 and W of C8. Nov 12th. - IDL batched 8 m3 for WL Construction for a mud-slab outside the crusher bldg. Pour was for foundation of aggregate. Pour started at 1:15 PM and ended at 1:50 PM. EBA did not test this mud-slab - ACL dayshift continued backfilling with material inside the mill building between flotation foundation areas. <i>cont'd next page</i>

Tasks:	<i>cont'd from previous page</i> Nov 13th. - IDL batched 96 m3 for Gisbourne Construction for retaining walls inside the CLO Bldg. Pour started at 9:15 PM and ended at 3:00 PM. EBA on site to test for slump, air, and cast 4 cylinders on T 141. - IDL batched 196 m3 for Gisbourne for the slab area of re-grind foundation; Mill Bldg. Pour began at 3:30 PM and ended at 1:00 AM, Nov. 14th. EBA tested for slump, air and to cast 3 sets of 6 cylinders on T 142, T 143 and T 144. - ACL dayshift continued backfilling with material inside the Mill Bldg between floatation foundation areas. Nov 14th. - ACL dayshift continued backfilling with material inside the Mill Bldg between floatation foundation areas. Notes: - EBA tested concrete mixer loads for temperature, air and slump plus casting 6 cylinders for every 50-100 m3 (approximately) of pour or every time batching re-started. - EBA made frequent rounds on the jobsite, attended meetings as required and shipped concrete specimen to EBA's Whitehorse laboratory for compressive load testing. - ACL dayshift backfilled with granular material inside the mill and crusher building foundations areas. No density testing was done by EBA until final grade. ACL nightshift ceased to work on the evening of Nov. 10.
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Worked Hours: Ricardo Colaci, EBA (dayshift) 5 days x 12 hrs + 1 day x 7 hrs = 67 hrs
Mackenzie Ingram, EBA (dayshift) 2 days x 12 hrs = 24 hrs
Total= 91 hours.

Prepared by: Mackenzie Ingram w/notes from Ricardo Colaci.

Reviewed by: 

Key Personnel: Ricardo Colaci, EBA (left site Nov 13 PM)
Mackenzie Ingram, EBA (arrived on site Nov 13 PM)
Clive Creaney, Stanley Zhang and Jaime Swanson, Yukon Zinc Corp. (On site)
Larry Lebedoff, Yukon Zinc Corp. (left site Nov 10 AM)
Jack McKenna & Don Carr, (ACL)

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: NOV 15TH – 21ST, 2009

EBA FILE: W14101095.005

Weather:	Periods of sun & clouds. Overcast & Snow at times, with strong winds. Temp -4 to -13 degrees C.
Tasks:	Nov 15th. - IDL batched 38m³ of concrete for Gisborne to place in the Mill Bldg. Part of the concrete pour into two separate sumps, and part towards the stairwell base. EBA tested for slump, air and to casted 6 cylinders on T 145. - ACL dayshift continued backfilling with material inside the Mill Bldg between floatation foundation areas. EBA on site to test for compaction. Nov 16th. - IDL batched 188 m³ for Gisborne to place as a floor slab within the Mill Bldg. The pour started at 9:40 am and finished at 6:30 pm. EBA tested for slump, air and temp; plus casted two sets of 6 cylinders each on T 146 and T 147. - ACL dayshift continued backfilling with material inside the Mill Bldg between floatation foundation areas. EBA on site to test for compaction. Nov 17th. - IDL batched 74m³ of concrete for Gisborne to place as a floor slab in the Mill Bldg. Some of the concrete goes towards machine pads and retaining curbs, but most of it goes towards the floor slabs. EBA tested for slump, air and temp; plus casted 6 cylinders on T 148. - WL Construction is thawing the ground for the boiler pad that will be located 3 m East of Gen-set pads. - ACL dayshift continued making cuts and compacting material inside the Mill Bldg between floatation foundation areas. Nov 18th. - ACL dayshift continued making cuts and compacting material inside the Mill Bldg between floatation foundation areas. - IDL does not batch any concrete today. EBA takes the time to catch up on paperwork and organize EBA's Lab. - WL construction continues to prepare forms and rebar on the gen-set pad as well as some areas around the crusher building. - Gisborne continues to prepare forms and rebar in the Mill Bldg. Gisborne is working on sections of floor slab and machine pads. Nov 19th. - ACL dayshift continued making cuts and compacting material inside the Mill Bldg between floatation foundation areas. - IDL batched out 38 m³ of concrete for WL construction to place as an aggregate hopper foundation. The material is placed into formwork on the south side of the crusher building. EBA tested for slump, air and temp; plus casted 6 cylinders on T 149. - WL construction continues to prepare forms and rebar on the gen-set. - Gisborne continues to prepare forms and rebar in the Mill Bldg. Gisborne is working on sections of floor slab and machine pads. Nov 20th. - ACL dayshift continued making cuts and compacting material inside the Mill Bldg between floatation foundation areas. - IDL did not batch any concrete today. <i>cont'd next page</i>

Tasks:	<i>cont'd from previous page</i> Nov 20th. (cont'd) - WL construction continues to prepare forms and rebar on the gen-set pad as well as some areas around the crusher building. - Gisborne continues to prepare forms and rebar in the Mill Bldg. Gisborne is working on sections of floor slab and machine pads. Nov 21st. - IDL batched 106 m3 for Gisborne to place as a floor slab in the floatation area of the Mill Bldg. The pour begins at 11:00 and finishes at 3:30. EBA tested for slump, air and temp; plus casted 6 cylinders on T 150. - IDL also batched 4 m3 for WL construction to place a transformer pad foundation. EBA tested for slump, air and temp; plus casted 6 cylinders on T 151. - WL construction continues to prepare forms and rebar for the boiler pump house. - Gisborne continues to work on the forms and rebar placement of the glycol station house. Gisborne also working on forms and rebar in various areas of the Mill Bldg. Notes: - EBA tested concrete mixer loads for temperature, air and slump plus casting 6 cylinders for every 50-100 m3 (approximately) of pour or every time batching re-started. - EBA made frequent rounds on the jobsite, attended meetings as required and shipped concrete specimen to EBA's Whitehorse laboratory for compressive load testing. - ACL dayshift backfilled with granular material inside the mill and crusher building foundations areas. No density testing was done by EBA until final grade.
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Worked Hours: Mackenzie Ingram, EBA (12 hours a day x 7 days= 84 hrs.)
Total= 84 hours.

Prepared by: Mackenzie Ingram, EBA

Reviewed by: 

Key Personnel: Mackenzie Ingram, EBA
Brad Osaduk, Stanley Zhang and Jaime Swanson, Larry Lebedoff, Yukon Zinc Corp.
(On site)
Jack McKenna & Owen Pickle, (ACL)

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: NOV 22ND – 28TH, 2009

EBA FILE: W14101095.005

Weather:	Periods of sun & clouds. Overcast & light snow at times, with light winds. Temp -3 C to -13 C.
Tasks:	Nov 22nd. - WL construction placed 77 m³ of concrete at the boiler pump house pad. Pour started at 10:25 AM and finishing at 1:25 PM. IDL supplied the concrete. EBA conducted concrete Test 152. - IDL supplied 64m³ for Gisbourne to be placed at the Octagon structure, located between lines 5-6 and F-G, in the mill building. Most of the concrete was used there and some remaining concrete is placed in several anchor bolts and machine pads located in the de-watering area. The pour begins at 3:15 PM and ended at 9:00 PM. EBA conducted concrete Test 153. - ACL continued backfill at the crusher building on a lift 1.2m below grade. Nov 23rd. - WL construction placed 7 m³ of concrete at the pipe bridge footing 2. EBA conducted concrete Test 154. - IDL supplied 24 m³ for Gisbourne to place in the mill building. The concrete was poured onto an octagon shaped base located between lines 6-7 and F-G. Pour starts at 3:30 PM and ended at 6:00 PM. EBA conducted concrete Test 155. An additional 16 m³ is placed at Octagon 3, located between lines 7-8 and F-G. Pour begins at 6:00 PM and ended at 7:30PM. EBA conducted concrete Test 156. - ACL continues to backfill in the crusher building, EBA tested for compaction. Nov 24th. - IDL supplied 32 m³ for Gisbourne to be placed in the Glycol Tank foundation. Pour started at 9:00 AM and ends at 11:00 AM. EBA conducted concrete Test 157. - IDL batched another 1.5 m³ for WL to be placed as sauna tubes at the pipe bridge footing 2. EBA conducted concrete Test 158. - IDL batched 40 m³ of lean-crete for transformer pad at ACL camp. - ACL continues to backfill in the crusher building. EBA conducted a compaction test on a lift at sub-grade. EBA tests passed. Nov 25th. - IDL batched 27 m³ for the mine air heater pedestals. The concrete was placed by WL Construction. The first two loads contain 2% accelerator and the remaining loads have 1%. EBA conducted concrete Test 159. - IDL batched 35 m³ meters for Gisbourne to place at the tailings thickener. Only the walls and wall pedestals are poured due to rebar work needed to be finished on the interior pedestals. EBA conducted concrete Test 160. - ACL continued excavating and grading areas in the mill building in preparation for the re-bar crews to begin on the floor slab. - Gisbourne continues to work on areas of the mill building both on the floor slabs and on the upper mezzanine floors. <i>cont'd next page</i>

Tasks:

*cont'd from previous page***Nov 26th.**

- IDL batched 11 m3 meters for Gisbourne to place at the tailings thickener columns outside the mill bldg. Pour started at 10 AM and ended at 11:30 AM. EBA did not test this pour due to EBA's personnel rotation-shift change.
- IDL batched 4 m3 meters for Gisbourne to place over floor slab between A1-B1 to A6.5-B6.5 floor area. Pour was for various beams, foundations, curbs and columns as per drawing OE-15-201. EBA conducted test T161.
- Gisbourne continued work on areas of the mill building both on the floor slabs and on the upper mezzanine floors.

Nov 27th.

- IDL batched 58 m3 meters for Gisbourne to place at the first floor mezzanine inside mill bldg. between floor areas by columns A15-B15 to A11-B11. Pour started at 10:30 AM and ended at 5:30 PM. EBA conducted test T162.
- IDL batched an additional 69 m3 meters for Gisbourne to place a floor slab between columns H4-F4 to H6.75-F6.75. This is the area for paste plant, water tanks and reagent location. Pour was as per drawing OE-15-802. Pour started at 5:45 PM and ended at 9:30 PM. EBA conducted test T162.
- Gisbourne continued working on the mill building floor slabs and the 2nd floor mezzanine and in the Concentrate Load-Out building (CLO) scale area.

Nov 28th.

- ACL requested a density test at grade elevation of the crusher bldg. Tests passed. ACL is excavating outside crusher bldg, just E of it and S of Gabion Retaining Wall.
- IDL batched 14 m3 meters for WL Construction. Pour was for the glycol base at the gen-set area. Pour started at 11:30 AM and ended at 1:30 PM. EBA conducted tests on 2 truckloads.
- IDL delivered 2 m3 for Gisbourne to pour at various locations inside mill bldg, such as curbs between floor area by columns A4-B4 and as mud slab at south base of foundation of rod mill. Another curb to be poured was not signed off. Pour started at 1:30 PM and ended at 3:30 PM due to concrete time-out.
- IDL batched 6 trucks for Gisbourne for a total of 48 m3 to be poured on the 2nd floor mezzanine between floor areas comprised by columns A15-B15 to A11-B11. These batches were adjusted to facilitate pumping to the second floor elevation. The adjustment decision was made between YZC and EBA, to reduce the 20mm aggregate in 200 kg/m3 and substitute it with an equal amount of sands, acknowledging that final strength of 30 MPa might not be achieved. Lower strength was deemed OK for a mezzanine floor. Pumping was greatly improved. Pour started at 3:30 PM and ended at 5:30 PM. EBA conducted Test 164. On EBA field record sheet, this mix was recorded as "00M" for mezzanine.

Notes:

- EBA tested most concrete mixer loads for temperature, air and slump plus casting 6 cylinders for every 50-100 m3 (approximately) of pour or every time batching re-started. Specimen casted are indicated as in the daily entry with its Test Number
- EBA made frequent rounds on the jobsite, attended meetings as required and shipped concrete specimen to EBA's Whitehorse laboratory for compressive load testing.
- ACL backfilled in several slab and foundations areas with granular material around the mill and crusher building. All areas tested passed at 95% standard proctor value.
- Gisbourne continued work all week on the Mill, Crusher and Concentrate Load-Out Buildings, respectively on re-bars set-up and floor slabs, scale area and slab re-bars set-up.



Worked Hours: Mackenzie Ingram, EBA (left site Nov 24th. AM) 12 hrs/day x 4.5 days = 54 hrs.
Ricardo Colaci, EBA (arrived on site Nov 24th. AM) 12 hours/day x 3 days= 36 hrs.
Total= 90 hrs.

Prepared by: Ricardo Colaci, w/notes from Mackenzie Ingram

Reviewed by: 

Key Personnel: Mackenzie Ingram, EBA
Ricardo Colaci, EBA
Brad Osaduik, Stanley Zhang and Larry Lebedoff, Yukon Zinc Corp. (on site)
Jack McKenna & Owen Pickle,
ACL (on site)

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: DEC 6TH – 12TH, 2009

EBA FILE: W14101095.005

Weather:	Cold & Cloudy w/ periods of light snow. Temp -12 C to -20 C.
Tasks:	Dec 6th. - IDL batched and delivered 54 m3 of concrete for Gisborne for pouring at the remaining slab wrap-around the scale inside the Concentrate Load-out Bldg. Pour started at 10:00 AM and ended at 2:00 PM. EBA sampled concrete for Test 176. - IDL delivered the remaining 4 m3 on the mixer truck to WL Construction to pour with the pump at End Bent pedestals of pipe bridge. Pour started at 2:00 PM and ended at 2:30 PM. - Next, IDL batched and delivered 8 m3 of concrete for Gisbourne for pouring at sump located at Line 11-12/G-H of the Mill Bldg. Crane & bucket pour started at 4:00 PM and ended at 4:30 PM. - Next, IDL batched and delivered 12 m3 of concrete for Gisbourne for pouring at the elevated walls for the transformer located at the NE corner of the Mill Bldg. Pour started at 4:00 PM and ended at 5:00 PM. - IDL batched and delivered 23 m3 for WL Construction to pour with the pump truck at footing 1 of Conveyor 12 (6.552m from BL 5). Pour started at 5:00 PM and ended at 7:25 PM. EBA sampled concrete for Test 177. Dec 7th. - IDL batched and delivered 15 m3 of concrete for Gisborne for pouring at base and pedestals on various locations between columns 6-8/GH of the Mill Bldg; specifically on: Paste pump pads (drawing E0-15-802). Re grind curb 4.8-6.1/D and 6.5/D.7-E.2; Re grind pad E3-PBX-223/241; Re grind pedestals; Mill pads E3-PBX-209, 220, 217. Pour started at 10:30 AM and ended at 1:00 PM. - ACL requested a density test on the base preparation at the Vent-rise Heater Bldg. Due to the very cold conditions and high wind-chill, nuclear densometer readings were low; however compacting crew said that they just started compacting and more effort was needed it. Will re-test at later time. - IDL batched and delivered 176 m3 for WL Construction to pour with the pump truck at the Conveyor transfer tower 12; Bent 4 footing and pedestal (CNV 12 6552). Pour started at 2:45 PM and ended at 8:30 PM. EBA sampled concrete for Tests 178 & Test 179. Dec 8th. - IDL batched and delivered 16 m3 of concrete for Gisborne for pouring at transformer Top Half of the high blast walls and one 12' blast wall, located outside of the Mill Bldg. by NE corner. Pour started at 9:00 AM and ended at 11:20 AM. - Next, IDL batched and delivered another 3 m3 for Gisborne to pour with the pump at mezzanine elevated slabs - raised curbs around steel columns on the 2nd & 3rd floor of the Mill Bldg. Pour started at 1:30 AM and ended at 1:30 PM. - IDL batched and delivered 106 m3 for Gisborne for pouring at the Mill Bldg between 8-11/FH; 11-12.3/DE and 11-12/EH; specifically on: Paste slab BL 7.8-11/F-H and Mill slab 10-11/D-F. <i>cont'd next page</i>

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Dec 8th. (cont'd)

- Pour started at 2:45 PM and ended at 8:30 PM. EBA sampled concrete for Tests 180 & Test 181.

Dec 9th.

- IDL batched and delivered 8 m3 of concrete for WL Construction to pour at footing SK 10 of the conveyor, located on the East side of the Crusher Bldg. Pour started at 9:40 AM and ended at 10:10 AM. Next, IDL batched and delivered 9 m3 of concrete for WL Construction to pour at footing SK 12, Bent 2 of the conveyor, located on the East side of the Crusher Bldg. Pour started at 10:20 AM and ended at 11:00 AM. EBA conducted Test 182.
- IDL batched and delivered 17 m3 of concrete for WL Construction to pour at footing of Bent 6 of the conveyor, located on the South side of the Mill Bldg. Pour started at 11:40 AM and ended at 1:40 PM.
- IDL batched and delivered 17 m3 of concrete for Gisborne to pour at Tailings thickener round slab on grade located on the South side of the Mill Bldg. Pour started at 1:40 PM and ended at 3:10 PM.
- IDL batched and delivered another 29 m3 for WL Construction to pour with the pump at Bent # 7 of the conveyor, located on the South side of the Mill Bldg. Pour started at 3:00 AM and ended at 4:50 PM.
- IDL batched 3m3 of lean-crete for step-down forms at Vent Raise.
- IDL batched and delivered 10 m3 for WL Construction for pouring at conveyor tower foundation.

Dec 10th.

- IDL batched and delivered 40 m3 of lean-crete for WL Construction to pour at Pipe-bridge Footing just below Gen-Set pad. Pour started at 9:00 AM and ended at 10:00 AM.
- IDL batched and delivered 63 m3 of concrete for Gisborne to pour the last slab inside the Mill Bldg at BL 11-12/D-H. Pour started at 10:10 AM and ended at 1:50 PM. EBA conducted Test 183.
- IDL batched and delivered 16 m3 of concrete for Gisborne to pour at a slab between the tailings thickener and the Mill Bldg. Pour started at 1:50 PM and ended at 2:50 PM.
- Next, IDL delivered 2 m3 of concrete for WL Construction to pour at footing, located South of the Feed Bin. Pour started at 2:55 PM and ended at 3:20 PM.
- IDL batched and delivered 16 m3 of concrete for Gisborne to pour at Mill Transformer blast wall, pad and containment wall outside the Mill Bldg. Pour started at 2:50 PM and ended at 3:10 PM. EBA conducted Test 184.
- IDL batched and delivered 8 m3 of concrete for Gisborne to pour with crane and bucket at various curbs locations and octagons at 2m N of 5-6/F, inside the Mill Bldg; specifically: Re grind piers E3-CEL-029&054. Re grind curb on PBX-241/223. Re grind Pad E3-PSL-190; Mill stair pad BL 15/B-C. Pour started at 4:15 PM and ended at 5:10 PM.
- IDL batched and delivered another 29 m3 for WL Construction to pour with the pump at the conveyor 8, Bent # 1 footing, located just E of the Crusher Bldg. Conveyor 8 Bent 1 Pour started at 5:30 AM and ended at 6:40 PM.

Dec 11th.

- IDL batched and delivered 24 m3 of concrete for WL Construction to pour at SK 9 Footing (CVN 8; Bent 2). Pour started at 2:40 PM and ended at 4:30 PM. From same pump set-up, IDL delivered another 7 m3 of concrete for a pedestal just East of Bent 2. EBA conducted Test 185.

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Dec 11th. (cont'd)

- Next, IDL delivered 24 m3 of concrete for WL Construction to pour at footing SK 12 Footing (CVN 8; Bent 2), located South of the Feed Bin. Pour started at 5:30 PM and ended at 7:20 PM.

Dec 12th.

- IDL batched and delivered 9 m3 of concrete for Gisborne to pour at a footing and containment walls of the Mill Transformer Site. Pour started at 9:40 AM and ended at 11:30 AM. EBA conducted regular testing, recording temperature, slump and air content plus casting 6 cylinders on Test 186.
- Next, IDL delivered 3 m3 of lean-crete for WL Construction to pour at Vent Raise footing, located south of the Vent Raise Shaft. Pour started at 10:30 AM and ended at 11:20 AM.

Notes:

- EBA tested most concrete mixer loads for temperature, air and slump plus casting 6 cylinders for every 50-100 m3 (approximately) of pour or every time batching re-started. Specimen casted are indicated as in the daily entry with its Test Number
- EBA made frequent rounds on the jobsite, attended meetings as required and shipped concrete specimen to EBA's Whitehorse laboratory for compressive load testing.
- ACL backfilled in several slab and foundations areas with granular material around the mill and crusher building. All areas tested passed at 95% standard proctor value.
- Gisbourne, WL and Progressive sub-constructors continued work all week on the Mill, Crusher and Concentrate Load-Out Buildings, respectively on re-bars set-up and floor slabs, scale area and slab re-bars set-up.

Worked Hours: Ricardo Colaci, EBA (7 days, some extended hours = 93 hrs.)

Prepared by: Ricardo Colaci,

Reviewed by:  _____

Key Personnel: Ricardo Colaci, EBA (onsite)
Clive Creaney, Brad Osaduik, Stanley Zhang and Jaime Swanson, YZC. (on site)
Don Carr & Jack McKenna, ACL (on site)

WEEKLY FIELD TESTING REPORT

INFRASTRUCTURE CONSTRUCTION – QA/QC TESTING

WOLVERINE LAKE MINE SITE, YUKON

DATES: DEC 13TH - 19TH, 2009

EBA FILE: W14101095.005

Weather:	Very Cold; Cloudy w/ periods of snow. Temp -20 C to -33 C. Very high wind-chill
Tasks:	Dec 13th. - IDL delivered 3 m3 of lean-crete for WL Construction for a footing at SK 9 east of crusher bldg. Pour started at 11:00 AM and ended at 11:45 AM. Very cold weather made the lean-crete to cool down to near freezing as it was running down the chute. - Extreme cold weather prevents any concrete production and/or pour. YZC and general contractor had meetings with IDL and sub-contractors twice a day to monitor weather conditions and plan for next pour. It was decided that all concrete production would wait for weather to improve. Dec 14th. - Extreme cold weather prevents any concrete production and/or pour. EBA worked on paperwork catch-up and administrative tasks on site. Dec 15th. - IDL batched and delivered 4 m3 of concrete for Gisbourne to pour at thickener walls, joining Thickener and Mill Bldg. Pour started at 9:15 AM and ended at 10:00 AM. EBA conducted regular testing, recording concrete temperature, slump and air content. No cylinders cast. - Next, IDL batched and delivered 8 m3 for WL Construction to pour at SK 12, Conveyor 17; Bent 2 footing. Pour started at 10: 15 PM and ended at 11:00 AM. - Next, IDL batched and delivered 22 m3 of concrete for Gisbourne to pour at various cubs, bases and pedestals inside the Mill Bldg in the area of H9-F9-H10-F10 and octagon at F2-E2. Pour started at 10:35 AM and ended at 12:50 PM. EBA conducted Test 187. - Next, IDL batched and delivered 80 m3 for WL Construction to pour at various footings and pedestals; namely Conveyor 8 Bent 5 footing, Conveyor 12, Bent 4 and pedestal on top of footing just S of Feed Bin. Biggest pour went to Conveyor 17, Bent 5, near the Crusher Bldg; here concrete temperature dropped due to volume and very cold aggregate used by IDL. YZC representative witnessing the pour, authorized continuing unloading concrete. Re-bars and forms were warm and additional heat was provided to pour. Next morning visual inspection showed concrete started to cure. Pour started at 1:35 PM and ended at 7:00 PM. Dec 16th. - IDL batched and delivered 15 m3 of concrete for Gisbourne to pour at various bases, CCM room and pedestals inside Crusher Bldg. Pour started at 9:15 AM and ended at Noon. - Next, IDL batched and delivered 48 m3 for WL Construction to pour at pedestal of Conveyor 8, Bent 3, then to pedestal at Bent 8. Pour started at 10: 15 PM and ended at 11:00 AM. - Next, IDL batched and delivered 22 m3 of concrete for Gisbourne to pour at the cement silo base outside the Mill Bldg. Pour started at 2:35 PM and ended at 5:00 PM. EBA conducted Test 188. - Next, IDL batched and delivered 24 m3 of concrete for Gisbourne to pour at the Grizzle Bridge (West of Crusher). Pour started at 7:15 PM and ended at 8:30 PM. - Next, IDL batched and delivered 16 m3 for WL Construction to pour at Conveyor 12, <i>cont'd next page</i> <i>cont'd from previous page</i>

Dec 16th. (cont'd)

- Bent 2 pedestal. Pour started at 8:15 PM and ended at 9:15 PM. Concrete temperature was lower than specifications. YZC representative witnessing the pour, authorized continuing the pour; however it was agreed that concrete production and must stop until IDL heat the aggregates.

Dec 17th.

- IDL heated aggregates overnight. EBA held a meeting w/YZC to deal with concrete temperature.
It was stated that concrete must continue to finish the pouring schedule. IDL heated aggregates overnight. YZC & EBA requested for IDL to use an additional 300 Kg/load of cement powder and more accelerator. IDL was low in accelerator.
- IDL batched and delivered 59 m3 for WL Construction to pour at the Vent-raise footing. Pour started at 10:35 AM and ended at 2:00 PM. EBA sampled concrete for Test 189.
- IDL batched and delivered 2.5 m3 of concrete for Gisbourne to pour at the Grizzle Bridge Containment Wall (just West of Crusher Bldg). Another 2 m3 was pour at walls and pedestals at the cement silo. Pour started at 6:15 PM and ended at 8:00 PM. This delivery was the last scheduled concrete pour for this construction season.

Dec 18th.

- EBA started the day by removing lab equipment from field lab and closing it. Drove truck back to Whitehorse. Left YZ site at noon; arrived Whitehorse at 9 PM.

Dec 19th.

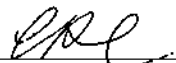
- EBA unloaded the equipment from field lab into EBA's Whitehorse Office.

Notes:

- EBA tested most concrete mixer loads for temperature, air and slump plus casting 6 cylinders for every 50-100 m3 (approximately) of pour or every time batching re-started. Specimen casted are indicated as in the daily entry with its Test Number
- EBA made frequent rounds on the jobsite, attended meetings as required and shipped concrete specimen to EBA's Whitehorse laboratory for compressive load testing.
- ACL backfilled in several slab and foundations areas with granular material around the mill and crusher building. EBA did not test due to extreme cold weather for Troxler Densometer to work.

Worked Hours: Ricardo Colaci, EBA (7 days, some extended hours = 93 hrs.)

Prepared by: Ricardo Colaci,

Reviewed by: 

Key Personnel: Ricardo Colaci, EBA (onsite)
Clive Creaney, Brad Osaduk, Stanley Zhang and Jaime Swanson, YZC. (on site)
Don Carr & Jack McKenna, ACL (on site)