2016 ANNUAL REPORT

QUARTZ MINING LICENSE QML-0009

March 2017

Prepared for:

YUKON GOVERNMENT - ENERGY, MINES AND RESOURCES

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1 INTRODUCTION

Alexco Keno Hill Mining Corp. (AKHM) was issued Quartz Mining License (QML) QML-0009 on November 17, 2009. A request for amendment of this License to include mining activities at the Lucky Queen and Onek 990 Mines was submitted in 2012 and approved January 13, 2013. On February 17, 2016, an amendment to the QML was issued to include the Flame and Moth Mine. Prior to this, letters of approval for preliminary development of the Onek 990 and Lucky Queen Mines were received in November 2012.

On August 20, 2010, type A Water Licence QZ09-092 was issued to AKHM for operation of the Bellekeno Mine and Mill. Subsequently, on September 7th, 2010, the Bellekeno Mine became a "mine under development" as defined in subsection 1(1) and subsection 1(2) of the federal *Metal Mining Effluent Regulations*. On May 16, 2013, AKHM received an amendment (QZ12-053) to Water Licence QZ09-092 to similarly include the Lucky Queen and Onek 990 Mines. This report serves to fulfill the reporting requirements of the QML as defined under paragraphs 12.5 of QML-0009 and Section 14.0 of the Monitoring and Surveillance Plan. The district operations were placed in temporary closure in September 2013; therefore, no mining or milling activities occurred in 2014, 2015 or 2016. Activities in 2014 to 2016 focused on care and maintenance, water treatment, and monitoring, with the additon of collaring the Flame and Moth portal and mill maintenance in 2016.

1.1 LOCATION

The Keno Hill Silver District (KHSD), owned and operated by AKHM, is located in the vicinity of Keno City (63° 55'N, 135° 29'W), in central Yukon, 354 km (by air) due north of Whitehorse. Access to the property is via a paved, two-lane highway from Whitehorse to Mayo (407 km) and an all-weather gravel road northeast from Mayo to Elsa (45 km); a total distance of 452 km. The property lies along the broad McQuesten River valley with three prominent hills to the south of the valley. Figure 1-1 shows the general project location within Yukon while Figure 1-2 shows the location on a smaller scale. The Bellekeno Mine is located about 3 km east of Keno City, the Onek 990 Mine is about 0.5 km to the northeast of Keno City ,the Keno Hill Silver District Mill site and Flame and Moth portal are about 1.2 km to the west (Figure 1-3), while the Lucky Queen Mine is about 4 km to the north of Keno City.

AKHM

AEG

ALEXCO KENO HILL MINING CORP.

QML ANNUAL REPORT

FIGURE 1-1

PROJECT LOCATION

MARCH 2016

D:\Project\All\Projects\ALEX-05-01\gis\mxd\Overview_Maps\Project-Location\Project_Location_MASTER_20160316.mxd
(Last edited by: amatlashevska; 3/16/2016/12:26 PM)

475,000 480,000 485,000

7,090,000

N W E S

Christal Creek
HANSON MCQUESTEN ROAD
Sandy Creek
Star Creek
No Cash Creek
SILVER TRAIL HIGHWAY
Christal Creek
WERNECKE ROAD
LUCKEY QUEEN NORTHWEST ACCESS
LUCKY QUEEN
KENO SUMMIT
Erickson Gulch
Chasey Gulch
SIGN POST ROAD
LIGHTNING CREEK ROAD
ONEK
BELLEKENO
CHRISTAL LAKE
CHRISTAL LAKE ROAD
KENO
VALLEY TAILINGS
NO CASH/BREFALT ACCESS
CALUMET DRIVE
BERMINGHAM ACCESS
GALENA HILL
ELSA
Porcupine Gulch
Brefalt Creek
Flat Creek
DISTRICT MILL SITE
DUNCAN CREEK ROAD
FLAME AND MOTH
Lightning Creek
SOURDOUGH TRAIL
Thunder Gulch
Fisher Creek
SOURDOUGH HILL

7,085,000

1:40,000 (when printed on 11 x17 inch paper)

0 0.5 1 2 Kilometres

475,000 480,000 485,000

National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced underlicense from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Satelite imagery obtained from Yukon Geomatics map service http://mapservices.gov.yk.ca/ArcGIS/services on March 2017

Datum: NAD 83; Map Projection: UTM Zone 8N

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Alexco Owned Quartz Claims

Silver Trail Highway

Other Road

Limited-Use Road

AKHM

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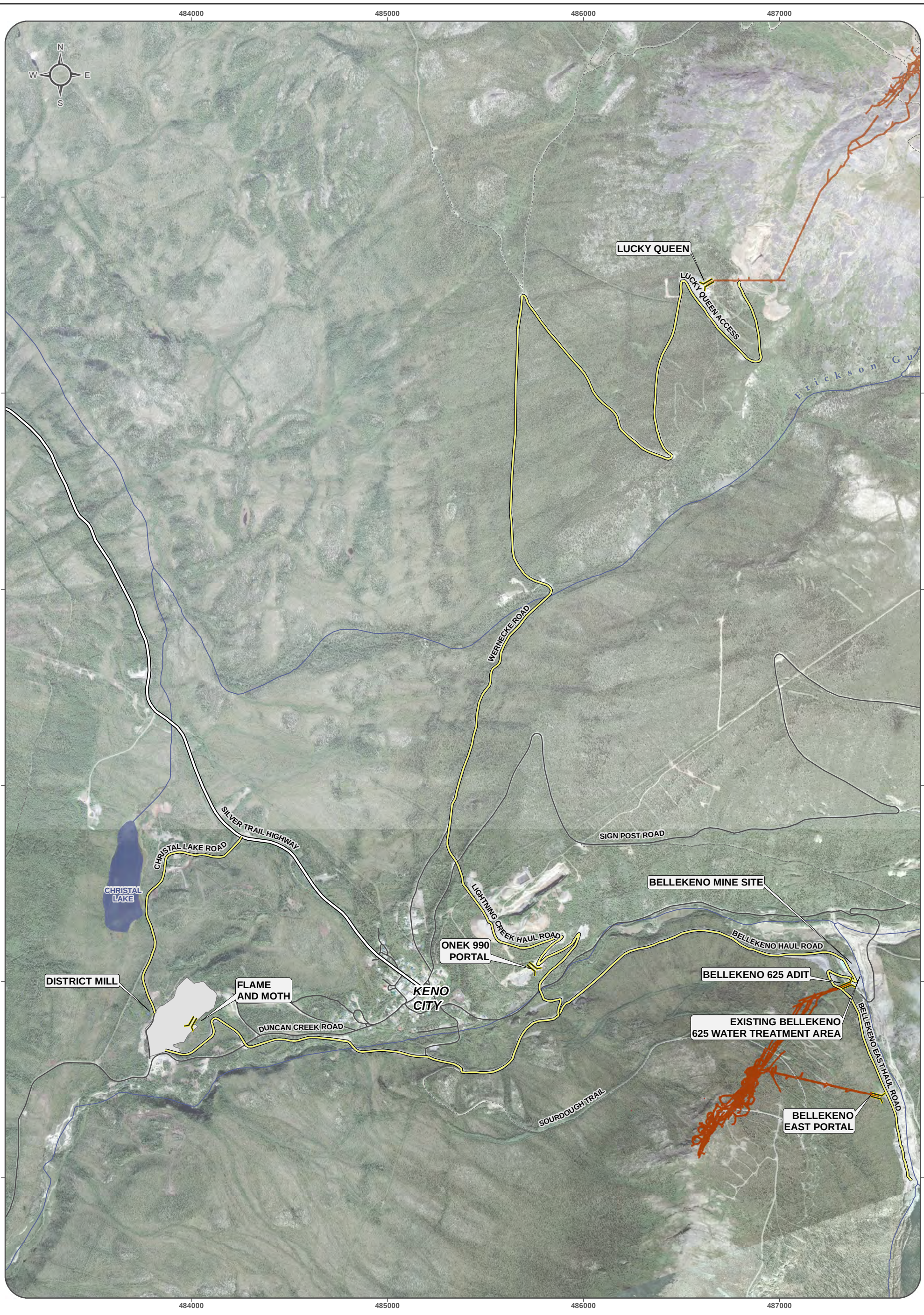
ANNUAL QUARTZ MINING LICENCE REPORT, QML-009

FIGURE 1-2
PROPERTY OVERVIEW

MARCH 2017

D:\Projects\AllProjects\Keno_Area_Mines\ALL-SITES\02-Map\01_Overview\01-Property Overview\01-District_WideView_Mines_Property_Overview_Tabloid_Landscape_20170327.mxd
(Last edited by: mducharme;3/27/2017;10:54 AM)



Satelite imagery obtained from Yukon Geomatics map service http://mapservices.gov.yk.ca/ArcGIS/services on March 2017
Contour data based on LiDAR data acquired in September 25th 2014

Datum: NAD 83; Projection: UTM Zone 8N

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1:18,000 (when printed on 11 x 17 inch paper)

0 100 200 400 600 800 Meters

- Adit
- Haul Road
- Underground Workings
- Silver Trail Highway
- Other Road
- Limited-Use Road

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FIGURE 1-3

BELLEKENO, FLAME AND MOTH, LUCKY QUEEN AND ONEK 990 LOCATION MAP

MARCH 2017

D:\Project\AllProjects\Keno_Area_Mines\ALL-SITES\02-Mapl\01_Overview\01-Property Overview\02-West_Side_of_District\BK_ON_FM_LQ_Tabloid_Portrait_20170327.mxd

2 MINING ACTIVITIES

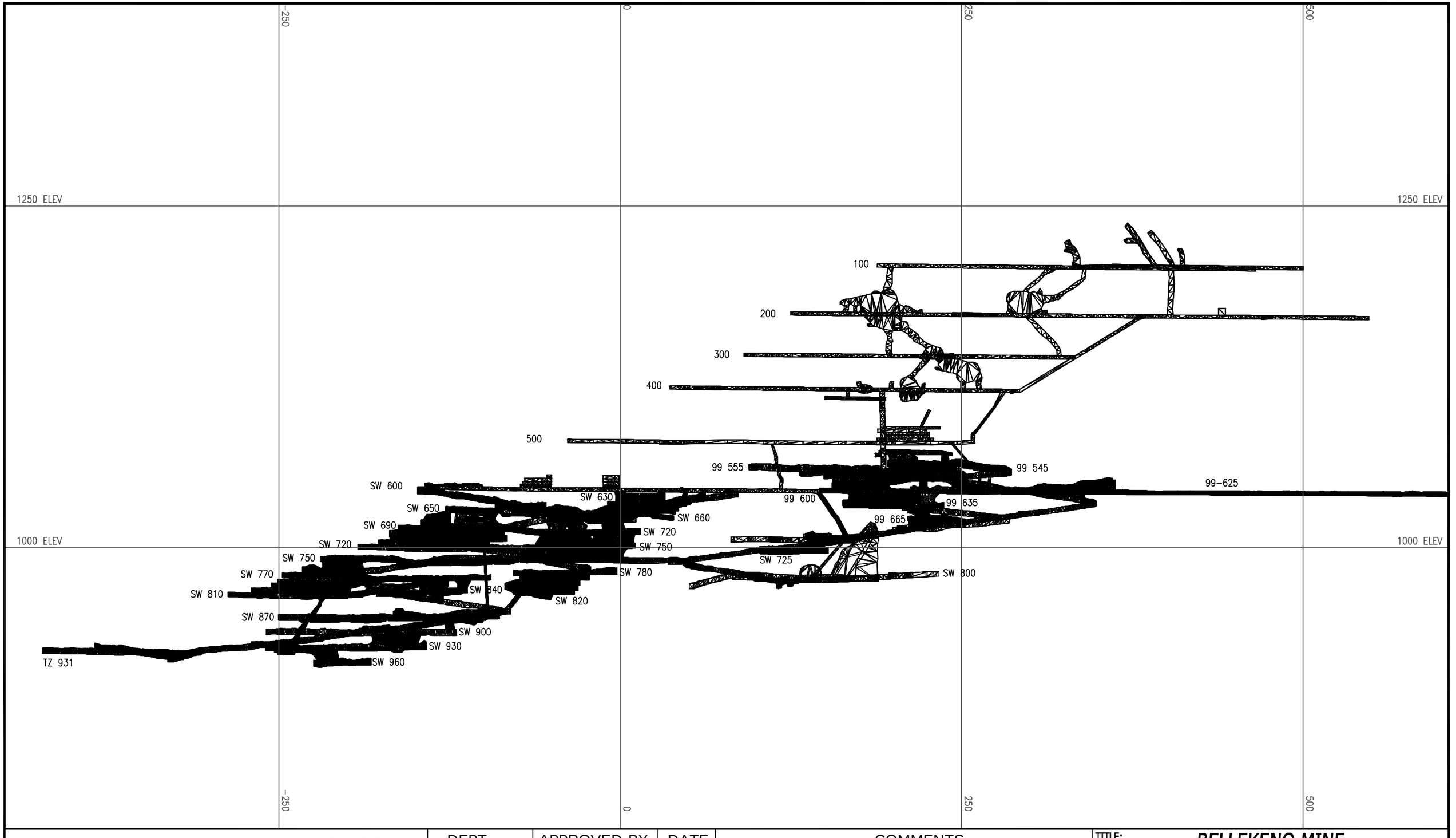
2.1 MINE SITES

2.1.1 Bellekeno

Underground development at Bellekeno was placed under temporary closure in September 2013 and no mining activities occurred in 2014 to 2016.

Production in 2013 focused mainly in the Southwest and 99 zones of the mine. The majority of development consisted of production mining of the Bellekeno ore body; specifically the SW and 99 Zone. In 2013 the CAPEX development was sustained in these zones. The waste rock development in 2013 focused on additional stope access within the Southwest and 99 zone as well as minor long term infrastructure development. The SW Main Ramp was extended down to the 930 and 960 levels for access to the lowest portion of the mine. Exploration drifting to the south of the known resources is continuing along what is termed the "Thunder Zone". As-built drawings for the Bellekeno underground workings can be seen in Figure 2-1.

Production activities were carried out in accordance with the Operation Plans submitted as per paragraph 11.1 of QML-0009, and as described in the Project Description of Water Licence Application QZ09-092 & QZ12-053.



ALEXCO

ALEXCO RESOURCE CORP
BELLEKENO MINE

DEPT.	APPROVED BY	DATE	COMMENTS
SURVEY			
ENGINEERING			
GEOLOGY			
ALEXCO MANAGER			
PROCON SUPER			

TITLE: **BELLEKENO MINE**
Long Section
Figure 2-1

Drawn by: *DARIN BAKER*	Scale: *1:2500*
Date: *07/28/2013*	Approval: Date:
File: *C:\Users\Darin Baker\Desktop\entire mine.dxf*	

2.1.2 Lucky Queen

Underground rehab at Lucky Queen Mine (LQ) continued throughout the entire year in 2012 and new CAPEX development was initiated in Q4 2012 and was suspended in 2013 to allow a re-evaluation of the project. Currently the project is on hold pending re-activation of the district mining operations and no activities occurred at LQ in 2014 to 2016.

There were no issues in regards to stability or permanent closures in 2014. Preliminary activities for LQ were approved under the current QML-0009 on November 30, 2012. As-builts for underground workings can be seen in Figure 2-2.

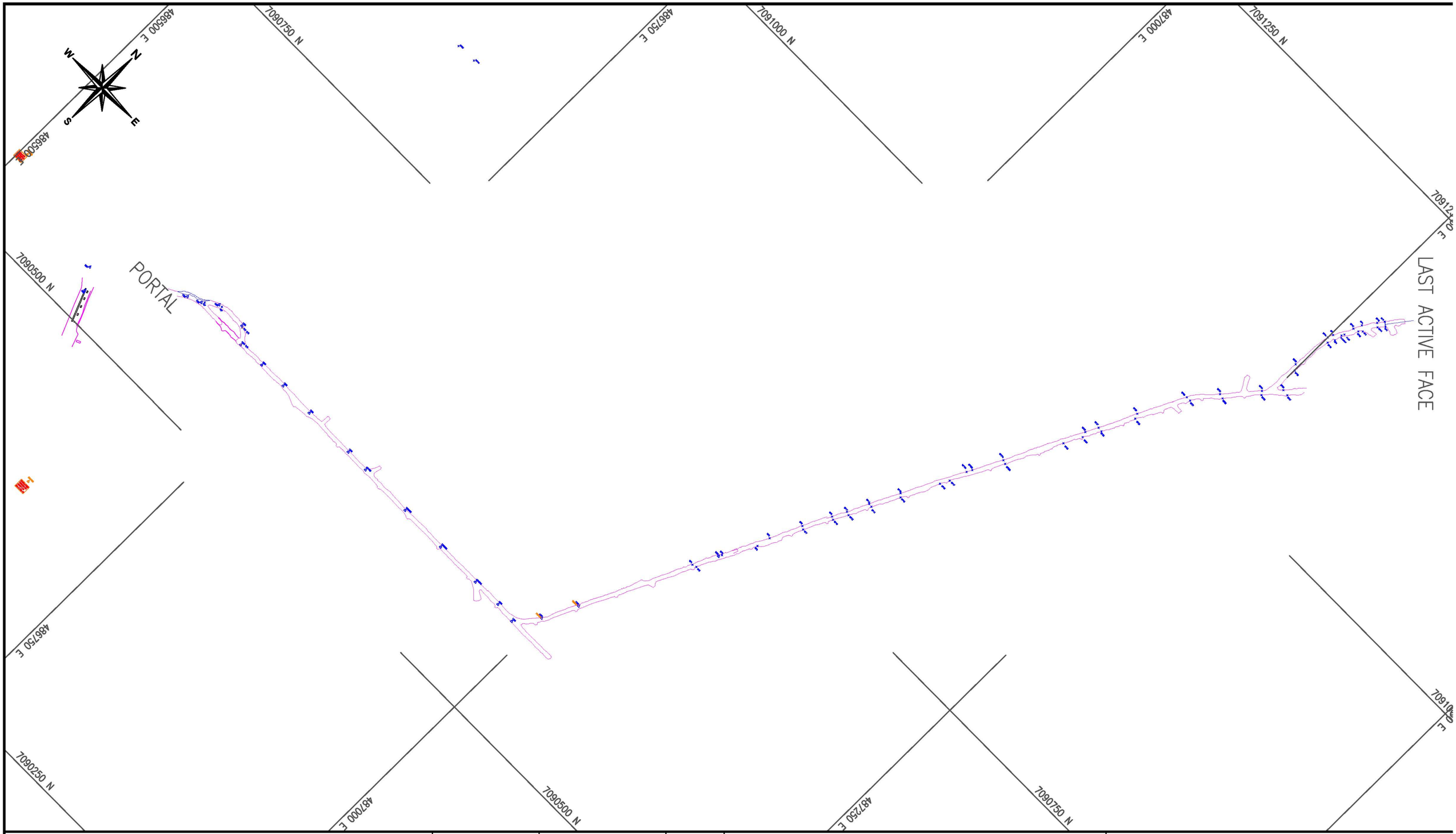
2.1.3 Onek 990

As discussed in the 2012 Pre-Season Summary Report submitted in March 2012, a new portal was to be prepared west of the historical Onek pit called Sign Post Portal. This development proceeded, however following continued community consultation, a new portal location, Onek 990, was found to be more suitable. The Onek 990 portal site is located near Lightning Creek.

New infrastructure for the Onek 990 portal began in August 2012 and included 2 km of road building, site preparation, portal preparation, and was 80% complete by the end of 2012. CAPEX development was initiated and continued into 2013. The Onek 990 portal pad includes a temporary office/dry, shop, compressor and generator shed, several out buildings. A lay down area on the historic Onek waste rock dump is also being used. A final detailed bridge design has been submitted, permitted and construction completed in 2013 to connect the Onek connector road into the BK Haul road. Preliminary activities for the Onek 990 Mine were approved under the current QML-0009 on November 9, 2012. There were no temporary or permanent closures or stability issues that occurred in 2013, 2014, 2015 or 2016. No activities occurred at Onek 990 in 2014 to 2016. As-builts for underground workings can be seen in Figure 2-3.

2.1.4 Flame & Moth

The Flame and Moth portal was collared using a multi plate, which included the excavation of 22.5 m, of this length 6 m was developed with dimensions of 5 x 5 m and 16.5 m was developed with dimensions of 3.7 x 3.7 m. The development included 1,215 tonnes of N-AML waste rock that was used to create laydown areas for the project within the current District Mill site footprint. Figure 2-4 shows the as-built drawing for the Flame and Moth portal. A photo of the Flame and Moth portal is shown in Figure 2-5.



ALEXCO RESOURCE CORP BELLEKENO MINE	DEPT.	APPROVED BY	DATE	COMMENTS	TITLE: LUCKY QUEEN MINE *Asbuilt March 8, 2013* Figure 2-2	
ALEXCO	SURVEY					
	ENGINEERING					
	GEOLOGY				Drawn by: *DARIN BAKER*	Scale: *1:2500*
	ALEXCO MANAGER				Date: *03/08/2013*	Approval: Date:
	PROCON SUPER				File: *C:\Users\Darin Baker\Documents\Drawing1.dwg*	

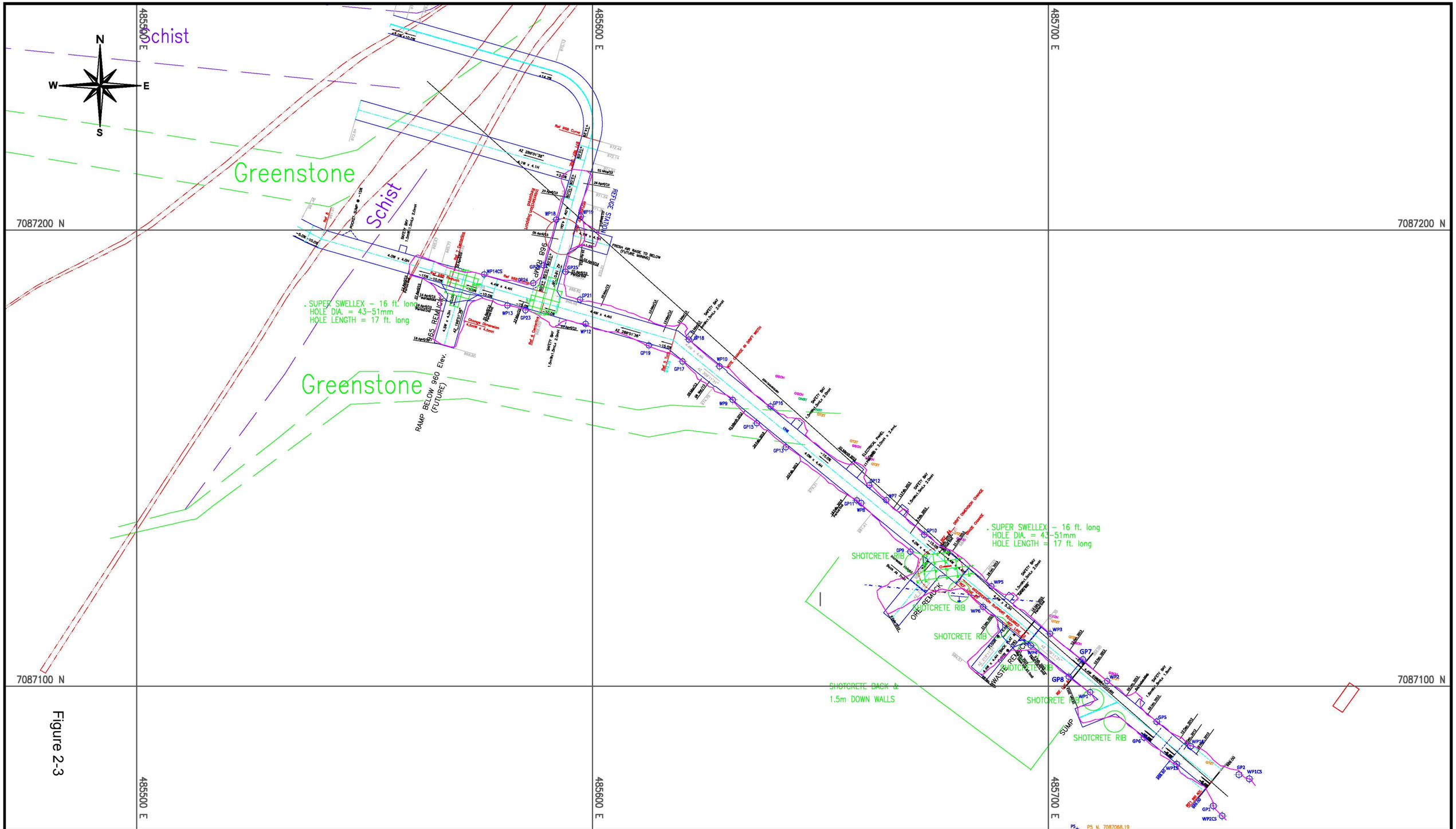


Figure 2-3

ALEXCO

ALEXCO RESOURCE CORP
BELLEKENO MINE

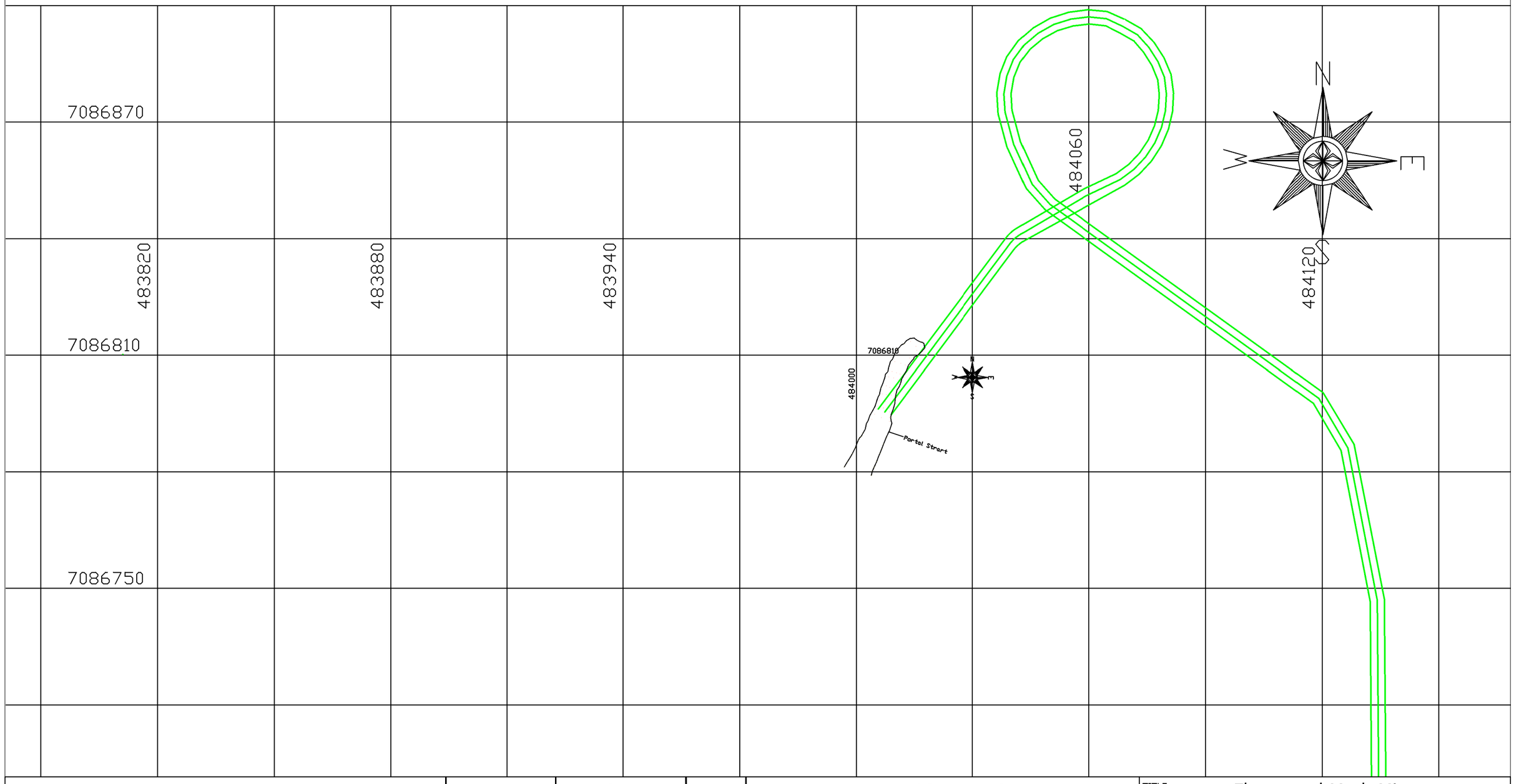
DEPT.	APPROVED BY	DATE	COMMENTS
SURVEY			
ENGINEERING			
GEOLOGY			
ALEXCO MANAGER			
PROCON SUPER			

TITLE: **ONEK**

ASBUILT 30 May 2013

Figure 2-3

Drawn by: *DARIN BAKER*	Scale: *1:750*
Date: *05/30/2013*	Approval: Date:
File: *H:\Bellekeno Underground\Development-Planning\Promine\promine draWi*	



ALEXCO RESOURCE CORP Flame & Moth Mine	DEPT.	APPROVED BY	DATE	COMMENTS	TITLE: Flame and Moth Mine Development Plan Figure 2-4	
	SURVEY					
	ENGINEERING					
	GEOLOGY				Drawn by: KF	Scale: As Shown
	ALEXCO MANAGER				Date: May 20, 2016	Approval: Date:
					File:	

Figure 2-5 Flame and Moth Portal

2.2 LIFE OF MINE AND RESERVES

Alexco does not report Mineral Reserves as this definition has certain economic parameters that must be established in order to report as Reserves. Alexco published the technical report "Updated Preliminary Economic Assessment for the Keno Hill Silver District Project – Phase 2, Yukon, Canada" in December 2014 (http://www.alexcoresource.com/i/pdf/reports/Alexco_PEA-Dec2014.pdf). The mineral resource presented in this Updated Preliminary Economic Assessment constitutes the current mineral resource estimate for the five deposits that are part of Alexco's Keno Hill Silver District (KHSD):

- Bellekeno deposit;
- Lucky Queen deposit;
- Flame & Moth deposit;
- Bermingham deposit; and
- Onek deposit.

The mineral resources have been estimated in conformity with generally accepted Canadian Institute of Mining, Metallurgy and Petroleum (CIM) *Estimation of Mineral Resource and Mineral Reserves Best Practices Guidelines* (CIM 2003) and are reported in accordance with the Canadian Securities Administrators' National Instrument 43-101. Mineral resources are not mineral reserves and do not have demonstrated economic viability. There is no certainty that all or any part of the mineral resource will be converted into mineral reserve.

In the opinion of SRK, the resource evaluations reported herein are a reasonable representation of the global polymetallic mineral resources in the Bellekeno mine, Lucky Queen, and Flame & Moth deposits at the current level of sampling.

2.2.1 Bellekeno Mineral Resources

Mineral resources for the Bellekeno deposit were previously prepared by Alexco under the supervision of David Farrow and published in the technical report entitled "*Updated Preliminary Economic Assessment for the Eastern Keno Hill Silver District Project – Phase 2, Yukon, Canada*" (Alexco 2013), and was restated in the technical report "*Updated Preliminary Economic Assessment for the Keno Hill Silver District Project – Phase 2, Yukon, Canada*" on December 24, 2014, available on SEDAR.

The Mineral Resource Statement from this report is restated below.

Table 2-1: Updated Mineral Resource Statement for the Bellekeno Deposit, September 30, 2012

Class	Tonnes	Ag (gpt)	Pb (%)	Zn (%)
Indicated*	365,000	658	5.30	5.3
Inferred*	243,000	428	4.1	5.1

* Mineral resources are not mineral reserves and have not demonstrated economic viability. All figures have been rounded to reflect the relative accuracy of the estimates.

Reported at an NSR cut-off of C$185 (US$1 = C$1)/tonne using consensus long term metal prices (US$) and recoveries of Ag US$22.50/oz, recovery 96%; Pb US$ 0.85/lb, recovery 97%; Zn US$ 0.95/lb, recovery 88%; Ag grades capped at 5,000 gpt.

Since the date of the Bellekeno deposit resource statement, mine production totalled 81,000 tonnes at average grades of 722 gpt silver, 8.3% lead, and 4.0% zinc (from November 1, 2012 to September 1, 2013).

2.2.2 Lucky Queen Mineral Resources

Mineral resource estimates for the Lucky Queen deposit were previously prepared by SRK and published in an independent technical report on September 8, 2011 entitled "*Technical Report on the Lucky Queen Deposit, Lucky Queen Property, Keno Hill District, Yukon*", and were restated in the technical report "*Updated Preliminary Economic Assessment for the Keno Hill Silver District Project – Phase 2, Yukon, Canada*" on December 24, 2014, available on SEDAR.

The Mineral Resource Statement from this report is restated below.

Table 2-2: Mineral Resource Statement for the Lucky Queen Deposit, July 27, 2011

Class	Tonnes	Ag (gpt)	Au (gpt)	Pb (%)	Zn (%)
Indicated*	124,000	1,227	0.17	2.57	1.72
Inferred*	150,000	571	0.16	1.37	0.92

* Mineral resources are not mineral reserves and have not demonstrated economic viability. All figures have been rounded to reflect the relative accuracy of the estimates. Reported at an NSR cut-off of $185 (US$1 = C$1)/tonne using long term metal prices (US$) and recoveries developed for the nearby Bellekeno deposit (Ag US$18.50/oz, recovery 96%; Pb US$ 0.90/lb, recovery 97%; Zn US$ 0.95/lb, recovery 88%; Au US$ 1,100/oz, recovery 72%). Ag grades capped at 6,300 gpt; Pb capped at 14.8%, Zn capped at 7%, Au grades capped at 2 gpt.

2.2.3 Flame & Moth Mineral Resources

Mineral resources for the F&M deposit were previously prepared by Alexco under the supervision of David Farrow and published in the technical report entitled "*Updated Technical Report on the Flame & Moth Deposit, Flame & Moth Property, Keno Hill District, Yukon*" (Alexco 2013), and was restated in the technical report "*Updated Preliminary Economic Assessment for the Keno Hill Silver District Project – Phase 2, Yukon, Canada*" on December 24, 2014, available on SEDAR.

The Mineral Resource Statement from this report is restated below.

Table 2-3: Mineral Resource Statement for the Flame & Moth Deposit, January 30, 2013

Class	Tonnes	Ag (gpt)	Au (gpt)	Pb (%)	Zn (%)
Indicated*	1,378,000	516	0.42	1.72	5.70
Inferred*	107,000	313	0.27	0.86	4.21

* Mineral resources are not mineral reserves and have not demonstrated economic viability. All figures have been rounded to reflect the relative accuracy of the estimates.

** Reported at an NSR cut-off of $185 (US$0.96 = C$1)/tonne using consensus long term metal prices (US$) and recoveries developed for the nearby Bellekeno deposit (Ag US$24.00/oz, recovery 96%; Pb US$ 0.85/lb, recovery 97%; Zn US$ 0.95/lb, recovery 88%; Au US$ 1,400/oz, recovery 72%).For all veins, Ag grades capped at 3,000 gpt; Pb and Zn capped at 15% and 20%, respectively; Au grades not capped.

2.2.4 Bermingham Mineral Resources

A mineral resource estimate for the Bermingham deposit was prepared by SRK on August 8, 2012 and published in an independent technical report entitled "*Technical Report on the Bermingham Deposit, Bermingham Property, Keno Hill District, Yukon*" (SRK 2012) and was restated in the technical report "*Updated Preliminary Economic Assessment for the Keno Hill Silver District Project – Phase 2, Yukon, Canada*" on December 24, 2014, available on SEDAR.

The Mineral Resource Statement from this report is restated below.

Table 2-4: Mineral Resource Statement for the Bermingham Deposit, SRK Consulting, October 15, 2014

Class	Tonnes	Ag (gpt)	Au (gpt)	Pb (%)	Zn (%)
Indicated*	257,000	460	0.06	2.00	2.10
Inferred*	102,000	372	0.09	1.12	1.83

* Mineral resources are not mineral reserves and have not demonstrated economic viability. All figures have been rounded to reflect the relative accuracy of the estimates.

Reported at a dollar cut-off grade of C$185.00/tonne using metal prices (US$) and recoveries of Ag US$20.00/oz, recovery 96%; Pb US$ 0.90/lb, recovery 97%; Zn US$ 0.95/lb, recovery 88%; Au US$ 1,250/oz, recovery 72%. Confidence in the estimate of Inferred mineral resources is insufficient to allow the meaningful application of technical and economic parameters or to enable an evaluation of economic viability worthy of public disclosure.

2.2.5 Onek Mineral Resources

Mineral resources for the Onek deposit were previously prepared by SRK in 2011and published in the technical report entitled "*Technical Report on the Onek Deposit, Onek Property, Keno Hill District, Yukon*" (Alexco 2011), and were re-estimated as part of the technical report "*Updated Preliminary Economic Assessment for the Keno Hill Silver District Project – Phase 2, Yukon, Canada*" on December 24, 2014, available on SEDAR.

The Mineral Resource Statement from this report is restated below.

Table 2-5: Mineral Resource Statement for the Onek Deposit, SRK Consulting, October 15, 2014

Class	Tonnes	Ag (gpt)	Au (gpt)	Pb (%)	Zn (%)
Indicated*	654,000	200	0.62	1.29	12.30
Inferred*	234,000	134	0.44	1.24	8.86

2.3 MINING METHODOLOGY

No mining occurred in 2014 to 2016.

2.4 DEVELOPMENT

No development occurred in 2014 to 2016.

3 CONSTRUCTION ACTIVITIES

In 2014, construction activities carried out at the KHSD site were minor, and only involved surface work near the Mill. In 2015 surface activities only included additional reclamation of the Dry Stack Tailings Facility (DSTF). In 2016, surface disturbance was limited to the area around the mill associated with the development of collaring the Flame and Mothe Portal. The updated surface as-built drawing for the Mill area Facility for 2016 activities is presented as Figure 3-1.

In accordance with our efforts to minimize the impact of the construction activities on the residents of Keno City, the majority of construction materials were delivered using the Christal Lake road to bypass Keno City.

3.1 ROAD CONSTRUCTION

No major upgrades occurred on the roads to Lucky Queen, Christal Lake Road, Keno City Bypass to BKR, or the BKR haul road in 2014, 2015 or 2016. Standard maintenance occurred throughout the year.

3.2 MILL SITE CONSTRUCTION

Construction of a conventional flotation mill at the historic Flame & Moth site for processing ore and producing concentrate began in February of 2010 and was completed in December 2010. As-built drawings for this construction were submitted as part of the 2011 QML Annual Report and an update mill site as-built was submitted in the 2012 annual report.

The mill yard continues to be ditched and contoured to facilitate channeling melt water in the spring to sediment basins. Organics were consolidated and contoured to allow vegetation to take over and provide a central location for organics borrow source once reclamation begins.

In 2014 the foundation for a second ball mill was poured adjacent to the district mill and a sprung structure (shop/garage) was added near the mill to centralise the KHSD mining operations in preparation for when the mining activities are resumed (Figure 3-1). No further work was done at the Mill in 2015 or 2016.

3.2.1 Dry Stack Tailings Facility

The lined area of the dry stack tailings remained at 14,148 m^2 in 2015. Additional area was cleared in 2013 and prepared for liner which will be laid in the future giving a total area of 10,982 m^2 available for additional tailings placement. The DSTF as-built was presented in the 2013 QML annual report. The extent of the cover placed on the DSTF was expanded in 2015 is shown on Figure 6-2.

Both a ground temperature cable (GTC) and a shallow monitoring well were installed in the lower bench of the DSTF as part of the ongoing monitoring of the DSTF in 2012. No water was seen during these installations, indicating no free water exists within the pile. The monitoring data collected from the GTC in the DSTF in 2016 is presented in Appendix A.

3.3 MINE SITE CONSTRUCTION

Development of the Bellekeno deposit is the first of potentially many mines in the KHSD. Because the Bellekeno Mine involved the reopening of existing historical underground mine, use of existing infrastructure such as water treatment facilities, the reuse of the previously impacted historic Flame & Moth site and the Christal Lake haul road, 'new' environmental footprint is limited in scope.

No significant changes occurred at Bellekeno Mine footprint in 2014, 2015 and 2016.

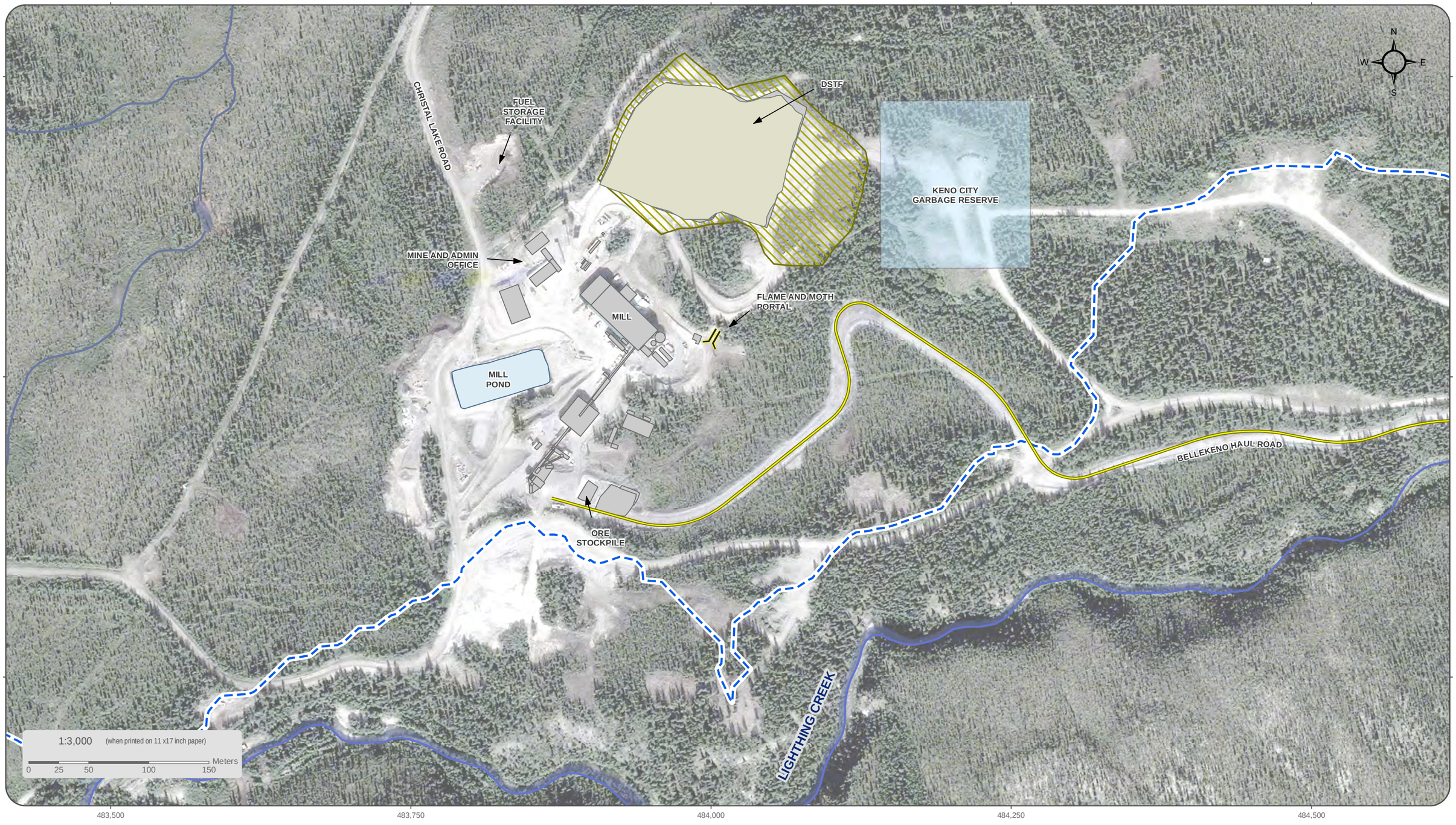
3.4 ELSA CAMP FACILITIES

A trailer camp, kitchen facility and driller's dry are currently assembled at the old Flat Creek town site (part of Elsa) on Surface Lease 105M13-001. The Camp has a total capacity of 90 permanent beds. There are four houses located on Surface Lease 105M13-009 with a total of 28 rooms. On the same lease, an additional 20 rooms are available; however, this bunkhouse is also not occupied during the winter. These bunks were upgraded to include new framing, roof, and deck.

A Commercial Dump Permit # 81-067 is currently held from Yukon Government (YG) Environment in accordance with the Environment Act, *Solid Waste Regulations* as well as the Public Health and Safety Act. This permit was renewed effective December 15, 2016 and will continue to be used in support of the District Mining operations. In compliance with this permit upgrades to the location of solid waste disposal included upgrades to the electric bear fence and addition of a cattle guard to prevent animals from entering the facility.

Alexco currently holds two sewage disposal system permits at Elsa issued by YG Environmental Health Services: an absorption bed permit for the Flat Creek Camp (Permit #3448) in replacement to a septic tank permit (Permit #3012) and an absorption permit for five houses (Permit #3449) in replacement of a septic tank permit (Permit #3246).

Water for camp consumption is being drawn from Flat Creek or the Flat Creek well and treated through a series of filters and ultra violet (UV) light before it is chlorinated and stored in holding tanks ready for consumption under the *Yukon Environmental Health Standards*.



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Satelite imagery obtained from Yukon Geomatics map service http://mapservices.gov.yk.ca/ArcGIS/services on March 2017

Datum: NAD 83; Map Projection: UTM Zone 8N

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- Adit
- DSTF Extent
- DSTF Clearing
- Building/Infrastructure
- Watershed Boundary
- Bellekeno Haul Road

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FIGURE 3-1

MILL AND DSTF LAYOUT OVERVIEW

MARCH 2017

D:\Projects\All\Projects\Keno_Area_Mines\ALL-SITES\02-Map\01_Overview\02-District Mill\District_Mill_20170327.mxd
(Last edited by: mdicharme;3/27/2017;5:54 PM)

Power for the camp is supplied from the local grid that runs through Elsa to Keno City. Several upgrades were completed in 2012; however, no upgrades were completed in 2013, 2014, 2015 and 2016. Upgrades in 2012 included:

a) removal of the existing overhead line running from the historical pump house to the upper house complex at Elsa and replacing line with an armored tech cable;
b) decommissioning of old transformers in the upper house complex area at Elsa and replacing with more current transformers and switchgear;
c) brushing out of both the Onek 990 and Elsa substations;
d) commissioning an engineering overview of the current electrical system for the purpose of identifying areas needing upgrade in the 2013 season;
e) installing new three phase transformer in camp to remove bunkhouse a from the kitchen complex and distribute the load more evenly;
f) installing new three phase transformer in the warehouse to distribute the load more effectively; and
g) commissioning an Engineering overview of the power factor at the Mill for the purpose of identifying why the power factor is low and what can be done to correct it, designed a power factor correction unit.

3.5 ANNUAL INSPECTION

In accordance with Section 12.1 to 12.3 of QML-0009, an "*annual inspection of the physical stability of all engineered structures, works and installations located at the site is conducted by an engineer by August 1st of each year*".

Tetra Tech EBA Inc. was retained to complete the 2016 annual inspection of the surface engineered earth structures located throughout the Bellekeno Mine and District Mill site.

See Appendix A for a copy of the *2016 Annual Physical Inspection Report* which includes surface inspections.

3.6 UPCOMING MAINTENANCE AND UPGRADES

Routine maintenance of mine and mill areas continued in 2014 to 2016.

3.6.1 Mill Upgrades and Maintenance

Several projects were completed in 2014 for the mill area to improve overall efficiency. These upgrades included the addition of a mill maintenance shop, and pouring the foundation for a second ball mill. No upgrades for the mill were completed in 2015. In 2016, a maintenance program of the some of the Mill components was undertaken.

3.6.2 Mine Upgrades and Maintenance

3.6.2.1 Bellekeno

Underground infrastructure was removed in the fall of 2015 between the 800 and 900 mine levels to allow flooding of the mine up to the 800 level to undertake insitu treatment. On July 8, 2016 water began to be

pumped up to the 625 adit and treated in the water treatment plant prior to discharge to the receiving Environment.

3.6.2.2 Lucky Queen

No upgrades were done during temporary closure.

3.6.2.3 Onek 990

No upgrades were done during temporary closure.

4 MILLING OPERATIONS

Mill operations did not occur in 2014 to 2016.

5 WASTE MANAGEMENT

5.1 TAILINGS MANAGEMENT

Tailings were not generated in 2014 to 2016 under temporary closure.

5.2 WASTE ROCK MANAGEMENT

Waste Rock was not generated in 2014 and 2015 under temporary closure. In 2016 there were 1,215 tonnes of waste rock produced from the development of the Flame and Moth portal. The N-AML waste rock generated was used to expand the laydown areas around the District Mill Site.

6 MONITORING

6.1 MONITORING AND SURVEILLANCE PLAN

Site environmental monitoring was carried out at the site in accordance with the *Monitoring and Surveillance Plan*. A revision to the Plan was submitted in September 2011 and approved on May 22, 2012. This updated plan included monitoring and surveillance to reflect requirements of Water License QZ09-092 and also to reflect updates to other terrestrial monitoring (e.g. dust monitoring) which have been developed.

Water quality and groundwater monitoring have been carried out in accordance with the Type A water license QZ09-092. Results of this monitoring were included within the Type A water license 2016 Annual Report. Details can be seen in Appendix E3 of the QZ09-092 2016 Annual Report, which is available on the Yukon Water Board's online registry Waterline (www.yukonwaterboard.ca/waterline). Permafrost monitoring through geotechnical programs installed at the site of the future Non- acid-generating and/or metal leaching (AML) Waste Rock Disposal Area and the DSTF is monitored routinely by the engineers of record (Tetra Tech EBA Inc.) in accordance with the DSTF OMS Manual, which forms part of the DSTF Construction and Operation Plan. As discussed in Section 3.2.1 of this report, an additional GTC and monitoring well were installed on the DSTF, as well as full depth tailings analysis were completed in 2012.

6.1.1 Water Quality Surveillance Network

The existing water quality surveillance network for the KHSD Mining Operations includes surface receiving waters in the Lightning Creek and Christal Creek watersheds. Most of the monitoring stations have been sampled extensively in the past. Current water quality monitoring is required in these areas under Water Licence QZ12-057, and Water Licence QZ09-092. Water Licence QZ06-074 expired in November of 2012 and was renewed as QZ12-057, effective on January 30, 2013. Results can be seen in the QZ09-092 2016 Annual Report, which is available on the Yukon Water Board's online registry Waterline (www.yukonwaterboard.ca/waterline). QZ09-092 surface and groundwater monitoring sites can be seen in Figure 6-1, 6-2 and 6-3.

6.1.2 Groundwater Surveillance Network

A groundwater monitoring plan for the Bellekeno mine has been developed under Water Licence QZ09-092. This program outlines monitoring locations and frequency for the Keno District Mill and Dry Stack Tailings Facility, the non-AML waste rock disposal area, and Keno City.

Groundwater wells are scheduled for monthly monitoring for both water level and quality for the first year after QZ09-092 came into effect to establish baseline conditions, followed by quarterly sampling thereafter, for the duration of the project.

Results can be seen in the QZ09-092 2016 Annual Report, which is available on the Yukon Water Board's online registry Waterline (www.yukonwaterboard.ca/waterline). QZ09-092 groundwater monitoring locations can be seen in Figure 6-2 and Figure 6-3.

475000 480000 485000 490000

7090000 7085000

N W E S

Haldane Lake

McQuesten River

South McQuesten River

Christal Creek

Sandy Creek

Star Creek

No Cash Creek

Flat Creek

Bedrock Creek

Porcupine Gulch

Fisher Creek

Lightning Creek

Gambler Gulch

Faro Gulch

Mackay Gulch

Erickson Gulch

Charity Gulch

Hope Gulch

Thunder Gulch

SILVER TRAIL HIGHWAY

HANSON MCQUESTEN ROAD

CALUMET DRIVE

HUSKY SW ACCESS ROAD

WERNECKE ROAD

SIGN POST ROAD

BELLEKENO HAUL ROAD

MILL ACCESS

DUNCAN CREEK ROAD

CHRISTAL LAKE

KV-1: South McQuesten River u/s Christal Creek

KV-2: South McQuesten River at Pumphouse

KV-6: Christal Creek at Keno Highway

KV-7: Christal Creek at Hanson Road

KV-8: Christal Creek at mouth

KV-34: Lucky Queen Adit

KV-34: Lucky Queen P-AML WRSF

KV-37: Lightning Creek u/s Hope Gulch

KV-38: Lightning Creek u/s Thunder Gulch

KV-39: Hope Gulch u/s Lightning Creek

KV-40: Charity Gulch u/s Lightning Creek

KV-41: Lightning Creek u/s bridge at Keno City

KV-42: Bellekeno 625 Adit

KV-43: Bellekeno 625 Treatment Pond Decant

KV-44: Bellekeno 625 Seep

KV-45: Onek Adit

KV-49: Hinton Creek u/s Christal Creek

KV-50: Christal Creek u/s Hinton Creek

KV-51: Christal Creek d/s Hinton Creek

KV-52: Natural spring to Christal Lake at Old Mackeno pump house

KV-65: Thunder Gulch u/s of Bellekeno

KV-76: Thunder Gulch d/s of Bellekeno 625 Adit

KV-77: Thunder Gulch u/s of Bellekeno East

KV-78: Bellekeno East Temporary Storage Facility

KV-78A: Onek PAML Waste Rock Storage Facility discharge

KV-79: Christal Creek d/s of Mackeno Tailings

KV-80: Christal Creek u/s of Mackeno Tailings

KV-81: Lightning Creek Southwest of Mill Site

KV-96: Onek 990 Settling Pond Decant

KV-97: Lucky Queen Settling Pond Decant

KV-98: Lucky Queen N-AML Dump Seep Monitoring Location

KV-100: Onek 990 Settling Pond

Valley TailingsWeather Station

Calumet Weather Station

Mill Weather Station

1:50,000 (when printed on 11 x17 inch paper)

Contours are 200 ft intervals

0 0.5 1 2 3 4 Kilometers

National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced underlicense from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved. Mill district inset hydrography derived from 2006 aerial imagery obtained from Aero Geometrics, Calgary Alberta.

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Datum: NAD 83; Map Projection: UTM Zone 8N

- Adit Water Quality Station
- Surface Water Quality Station
- Pending Water Quality Stations
- Weather Station
- Valley Tailings Pond
- Valley Tailings Borrow Source
- Valley Tailings
- District Mill
- Silver Trail Highway
- Other Road
- Limited-Use Road

AKHM AEG

ANNUAL QUARTZ MINING LICENCING REPORT QML-0009

FIGURE 6-1

SURFACE WATER QUALITY STATION LOCATIONS

MARCH 2016

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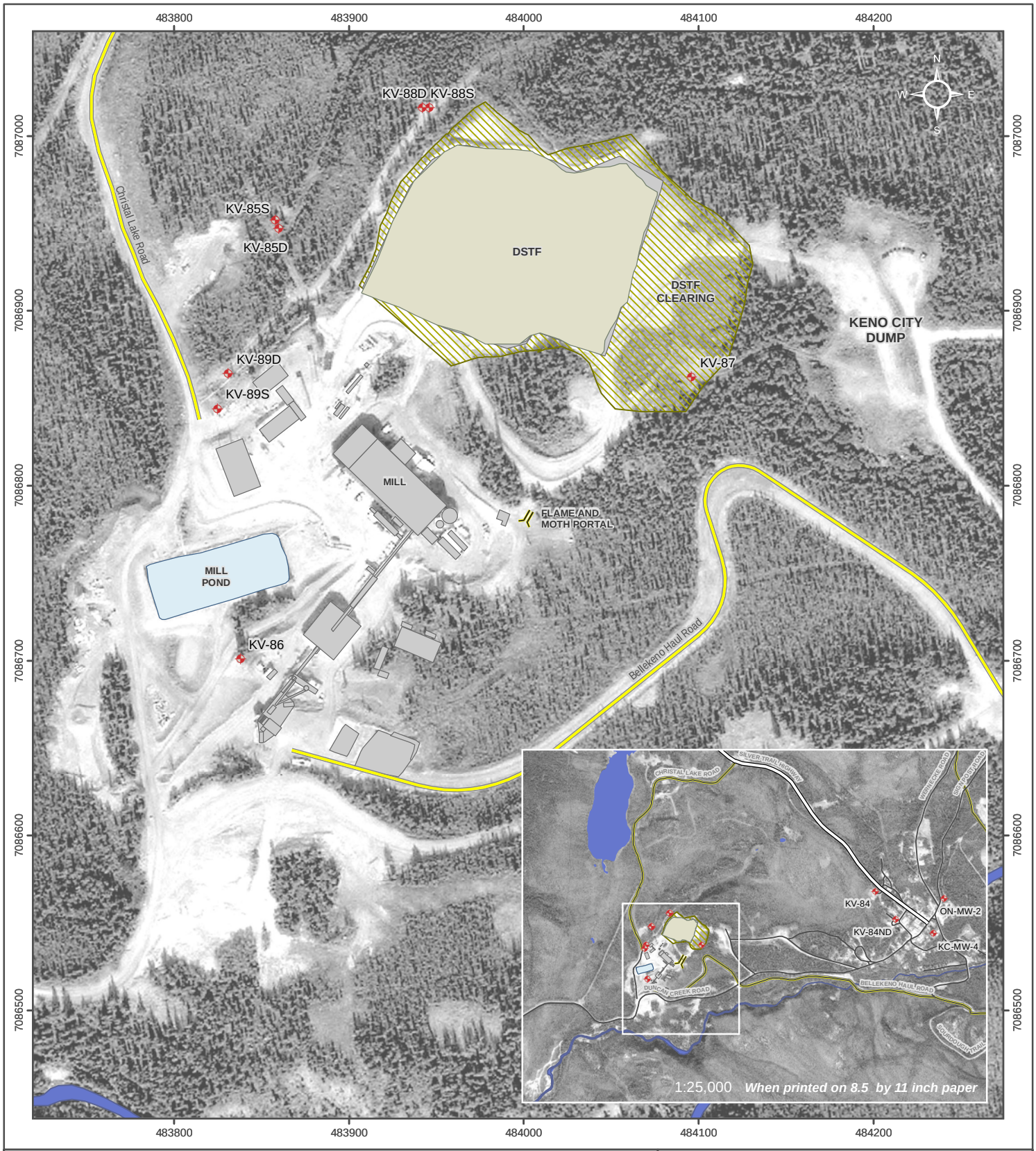

Adit
Monitoring Well
Haul Road

DSTF Extent
DSTF Clearing
Building/Infrastructure

1:3,000 *When printed on 8.5 by 11 inch paper*

0 50 100 150 Meters

Satelite imagery obtained from Yukon Geomatics map service http://mapservices.gov.yk.ca/ArcGIS/services on March 2017
Contour data based on LiDAR data acquired in September 25th 2014

Datum: NAD 83; Projection: UTM Zone 8N

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FIGURE 6-2

GROUNDWATER MONITORING LOCATIONS

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MARCH 2017

D:\Project\All\Projects\Keno_Area_Mines\Bellekeno\GIS\mxd\Overview_Maps\WQ_Stations\01-Groundwater\Mill_Site\Groundwater_MillSite_20170327.mxd
(Last edited by: mducharme; 3/27/2017/16:16 PM)

MineFeaturePoint
Proposed Monitoring Well
Monitoring Well
Private Drilled Well
Public Drilled Well
Water Supply Well
Decommissioned Manual Drive Point
DSTF Extent
DSTF Clearing
Building/Infrastructure
Contour (5 m interval)

Satelite imagery obtained from Yukon Geomatics map service
http://mapservices.gov.yk.ca/ArcGIS/services on March 2017
Contour data based on LiDAR data acquired in September 25th 2014

Datum: NAD 83; Projection: UTM Zone 8N

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FIGURE 6-3
KENO HILL SILVER DISTRICT GROUNDWATER MONITORING LOCATIONS

MARCH 2017

D:\Project\AllProjects\Keno_Area_Mines\Bellekeno\GIS\mxd\Overview_Maps\WQ_Stations\01-Groundwater\East of District\GW_monitoring_20170227.mxd (*Last edited by: mducharme;3/27/2017/16:00 PM*)

6.1.3 Permafrost Monitoring

Geotechnical programs have identified areas of permafrost within operational areas of the project. Specifically, some permafrost was encountered beneath the proposed non-AML Waste Rock Storage Area (WRSA) and in the vicinity of the proposed DSTF. Ground temperature and permafrost monitoring is currently in place at these locations. Details on monitoring for the DSTF are included in the DSTF OMS manual, which forms a part of the DSTF *Development and Operations Plan*.

Locations are monitored routinely by the engineers of record (Tetra Tech EBA Inc.). Details on permafrost monitoring for the WRSA are included in the Mine Development and operations Plan.

Results of the 2016 permafrost monitoring can be seen in the Tetra Tech EBA Inc. monitoring report in Appendix A.

6.1.4 Physical Inspections

The purpose of the physical inspection is to observe and record sufficient information related to physical and water retaining structures to permit development of a course of action, repair or rehabilitation if it is required. Physical inspections are currently inspected under the *Physical Inspections and Reporting Plan* prepared for Water Licence QZ09-092. Results of these inspections are presented in Appendix A.

6.1.5 Meteorological Monitoring

As part of closure planning studies, a meteorological station was established on Galena Hill in summer 2007 by Alexco. The station measures air temperature, relative humidity, barometric pressure, rainfall, wind speed and direction, solar radiation, and soil temperature. As a condition of Type A Water Use Licence QZ09-092, a second metrological station and snow course was established at the Keno District Mill site. The location of the mill site weather station is shown on Figure 6-4. A YG monitored snow course station also exists in the area. An analysis of the meteorological monitoring data results can be seen in the QZ12-053 2016 Annual Report, which is available on the Yukon Water Board's online registry Waterline (www.yukonwaterboard.ca/waterline).

6.1.6 Noise Impacts and Sound Monitoring

The objective of noise impact monitoring was to reduce and mitigate impacts to local residents and the environment resulting from noise produced during the development and operations of the Bellekeno Mine and Keno District Mill. To achieve this goal, AKHM identified potential noise sources and receivers in the *Noise Abatement Plan*, and will continue to do so during development and production as a part of monitoring. Details can be found in the *Noise Abatement Plan* submitted under QML-0009. An update to this plan was approved on March 19, 2013, and includes potential noise impact associated with the development of the Lucky Queen and Onek 990 Mines.

As identified in the 2011 review of the data collected from 2009 to 2011 (submitted in the 2011 QML Annual Report) no significant noise impacts (defined as exceedences of daytime or nighttime noise levels as recommended in the *Decision Document*) have been observed in Keno City as a result of operations. With the approval for development of the Lucky Queen and Onek 990 Mines in November 2012 and the updated *Noise Abatement Plan* for 2013, noise monitoring at newly identified sites commenced in 2013. The results for the Noise Monitoring Program up to 2016 are presented in Appendix B.

6.1.7 Dust Abatement and Monitoring

In accordance with Clause 69 of the Decision Document for the assessment for the Bellekeno Mine Project (Yukon Environmental and Socio-Economic Assessment Board [YESAB] File Number 2009-0030), dustfall monitoring stations were installed at four locations near the Keno District Mill site. Bergerhoff dust monitoring gauges were selected as the appropriate instrumentation to carry out this program. At the time of installation, the Yukon had not yet developed the *Ambient Air Quality Standards*.

The Bergerhoff deposit dust gauge is designed to measure dust deposition, which can be reported as a weight per unit area over unit time. These results are comparable to the *Ambient Air Control Objectives in the Pollution Control Objectives for the Mining, Smelting and Related Industries of BC* (1979), which provides an acceptable range of 1.7 to 2.9 mg/(dm^2*d).

As a result of the updated Monitoring and Surveillance Plan Revision 1.1, as well as the development of the *Yukon Ambient Air Quality Standards*, two Total Suspended Particulate (TSP) monitoring devices were installed near the Keno District Mill site. After a thorough investigation of both continuous duty (real-time) constant flow air monitoring systems and discrete (gravimetric) samplers, the BGI OMNI sampler was chosen as the most appropriate instrument. TSP results have been compared to the *Yukon Ambient Air Quality Standards* [TSP = 120 µg/m^3 (24-hr average)].

In addition to TSP monitoring using the BGI OMNI samples, samples from these instruments were analyzed for total metals. The most common metals observed were aluminum, calcium, iron, lead, magnesium, manganese, sulfur, and zinc.

Though several results from the Bergerhoff method exceeded the Ambient Air Control Objectives in the *Pollution Control Objectives for the Mining, Smelting and Related Industries of BC*, all of the TSP results were well below the Yukon Ambient Air Quality Standards, which is the accepted standard.

The complete 2016 monitoring results can be seen in Appendix C. Dust control measures including dust suppression of haul roads, mill site, and DSTF continue on an as-needed basis throughout the year.

Mill site layout with locations of both the old Bergerhoff dust monitoring gauges and TSP monitoring instruments currently in place are shown on Figure 6-4.

Satellite imagery obtained from Yukon Geomatics map service http://mapservices.gov.yk.ca/ArcGIS/services on March 2017
Data obtained from EBA: "As built" spatial data: Mill pond (Y.E.S.), Mill structure, and current DSTF footprints, Roads (In House survey December 11th 2011).
Design spatial data: Conveyance and water collection, diversion ditches and berm.

Datum: NAD 83; Projection: UTM Zone 8N

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1:5,500 *(when printed on 11 x17 inch paper)*

0 50 100 150 200 Meters

- MineFeaturePoint Weather Stns
- Dust Monitoring Station
- DSTF Extent
- DSTF Clearing
- Building/Infrastructure
- Silver Trail Highway
- Secondary Road

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FIGURE 6-4

DUST MONITORING AND WEATHER STATIONS

MARCH 2017

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(*Last edited by: mducharme;3/27/2017/6:11 PM*).

6.1.8 Waste Rock Monitoring

All waste rock management facilities are subject to monitoring for physical and geochemical stability (acid rock drainage or metal leaching). A complete Waste Rock Management Plan was attached to the Construction Site Plan Revision 1 and includes detailed descriptions of waste rock monitoring and mine wall testing. This plan was submitted as part of the QML-0009 2010 Annual Report submitted in June 2011. This plan was revised and approved in 2013 to include the Lucky Queen and Onek 990 Mines. The plan was updated for Flame and Moth and revision 5 of the plan was approved as part of the amended QML for Flame and Moth.

No new waste rock was generated in 2014 to 2015, therefore no new monitoring was conducted. In 2016, 1,215 tonnes of waste rock was produced as part of the collaring of the Flame and Moth portal and was characterized as N-AML.

6.1.9 Environmental Effects Monitoring

AHKM prepared the first study design for the Environmental Effects Monitoring (EEM) program required under the federal Metal Mining Effluent Regulations (MMER) and submitted in September 2011. The first round of EEM program was completed in 2012 with the EEM interpretive report for Bellekeno completed and submitted in March 2013. Sub-lethal toxicity testing of effluent from the BK625 treatment pond decant was conducted during 2012 and no significant adverse effects were noted during these tests. The results for the first cycle of EEM were presented in the 2012 annual report. The second EEM cycle study was completed in 2015 and the results were presented as Appendix D of the 2015 annual report.

6.1.10 Wildlife Monitoring Plan

The Keno Hill Silver District, including Elsa, the Silver Trail Highway, District Mill, Bellekeno, Lucky Queen, and Onek 990 Mine sites, and all associated haul roads are frequented by natural wildlife in the area. This wildlife includes fox, bear, moose, wolverine, rabbit, lynx, and a number of other species of animal and birds. Wildlife encounters are recorded in a log located in the Elsa Administration Office. The most common sightings involved moose, fox, as well as both black and grizzly bears in 2013. Other less common sightings involved lynx, and wolves.

Any encounters between vehicles and wildlife are reported to both the Safety and Environmental departments for documentation and if required, incident investigation. 2014, 2015 and 2016 saw no encounters between AKHM vehicles and wildlife.

6.1.11 Traffic Management

The BKR haul road crosses two public roads in the Keno City area, both Duncan Creek road and the access to the Sourdough Trail. Mine traffic has been redirected around Keno City to ensure that direct ore haulage traffic is routed around the community, effectively minimizing impact on the local community. This road consists of two portions, the Bellekeno Bypass North, which ensures all mill traffic and concentrate haul will bypass Keno City via Chrystal Lake Road, and the Bellekeno Bypass South which connects the Sourdough Trail on the south side of Lightning Creek to the Duncan Creek Road across Lightning Creek. Figure 6-5 shows the routing of traffic around the community along the Bypass Roads.

With the developments of the Lucky Queen and Onek 990 Mines, the Onek Connector Road has been developed from the Wernecke Road, crossing Sign Post Road, along the historic Onek waste rock storage area, to the Onek 990 Portal, crossing Lightning Creek Road and the new Onek Access Bridge across Lightning Creek to the Bellekeno Haul Road (Figure 6-6). The road maybe restricted to one-way travel where conditions prevent construction to 9 m wide. Until the completion of the new Onek Access Bridge in May 2013, some light vehicle traffic has been directed through Keno City. This traffic was discontinued with the construction of the new Onek Bridge. It is expected that occasional traffic will continue to flow through Keno City but the use of the bypass roads will continue to be a priority and policy.

483,000 483,200 483,400 483,600 483,800 484,000 484,200 484,400 484,600 484,800 485,000 485,200 485,400 485,600

7,087,800 7,087,600 7,087,400 7,087,200 7,087,000 7,086,800 7,086,600 7,086,400

N W E S

CALUMET DRIVE

CHRISTAL LAKE

CHRISTAL LAKE ROAD

SILVER TRAIL HIGHWAY

WERNECKE ROAD

SIGN POST ROAD

LIGHTNING CREEK HAUL ROAD

DISTRICT MILL

MILL ACCESS

KENO CITY

BELLEKENO HAUL ROAD

DUNCAN CREEK ROAD

SOURDOUGH TRAIL

483,000 483,200 483,400 483,600 483,800 484,000 484,200 484,400 484,600 484,800 485,000 485,200 485,400 485,600

Satelite imagery obtained from Yukon Geomatics map service http://mapservices.gov.yk.ca/ArcGIS/services on March 2016
Data obtained from EBA: "As built" spatial data: Mill pond (Y.E.S.), Mill structure, and current DSTF footprints, Roads (In House survey December 11th 2011).
Design spatial data: Conveyance and water collection, diversion ditches and berm.

Datum: NAD 83; Projection: UTM Zone 8N

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1:7,000 *(when printed on 11 x17 inch paper)*

0 50 100 200 300 Meters

- Bellekeno Haul Road
- Christal Lake Road
- Silver Trail Highway
- Secondary Roads
- Road Right of Way

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FIGURE 6-5

BELLEKENO PROJECT BYPASS ROAD

MARCH 2016

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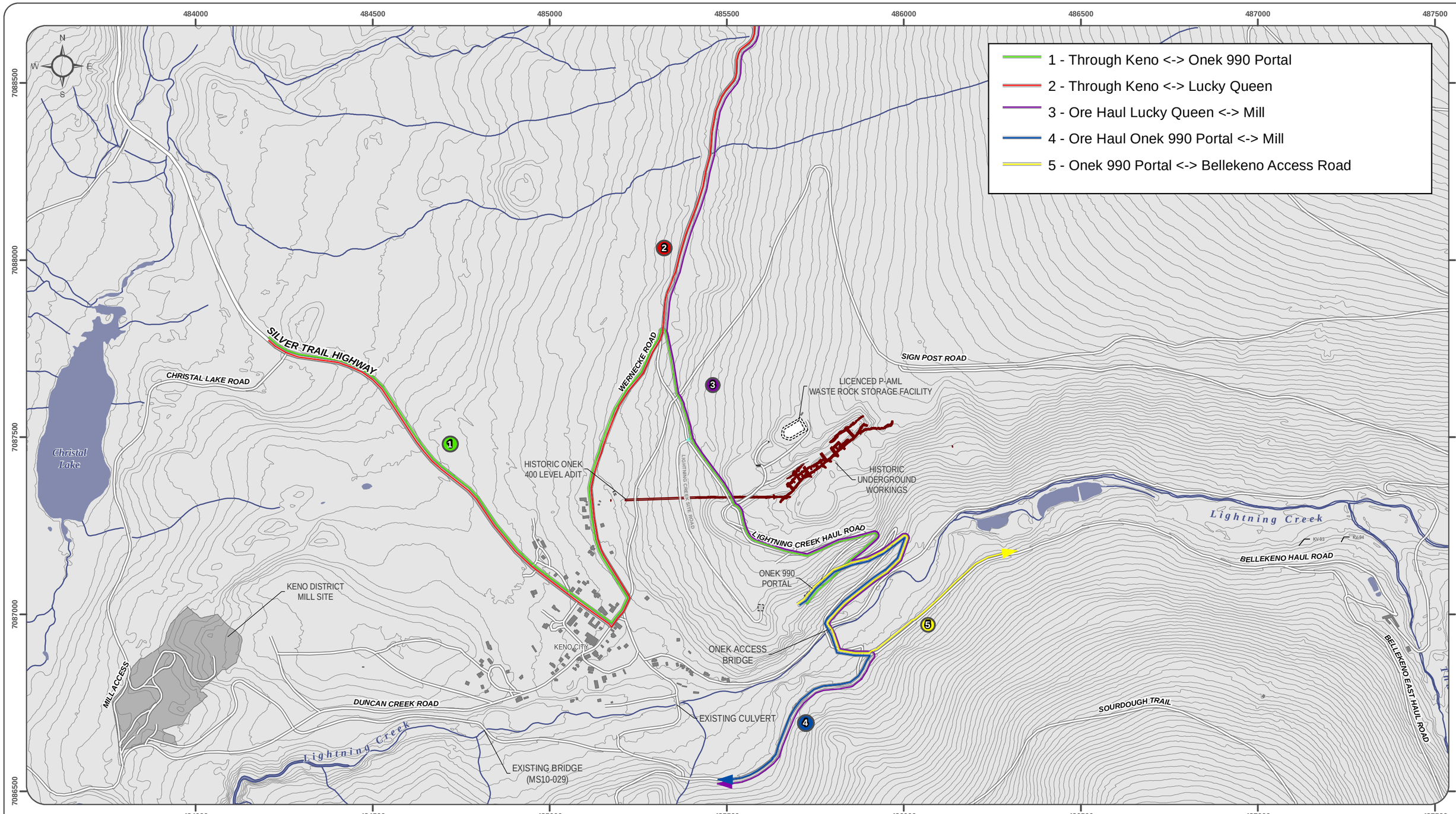
(Last edited by: amatlashevska;3/22/2016/10:25 AM)



Site Contours derived from LiDAR data acquired September 25th 2014

Datum: NAD 83; Projection: UTM Zone 8N

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1:10,000 *(when printed on 11 x17 inch paper)*

0 100 200 300 400 Meters

- Adit
- Building/Structure
- Mill Footprint
- Existing Features
- Silver Trail Highway
- Secondary Roads
- Historical Underground Workings
- Contours
- Watercourse
- Waterbody

AKHM

AEG

ANNUAL QUARTZ MINING LICENCE REPORT, QML-009

FIGURE 6-6

LUCKY QUEEN, ONEK 990 AND BELLEKENO ACCESS ROUTES

MARCH 2016

D:\Project\AllProjects\Keno_Area_Mines\ALL-SITES\02-Map\01_Overview\02-Specific_Topics\Roads\TrafficManagement_20160322.mxd
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6.2 ADAPTIVE MANAGEMENT PLAN

Pursuant to Clause 90 and Clause 91 of QZ09-092, Alexco developed a Bellekeno *Adaptive Management Plan*, which was submitted to Yukon Water Board in April, 2011. This plan was based on the framework established by the District Wide Adaptive Management Plan, but was customized for the specific activities and developments of the Bellekeno Undertaking. The Adaptive Management Plan was updated in 2013 to include the Onek 990 and Lucky Queen Mines. No adaptive management triggers or activities were undertaken during 2014 to 2016.

Reporting for the AMP including a summary of any adaptive management triggers and actions was prepared for the WUL QZ09-092 2016 Annual Report. The QZ09-092 2016 Annual Report is available on the Yukon Water Board's online registry Waterline (www.yukonwaterboard.ca/waterline).

7 UNAUTHORIZED DISCHARGE

7.1 REPORTABLE SPILLS

No reportable spill occurred in 2014 to 2016.

7.1.1 Non-Reportable Spills

There were no non-reportable spills recorded at the Site in 2014 to 2016 according to the reportable spill quantities defined in Schedule A of the *Yukon Spill Regulations*.

7.2 PERMIT EXCEEDENCES

There were no Water Licence exceedences during 2016 relating to mine discharge.

8 CARE AND MAINTENANCE AND RECLAMATION

The care and maintenance activities at the Keno Hill District are the primary objective of Water Use License QZ06-074, which was renewed for five years and issued as QZ12-057 effective January 30, 2013. The purpose of this license is to obtain water, divert water, store water, and to deposit waste for the purpose of care and maintenance activities for the Keno Hill Mines Property.

Alexco Resource Canada Corporation was issued Water Use Licence QZ07-078 on October 3, 2008, for the purpose to obtain water, store water, and to deposit a waste for the purpose of advanced exploration and preliminary development activities at the Bellekeno Mine on the Keno Hill Property. The Bellekeno project has since moved into production (under QZ09-092) and in 2011, Alexco applied to amend QZ07-078 to remove clauses pertinent to the mine production Licence. AKHM was issued Water Use Licence QZ10-060 on November 16, 2011 for the amended purpose: to store water and to deposit waste for the purpose of maintaining the Onek Potentially acid-generating and/or metal leaching (P-AML) Waste Rock Storage Facility on the Keno Hill Property. Licence QZ07-078 was cancelled on January 14, 2015 as all activities are now part of QZ12-053.

Information and analyses pertaining to the Bellekeno Mine, Lucky Queen Mine, Onek 990 Mine and District Mill areas have been fully developed through WUL QZ12-053.

8.1 CARE AND MAINTENANCE ACTIVITIES

Prevention of environmental degradation within the Keno Hill Silver District is accomplished largely by the daily operation of lime-addition water treatment systems existing at Galkeno 900, Galkeno 300, Silver King 100, and Bellekeno 625 adits. The Valley Tailings Facility is also treated on an as-required basis during spring and early summer. Care and Maintenance activities and performance monitoring (i.e. water quality monitoring) is undertaken by Elsa Reclamation and Development Company Ltd. (ERDC), using on-site laboratory facilities for daily and weekly water quality analysis. Monitoring of surface and groundwater sites as well as physical conditions is completed as per WL monitoring schedules.

A detailed discussion of these results and other Care and Maintenance activities can be found in 2016 Annual Water License report submitted to the Yukon Water Board as per Water Use License QZ06-074 (QZ12-057 effective January 30, 2013) in February 2017.

8.2 RECLAMATION ACTIVITIES

Progressive reclamation of the DSTF was initiated during the summer of 2012 as presented in the *Reclamation and Closure Plan* to prevent potential dusting and erosion of exposed tailings slopes. Final slope and bench elevations were reached on the west toe of the DSTF, allowing final reclamation to begin.

The progressive reclamation included four areas (block A, B, C, & D) on the DSTF which were covered with granular/organic material and seeded to test various cover trials. The cover material was local material that had been cleared and stockpiled during the initial construction of the Keno District Mill. The seed material (Keno District Dry Land Seed Mix) was selected using a blend of suitable species seeded at the Brewery Creek and Minto Mine sites also located in the Yukon. Additional slopes were contoured in 2013 for preparation of progressive reclamation that completed in 2014 including covering portions of the DSTF and seeding the cover. In 2015, further progressive reclamation activities were completed for the DSTF cover, which expanded the cover over the majority of the DSTF (Figure 6-2).

9 REFERENCES

Alexco Resource Corp., Updated Preliminary Economic Assessment for the Keno Hill Silver District Project – Phase 2, Yukon, Canada, 2014

Alexco Resource Corp., Updated Preliminary Economic Assessment for the Eastern Keno Hill Silver District Project – Phase 2, Yukon, Canada, 2013a

Alexco Resource Corp., Updated Technical Report on the Flame & Moth Deposit, Flame & Moth Property, Keno Hill District, Yukon, 2013b

Alexco Resource Corp., Technical Report on the Onek Deposit, Onek Property, Keno Hill District, Yukon, 2011

Canadian Institute of Mining, Estimation of Mineral Resource and Mineral Reserves Best Practices Guidelines, 2003

SRK Consulting, Technical Report on the Bermingham Deposit, Bermingham Property, Keno Hill District, Yukon, 2012

SRK Consulting, Technical Report on the Lucky Queen Deposit, Lucky Queen Property, Keno Hill District, Yukon. SRK Project 2CA017.001. Prepared for Alexco Resource Corporation, September 8, 2011a.

SRK Consulting, Technical Report on the Onek Deposit, Onek Property, Keno Hill District, Yukon. SRK Project 2CA017.001. Prepared for Alexco Resource Corporation, September 8, 2011b.

APPENDIX A

2016 ANNUAL PHYSICAL INSPECTION

TETRA TECH

October 27, 2016

ISSUED FOR USE
FILE: ENG.WARC03152-01
Via Email: kwoloshyn@alexcoresource.com

Alexco Resource Corp.
3 – 151 Industrial Road
Whitehorse, YT Y1A 2V3

Attention: Kai Woloshyn – Environmental Manager

Subject: 2016 Annual Geotechnical Inspection – Surface Engineered Earth Structures
Bellekeno Mine, Keno City, YT

1.0 INTRODUCTION

Alexco Resource Corp. (Alexco) retained Tetra Tech EBA Inc. (Tetra Tech) to complete the 2016 annual geotechnical inspection of the surface engineered earth structures at the Bellekeno Mine near Keno City, Yukon. Authorization to complete this work was received by way of an Alexco purchase order (PO #17604) dated August 9, 2016. The following structures were identified by Alexco as requiring inspection:

- Potentially acid generating (PAG) waste storage facility
- Bellekeno waste rock pile
- Bellekeno 625 water treatment ponds
- Lightning Creek bridge abutments (Onek Road)
- Lightning Creek bridge abutments (Bellekeno Haul Road)
- Mill water storage pond
- Dry stacked tailings facility (DSTF)

The location of each structure is shown on Figure 1.

2.0 SCOPE OF SERVICES

The following is Tetra Tech's scope of services for the 2016 annual inspection as was presented in the proposal submitted to Alexco on July 7, 2016:

- Complete a visual inspection of the surface engineered earth structures identified by Alexco as requiring inspection and collect ground temperature and slope indicator data for the dry stacked tailings facility.
- Prepare an inspection report including the results of the inspection, summary of the stability, integrity, and status of all inspected structures, and any recommendations for remedial actions.
- Summarize and interpret the ground temperature and slope indicator data collected for the dry stacked tailings facility.

Tetra Tech EBA Inc.
61 Wasson Place
Whitehorse, YT Y1A 0H7 CANADA
Tel 867.668.3068 Fax 867.668.4349

3.0 INSPECTION SUMMARY AND RECOMMENDATIONS

The 2016 annual inspection was completed by Justin Pigage, P.Eng. on August 18th, 2016. The following sections summarize observations for each structure and provide recommended remedial actions, if necessary. The recommended remedial actions have been separated into critical geotechnical stability concerns and ongoing facility maintenance issues to assist in the prioritization of remedial efforts. Select photographs taken during the inspection are included in the photographs section of this report.

3.1 PAG Waste Facility

The PAG waste storage facility is located south of the Bellekeno portal, as shown on Figure 1. The facility has not been used since mining operations were suspended in winter 2013. As noted in previous inspections, the geonet and geotextile components of the liner system have only been installed in the north half of the facility (Photo 1). If the facility is to be used in the future, the installation of the liner system should be completed as per the original design.

At the time of the inspection, the perimeter berms appeared intact with no visible signs of instability (Photo 2).

3.2 Bellekeno Waste Rock Pile

The Bellekeno waste rock pile forms a portion of the Bellekeno Haul Road and is located north of the Bellekeno portal, as shown on Figure 1. At the time of the inspection the waste rock pile sideslopes appeared intact and stable (Photo 3). No remedial action is required for the Bellekeno waste rock pile at this time.

3.3 Bellekeno 625 Water Treatment Ponds

The Bellekeno 625 water treatment ponds are located north of the Bellekeno portal, as shown on Figure 1. The facility consists of two water treatment ponds that were both operating at the time of the inspection (Photo 4). The primary treatment pond was operating at the discharge invert elevation with a freeboard of 0.5 m below the perimeter berm crest at the time of the inspection. The secondary pond was also operating at the discharge elevation. Freeboard in the secondary pond ranges from about 0.5 m at the south end to about 0.3 m at the north end. Settlement of the north end of the pond has likely caused the diminished freeboard (Photo 5).

Careful examination of the perimeter berms and surrounding ground surface during the inspection did not yield any visual evidence of movement and despite suspected settlement, the liner and perimeter berms appeared intact with no visible signs of distress. Elevation surveys to monitor for settlement of the north end of the pond should be completed monthly during the snow free season. If more settlement occurs, additional geomembrane and fill must be added to restore the design freeboard (0.6 m).

3.4 Lightning Creek Bridge Abutments (Onek Road)

The Lightning Creek bridge on the Onek Road is located east of Keno City, as shown on Figure 1. The bridge is a single span steel structure founded on earth filled timber cribbing abutments. The abutments appeared stable at the time of the inspection. Consistent with previous inspections, some of the rip-rap armouring on the south abutment on the downstream side of the bridge has been displaced exposing the underlying geotextile (Photo 6). The rip-rap should be repaired as part of ongoing site maintenance to prevent erosion.

3.5 Lightning Creek Bridge Abutments (Bellekeno Haul Road)

The Lightning Creek bridge on the Bellekeno Haul Road is located southwest of Keno City, as shown on Figure 1. The bridge is a single span steel structure with a wooden deck founded on earth filled timber cribbing abutments.

The abutments appeared stabled at the time of the inspection and are sufficiently protected from erosion by rip-rap armouring. No remedial action is required for the Lightning Creek bridge on the Bellekeno Haul Road at this time.

3.6 Mill Water Storage Pond

The mill water storage pond is located at the Keno Hill District Mill Site, west of Keno City, as shown on Figure 1. At the time of the inspection the pond was not operating but contained some water, with a freeboard of about 2 m below the perimeter berm crest (Photo 7). The perimeter berms and pond liner appeared intact with no visible signs of instability (Photo 8). No remedial action is required for the mill water storage pond at this time.

3.7 Dry Stacked Tailings Facility

The dry stacked tailings facility (DSTF) is located at the Keno Hill District Mill Site west of Keno City, as shown on Figure 1. No tailings have been placed in the DSTF since mining operations were suspended in winter 2013. The tailings placed to date have been regraded, covered with organic growth medium, and seeded as part of progressive reclamation activities (Photo 9). No visible signs of instability were observed at the time of the inspection and to date, operation and performance of the DSTF has been consistent with the design.

The lower bench of the DSTF has been constructed to the extents of the design footprint and the tailings covered as described above. The toe runoff collection ditch below the facility was designed to collect surface water from the exposed tailings. As part of ongoing progressive reclamation activities, Alexco could consider removing the toe runoff collection ditch to limit the amount of surface water reporting to the mill water storage pond (Photo 10).

3.7.1 Instrumentation

Performance of the DSTF is monitored with compaction testing during tailings placement and regular instrumentation readings. DSTF instrumentation consists of seven ground temperature cables installed to monitor permafrost conditions (six in natural soils adjacent to the DSTF and one through tailings placed within the DSTF footprint), three slope indicators installed to monitor lateral movement of the foundation soils, and one monitoring well installed to the base of the placed tailings in BH39. The locations of installed DSTF instrumentation are shown on Figure 2.

It should be noted that some critical instrumentation located within and adjacent to the DSTF is in need of repair and/or replacement.

3.7.1.1 Background Ground Temperature Readings

Updated ground temperature readings were collected from five of the six ground temperature cables installed in natural soils adjacent to the DSTF during the inspection. Readings were not collected from BH17 as the protective steel casing remains damaged, with the instrument connector wedged out of reach. The protective casing should be repaired or removed to allow for continued instrumentation reading. As indicated on the updated ground temperature profiles included in Appendix B, the slight near surface warming trend observed in previous years has continued. The warming trend appears to be more significant in areas of recent disturbance, such as BH32, indicating it may be the result of disturbance to the insulating vegetative cover during instrumentation installation. Continued regular instrumentation readings are recommended to monitor ground temperature conditions.

3.7.1.2 DSTF Ground Temperature Readings

The ground temperature cable installed in BH40, through the placed tailings and into the foundation soils below the DSTF has been damaged and requires replacement. This is a critical installation needed to confirm design assumptions and provide ongoing temperature monitoring.

3.7.1.3 Slope Indicator Readings

An updated lateral movement profile developed from readings collected from the slope indicator installed in BH36 in natural soils adjacent to the DSTF is included in Appendix C. No significant lateral movement of the foundation soils has been observed in the slope indicator results to date, although it should be noted that readings from BH28 and BH30 have not been possible in recent years as described below.

Readings were not possible in BH30 despite efforts to steam out the blockage at 3.5 m below the ground surface. Inspection of the blockage with a downhole camera indicated that the casing is likely blocked with a large rock or accumulation of surficial soil that inundated the installation. Salvage of the installation is not considered likely, a replacement borehole should be advanced near BH30 the next time a geotechnical drill program is conducted near the DSTF.

Readings were not possible in BH28 as the casing was blocked at 3.7 m below the ground surface. Inspection with a downhole camera confirmed the installation is blocked with ice and requires steaming. Partial ice blockage was likely the cause of the probe derailment experienced during prior reading attempts. At the time of the inspection there was not enough hose available for the steam unit to reach BH28 to remove the ice blockage.

BH28 should be steamed and purged of water. The casing should then be filled using liquid with a depressed freezing point to allow for future readings. Tetra Tech has had success with Envirobind (dust suppressant) and glycol based liquids in permafrost conditions on other sites. We would be pleased to assist with the rehabilitation of the installation, if requested.

3.7.2 Monitoring Well Readings

A water level sounder was used to check for accumulated water at the base of the placed tailings in the DSTF within BH39. At the time of the inspection, moisture was detected but no measureable column of water was observed. The moist condition observed is likely indicative of surface water that infiltrated the placed tailings draining along the top of the liner, as the original facility design intended.

4.0 CONCLUSIONS

The surface engineered earth structures inspected pose no significant risk to the environment or human health and safety in their current condition. The remedial actions recommended in the previous sections are summarized in the following Table 1 for reference.

Table 1: Summary of Remedial Recommendations

Structure	Stability Recommendations	Maintenance Recommendations
PAG Waste Storage Facility	None	▪ Complete liner installation as per the original design if facility is to be used in the future
Bellekeno Waste Rock Pile	None	None
Bellekeno 625 Water Treatment Ponds	▪ Conduct monthly elevation surveys during snow free season of perimeter berm crest of secondary pond to monitor for settlement	▪ Add geomembrane and fill if freeboard decreases to less than 0.3 m
Lightning Creek Bridge Abutments (Onek Road)	None	▪ Repair displaced rip-rap on south abutment (downstream side)

Table 1: Summary of Remedial Recommendations

Structure	Stability Recommendations	Maintenance Recommendations
Lightning Creek Bridge Abutments (Bellekeno Haul Road)	None	None
Mill Water Storage Pond	None	None
Dry Stacked Tailings Facility	▪ Advance replacement borehole for BH40 within DSTF and install ground temperature cable ▪ Advance replacement borehole for BH30 and install slope indicator ▪ Rehabilitate BH28 by steaming, purging, and filling slope indicator casing with liquid suitable for use in permafrost conditions	▪ Continue regular instrumentation readings to monitor DSTF foundation conditions

5.0 LIMITATIONS OF REPORT

This report and its contents are intended for the sole use of Alexco Resource Corp. and their agents. Tetra Tech EBA Inc. (Tetra Tech) does not accept any responsibility for the accuracy of any of the data, the analysis, or the recommendations contained or referenced in the report when the report is used or relied upon by any Party other than Alexco Resource Corp., or for any Project other than the proposed development at the subject site. Any such unauthorized use of this report is at the sole risk of the user. Tetra Tech's General Conditions are provided in Appendix A of this report.

6.0 CLOSURE

We trust this report meets your present requirements. If you have any questions or comments, please contact the undersigned.

Respectfully submitted,
Tetra Tech EBA Inc.

Prepared by:
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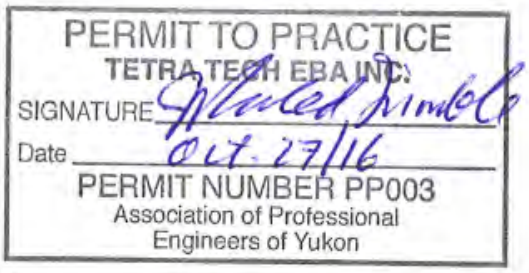
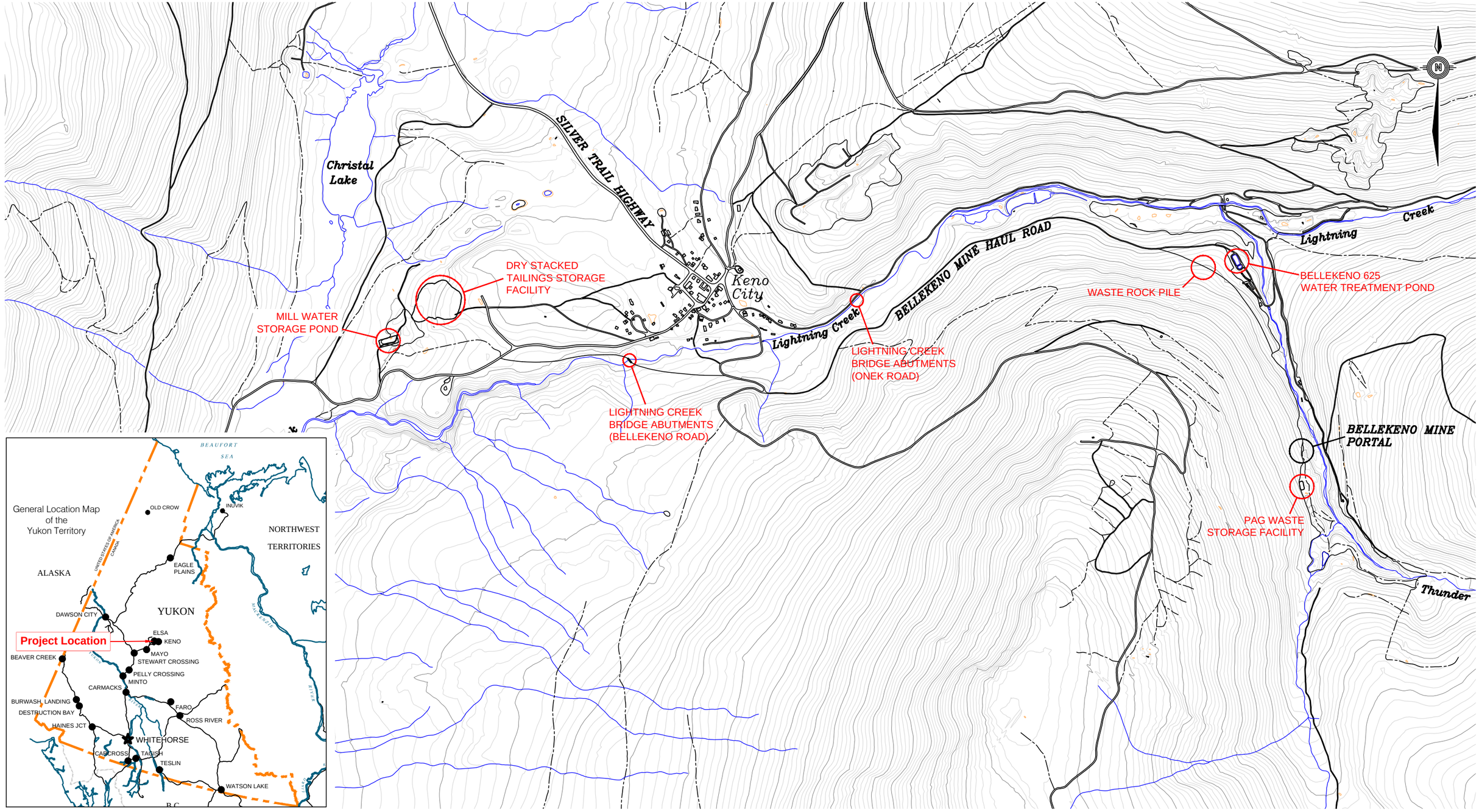


FIGURES

Figure 1 Site Plan Showing Structure Locations
Figure 2 DSTF Site Plan Showing Instrumentation Locations



NOTES

CONTOUR INFORMATION IS BASED ON DRAWING PROVIDED BY ALEXCO RESOURCE INC.

CLIENT

ALEXCO

TETRA TECH

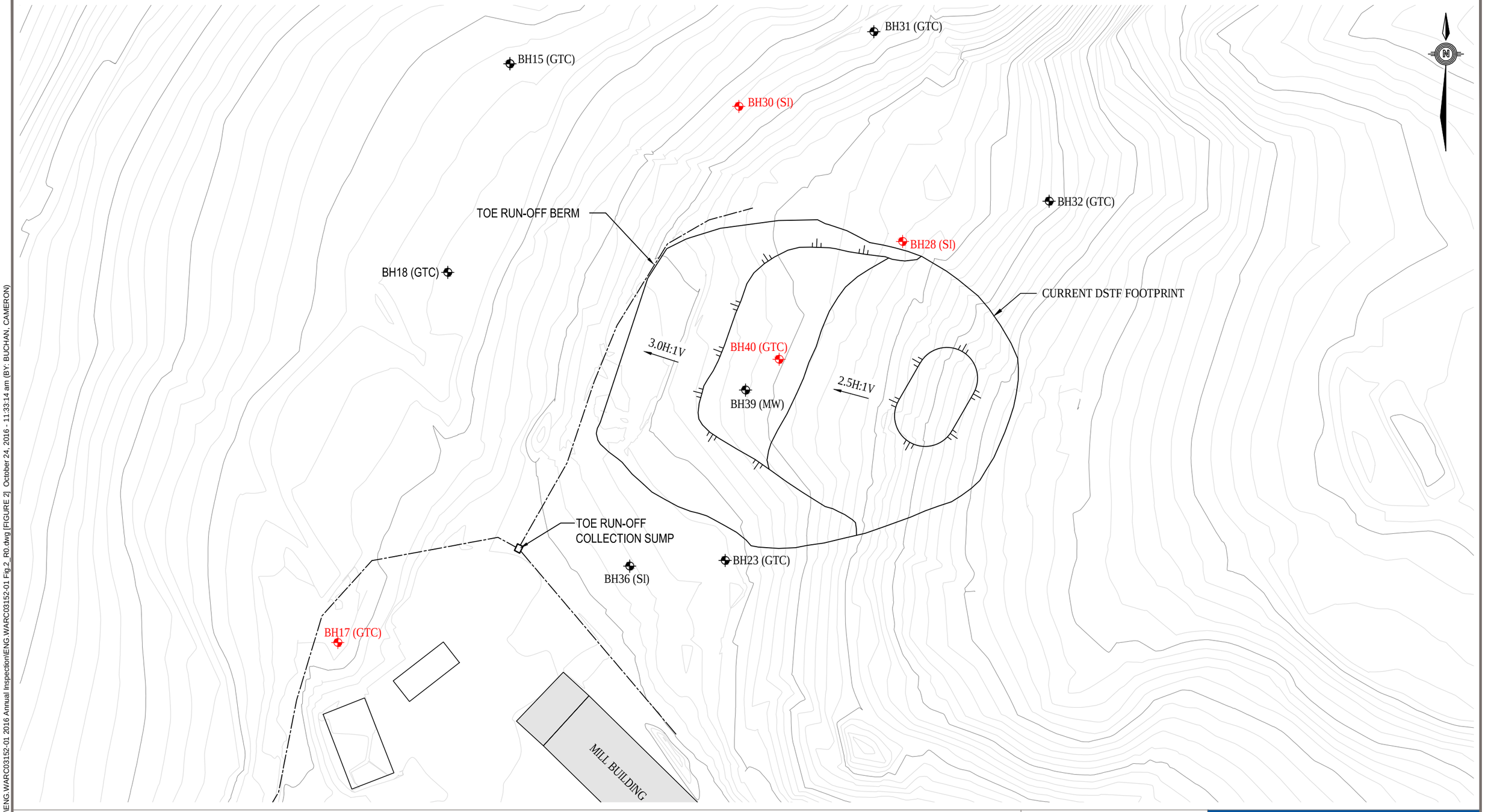
2016 ANNUAL INSPECTION
BELLEKENO MINE SITE - KENO CITY, YUKON

SITE PLAN SHOWING
STRUCTURE LOCATIONS

PROJECT NO.	DWN	CKD	REV
ENG.WARC03152-01	CB	JTP	0
OFFICE: EBA-WHSE	DATE: October 24, 2016		

Figure 1

Q:\Whitehorse\Data\02\Drawings\Keno\ENG.WARC03152-01 2016 Annual Inspection\ENG.WARC03152-01 Fig.1_R0.dwg [FIGURE 1] October 24, 2016 - 11:32:50 am (BY: BUCHAN, CAMERON)



LEGEND

GTC - GROUND TEMPERATURE CABLE

SI - SLOPE INDICATOR

MW - MONITORING WELL

0 50m

Scale: 1:1,250 @ 11"x17"

NOTE

INSTRUMENTATION SHOWN IN RED HAS BEEN DAMAGED.

CLIENT

ALEXCO

TETRA TECH

2016 ANNUAL INSPECTION
BELLEKENO MINE SITE - KENO CITY, YUKON

SITE PLAN SHOWING
BOREHOLE AND INSTRUMENTATION LOCATIONS

PROJECT NO.	DWN	CKD	REV
ENG.WARC03152-01	CB	JTP	0

OFFICE: EBA-WHSE

DATE: October 24, 2016

Figure 2

Q:\Whitehorse\Data\0201drawings\Keno\ENG.WARC03152-01 2016 Annual Inspection\ENG.WARC03152-01 Fig2_R0.dwg [FIGURE 2] October 24, 2016 - 11:33:14 am (BY: BUCHAN, CAMERON)

PHOTOGRAPHS

Photo 1: **PAG Waste Storage Facility**
Unfinished liner installation
Facing north - August 18, 2016

Photo 2: **PAG Waste Storage Facility**
Stable perimeter berm
Facing north - August 18, 2016

Photo 3: **Bellekeno Waste Rock Pile**
Stable pile sideslope
Facing north - August 18, 2016

Photo 4: **Bellekeno 625 Water Treatment Ponds**
Operating water treatment ponds
Facing north - August 18, 2016

Photo 5: **Bellekeno 625 Water Treatment Ponds**
Diminished freeboard at north end of facility
Facing north - August 18, 2016

Photo 6: **Lightning Creek Bridge (Onek Road)**
Exposed geotextile on south abutment
Facing south - August 18, 2016

Photo 7: **Mill Water Storage Pond**
Water level in pond
Facing west - August 18, 2016

Photo 8: **Mill Water Storage Pond**
Intact liner and stable perimeter berm
Facing south - August 18, 2016

Photo 9: **Dry Stacked Tailings Facility**
Covered and seeded tailings
Facing north - August 18, 2016

Photo 10: **Dry Stacked Tailings Facility**
Toe runoff collection ditch below facility
Facing east - August 18, 2016

APPENDIX A
TETRA TECH'S GENERAL CONDITIONS

GENERAL CONDITIONS

GEOTECHNICAL REPORT

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

1.1 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 TETRA TECH’s Client. TETRA TECH 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 TETRA TECH’s Client unless otherwise authorized in writing by TETRA TECH. 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 TETRA TECH. Additional copies of the report, if required, may be obtained upon request.

1.2 ALTERNATE REPORT FORMAT

Where TETRA TECH submits both electronic file and hard copy versions of reports, drawings and other project-related documents and deliverables (collectively termed TETRA TECH’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 TETRA TECH shall be deemed to be the original for the Project.

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

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

1.3 ENVIRONMENTAL AND REGULATORY ISSUES

Unless stipulated in the report, TETRA TECH 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.

1.4 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. TETRA TECH 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.

1.5 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.

1.6 STRATIGRAPHIC AND GEOLOGICAL INFORMATION

The stratigraphic and geological information indicated on drawings contained in this report are inferred from logs of testholes and/or soil/rock exposures. Stratigraphy is known only at the locations of the testhole or exposure. Actual geology and stratigraphy between testholes 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. TETRA TECH 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.

1.7 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.

1.8 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.

1.9 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.

1.10 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.

1.11 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.

1.12 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.

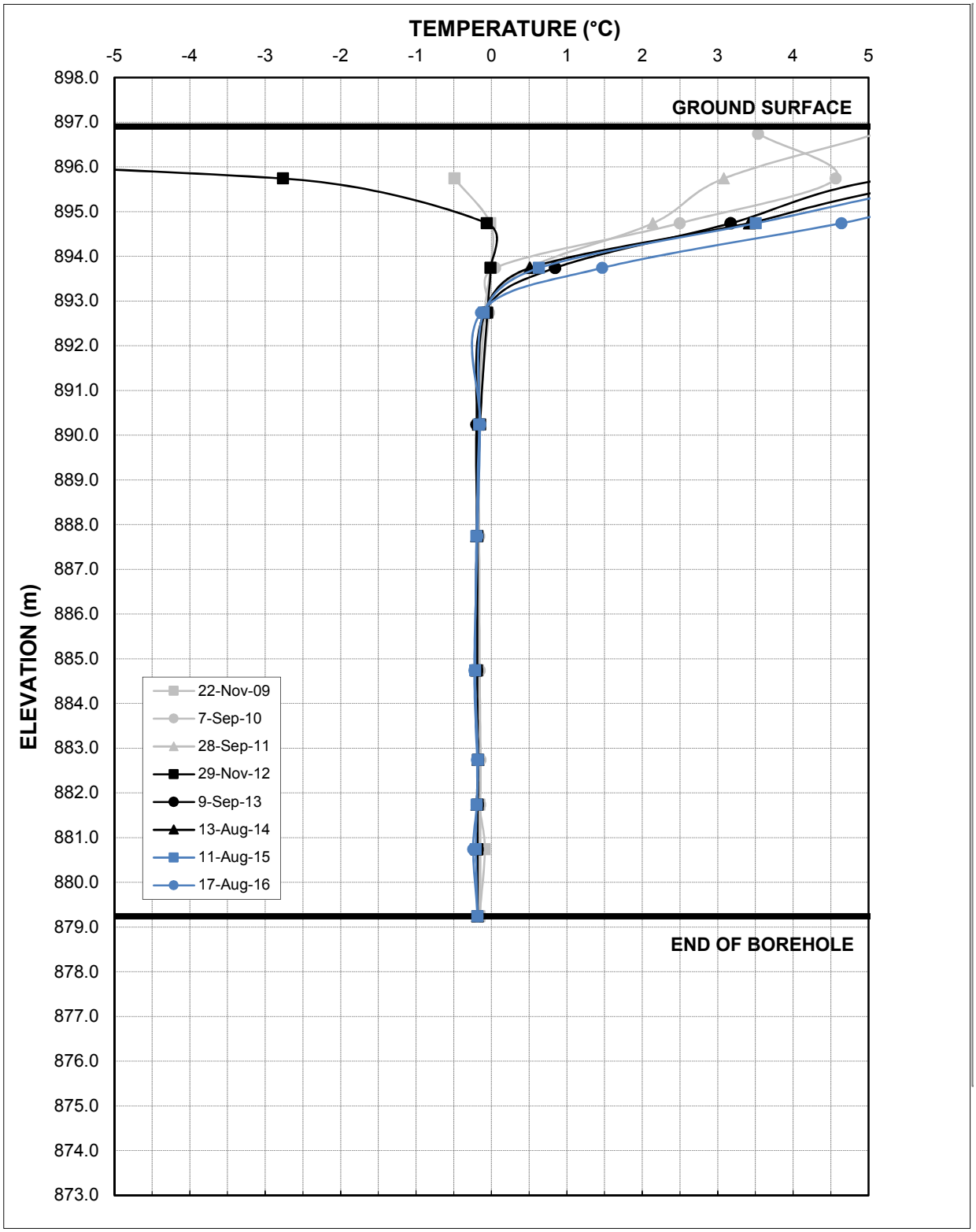
1.13 SAMPLES

TETRA TECH 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.

1.14 INFORMATION PROVIDED TO TETRA TECH BY OTHERS

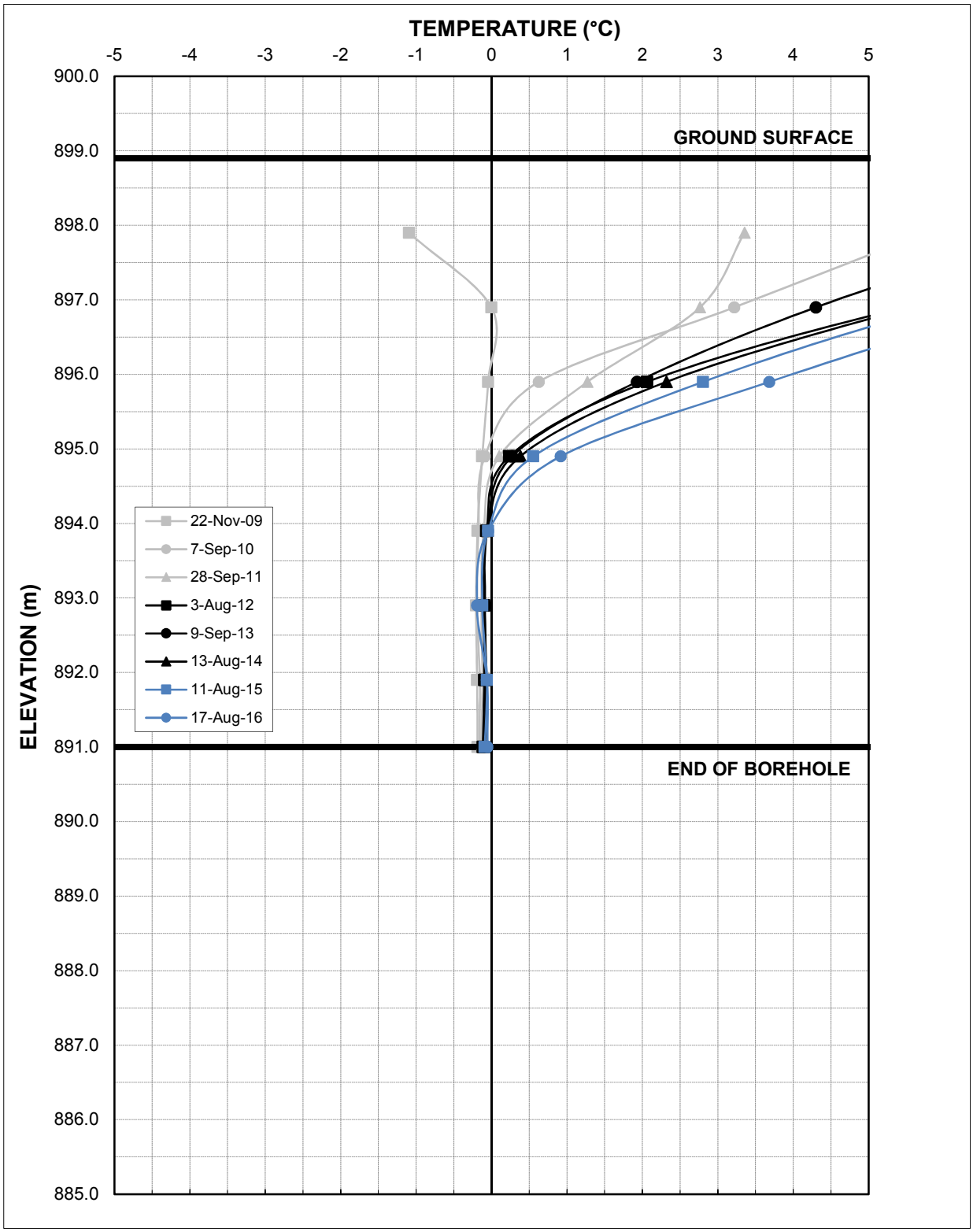
During the performance of the work and the preparation of the report, TETRA TECH may rely on information provided by persons other than the Client. While TETRA TECH endeavours to verify the accuracy of such information when instructed to do so by the Client, TETRA TECH accepts no responsibility for the accuracy or the reliability of such information which may affect the report.

APPENDIX B
DSTF GROUND TEMPERATURE PROFILES



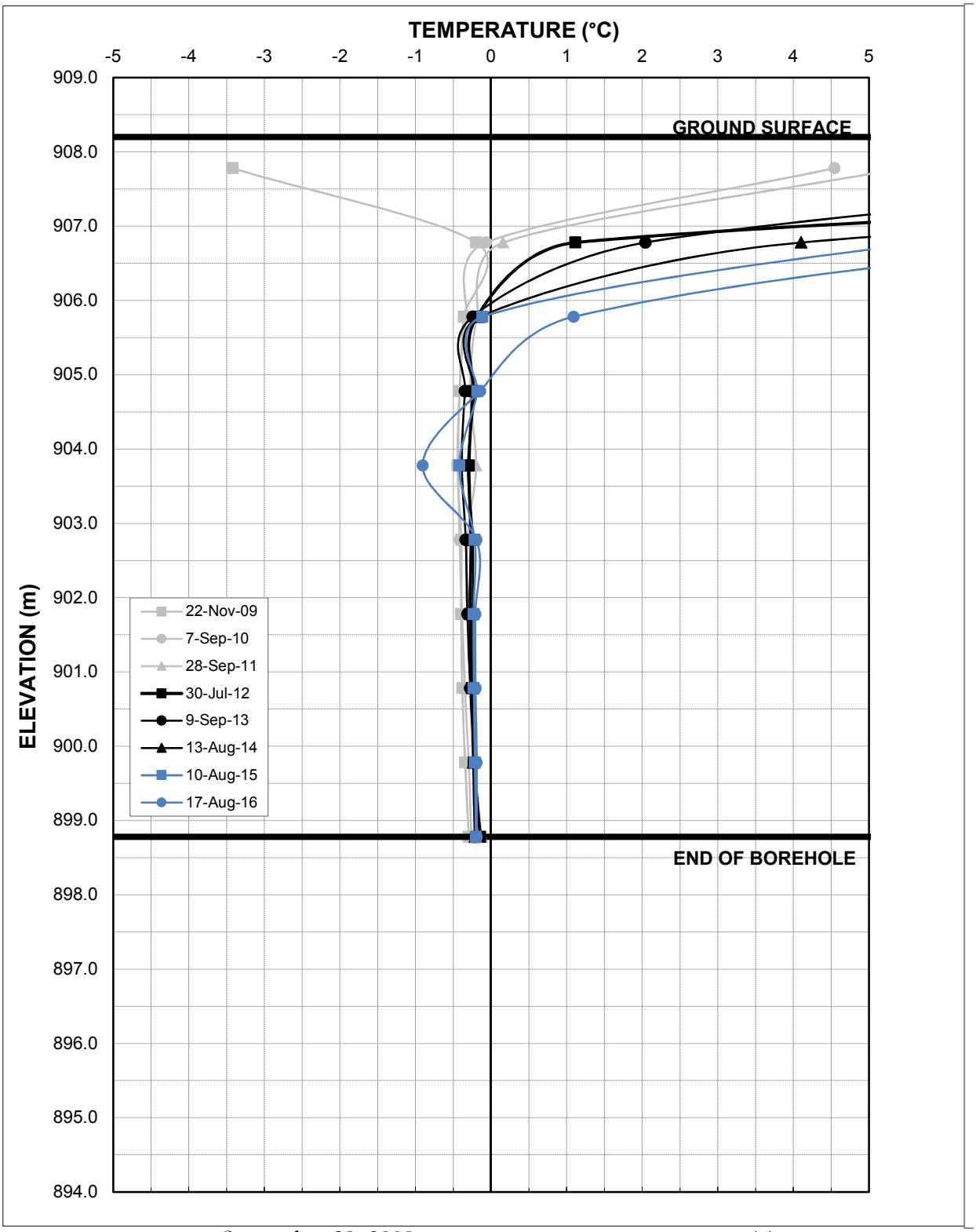
Install Date	August 30, 2009
Last Updated	August 17, 2016
Cable No:	2207

Ground Temperature Profile
Keno Hill District Mill Site Borehole BH15
Figure T1



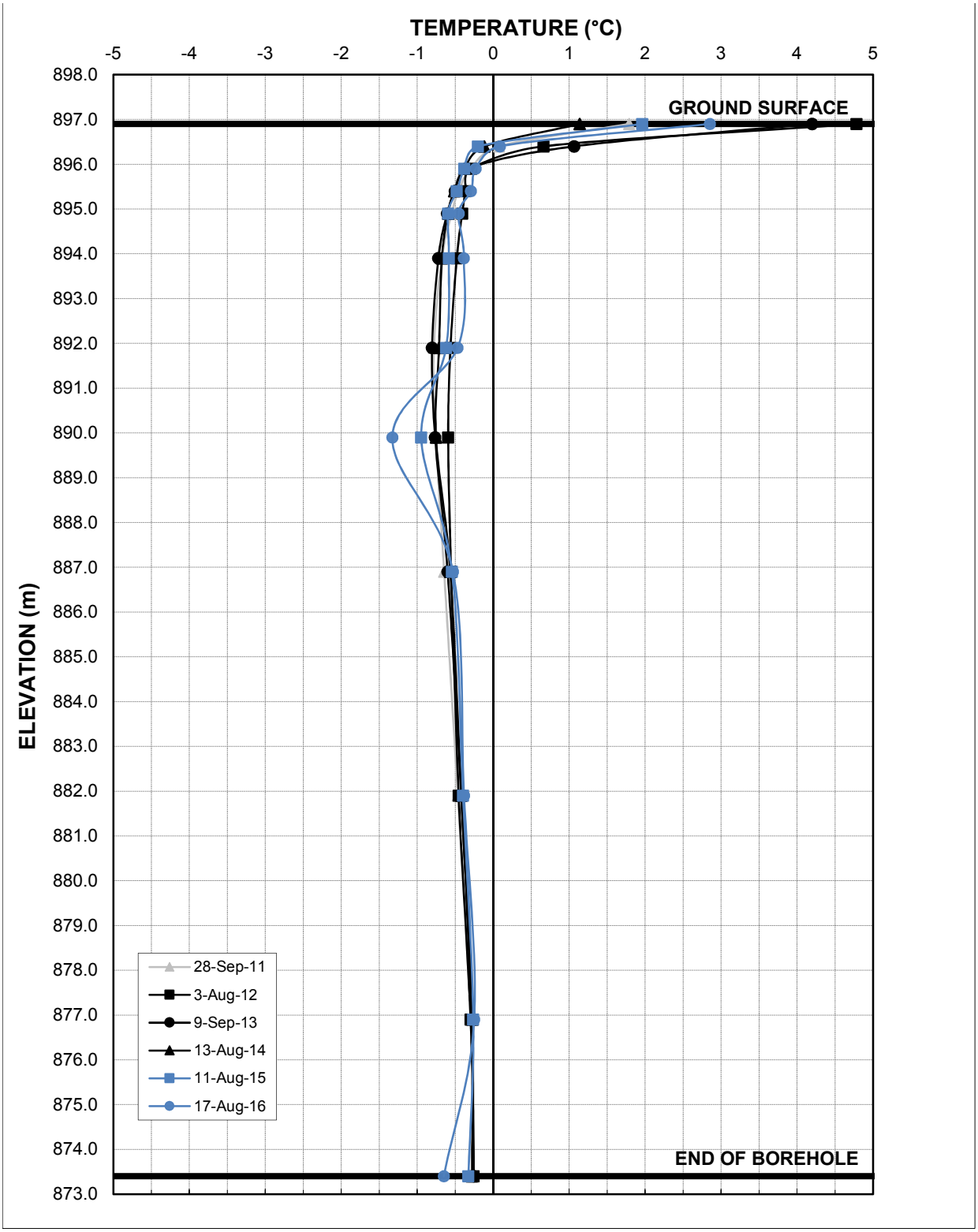
Install Date	September 2, 2009
Last Updated	August 17, 2016
Cable No:	2209

Ground Temperature Profile
Keno Hill District Mill Site Borehole BH18
Figure T3



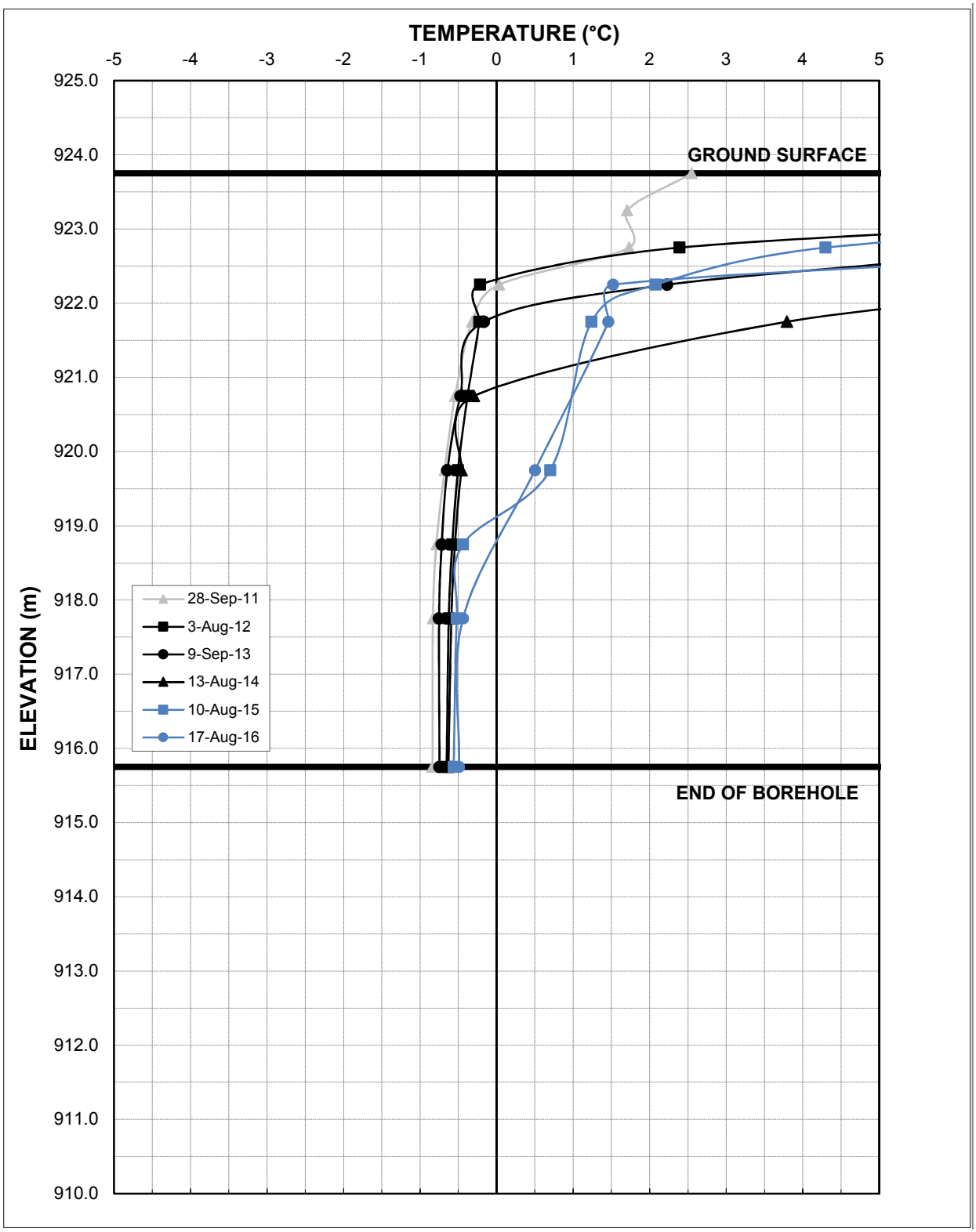
Install Date	September 29, 2009
Last Updated	August 17, 2016
Cable No:	2210

Ground Temperature Profile
Keno Hill District Mill Site Borehole BH23
Figure T4



Install Date	February 22, 2011
Last Updated	August 17, 2016
Cable No:	2263

Ground Temperature Profile
Keno Hill District Mill Site Borehole BH31
Figure T5



Install Date	February 22, 2011
Last Updated	August 17, 2016
Cable No:	2264

Ground Temperature Profile
Keno Hill District Mill Site Borehole BH32
Figure T6

APPENDIX C
DSTF LATERAL MOVEMENT PROFILES

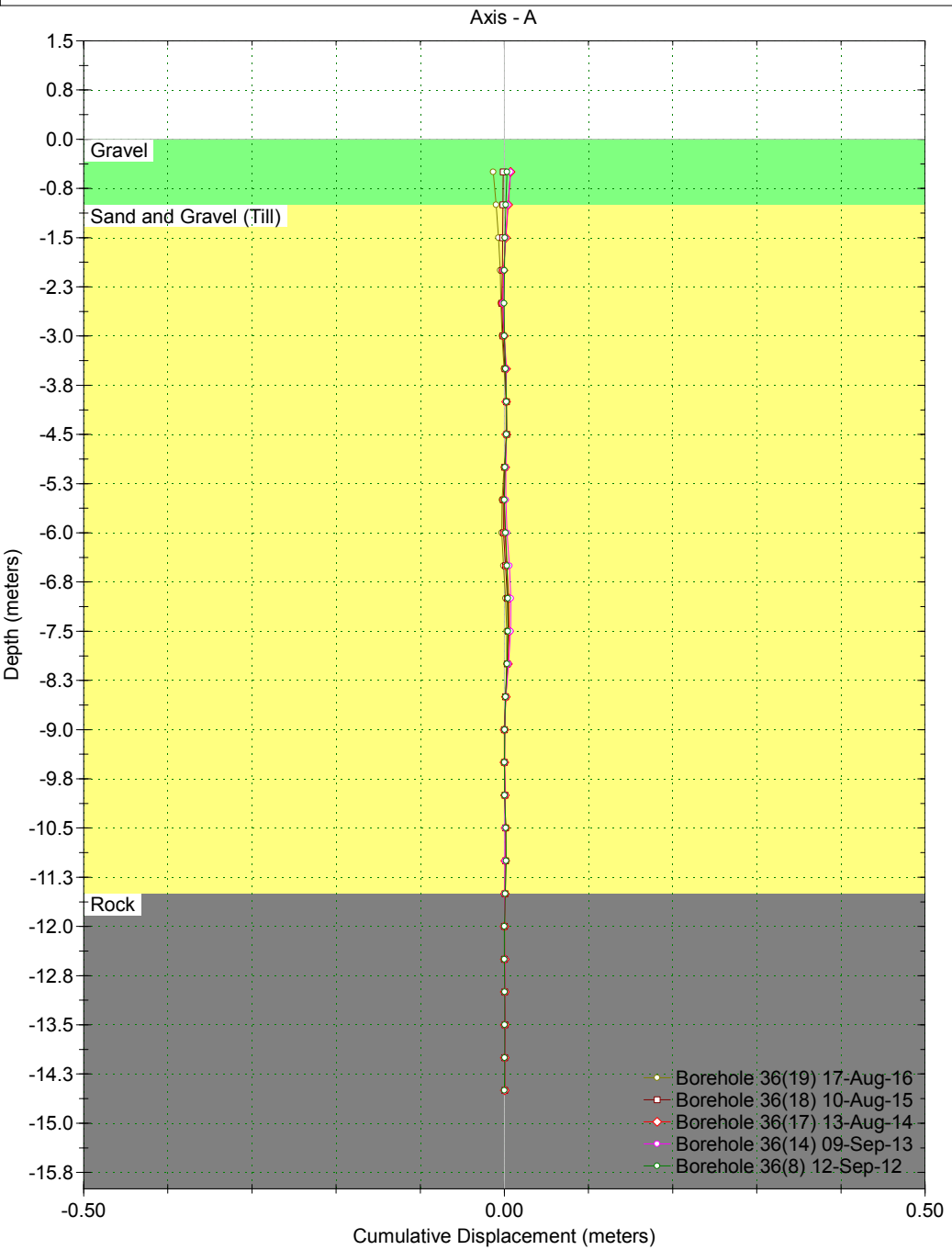
RST Instruments Ltd.

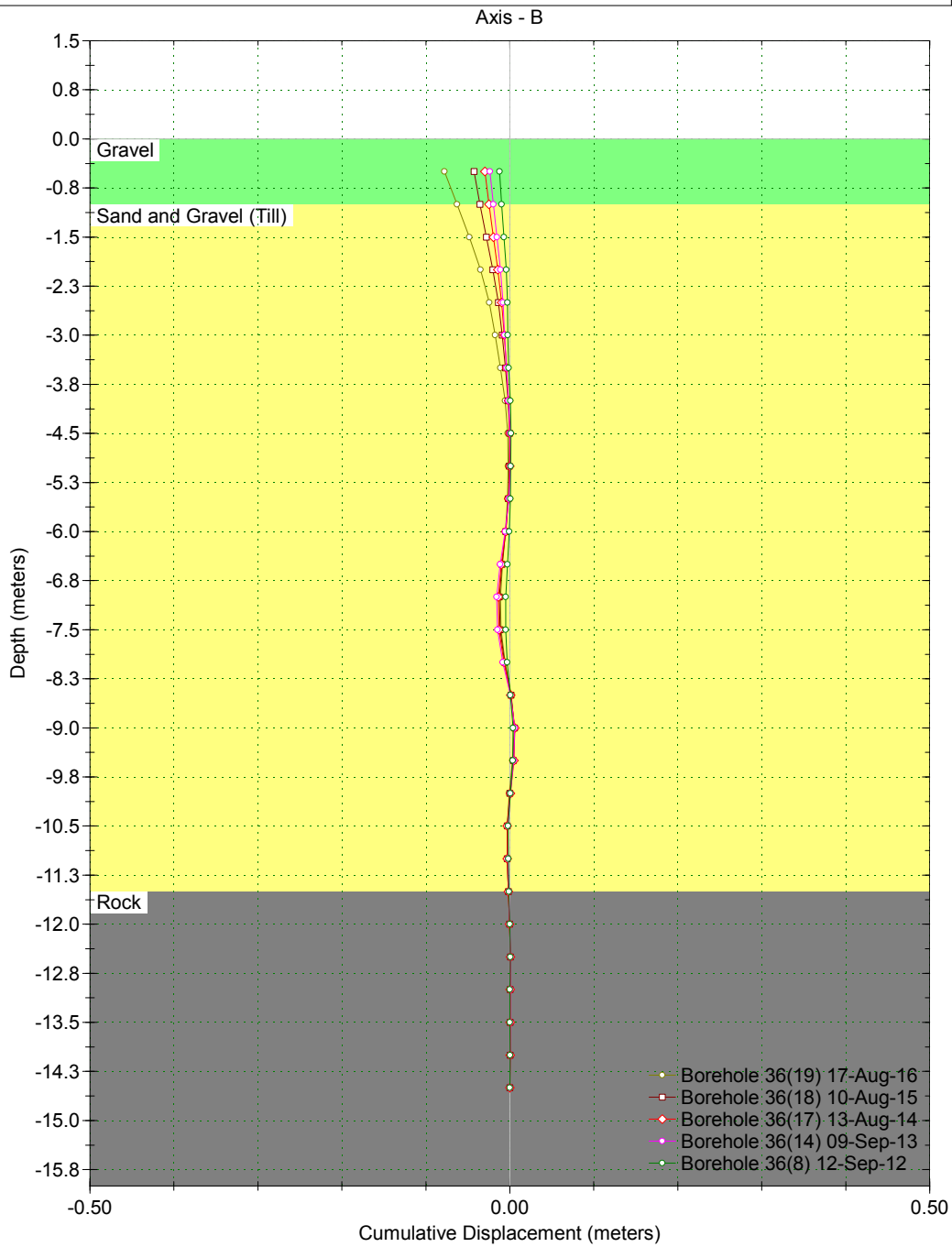
CUMULATIVE DISPLACEMENT

Inclinalysis v. 2.47.5

Borehole : BH36
Project : Keno
Location : DSTF
Northing : 7086872
Easting : 483931
Collar :

Spiral Correction : N/A
Collar Elevation : 0.0 meters
Borehole Total Depth : 14.5 meters
A+ Groove Azimuth :
Base Reading : 2011 Dec 14 16:52
Applied Azimuth : 0.0 degrees





APPENDIX B

2016 NOISE MONITORING RESULTS

3 Calcite Business Centre, 151 Industrial Road
Whitehorse, Yukon Y1A 2V3
Phone (867) 668-6463 Fax (867) 633-4882
www.accessconsulting.ca

Memorandum

To: Alexco Keno Hill Mining Corp.

From: Alexco Environmental Group Inc.

CC: Kai Woloshyn, Alexco Resource Corp.

Date: March 31, 2017

Re: 2016 Noise Monitoring Data Summary, Keno, YT

INTRODUCTION

As part of the Keno Hill Silver District Mining Operations Noise Monitoring and Management Plan (the Plan) (AKHM, 2015) Alexco Keno Hill Mining Corp. (AKHM) has been monitoring noise levels in Keno City. The Plan was initially developed to address any potential noise effects that might occur with the addition of the two new mines, Lucky Queen and Onek 990. In addition to noise mitigation measures and the creation of a Noise Disturbance Notification Form and Noise Disturbance Register to track noise disturbance claims, AKHM committed to monitor noise levels within the community at various locations to assess the actual versus predicted noise levels and to determine if the noise abatement measures are effective. These noise data for 2016 can now be used in the context of the no active mining period for the District. Noise data collection for the no active mining period continues in 2017.

The predicted noise levels were presented in the Noise Impact Assessment (NIA) completed by Patching Associates Acoustical Engineering Ltd. (PAAE) conducted during the Yukon Environmental and Socio-Economic Assessment Act (YESAA) process (Project 2011-0315). The NIA identifies the noise sources from the current mining-related activities, noise receptors, and predicts the anticipated noise level from all existing sources and those associated with the addition of Lucky Queen and Onek 990 mining operations.

This memo presents noise monitoring results from 2016 with reference to the data collected since 2013.

NOISE RECEPTORS

AKHM has monitored noise at the five locations selected in the NIA as being potential noise receptors within a 2 km radius study area around Keno City. Since November 2013, noise has also been monitored at a sixth location, the Keno City Campground. These monitoring locations are listed in Table 1 and shown in Figure 1.

Table 1 Representative Locations Assessed in Keno City

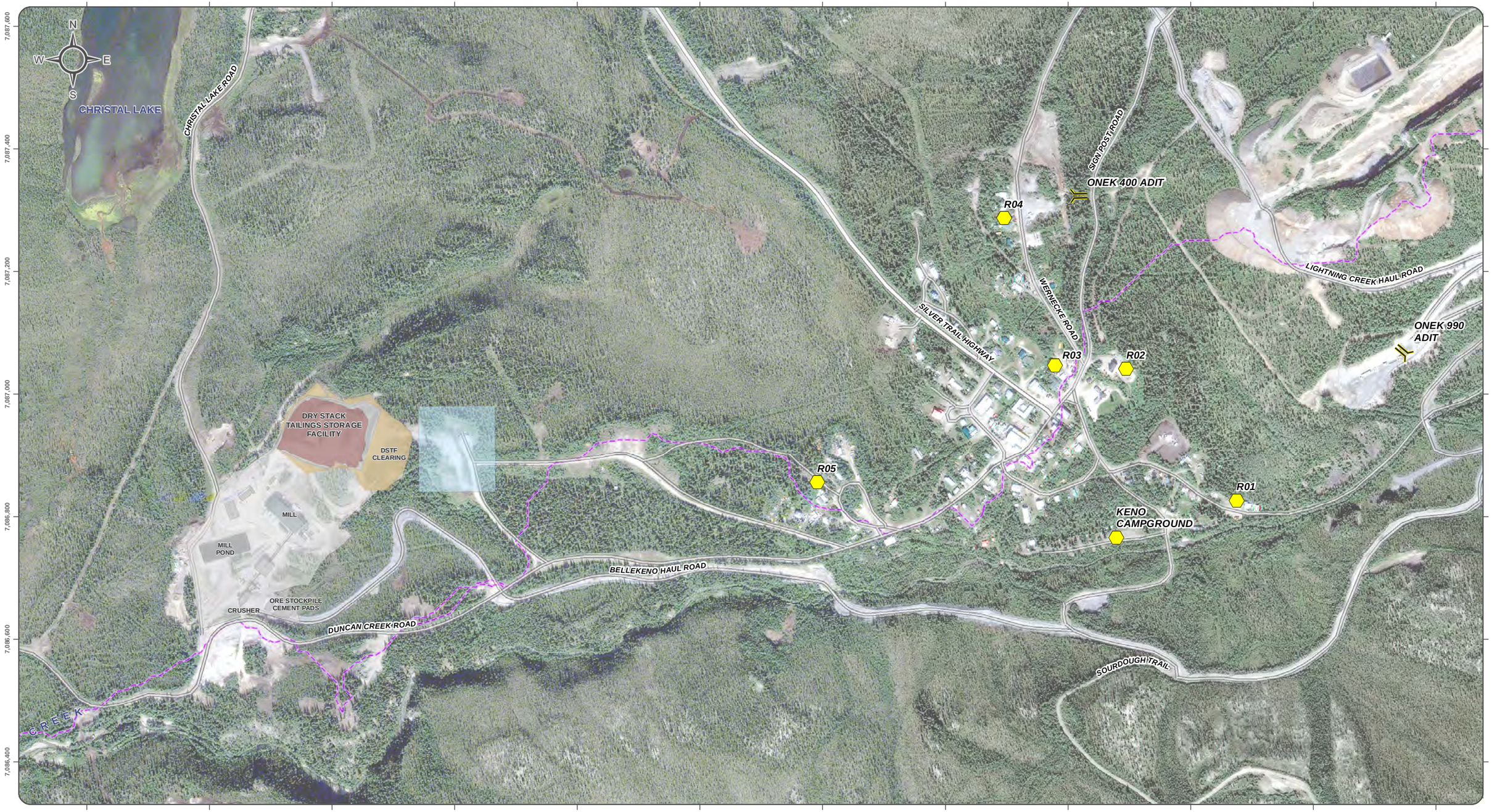
Monitoring Location	GPS Location	Description
R01	N63.90827 W135.29599	East end Residence, north side of Lightning Creek Road
R02	N63.91019 W135.29968	Residence, east side of Sign Post Road
R03	N63.91023 W135.30205	Town Center, north from the Snack Bar
R04	N63.91239 W135.30376	Residence, west side of Wernecke Road
R05	N63.90851 W135.30993	Residence, about 850 m east from the Mill
Campground	N63.90772 W135.29998	Keno City campground

The background noise levels experienced by these locations vary considerably, depending on location and local activities. Climate parameters, such as relative humidity, temperature, and temperature inversions impact the sound level and propagation experienced by each of these receptors.

MINING ACTIVITIES TIMELINE

Mining took place at Bellekeno, and milling at the Keno District Mill throughout 2013, until these were suspended on September 3rd, 2013. Operations at Onek 990 ceased at the end of May 2013. Exploration activities at Flame & Moth took place from late March to early November 2014. The remaining months: September 2013 through March 2014, and December 2014 to December 2016, can be considered baseline conditions as no mining or exploration activities were taking place near Keno City at that time.

Care and Maintenance activities associated with the closed mines are minor but ongoing from September 2013 to present, which includes activities such as maintaining roads, and other small construction activities at the mill site, with the exception of the collaring of the Flame and Moth portal.



Satellite imagery obtained from Yukon Geomatics map service http://mapservices.gov.yk.ca/ArcGIS/services on March 2016
Data obtained from EBA: "As built" spatial data: Mill pond (Y.E.S.), Mill structure, and current DSTF footprints, Roads (In House survey December 11th 2011).
Design spatial data: Conveyance and water collection, diversion ditches and berm.

Datum: NAD 83; Projection: UTM Zone 8N

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1:6,000 *(when printed on 11 x17 inch paper)*

0 50 100 150 200 Meters

- Adit
- Noise Monitoring Station
- Building/Structures
- DSTF 322k Tonnes Design
- Current DSTF
- Mill Site Footprint
- Land Disposition Garbage Dump
- Watershed Boundaries
- Silver Trail Highway
- Secondary Road

AKHM

AEG

KENO HILL SILVER DISTRICT MINING OPERATIONS

FIGURE 1

NOISE MONITORING STATIONS

MARCH 2016

D:\Project\AllProjects\Keno_Area_Mines\Bellekeno\GIS\mxd\Overview_Maps\Specific_Topics\Noise_Monitoring_Stns_20160330.mxd
(Last edited by: amatlashevska;3/30/2016/11:19 AM)

MONITORING EQUIPMENT

The noise monitoring profiles collected between April 2013 and November 2014 were measured using an Extech Integrating Sound Level Datalogger (Model 407780) to capture average dBA over a single ten minute period. The wind speed, wind direction, temperature and precipitation data from the Flame and Moth Meteorological Station, on top of the dry stack tailings facility, associated with each noise monitoring event have been reported as these can have a significant effect on measured noise levels. Any notable noise sources associated with the monitoring event were also documented where possible. The results from 31 monitoring events from April 2013 to November 2014 are presented in Appendix A.

Starting in December 2014, noise monitoring readings were collected with a Casella CEL-63X Sound Level Meter and a Casella CEL-495 Microphone. The microphone was mounted on a tri-pod at approximately 1.5 meters above ground and surrounded by a windscreen provided by Casella for use with this microphone to reduce wind impacts as required for outdoor sound measurements. The sound level meter and battery power source were housed inside a weather-proof case which was held in a locked metal box for extra security.

In 2015, 24 hr period data were able to be collected in January and August through November; equipment issues preventing the collection of 24 hr period data for the remainder of the year. In 2016, 24 hr period data were collected every month, however not all stations could be monitored every month due to battery or other equipment issues, or the temperature being below operating conditions for the equipment.

RESULTS

In 2016, a total of 46 24 hr period sampling events took place over 12 months. The LA_{eq} values for all of these measurements ranged from 21.4 to 111.8 dB, with a median of 38.7 dB. The LA_{eq} is an equivalent continuous sound level which would contain the same sound energy as the varying sound record. The LA_{eq} value exceeds the LAF_{10} value for these measurements 67% of the time, indicating that these 24 hr noise monitoring events are characterized by short-term events and not general background levels.

The difference between the LA_{eq} and the LAF_{90} provides an indication if the LA_{eq} has been heavily influenced by short term noise events (difference greater than 10dB) or if the LA_{eq} indicates a very steady noise background level (difference less than 5dB). Approximately 53% of the LA_{eq} values are heavily influenced by short term events, compared to 18% which show a very steady noise environment. As 2016 represents baseline conditions, much of the short term noise events was presumably road traffic, such as the water truck or local vehicle traffic.

Approximately 65% of the LA_{eq} measurements in 2016 exceeded the predicted levels from the NIA range (from 32 to 39 dB) and of those that exceeded, 35% represent steady to very steady baseline conditions. Baseline noise levels were greater than those predicted in the NIA on several occasions in 2014 and 2015 as well, indicating that many of the notable noise sources are not linked to Keno mining or milling operations.

Noise levels (LA_{eq}) at the campground were generally steady or very steady and ranged from 15.5 to 44.5 dB in 2016. 44% of the measurements were less than 5dB from the LAF_{90}, indicating these values represent very steady background data, and only one measurement is greater than 10 dB from the LAF_{90}.

The Casella sound meter is calibrated in the field before and after each set of measurements. This calibration data is recorded with the noise monitoring records. The drift can be affected by temperature or too long a period from factory calibration. If the drift is greater than ±3.0 dB not all data is recorded. Since drift increases as temperature decreases, it is important to keep the sound level meter and microphone as warm as possible. During periods of extended low temperatures, the data validity may need to be assessed. In 2016, calibration drift remained smaller than ±3dB for all 24 hr sampling events. However, the in December 2016 the equipment failed to run at all as the temperature was too cold.

Table 2 presents all 24 hr period noise data available to date (all data runs with <24 hours have been excluded), and associated meteorological parameters obtained from the district mill weather station (averaged from hourly data for the corresponding 24 hr period). The existing 2013 and 2014 noise data are provided in Appendix A.

Table 2 2014-2016 24 hr Noise Data and Corresponding Meteorological Data

Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF10	LAeq - LAF90 (dB)	LZeq	LAIeq	LAE	LCeq	LCeq-LAeq	Calibration Drift	Temp. (˚C)	R.H. (%)	Avg. WS (m/s)
R01	14/12/2014 10:30	43.1	N/A	N/A			72.7	45.3	92.4	59.4	16.4	-4.8	-4.4	92.6	n/a
R02	15/12/2014 16:20	44.3	N/A	N/A			77.1	49.6	93.7	64.3	20	-4.8	-1.9	76.4	1.35
R03	17/12/2014 10:00	58.6	N/A	N/A			59.4	62	108	59.2	0.6	-4.8	-8.4	94.4	0.70
R05	18/12/2014 10:30	42.0	N/A	N/A			50.6	45.2	91.3	48.5	6.6	-4.8	-13.6	90.7	0.60
Cmpgr.	22/12/2014 12:30	25.4	N/A	N/A			43.5	27.4	74.8	38	12.6	-4.8	-9.6	93.8	n/a
R01	10/01/2015 10:15	28.8	N/A	N/A			38.2	33.4	78.2	35.6	6.8	-4.8	-10.2	93.7	n/a
R02	11/01/2015 15:50	33.8	N/A	N/A			43.8	36	83.2	40.3	6.5	-4.8	-10.1	93.3	n/a
R03	13/01/2015 8:40	28.6	N/A	N/A			40.7	31.6	78	37.9	9.3	---.-	-7.3	95.3	n/a
R04	14/01/2015 9:45	36.5	N/A	N/A			51.4	41.8	85.9	47.6	11.1	-4.8	-9.4	93.9	n/a
R05	15/01/2015 12:30	37.5	N/A	N/A			47.8	42.1	86.9	41.1	3.6	-4.8	-1.8	99.0	0.52
Cmpgr.	22/01/2015 8:30	23.2	N/A	N/A			28	23.4	72.6	22.5	-0.7	---.-	-9.8	93.6	0.47
N/A	13/08/2015 11:00	34.2	35.5	22.5	No	11.70	56.1	36.6	83.6	51.4	17.2	0.3	8.6	63.3	1.57
N/A	14/08/2015 13:30	111.8	116.0	45.5	No	66.30	123.9	119.1	161.2	118	6.2	0.3	9.7	68.4	1.68
N/A	16/08/2015 14:00	49.2	48.0	46.5	Yes	2.70	62.6	52.6	98.6	61.3	12.1	0.3	11.3	67.5	1.56
N/A	23/08/2015 11:00	60.6	61.0	60.0	No	0.60	62.7	61.2	110	62	1.4	0.3	8.3	84.0	1.38
N/A	24/08/2015 13:00	41.9	38.5	20.5	Yes	21.40	54.1	47.2	91.3	52	10.1	0.3	7.7	87.2	0.95
N/A	12/09/2015 10:00	---.-	8.5	8.0			---.-	---.-	57.7	---.-	-1.1	0.3	4.6	79.4	1.73
N/A	14/09/2015 10:15	---.-	8.5	8.0			---.-	---.-	57.7	---.-	-1.1	0.3	3.3	87.8	1.00
N/A	15/09/2015 10:30	---.-	8.5	8.0			---.-	---.-	57.7	---.-	-1.1	0.3	1.4	93.6	1.09
N/A	17/09/2015 6:00	---.-	8.5	8.0			---.-	---.-	57.7	---.-	-1.1	0.3	5.2	84.6	1.58
N/A	18/09/2015 13:15	---.-	8.5	8.0			---.-	---.-	57.6	---.-	-1.1	0.3	2.5	81.2	1.65
N/A	17/10/2015 12:40	30.4	31.5	20.0	No	10.40	44.8	35.8	79.8	40.5	10.1	0.3	3.3	94.8	0.76
N/A	18/10/2015 16:33	58.9	59.5	58.5	No	0.40	61	59.4	108.3	59.8	0.9	0.3	4.1	85.3	0.84
R05	14/11/2015 11:30	32.8	17.0	15.0	Yes	17.80	42.4	33.6	82.2	39.2	6.4	0.3	-18.4	86.5	n/a
R01	16/11/2015 8:30	34.7	19.5	16.0	Yes	18.70	51.2	37	84	49.2	14.5	0.3	-17.4	87.3	n/a
R04	17/11/2015 10:00	21.3	18.0	15.5	Yes	5.80	46.4	27.3	70.6	36.3	15	0.3	-21.0	83.9	n/a
R02	19/11/2015 9:00	33.1	16.0	15.5	Yes	17.60	46.9	40.3	82.4	44.2	11.1	0.3	-28.4	76.7	n/a
R03	21/11/2015 9:40	39.7	17.5	16.0	Yes	23.70	47.8	46	89	46.3	6.6	0.3	-9.0	94.0	n/a
Cmpgr.	07/01/2016 11:30	23.2	20	15.5	Yes	7.70	38.1	30.2	72.5	75.8	7.8	0.1	-16.1	81.8	0.63
R03	08/01/2016 18:45	28.3	19.5	16.5	Yes	11.80	40	35.9	77.7	74.6	4.5	-0.2	-11.5	90.4	0.44
R01	09/01/2016 19:30	39.0	20.0	15.5	Yes	23.50	48.9	41.7	88.4	79.3	6.4	-0.2	-14.6	89.7	0.51
R05	10/01/2016 20:30	30.6	20.5	15.5	Yes	15.10	44.1	35.5	80	71.6	5.7	-0.2	-18.2	86.5	0.33
N/A	14/01/2016 17:00	25.4	17.0	15.5	Yes	9.90	36.5	33.6	74.7	68.1	6.6	0.1	-8.1	94.5	n/a
R04	15/02/2016 17:00	25.5	19.0	15.5	Yes	10.00	48.5	33.9	74.9	68.1	6.3	0.3	-7.8	89.0	1.12
R03	17/02/2016 10:00	23.9	19.0	15.0	Yes	8.90	40.3	30.2	73.3	66.8	11.6	-2.1	-22.9	77.9	0.45

Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF10	LAeq - LAF90 (dB)	LZeq	LAleq	LAE	LCeq	LCeq-LAeq	Calibration Drift	Temp. (˚C)	R.H. (%)	Avg. WS (m/s)
Ball diamond	25/02/2016 9:00	---.-	18.5	15.5	Yes	n/a	43.7	24.4	69.3	56.2	9.2	-0.2	-5.5	81.4	1.27
R01	28/02/2016 10:40	22.4	20.5	16.5	Yes	5.90	55.1	26.1	71.8	65	15.6	-0.5	-2.8	85.0	0.92
R04	12/03/2016 17:30	37.5	25.0	15.5	Yes	22.00	56.9	44.4	86.8	82	3.8	0.4	-5.3	62.8	1.03
N/A	14/03/2016 10:32	44.9	24.0	21.0	Yes	23.90	49	48.2	94.2	91.6	2.9	0.1	-7.6	88.2	0.87
R05	15/03/2016 11:32	26.1	22.0	17.0	Yes	9.10	56.1	32.5	75.5	65.4	13.8	-0.1	-6.2	91.4	0.86
R03	17/03/2016 10:00	111.8	115.5	45.5	No	66.30	127.7	120.4	161.2	136.7	7.8	-0.1	-4.9	70.9	1.09
Cmpgr.	18/03/2016 11:00	27.7	30.5	18.5	No	9.20	57.5	31.3	77.1	63.7	12.9	-0.1	-7.8	72.8	1.89
N/A	01/04/2016 15:00	54.4	46.0	30.5	Yes	23.90	61.6	64.7	103.7	108.5	4.9	0.2	3.5	67.2	1.25
R05	15/04/2016 11:46	31.9	30.0	18.0	Yes	13.90	54.3	34.4	81.2	67.1	9.1	-0.1	3.2	63.6	1.51
R03	16/04/2016 13:00	41.0	34.5	17.0	Yes	24.00	60.8	43.7	90.4	75.3	12.1	----	3.7	57.2	1.56
R04	18/04/2016 15:30	28.0	27.0	17.0	Yes	11.00	56.3	36.1	77.4	72	11.9	-0.1	0.5	64.2	1.73
R02	23/04/2016 8:30	29.1	28.5	16.5	Yes	12.60	65.9	38	78.5	66.9	20.1	0.1	7.3	59.3	1.44
Cmpgr.	24/04/2016 9:05	35.2	34.5	27.5	Yes	7.70	52.4	36.9	84.5	67.9	14.3	-0.1	7.6	59.9	1.28
R01	25/04/2016 12:00	39.1	39.5	36.5	No	2.60	55.1	39.5	88.4	73.4	13.5	-0.1	5.7	57.5	1.78
R01	15/05/2016 8:40	49.3	50.5	48.0	No	1.30	57.5	49.7	98.7	66.3	3.3	-0.1	12.2	47.4	2.30
R02	16/05/2016 11:10	44.4	42.5	24.5	Yes	19.90	64.9	56.9	93.8	84.1	10.7	----	5.9	71.5	3.12
R03	18/05/2016 13:00	38.7	38.5	24.5	Yes	14.20	60.2	40.4	88.1	76.9	13.6	0.1	7.5	66.6	1.88
R04	19/05/2016 14:15	39.2	34.0	21.5	Yes	17.70	59.5	46.8	88.6	81	6.3	-0.2	10.3	56.7	1.57
Cmpgr.	21/05/2016 8:30	47.1	48.5	44.5	No	2.60	56.8	47.8	96.4	79.2	7.7	----	16.6	39.4	1.47
R05	22/05/2016 11:30	41.0	44.0	30.5	No	10.50	52.8	42.8	90.4	69.9	10.3	-0.2	9.9	66.2	1.72
R01	13/06/2016 8:40	50.9	51.0	50.0	No	0.90	53.8	54.5	100.2	85.4	2.5	----	11.1	78.0	1.63
R05	19/06/2016 8:40	39.7	42.5	31.5	No	8.20	53	41.6	89.1	70.4	7.5	0.1	19.6	26.9	2.28
R04	20/06/2016 13:40	38.5	34.0	21.0	Yes	17.50	55.6	48.8	87.9	82.7	10	0.1	10.3	79.6	1.47
R03	29/06/2016 13:00	48.0	44.0	22.5	Yes	25.50	61	53.6	97.3	91.1	10.8	-0.2	15.5	67.8	1.35
Cmpgr.	30/06/2016 18:00	51.1	51.0	15.5	Yes	35.60	57	60.1	100.5	95.4	5	0.1	12.7	83.3	0.69
R05	17/07/2016 8:30	40.5	42.0	30.5	No	10.00	52.9	43.3	89.9	75.8	8.9	----	14.8	64.6	2.50
Cmpgr.	18/07/2016 14:30	48.3	46.5	44.5	Yes	3.80	54.1	56.6	97.6	90.1	4.7	-0.1	11.2	82.5	1.61
R03	30/07/2016 19:30	40.3	38.5	27.0	Yes	13.30	61.1	46.4	89.7	84.8	14	----	13.7	69.0	2.00
R01	31/07/2016 20:00	91.0	92.5	61.5	No	29.50	105.5	97.9	140.3	128.2	5.4	0.2	12.5	65.7	1.93
N/A	18/08/2016 16:35	94.1	71.0	35.0	Yes	59.10	109.9	101.7	143.5	132.6	7.9	-0.2	9.6	87.0	0.84
N/A	20/08/2016 13:00	38.1	40.0	29.0	No	9.10	52.3	40.5	87.4	75.3	10.4	0.1	10.6	72.3	1.55
Cmpgr.	21/09/2016 17:05	44.3	46.0	40.5	No	3.80	59.3	47.9	93.7	77.5	5.1	----	10.1	36.8	2.63
R01	22/09/2016 17:51	46.5	47.0	45.0	No	1.50	64.8	46.9	95.8	72.8	5.2	0.1	7.2	56.4	2.47
R04	23/09/2016 20:15	33.9	33.5	23.5	Yes	10.40	57.2	38.1	83.3	72	13.8	-0.1	4.1	59.1	1.85
R05	24/09/2016 20:40	77.2	73.5	39.5	Yes	37.70	89.3	89.8	126.6	122.1	4.5	0.2	0.9	94.4	0.88
N/A	28/09/2016 15:30	37.0	31.0	22.5	Yes	14.50	58.5	39.8	86.3	77.2	13.7	----	1.0	66.7	1.90
N/A	25/10/2016 10:00	36.0	35.5	26.0	Yes	10.00	63.4	40.8	85.3	81	22.3	-0.1	-15.2	89.0	0.54

Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF10	LAeq - LAF90 (dB)	LZeq	LAIeq	LAE	LCeq	LCeq-LAeq	Calibration Drift	Temp. (˚C)	R.H. (%)	Avg. WS (m/s)
N/A	26/10/2016 11:00	33.2	34.5	25.0	No	8.20	59.3	35.6	82.6	70.6	22.2	-0.1	-10.7	92.1	0.66
R01	11/11/2016 7:15	40.4	40.5	37.5	No	2.90	53.6	42.4	89.8	83.4	7.1	----	1.3	69.8	1.90

Legend:

Yes	When LAeq > LAF10
<5	LAeq - LAF90 (dB) less than 5
>10	LAeq - LAF90 (dB) greater than 10
Red	Calibration Drift greater than 3.0 dB

NOISE COMPLAINTS

No formal noise complaints were received by AKHM in 2016.

CONCLUSION

Noise levels measured at all noise receptors were well within or below the 50-90 dBA range deemed to be socially acceptable for daytime noise limits, with the exception of 3 anomalous data points. The majority of the LA_{eq} measurements in 2016 exceeded the predicted levels from the NIA range and of those that exceeded, 35% represent steady to very steady baseline conditions, despite the absence of mining and milling operations in the Keno Hill Silver District in 2016. Continued monthly monitoring over a 24-hour interval provides further data which can better inform noise monitoring thresholds.

REFERENCES

Alexco Keno Hill Mining Corp., Noise Monitoring and Management Plan, Keno Hill Silver District Mining Operations, June 2015

APPENDIX A

Keno Noise Monitoring Data September 2013 to December 2014

Keno Noise Monitoring Data

Date	Location	Time	Temp (°C)	Wind	Precipitation	DBA	Observations
08/04/2013	R01	12:26	2	Windy SSE	None	52.0	
08/04/2013	R02	12:05	2	Windy SSE	None	58.6	
08/04/2013	R03	11:45	2	Windy SSE	None	52.4	
08/04/2013	R04	11:25	2	Windy SSE	None	67.2	A dog barked 2 times.
08/04/2013	R05	11:04	2	Windy SSE	None	48.5	
10/04/2013	R01	11:33	-6	Light SSW	None	42.1	
10/04/2013	R02	13:00	-6	Light SSW	None	42.5	
10/04/2013	R03	12:40	-6	Light SSW	None	49.0	Doors slamming. People talking.
10/04/2013	R04	12:20	-6	Light SSW	None	39.4	
10/04/2013	R05	12:00	-6	Light SSW	None	39.1	
06/05/2013	R01	15:30	2	Wind West	None	35.1	Backup alarm at Onek. Tarps flapping in wind.
06/05/2013	R02	15:30	2	Slight breeze	None	34.4	
06/05/2013	R03	15:30	2	Windy	None	44.8	Dog barking. Boart truck.
06/05/2013	R04	15:30	2	Slight breeze	None	32.8	
06/05/2013	R05	15:30	2	Slight breeze	None	37.5	Dog barking.
19/05/2013	R01	10:25	-2	Light (<10km/h) N	Light snow	69.6	Creek flowing loud. Squirrels making noise. Tarp flapping. Volvo going by on the BKR.
19/05/2013	R02	10:10	-2	Light (<10km/h) E	Light snow	43.2	Creek flowing below. A few birds chirping. Boart pickup went by.
19/05/2013	R03	9:55	-2	Light (<10km/h) E	Light snow	56.3	A few birds. Talking and trucks in town in the distance. Water truck went by.
19/05/2013	R04	9:30	-2	Light (<10km/h) E	Light snow	46.6	Lots of birds calling and a woodpecker pecking close by.
19/05/2013	R05	8:55	-2	Light (<10km/h) E	Light snow	36.4	A few birds and a squirrel chirping.
18/06/2013	R01	16:25	22	Light (<10km/h) S	None	48.6	Creek flowing. Leaves rustling.
18/06/2013	R02	16:10	22	Light (<10km/h) S	None	46.8	Volvo on BKR. 2 vehicles drove past. Gusts of wind rustling trees. Chainsaw nearby in town.
18/06/2013	R03	15:55	22	Light (<10km/h) S	None	44.8	People talking and walking close by. 2 Vehicles driving through town and 1 driving by.
18/06/2013	R04	15:40	21	Light (<10km/h) S	None	34.9	Wind rustling leaves. Birds calling.
18/06/2013	R05	14:55	21	Light (<15km/h) S	None	37.6	Wind rustling leaves. Volvo on the BKR.
24/07/2013	R01	11:07	23	light (<20km/h) S	None	48.7	Leaves rustling. Creek nearby. Birds chirping.
24/07/2013	R02	10:55	23	light (<10km/h) S	None	40.4	Three vehicles driving nearby. Leaves rustling.
24/07/2013	R03	10:43	23	light (<10km/h) S	None	47.7	Backup alarm at Mill. Leaves rustling. Someone in town hammering. Two vehicles drove by.
24/07/2013	R04	10:30	23	light (<10km/h) SE	None	38.0	Backup alarm at Mill. Mill crusher. Leaves rustling. Car drove by twice. Car on Silver Trail.
24/07/2013	R05	10:14	23	Calm	None	38.0	Backup alarm at Mill. Volve down BKR. Mill crusher.
16/11/2013	R01	14:11	-20	Calm	None	27.8	Birds.
16/11/2013	R02	13:51	-20	Calm	None	31.9	Squirrel, ravens, birds noise.
16/11/2013	R03	13:35	-20	Calm	None	34.9	Squirrel, ravens, birds noise+ truck.
16/11/2013	R04	13:20	-20	Calm	None	40.6	Lots of ravens activity, birds.
16/11/2013	R05	14:27	-20	Calm	None	38.1	Birds, truck plus door slaming + humain voive + dog barking. All at about 200 meters from sound meter.
17/11/2013	R01	12:46	-30	Calm	None	25.4	Birds.
17/11/2013	R02	12:25	-30	Calm	None	27.6	Birds, squirrel and vehicle.
17/11/2013	R03	12:07	-30	Calm	None	31.1	Ravens, squirrel and vehicle.
17/11/2013	R04	11:48	-30	Calm	None	35.9	Ravens.
17/11/2013	R05	13:01	-30	Calm	None	23.8	Quiet.
29/11/2013	Cmpgrnd	15:08	-23	Calm	None	26.4	Chainsaw in town, birds chirping.
29/11/2013	R01	14:52	-23	Calm	None	27.4	Birds chirping, snowmobile in distance.
29/11/2013	R03	14:36	-23	Calm	None	46.7	Ravens, chainsaw and dog barking in the distance, water truck drove by and backed up (alarm) nearby.
29/11/2013	R04	14:20	-23	Calm	None	29.0	squirrels and little birsds in distance, ravens flying by, someone coughing, doors closing mearby, dog barking.
29/11/2013	R05	13:59	-24	Calm	None	30.7	Raven calling, snowmobile in distance, squirrel nearby.
13/12/2013	Cmpgrnd	10:55	-20	N-W Calm	None	25.2	Quiet, birds signing once.
13/12/2013	R01	10:35	-20	N-W Calm	None	24.4	Quiet.
13/12/2013	R02	10:17	-20	N-W Calm	None	32.1	Raven, birds, squirrel.
13/12/2013	R03	10:02	-20	N-W Calm	None	27.3	Raven, birds, squirrel.
13/12/2013	R04	9:44	-20	N-W Calm	None	31.2	Raven flying and walking around. Birds signing.
13/12/2013	R05	11:13	-20	N-W Calm	None	27.1	Quiet, squirrel.

Keno Noise Monitoring Data

Date	Location	Time	Temp (°C)	Wind	Precipitation	DBA	Observations
31/12/2013	R05	13:52	-18	calm	None	30.7	A few little birds chirping.
31/12/2013	R04	14:06	-18	Calm	None	44.0	lots of ravens flying, calling. Dog chewing on bone nearby. Person walking by, closing door.
31/12/2013	R03	14:20	-17	Light (<10km/h)S	None	35.8	Two vehicles drove through town. Flagpole dinging in the wind. People talking, walking in town.
31/12/2013	R01	14:34	-17	Calm	None	26.4	Little birds chirping. Raven flew by.
31/12/2013	Cmpgrnd	14:49	-17	Calm	None	25.2	Ravens calling in distance. Someone coughing. Little birds chirping.
20/01/2014	R04	14:04	-14	Calm	None	49.8	Distant grader. Birds. Vehicle.
20/01/2014	R03	14:24	-13	Calm	None	45.6	Distant grader. Birds.
20/01/2014	Cmpgrnd	14:39	-13	Calm	None	30.7	Distant grader.
20/01/2014	R01	15:13	-14	Calm	None	38.8	Distant grader. Vehicle.
20/01/2014	R05	14:56	-14	Calm	None	68.1	Grader went by.
29/01/2014	R05	15:07	-12	Calm	None	26.6	Squirrels, whiskeyjack calling nearby.
29/01/2014	R04	15:23	-12	Calm	None	33.5	Small bird chirping, ravens calling and flying by.
29/01/2014	R03	15:36	-12	Calm	None	41.1	Ravens calling, truck driving by, squirrel chatting, small bird chirping.
29/01/2014	R01	15:50	-12	Calm	None	26.1	Squirrel chatting, door closing in distance, birds calling, neighbour getting firewood.
29/01/2014	Cmpgrnd	16:06	-12	Calm	None	23.5	Squirrel chatting, bird chirping, ravens flying over and calling.
05/02/2014	R05	12:55	-20	light (5km/h)	None	28.4	Raven calling, squirrel chattering.
05/02/2014	R04	13:12	-20	light(<5km/h)	None	31.2	Small bird chirping, ravens calling and flying, door closing in distance X3, neighbour getting firewood.
05/02/2014	R03	13:27	-20	light(<5km/h)	None	26.5	Ravens calling in distance. Squirrel chattering, small birds, truck creaking.
05/02/2014	R01	13:40	-18	light(<5km/h)	None	43.0	Squirrel chattering, ice inside old dump truck (beside sample site) cracked loudly, birds chirping.
05/02/2014	Cmpgrnd	13:59	-19	light(<5km/h)	None	26.0	Small birds chirping, ravens in distance.
26/02/2014	R05	14:14	-9	Calm	None	32.5	Water truck running nearby, driving. Squirrel chattering, little birds calling.
26/02/2014	R04	14:31	-8	Calm	None	35.4	Ravens calling, person walking by and into house.
26/02/2014	R03	14:56	-8	Calm	None	30.9	Lots of squirrels chattering, dog barking in distance, small birds chirping, radio from neighbours house, raven calling.
26/02/2014	R01	15:10	-8	Calm	None	27.7	Little birds chirping. Squirrels.
26/02/2014	Cmpgrnd	15:26	-8	Calm	None	31.2	Someone chainsawing in town. Birds chirping.
05/03/2014	R05	14:19	-14	Calm	None	28.0	Raven calling in distance. Lots of little birds chirping nearby.
05/03/2014	R04	14:37	-14	Slight breeze	None	30.1	Ravens calling nearby. Squirrels chattering. Helicopter in distance. Little birds chirping. Ravens flying by.
05/03/2014	R03	14:50	-13	light (<10km/h)	None	40.1	Vehicle in town idling. Lots of little birds chirping. Raven calling. Flags tinging on flagpoles. Helicopter in distance. Vehicle driving through town and by twice.
05/03/2014	R01	15:04	-13	calm	None	26.9	lots of little birds chorping. Rvens in distance. Helicopter faintly in distance.
05/03/2014	Cmpgrnd	15:19	-14	very slight breeze	None	28.5	little birds chirping. Ravens in distance. Helicopter in distance. Backup alarm in town.
29/03/2014	R05	14:31	-3	Slight breeze	None	28.7	Lots of small birds calling nearby. Squirrel chattering.
29/03/2014	R04	14:48	0	light (10 km/h)	None	34.8	Ravens calling closeby. Small birds calling. Diamond drill and equipment working in distance. Wind chimes. Someone scraping snow.
29/03/2014	R03	15:00	0	light (10 km/h)	None	29.8	Flags hitting flagpoles. Lots of small birds calling nearby. Raven calling. Squirrel chattering. Squirrel climbing on sign nearby.
29/03/2014	R01	15:13	0	Slight breeze	None	31.3	Small birds. Squirrel chattering. Steel pipe made sound as it expanded.
29/03/2014	Cmpgrnd	15:34	0	Slight breeze	None	27.6	Small birds calling. Bulldozer (drillers) going down Duncan creek road in distance. Someone working on something in town. Raven calling.
09/04/2014	R01	10:04	-10	Calm	None	45.9	Pickup , backup alarm. Birds.
09/04/2014	R02	9:55	-10	Calm	None	44.7	Water truck x 2, delivering.
09/04/2014	R03	9:24	-10	Calm	None	29.8	Water truck x 2, delivering.
09/04/2014	R04	9:00	-10	Calm	None	33.8	Ravens.
09/04/2014	R05	10:47	-10	Calm	None	28.0	Ravens.
09/04/2014	Cmpgrnd	10:32	-10	Calm	None	25.2	Squirrel.
18/04/2014	R01	15:43	2	Calm	None	32.0	Birds, loader, backup alarm far away.
18/04/2014	R02	16:22	2	Calm	Snow/rain	30.0	Car, birds.
18/04/2014	R03	15:20	2	Calm	Snow	61.4	Loader, backup alarm. Car +horn. People talking, dog barking.
18/04/2014	R04	15:04	2	Calm	Snow	36.2	Ravens, birds.
18/04/2014	R05	16:37	2	Calm	None	31.6	Birds.

Keno Noise Monitoring Data

Date	Location	Time	Temp (°C)	Wind	Precipitation	DBA	Observations
18/04/2014	Cmpgrnd	15:04	2	Calm	Rain/snow	34.2	Birds.
11/05/2014	R01	9:14		strong N wind	None	45.7	Birds, creek.
11/05/2014	R02	8:58		Light N wind	None	40.7	Birds, car, house doors slamming.
11/05/2014	R03	8:42		Light N wind	None	40.3	Birds.
11/05/2014	R04	8:27		calme	None	34.4	Birds.
11/05/2014	R05	10:21		Light N wind	None	38.8	Wind in trees, bear or moose cracking branches.
11/05/2014	Cmpgrnd	9:30		Light N wind	None	52.4	Creek.
29/05/2014	R01	10:50		Light SW wind	None	43.4	Creek.
29/05/2014	R02	10:30		Light SW wind	None	31.5	Raven, truck.
29/05/2014	R03	9:50		Light SW wind	None	44.3	Raven, car, truck running idle, starting.
29/05/2014	R04	9:40		Light SW wind	None	33.6	Ravens.
29/05/2014	R05	11:40		Light SW wind	None	32.7	Birds.
29/05/2014	Cmpgrnd	11:20		Light SW wind	None	47.9	Creek.
01/06/2014	R01	15:49		strong wind all directions	None	46.1	Creek, wind, dog barking.
01/06/2014	R02	15:33		strong wind all directions	None	36.8	Doors slammimg x 2.
01/06/2014	R03	15:20		strong wind all directions	None	40.8	Truck, trailer, horn.
01/06/2014	R04	15:03		light wind all directions	None	31.8	ATV far away.
01/06/2014	R05	16:18		strong wind all directions	None	35.7	Silent.
01/06/2014	Cmpgrnd	16:03		strong wind all directions	None	50.0	Creek.
26/06/2014	R01	12:52		strong N wind	None	47.0	Wind in trees,creek, birds.
26/06/2014	R02	12:38		strong N wind	None	57.3	Wind in trees, car, chainsaw, ravens, people talking.
26/06/2014	R03	12:25		N wind	None	49.0	Wind in trees, ATV, music, car, ravens.
26/06/2014	R04	12:09		N wind	None	33.5	Wind in trees, birds.
26/06/2014	R05	13:30		N wind	None	42.3	Wind in trees, birds.
26/06/2014	Cmpgrnd	13:11		N wind	None	50.5	Wind in trees, creek.
05/08/2014	R01	10:14		N wind	None	42.8	Wind in trees, creek, birds.
05/08/2014	R02	9:51		N wind	None	34.6	Truck running, people talking, door slamming, wind.
05/08/2014	R03	9:33		N wind	None	39.6	Truck running, people talking, wind.
05/08/2014	R04	9:19		N wind	None	38.7	Car starting, door slamming,, car passing by, wind.
05/08/2014	R05	11:47		N wind	None	36.9	Wind in willows.
05/08/2014	Cmpgrnd	11:17		N wind	None	46.1	Creek, wind, people talking.
23/08/2014	R01	13:36		N wind	None	45.1	Creek, house building.
23/08/2014	R02	13:19		N wind	None	67	Pickup truck, motor running.
23/08/2014	R03	13:07		N wind	None	32	Dog barking x 2, vehicles.
23/08/2014	R04	12:43		N wind	None	36.3	Ravens.
23/08/2014	R05	15:44		N wind	None	38.6	Dump truck, vehicles, drill far away.
23/08/2014	Cmpgrnd	13:54		N wind	None	48.9	Creek, vehicles.
03/09/2014	R01	16:01		W wind, strong	None	49.9	Wind + creek.
03/09/2014	R02	15:47		W wind, strong	None	47.8	Dogs barking, ATV's, wind, door slamming.
03/09/2014	R03	15:35		W wind, strong	None	52.7	2 trucks drove by, dogs barking, wind.
03/09/2014	R04	15:22		W wind, strong	None	37.9	Wind, ravens.
03/09/2014	R05	16:29		W wind, strong	None	41.6	Drill, wind.
03/09/2014	Cmpgrnd	16:15		W wind, strong	None	51.1	Wind, creek, vehicles.
18/09/2014	R01	16:02		NW little wind	None	45.3	Strong wind, creek.
18/09/2014	R02	15:48		NW little wind	None	53.9	ATVs, birds.
18/09/2014	R03	15:35		NW little wind	None	39.2	ATVs, birds.
18/09/2014	R04	15:22		NW little wind	None	32.5	Birds.
18/09/2014	R05	16:30		NW little wind	None	43.1	Little wind, leaves in wind.
18/09/2014	Cmpgrnd	16:15		NW little wind	None	48.9	Strong wind, creek.
15/10/2014	R01	14:28		No Wind	None	42.5	Creek, ravens, birds.
15/10/2014	R02	14:14		No Wind	None	46.7	Car, ravens, birds, squirrels.

Keno Noise Monitoring Data

Date	Location	Time	Temp (°C)	Wind	Precipitation	DBA	Observations
15/10/2014	R03	14:00		No Wind	None	40.2	Car, ravens.
15/10/2014	R04	13:40		No Wind	None	29.6	Squirrel, birds, door slamming.
15/10/2014	R05	15:31		No Wind	None	28.8	Ravens, birds.
15/10/2014	Cmpgrnd	14:46		No Wind	None	45.7	Creek, ravens, birds.
25/10/2014	R01	9:33		No Wind	None	38.0	Calm, creek, ravens, birds.
25/10/2014	R02	9:08		No Wind	None	30.2	Calm, ravens, birds.
25/10/2014	R03	8:53		No Wind	None	27.8	Calm, ravens, birds.
25/10/2014	R04	8:37		No Wind	None	31.0	Calm, ravens, birds.
25/10/2014	R05	10:36		No Wind	None	39.2	Calm, ravens.
25/10/2014	Cmpgrnd	10:22		No Wind	None	38.3	Calm, creek, ravens.
14/11/2014	R01	10:57		No Wind	None	67.4	Water truck, squirrel, creek.
14/11/2014	R02	10:37		No Wind	None	33.8	Calm.
14/11/2014	R03	10:10		No Wind	None	37.8	Car x 2.
14/11/2014	R04	9:56		No Wind	None	31.6	Ravens, calm.
14/11/2014	R05	11:30		No Wind	None	33.3	Calm.
14/11/2014	Cmpgrnd	11:12		No Wind	None	38.2	Creek, truck.
23/11/2014	R01	9:45		No Wind	None	26.5	Squirrel.
23/11/2014	R02	9:22		No Wind	None	27.9	Ravens.
23/11/2014	R03	9:01		No Wind	None	53.9	Ravens, truck x2.
23/11/2014	R04	8:46		No Wind	None	40.7	Ravens, truck idling.
23/11/2014	R05	10:12		No Wind	None	33.3	Ravens.
23/11/2014	Cmpgrnd	9:58		No Wind	None	22.7	Ravens.
01/12/2014							Noise Mointoring coverted to 24 hours from 10 min measurements in December 2014

*All readings are taken using an Extech integrating sound level datalogger model 407780 to measure DBA for 10 min.Reading from 16/11/13 taken with an Casella CEL-63X model.(Laeq, Db.)

APPENDIX C

2016 DUST MONITORING RESULTS

Memorandum

To: Alexco Keno Hill Mining Corp.

From: Catherine Henry, Alexco Environmental Group Inc.

CC: Kai Woloshyn, Alexco Resource Corp.

Date: March 26, 2017

Re: Air Quality Data Summary, Keno, YT

1. INTRODUCTION

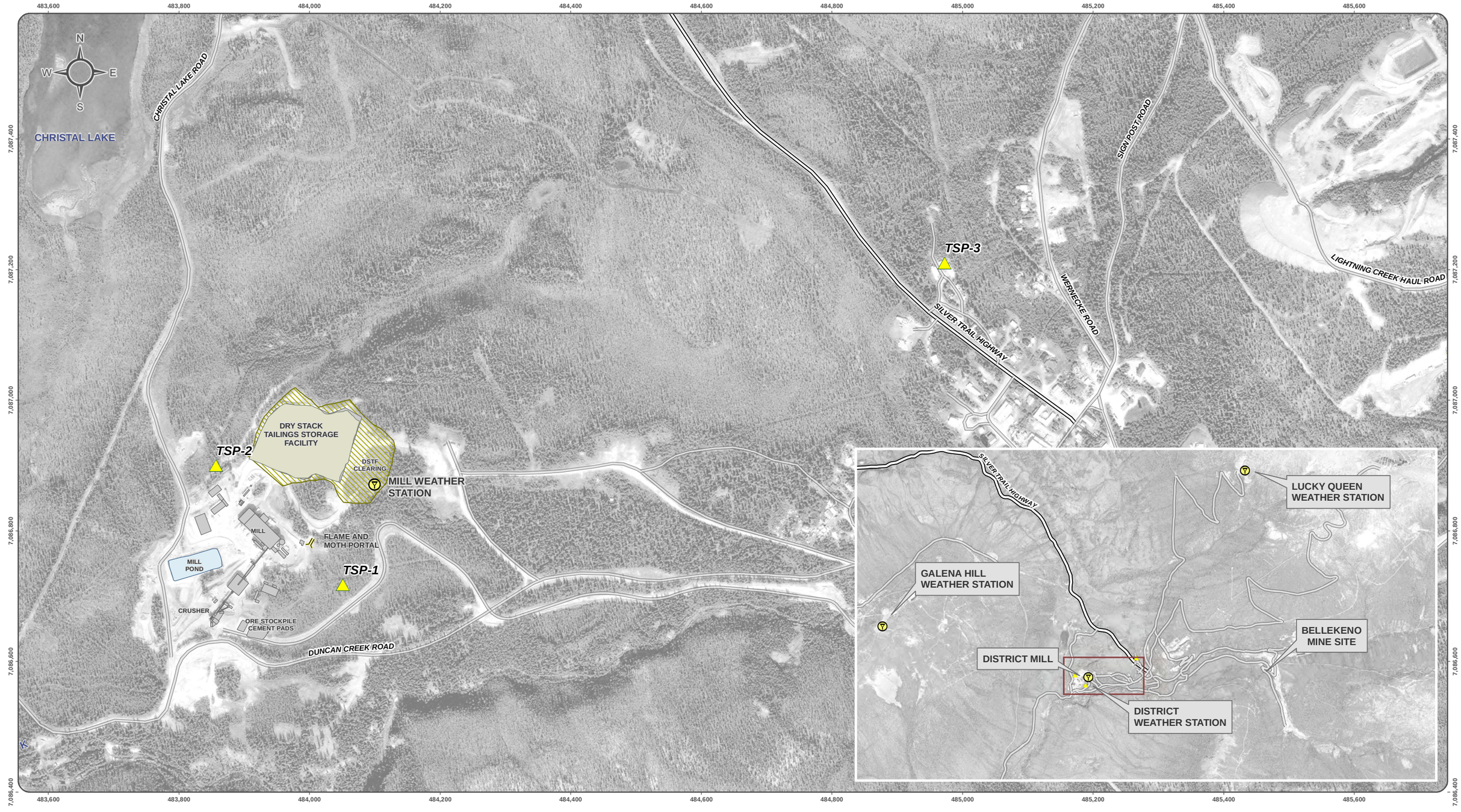
In accordance with Clause 69 of the Decision Document for the assessment of the Bellekeno Mine Project (YESAB File Number 2009-0030), dustfall monitoring was installed at two initial locations near the Keno District Mill site in March 2011 and two additional sampling locations were established in August 2011. Bergerhoff dust monitoring gauges were initially selected as the appropriate instrumentation to carry out this program. In accordance with clauses 36 and 37 of the Decision Document for the assessment of the Onek and Lucky Queen Deposit production (YESAB File Number 2011-0315), total suspended particulates (TSP) monitoring was subsequently initiated in August 2012 and dustfall monitoring was discontinued in January 2013. Additional sampling for coarse and fine fractions of particulate matter (PM_{10} and $PM_{2.5}$ respectively) was instigated in August 2015, in accordance with the revised Dust Abatement and Monitoring Plan required in the Decision Document (clause 19) for the assessment of the Flame & Moth Development and Production Program (YESAB file Number 2013-0161). This memorandum presents the results of the ambient air quality monitoring to date.

2. INSTRUMENTATION AND METHODOLOGY

Two BGI Omni Ambient Air Quality Samplers (see Figure 1) were commissioned in August 2012, one to the East of the mill and crusher (TSP-1) and one at the toe of the dry stack tailings facility (TSP-2). A third sampler (TSP-3), located in Keno City, was commissioned in December 2014, in accordance with the revised Dust Abatement and Monitoring Plan required in the Decision Document for the assessment of the Flame & Moth Development and Production Program (YESAB file Number 2013-0161). The sampling locations are shown on Figure 2. The BGI Omni samplers are set up with TSP, PM_{10} or $PM_{2.5}$ inlets, and use the filter reference method. Samples are collected over 24-hour periods and sent to Maxxam Analytics laboratory for gravimetric analysis and ICP

metals mass spectrometry (from TSP samples only). The sampling program aims to collect three samples per location every month, in order to capture the different weather conditions that may affect dust sources and transport. The BGI Omni Ambient Air Quality Samplers cannot collect samples below -20°C and therefore some winter months will have reduced data.

Figure 1 BGI Omni Ambient Air Quality Sampler



Satellite imagery obtained from Yukon Geomatics map service http://mapservices.gov.yk.ca/ArcGIS/services on March 2017
Data obtained from EBA: "As built" spatial data: Mill pond (Y.E.S.), Mill structure, and current DSTF footprints, Roads (In House survey December 11th 2011).
Design spatial data: Conveyance and water collection, diversion ditches and berm.

Datum: NAD 83; Projection: UTM Zone 8N

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1:5,500 *(when printed on 11 x17 inch paper)*

0 50 100 150 200 Meters

- MineFeaturePoint Weather Stns
- Dust Monitoring Station
- DSTF Extent
- DSTF Clearing
- Building/Infrastructure
- Silver Trail Highway
- Secondary Road

AKHM

ALEXCO KENO HILL MINING CORP.
ANNUAL QUARTZ MINING LICENCE REPORT, QML-0009

FIGURE 2

DUST MONITORING AND WEATHER STATIONS

MARCH 2017

D:\Project\AllProjects\Keno_Area_Mines\Bellekeno\GIS\mxd\Overview_Maps\Specific-Topics\Dust_Monitoring\Dust_Monitoring_Stns_20170327.mxd
(*Last edited by: mducharme;3/27/2017/16:11 PM*).

3. RESULTS

3.1. AMBIENT TSP, PM_{10} AND $PM_{2.5}$ CONCENTRATIONS

Results of the gravimetric analyses can be converted into 24-hour average ambient concentrations based on the flow rate of the instruments. These can then be compared with the Yukon Ambient Air Quality Standard (YAAQS) of 120 µg/m^3 for TSP, 50 µg/m^3 for PM_{10} and 28 µg/m^3 for $PM_{2.5}$ (24-hour average). Table 1 below presents summary statistics for the three sampling locations (TSP-1, TSP-2 and TSP-3), while the complete result tables are presented in Appendix A. When results were below the detection limit a value of half the detection limit was used to calculate the summary statistics. Table 1 shows that all results are well below the Yukon ambient standards, most results being between 5 and 20 times inferior. Note that over half of the results for each of the three parameters are below the detection limit at all three stations.

The air quality monitors located on site are 160 (TSP-1) and 46 (TSP-2) meters away from the dry stack tailings facility (DSTF) and 163 (TSP-1) and 240 (TSP-2) meters away from the crusher, two of the main potential dust sources. The nearest residence is at a distance of 710 meters from the DSTF and 860 meters from the crusher. TSP levels experienced at the nearest residence are better approximated by levels observed at air quality monitor TSP-3, located in Keno City (950 m from the DSTF and 1240 m from the crusher). Note that the mine announced a temporary closure as of September 4th 2013 and operation continues to be suspended at this time. Therefore, the crusher would not have contributed to fugitive dust emissions during that period.

Table 1 24-hour TSP, PM_{10} and $PM_{2.5}$ Summary Statistics, August 2012 – December 2016

	TSP (µg/m^3)			PM_{10} (µg/m^3)			$PM_{2.5}$ (µg/m^3)		
Yukon Ambient Air Quality Standards	**120**			**50**			**28**		
Sampling Location	**TSP-1***	**TSP-2**	**TSP-3**	**TSP-1**	**TSP-2**	**TSP-3**	**TSP-1**	**TSP-2**	**TSP-3**
Average	6.0	6.8	6.1	3.2	3.3	3.1	4.1	4.2	4.0
Count	168	155	78	43	35	43	41	35	40
Minimum	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Maximum	53.2	62.2	68.1	14.6	8.6	8.2	17.4	23.1	13.6
Geometric Mean	4.5	4.9	4.2	3.0	3.1	3.0	3.5	3.3	3.5
Count <DL	105	90	53	41	32	40	33	31	33
Standard Deviation	6.6	7.3	9.1	1.9	1.6	1.1	3.2	4.6	3.0
1st Quartile	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Median	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
3rd Quartile	7.1	8.1	6.3	2.8	2.8	2.8	2.8	2.8	2.8
Count Over Standard	0	0	0	0	0	0	0	0	0
% Over Standard	0	0	0	0	0	0	0	0	0

** One outlier result was removed (976.4 µg/m^3 on July 1, 2015)*

3.2. METAL SPECIATION

There are no ambient air quality standards for metals in Yukon, however the Ontario Ministry of Environment has developed a comprehensive list of Ambient Air Quality Criteria (AAQC) that includes 24-hour average concentrations for a number of metals. Table 2 below presents the summary statistics for metal concentrations from TSP samples at TSP-1, TSP-2 and TSP-3, while the complete result tables are presented in Appendix A. For reference, the Ontario AAQCs are indicated in the first row where available. When results were below the detection limit a value of half the detection limit was used to calculate the statistics.

Very few exceedences of the Ontario AAQCs are observed overall, and none were observed in 2016; samples are generally below the detection limit for most parameters. Parameters for which exceedences have occurred include lead (1.2 % of samples) at TSP-1 and cadmium (1.3 % of samples), lead (0.6 % of samples) and manganese (1.9 % of samples) at TSP-2. No exceedences were observed at TSP-3 to date. Note that the detection limit for beryllium and cadmium is greater than the Ontario AAQC and in many cases, it cannot be determined if exceedences of these parameters have occurred. Also, the chromium and manganese criteria did not come into effect until July 1, 2016, but were still used as reference for the entire sampling period.

Table 2 24-hour Metal Concentrations Summary Statistics (µg/m^3) August 2012 – December 2016

	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Sn	Ti	V	Zn	Zr
Ontario Air Quality Criteria		**25**	**0.3**	**10**	**0.01**	**120**	**0.025**		**0.5**	**0.1**	**50**	**4**	**0.5**		**0.4**	**120**	**2**			**10**		**1**		**120**		**10**	**120**	**2**	**120**	
TSP-1*																														
Average	0.226	0.137	0.055	0.003	0.006	0.024	0.014	0.351	0.077	0.034	0.034	0.262	0.068	0.040	0.013	0.034	0.034	0.205	0.682	0.034	0.529	0.021	0.261	0.003	0.169	0.057	0.014	0.021	0.028	0.034
Count	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	103	167	167	167	164	167	167	167	167	167
Minimum	0.029	0.000	0.000	0.001	0.000	0.021	0.000	0.139	0.021	0.000	0.001	0.021	0.001	0.021	0.001	0.000	0.001	0.056	0.035	0.000	0.139	0.000	0.069	0.002	0.139	0.000	0.014	0.014	0.003	0.003
Maximum	5.292	0.139	0.056	0.022	0.006	0.264	0.014	8.722	0.139	0.035	0.035	2.528	1.083	0.429	0.301	0.035	0.035	0.208	0.694	0.035	3.875	0.021	2.444	0.041	0.708	0.193	0.042	0.021	0.558	0.035
Geometric Mean	0.155	0.144	0.059	0.002	0.007	0.022	0.015	0.186	0.070	0.037	0.033	0.157	0.055	0.029	0.008	0.037	0.033	0.203	0.658	0.037	0.325	0.023	0.230	0.003	0.156	0.060	0.014	0.021	0.018	0.033
Count <DL	151	167	167	149	167	163	167	140	15	167	164	24	159	128	135	167	164	167	167	167	74	167	150	138	146	165	166	167	132	167
Standard Deviation	0.569	0.019	0.007	0.003	0.001	0.027	0.002	0.979	0.028	0.005	0.004	0.298	0.099	0.054	0.032	0.005	0.004	0.020	0.088	0.005	0.753	0.003	0.230	0.004	0.096	0.016	0.002	0.001	0.055	0.004
1st Quartile	0.139	0.139	0.056	0.002	0.006	0.021	0.014	0.139	0.060	0.035	0.035	0.059	0.056	0.021	0.006	0.035	0.035	0.208	0.694	0.035	0.208	0.021	0.208	0.002	0.139	0.056	0.014	0.021	0.014	0.035
Median	0.139	0.139	0.056	0.002	0.006	0.021	0.014	0.139	0.076	0.035	0.035	0.239	0.056	0.021	0.006	0.035	0.035	0.208	0.694	0.035	0.208	0.021	0.208	0.002	0.139	0.056	0.014	0.021	0.014	0.035
3rd Quartile	0.139	0.139	0.056	0.002	0.006	0.021	0.014	0.139	0.097	0.035	0.035	0.345	0.056	0.021	0.006	0.035	0.035	0.208	0.694	0.035	0.451	0.021	0.208	0.002	0.139	0.056	0.014	0.021	0.014	0.035
Count Over Standard	n/a	0	0	0	0	0	0	n/a	0	0	0	0	2	n/a	0	0	0	n/a	n/a	0	n/a	0	n/a	0	n/a	0	0	0	0	n/a
% Over Standard	n/a	0	0	0	0	0	0	n/a	0	0	0	0	1.2	n/a	0	0	0	n/a	n/a	0	n/a	0	n/a	0	n/a	0	0	0	0	n/a
TSP-2																														
Average	0.161	0.136	0.055	0.003	0.006	0.022	0.014	0.230	0.079	0.034	0.034	0.298	0.070	0.036	0.029	0.034	0.034	0.205	0.681	0.034	0.586	0.021	0.226	0.003	0.173	0.055	0.014	0.021	0.031	0.034
Count	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154	94	154	154	154	151	154	154	154	154	154
Minimum	0.014	0.000	0.000	0.001	0.000	0.021	0.000	0.139	0.021	0.000	0.001	0.021	0.001	0.021	0.001	0.000	0.001	0.056	0.035	0.000	0.139	0.000	0.069	0.002	0.139	0.000	0.014	0.014	0.003	0.003
Maximum	1.625	0.139	0.056	0.048	0.006	0.099	0.040	3.472	0.132	0.035	0.035	1.431	0.736	0.193	0.651	0.035	0.035	0.208	0.694	0.035	5.028	0.021	1.111	0.032	0.736	0.056	0.014	0.021	0.294	0.035
Geometric Mean	0.142	0.144	0.057	0.002	0.007	0.022	0.015	0.173	0.072	0.037	0.033	0.195	0.057	0.029	0.010	0.037	0.033	0.203	0.655	0.037	0.357	0.023	0.214	0.002	0.160	0.059	0.014	0.021	0.020	0.033
Count <DL	146	154	153	141	154	151	151	130	14	154	151	17	142	114	108	154	151	154	154	154	63	154	146	131	130	154	154	154	113	154
Standard Deviation	0.171	0.019	0.008	0.004	0.001	0.009	0.003	0.359	0.029	0.005	0.005	0.251	0.076	0.031	0.083	0.005	0.005	0.021	0.091	0.005	0.792	0.003	0.107	0.003	0.095	0.008	0.000	0.001	0.047	0.004
1st Quartile	0.139	0.139	0.056	0.002	0.006	0.021	0.014	0.139	0.059	0.035	0.035	0.099	0.056	0.021	0.006	0.035	0.035	0.208	0.694	0.035	0.208	0.021	0.208	0.002	0.139	0.056	0.014	0.021	0.014	0.035
Median	0.139	0.139	0.056	0.002	0.006	0.021	0.014	0.139	0.080	0.035	0.035	0.305	0.056	0.021	0.006	0.035	0.035	0.208	0.694	0.035	0.208	0.021	0.208	0.002	0.139	0.056	0.014	0.021	0.014	0.035
3rd Quartile	0.139	0.139	0.056	0.002	0.006	0.021	0.014	0.139	0.099	0.035	0.035	0.378	0.056	0.043	0.013	0.035	0.035	0.208	0.694	0.035	0.708	0.021	0.208	0.002	0.139	0.056	0.014	0.021	0.029	0.035
Count Over Standard	n/a	0	0	0	0	0	2	n/a	0	0	0	0	1	n/a	3	0	0	n/a	n/a	0	n/a	0	n/a	0	n/a	0	0	0	0	n/a
% Over Standard	n/a	0	0	0	0	0	1.3	n/a	0	0	0	0	0.6	n/a	1.9	0	0	n/a	n/a	0	n/a	0	n/a	0	n/a	0	0	0	0	n/a
TSP-3																														
Average	0.243	0.134	0.054	0.003	0.006	0.029	0.013	0.456	0.075	0.034	0.034	0.127	0.054	0.051	0.008	0.034	0.034	0.202	0.672	0.034	0.311	0.020	0.209	0.009	0.150	0.054	0.014	0.021	0.019	0.034
Count	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	69	81	81	81	78	81	81	81	81	81
Minimum	0.014	0.000	0.000	0.001	0.000	0.021	0.000	0.139	0.021	0.000	0.001	0.021	0.001	0.021	0.001	0.000	0.001	0.056	0.035	0.000	0.139	0.000	0.069	0.002	0.139	0.000	0.014	0.014	0.003	0.003
Maximum	2.778	0.139	0.056	0.024	0.006	0.218	0.014	6.417	0.131	0.035	0.035	0.514	0.056	0.553	0.070	0.035	0.035	0.208	0.694	0.035	1.569	0.021	0.458	0.175	0.431	0.056	0.014	0.021	0.144	0.035
Geometric Mean	0.150	0.150	0.062	0.002	0.007	0.024	0.016	0.204	0.070	0.040	0.032	0.076	0.049	0.030	0.007	0.036	0.031	0.198	0.635	0.040	0.253	0.024	0.205	0.003	0.146	0.058	0.014	0.021	0.016	0.032
Count <DL	76	81	81	73	81	76	78	61	3	81	78	23	78	62	71	80	78	81	80	81	58	81	79	60	74	80	81	81	68	81

	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Sn	Ti	V	Zn	Zr
Ontario Air Quality Criteria		**25**	**0.3**	**10**	**0.01**	**120**	**0.025**		**0.5**	**0.1**	**50**	**4**	**0.5**		**0.4**	**120**	**2**			**10**		**1**		**120**		**10**	**120**	**2**	**120**	
Standard Deviation	0.485	0.026	0.011	0.004	0.001	0.034	0.003	1.178	0.024	0.007	0.005	0.124	0.010	0.097	0.008	0.007	0.006	0.029	0.116	0.007	0.288	0.004	0.038	0.031	0.047	0.011	0.000	0.001	0.017	0.006
1st Quartile	0.139	0.139	0.056	0.002	0.006	0.021	0.014	0.139	0.056	0.035	0.035	0.021	0.056	0.021	0.006	0.035	0.035	0.208	0.694	0.035	0.208	0.021	0.208	0.002	0.139	0.056	0.014	0.021	0.014	0.035
Median	0.139	0.139	0.056	0.002	0.006	0.021	0.014	0.139	0.074	0.035	0.035	0.065	0.056	0.021	0.006	0.035	0.035	0.208	0.694	0.035	0.208	0.021	0.208	0.002	0.139	0.056	0.014	0.021	0.014	0.035
3rd Quartile	0.139	0.139	0.056	0.002	0.006	0.021	0.014	0.139	0.093	0.035	0.035	0.228	0.056	0.021	0.006	0.035	0.035	0.208	0.694	0.035	0.208	0.021	0.208	0.002	0.139	0.056	0.014	0.021	0.014	0.035
Count Over Standard	n/a	0	0	0	0	0	0	n/a	0	0	0	0	0	n/a	0	0	0	n/a	n/a	0	n/a	0	n/a	0	n/a	0	0	0	0	n/a
% Over Standard	n/a	0	0	0	0	0	0	n/a	0	0	0	0	0	n/a	0	0	0	n/a	n/a	0	n/a	0	n/a	0	n/a	0	0	0	0	n/a

** One outlier result was removed (976.4 µg/m³ on July 1, 2015)*

3.3. WIND ANALYSIS

An analysis of the hourly wind speed and direction collected between June 2011 and December 2016 at the Keno District Mill weather station (shown on Figure 2), at a height of 10 meters, indicates that dominant winds are blowing from the North and from the Southeast. The wind rose in Figure 3, which has data availability of 92.1% for that period, depicts this information based on 16 wind direction categories. The average wind speed is 1.29 m/s and winds are calm 16.61% of the time. Note that the wind sensor experienced occasional icing during the winter months and extended periods of zero wind speed were excluded from this analysis. Also, winter wind speeds may occasionally be underestimated due to the presence of ice on the sensor, but these occurrences cannot be detected in the data record.

Table 3 below compiles the wind speed and direction frequency distribution based on 8 wind direction categories, and 6 wind speed categories.

Table 3 Wind Frequency Distribution (%), Keno District Mill, June 2011 - December 2016

Directions / Wind Classes (m/s)	0.5 - 1.0	1.0 - 2.0	2.0 - 3.0	3.0 - 4.0	4.0 - 5.0	>= 5.0	Total (%)
N	5.17	8.36	3.23	0.58	0.09	0.03	16.08
NE	5.60	5.10	1.29	0.15	0.01	0.00	11.19
E	3.59	7.75	2.48	0.39	0.07	0.01	13.17
SE	3.67	5.79	3.21	1.42	0.55	0.32	13.77
S	3.21	5.78	2.44	0.46	0.10	0.05	11.09
SW	0.77	1.77	1.48	0.35	0.04	0.02	4.08
W	0.37	0.56	0.43	0.29	0.11	0.09	1.70
NW	0.90	1.54	1.33	0.63	0.32	0.11	4.45
Sub-Total	21.44	33.76	14.64	3.92	1.20	0.57	75.52
Calms							16.61
Missing/Incomplete							7.87
Total							100

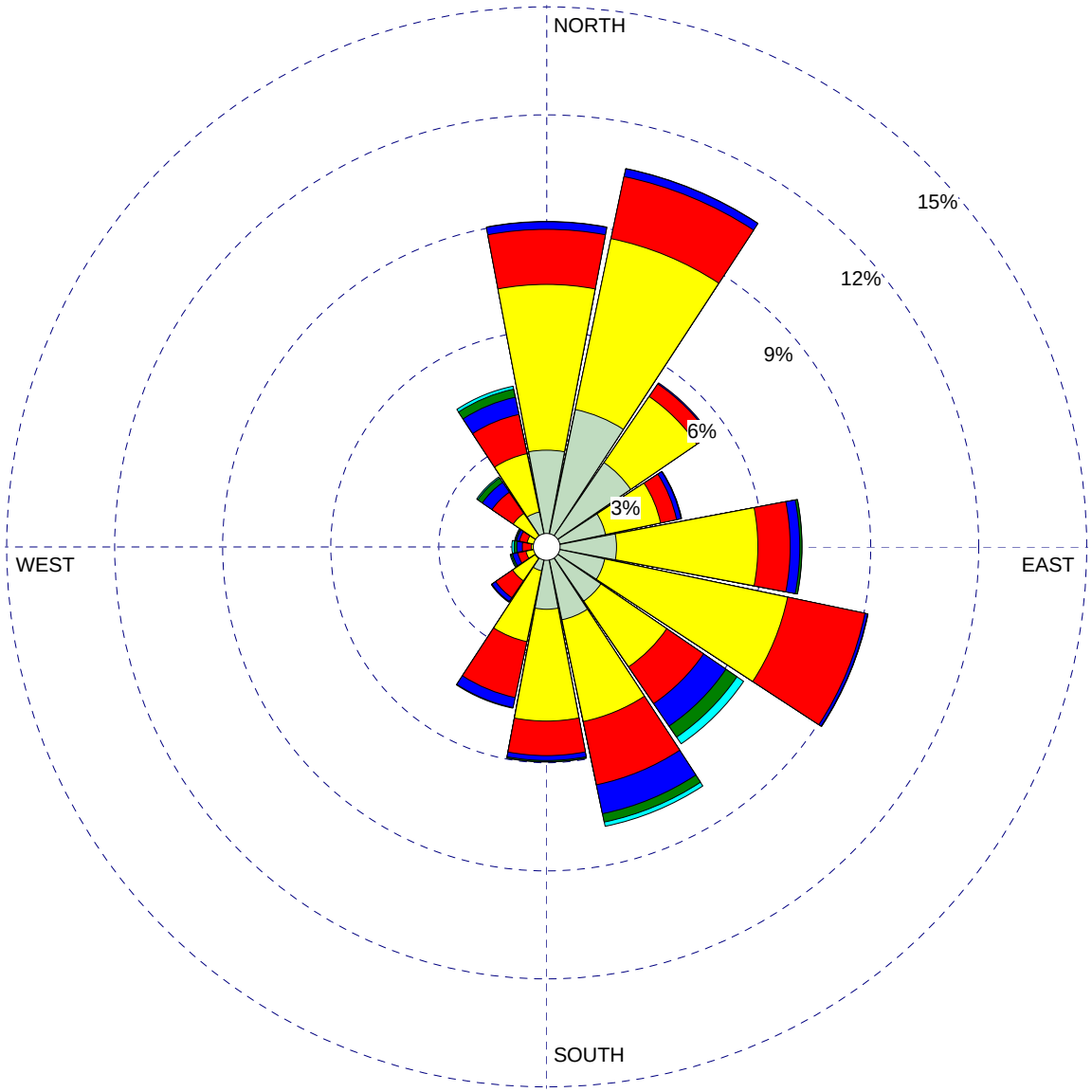
The dominant wind direction is from the north (16.08% of the time), followed by southeast (13.77%) and east (13.17%). As can be seen on the wind rose, the strongest winds tend to originate from the southeast. Referring to Figure 2, we can see that air quality station TSP-1 is located downwind from the DSTF when the wind blows from the north, but generally upwind from the DSTF and crusher when the wind blows from the SE. Station TSP-2 is generally downwind from the DSTF and may capture the influence of the crusher when the wind is from the SE but not when it is from the north. TSP-3, located in Keno City and further away from the DSTF and crusher, is generally east (ENE) of these potential dust sources. Based on Table 3 above, westerly winds only occur 1.70% of the time (or 10.22% of the time when combining NW, W and SW), so the DSTF and crusher are expected to have very limited influence on air quality in Keno City (TSP-3).

WIND ROSE PLOT:

Figure 3 - Keno District Mill Wind Rose
June 2011 - Dec 2016

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:

Excludes periods of ice affected or missing data.
Anemometer height: 10m

DATA PERIOD:

Start Date: 02/06/2011 - 00:00
End Date: 29/12/2016 - 16:00

TOTAL COUNT:	CALM WINDS:
45100 hrs.	**16.61%**

AVG. WIND SPEED:

1.29 m/s

COMPANY NAME:

MODELER:

DATE:

27/01/2017

PROJECT NO.:

The average TSP concentration is slightly higher at TSP-2 than at TSP-1 and TSP-3 (6.8 µg/m^3 versus 6.0 µg/m^3 and 6.1 µg/m^3 respectively), however the differences are not statistically significant and all results are well below the YAAQS. Similarly, although the average PM_{10} and $PM_{2.5}$ concentrations are slightly higher at TSP-2 than at the other two stations (see Table 1), no statistically significant differences exist and all results are well below the YAAQS.

Figure 4 presents comparisons of average metals concentrations between the three sampling stations for all parameters that were above detection limit for at least one sample. Half the detection limit (RDL) was used to calculate averages for samples that were below RDL. Although some differences in average concentrations of certain metals can be observed between the three stations, results of statistical tests indicate that only iron is significantly lower at TSP-3 than at TSP-1 and TSP-2. Because the samples are not normally distributed and variances are not equal, non-parametric test were used for statistical comparisons of the sample medians at a significance level of 0.05. Detailed results can be found in Appendix B.

Dust originating from the DSTF would be expected to contain high concentrations of iron, manganese, calcium, zinc, lead, magnesium, arsenic and aluminum, based on metal characterization analyses of the tailings conducted monthly in 2012 and 2013. From the wind direction distribution, TSP-2 is more frequently located downwind of the DSTF than TSP-1, and would therefore be expected to record higher concentrations of the above metals. However, no significant differences were found between TSP-1 and TSP-2, suggesting that the DSTF is likely not the predominant source of ambient dust.

On days where TSP levels were higher than average and where exceedences of the Ontario AAQCs were observed for lead at TSP-1, winds were generally blowing from the northeast and from the east (on October 23, 2012 and June 18, 2013 respectively). Site activities occurring in October 2012 and June 2013 included mining at Bellekeno, development at Lucky Queen (LQ) and Onek and milling at the Keno District Mill. Explorations activities at Flame & Moth also took place in June 2013. A source of ambient dust on these two occasions could have been the unpaved roads. Roads within the vicinity of the TSP stations include mine access roads as well as public roads including Duncan Creek Road.

On days where TSP levels were higher than average and/or where exceedences of the Ontario AAQCs were observed for lead at TSP-2, winds were generally blowing from the NNE (on August 23, 2012). A source of ambient dust in this case could have been the unpaved roads. On days where TSP levels were higher than average and/or where exceedences of the Ontario AAQCs were observed for manganese at TSP-2, winds were generally blowing from the NE (March 23-24, 2013) and from the east (April 7, 2013). On these three occasions, the DSTF could have been a source of TSP at TSP-2. Similarly, on days where exceedences of the Ontario AAQCs were observed for cadmium at TSP-2, winds were generally from the NE or NNE (on September 28, 2013 and October 21, 2015 respectively) suggesting a possible influence of the DSTF but also eventually of the unpaved roads. Site activities occurring in August 2012, March 2013 and April 2013 included mining at Bellekeno, development at LQ and Onek, and milling at the Keno District Mill. Between September 2013 and October 2016, only care and maintenance activities were taking place as the mine was under a temporary suspension of operations. Detailed meteorological conditions and site activities associated with each ambient air quality sampling event are provided with the complete tabular data in Appendix A-1.

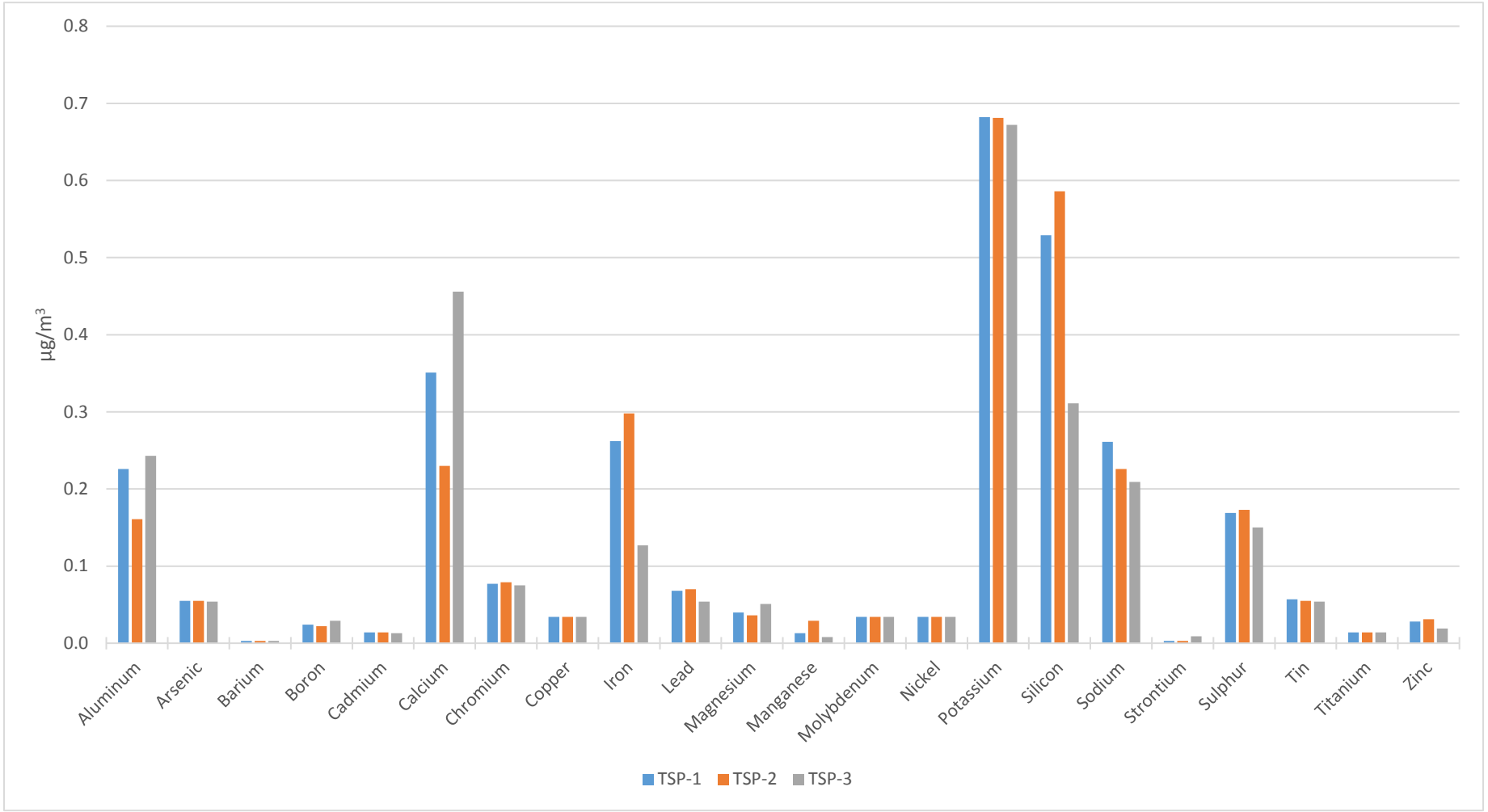


Figure 4 24-hour Average Ambient Metal Concentrations

4. QA/QC

As a quality assurance and quality control measure, blanks were collected along with regular samples starting in December 2015 and analyzed for either TSP and metals, PM_{10} or $PM_{2.5}$. A total of 11 blanks were collected during that period and all result were found to be below the detection limit, with the exception of one calcium, two chromium, two iron and two strontium results. Of those, only the September 29, 2016 sample had results greater than two times the detection limit for iron and strontium and the December 29, 2016 sample for chromium.

5. PM_{10} Sampling By Yukon Government

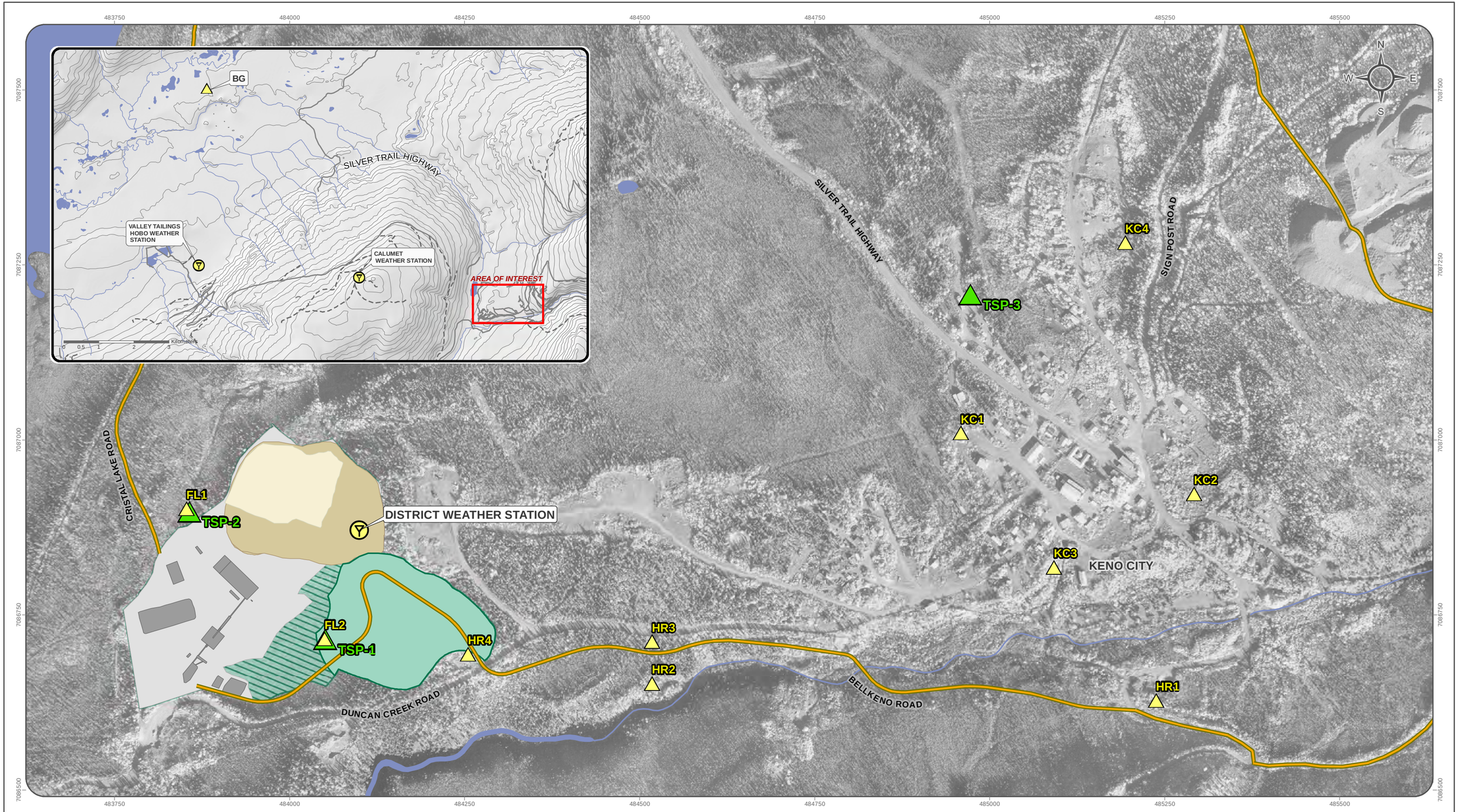
Independent PM_{10} sampling was conducted by Yukon Government in 2013 at the locations shown in Figure 5. The station labelled BG represents background (8 km outside of Keno), stations labelled KC are located in Keno City, stations labelled HR are along the Bellekeno Haul Road and stations labelled FL are fence line stations and correspond to TSP-1 and TSP-2 locations. 5-minute data averaged over the different sampling periods are presented in Table 4 below. The sampling period varies between sites (ranges from about 14 to 53 hours) but for comparison purposes, the average results are all below the 24-hour YAAQS of 50 µg/m^3. Note that in some cases the measured background PM_{10} concentration is higher than that measured at some of the receptors, suggesting that there is some variability in the data and that the difference between background and receptors sites may not be significant. Results are generally comparable to the PM_{10} concentrations measured by AKHM at stations TSP-1, TSP-2 and TSP-3 between August 2015 and December 2016.

Table 4 Average PM_{10} concentrations (µg/m^3)

	June 11-13, 2013	July 15-17, 2013	August 21-22, 2013
BG	2.8	10.2	3.8
KC1	6.2		
KC2	3.8		
KC3	8.3		
KC4	2.1		
HR1		5.2	
HR2		2.1	
HR3		13.8	
HR4		16.4	
FL1			0.8
FL2			39.3

Source: Yukon Government, 2014

The data presented in Table 4 was obtained from Yukon Government and not collected by Alexco, therefore details of the collection have not been presented within this report. The data is assumed to be accurate and valid, but potentially not representative of all conditions observed over a year due to the limited dataset.



National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000. Cadastral data compiled by Natural Resources Canada. Reproduced underlicense from Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.

Quartz claim boundaries current as of Octoberth, 2013. Data source: http://geomaticsyukon.ca.

Datum: NAD 83; Map Projection: UTM Zone 8N

1:5,000 (when printed on 11 x17 inch paper)

Meters
0 50 100 200 300 400

- Weather Stations
- Alexco TSP Monitoring Stations
- YG PM10 Monitoring Sites 2013
- Haul Road
- Building/Infrastructure
- Current DSTF
- DSTF 322k Tonnes Design
- Proposed DSTF Expansion
- Proposed Mill Site Footprint Expansion

AKHM

KENO HILL SILVER DISTRICT MINING OPERATIONS

FIGURE 5

METEOROLOGICAL AND AIR QUALITY MONITORING STATIONS LOCATION

MARCH 2017

D:\Project\AllProjects\Keno_Area_Mines\FMXMap\01-Overview\SpecificTopics\Air_Dispersal_Model\03_01_Meteorological_and_air_quality_monitoring_stations_20170328.mxd
(Last edited by: mduchamie; 3/28/2017/10:16 AM)

6. CONCLUSION

- All TSP samples collected to date near the District Mill, DSTF and Keno City are on average at least an order of magnitude below the Yukon air quality standard for TSP;
- PM_{10} and $PM_{2.5}$ samples collected at the same three locations are all well below their respective YAAQS. Most results were in fact found to be below the lab detection limit;
- Two metal concentrations (lead) exceeded the Ontario ambient air quality criteria at TSP-1 out of 167 samples collected to date and 6 exceedances (3 manganese, 1 lead and 2 cadmium) were measured at TSP-2 from 154 samples collected to date. No exceedences of the Ontario AAQCs were observed at TSP-3 in 81 samples. Air quality samples will continue to be collected 3 times per month to identify if these infrequent events are associated with any trends or patterns;
- Blanks will continue to be collected along with regular samples to ensure that no sample contamination is occurring during handling, transport or lab analysis; and
- A few samples were damaged during transport to the lab and could not be analyzed. Precautions have been taken to prevent this from happening again in the future.

7. REFERENCES

Ontario Ministry of Environment. 2012. Ontario's Ambient Air Quality Criteria. Standards Development Branch. PIBS#6570e01. April 2012.

Yukon Environment. 2014. Yukon Ambient Air Quality Standards. April 2010, updated September 2014.

APPENDIX A

TABULAR DATA

Table A-1 24-Hour Average Total Suspended Particulate Results and Associated Meteorological Condition and Site Activities, August 2012 – December 2016

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimun Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Average Solar Radiation (W/m²)	Total Evapo-transpiration (mm)	Activities at site
23/08/2012	10.1	12.8		13.11	10.25	6.84	75.31	0	0.68	29.5	3.42	6.6	n/a	n/a	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
27/09/2012	<5.6	<5.6		8.18	5.23	2.42	62.53	4.5	4.28	124.7	14.27	145.1	n/a	n/a	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
29/09/2012	<5.6	<5.6		5.69	4.28	2.27	60.46	0	2.33	129.7	8.48	155.9	n/a	n/a	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
16/10/2012	5.8	-		1.65	0.24	-2.12	89.17	0.8	0.9	32.6	6.26	75.9	n/a	n/a	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
17/10/2012	<5.6	-		-0.04	-2.84	-8.45	76.89	0.1	1.26	58.8	7.19	159.2	n/a	n/a	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
23/10/2012	53.2	-		-9.97	-14.04	-17.54	78.41	0	0.66	43.2	3.28	17.0	n/a	n/a	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
15/12/2012	<5.6	13.6		-13.59	-15.89	-19.29	88.8	0	0.2	357.4	1.85	5.7	1.71	0.01	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
14/01/2013	<5.6	-		-3.02	-8.34	-11.78	95.04	0	*0.28*	284.8	*1.43*	189.9	0.29	*0*	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
16/01/2013	<5.6	<5.6		-15.96	-18.61	-20.79	84.83	0	1.26	70.2	4.52	36.1	1.08	0.039	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
23/03/2013	<5.6	18.2		-3.01	-10.79	-18.99	51.87	0	1.65	28.3	7.48	148.5	117.58	0.359	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
24/03/2013	<5.6	23.2		0.17	-4.17	-9.93	57.7	0.2	2.61	78.3	11.11	131.7	113.46	0.521	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
25/03/2013	<5.6	13.5		3.26	-0.18	-1.98	60.02	0.2	3.57	83.1	12.47	135.8	89.92	0.692	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
26/03/2013	9.6	11.1		-1.96	-7.27	-17.97	64.66	0.1	3.53	29	10.49	152.2	107.38	0.518	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
07/04/2013	-	17.1		3.46	-3.18	-12.29	65.38	2.2	2.96	94.8	10.32	145.0	113.25	0.71	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
10/04/2013	5.7	7.2		-2.04	-6.54	-11.32	67.42	2.6	2.51	256.1	8.09	199.2	59.54	0.374	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
13/04/2013	<5.6	6.9		-5.93	-12.43	-19.03	45.43	0	1.96	10.6	6.29	26.6	219	0.395	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
15/04/2013	6.5	6.5		-1.9	-7.18	-13.58	53.95	0	2.18	42.3	7.95	103.5	141.21	0.401	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
16/04/2013	7.2	6.4		0.44	-3.52	-8.62	69.65	0.1	2.14	64.3	7.03	73.8	197.88	0.38	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
28/05/2013	6.8	-		19.47	14.39	9.06	49.38	1.6	1.74	23.9	6.95	353.5	221.13	1.048	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
16/06/2013	8.2	-		23.38	17.3	11.35	47.8	3.4	1.94	7.2	12.71	357.9	187.21	1.3	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
17/06/2013	-	<5.6		14.07	10.7	7.39	50.03	0	3.05	16.8	10.87	344.0	234.08	1.435	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimun Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Average Solar Radiation (W/m²)	Total Evapo-transpiration (mm)	Activities at site
18/06/2013	47.2	6.3		21.94	15.07	7.66	47.63	0	1.65	97.3	6.13	136.7	277.13	1.082	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
21/06/2013	7.2	<5.6		17.66	13.9	10.38	79.66	6.6	1.42	344.9	6.83	177.0	124.17	0.363	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
23/06/2013	-	<5.6		18.44	12.68	7.82	76.09	9.4	1.65	23.7	9.54	306.5	149.04	0.509	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
24/06/2013	<5.6	-		23.85	15.91	6.54	59.11	0	1.72	15.1	5.33	336.8	337.54	1.183	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
28/06/2013	-	62.2		23.98	18.36	12.73	65.86	10.5	1.67	51.2	10.37	140.4	182.54	0.783	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
19/07/2013	5.6	<5.6		20.14	14.74	9.64	65.78	0.1	1.42	2.3	6.15	196.5	184.71	0.647	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
20/07/2013	12.2	<5.6		17.94	12.89	7.1	72.14	0.8	1.66	27.6	6.36	304.1	179.46	0.652	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
21/07/2013	<5.6	<5.6		15.94	13.17	11.18	70.77	0.6	1.57	41.9	5.25	11.6	117.25	0.557	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
22/07/2013	<5.6	10.1		20.87	15.55	11.04	56.74	0	1.57	18.9	5.79	209.9	240.08	0.877	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
22/08/2013	<5.6	<5.6		14.14	7.63	1.62	69.1	0	1.76	7.6	6.41	245.3	150.75	0.66	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
23/08/2013	<5.6	-		8.68	6.55	4.21	91.68	6.6	0.85	17.8	3.18	108.3	56.21	0.074	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
24/08/2013	<5.6	-		8.03	5.92	3.43	75.82	0.3	2.61	60.9	8.73	87.5	134.21	0.571	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
25/08/2013	<5.6	<5.6		8.4	5.09	1.8	75.02	0	1.29	16.8	4.03	17.2	96.25	0.274	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
26/08/2013	-	<5.6		10.85	6.73	3.85	82.06	1	1.36	41.4	5.22	324.4	125.54	0.321	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
28/08/2013	-	7.2		17.01	8.66	1.14	61.42	0	1.38	73.5	6.5	145.7	181.92	0.639	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
31/08/2013	-	<5.6		9.51	7.68	5.12	91.35	4.7	1.01	22.5	4.9	191.4	53.42	0.094	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
21/09/2013	-	<5.6		2.64	0.6	-0.96	96.45	6.6	*0.92*	356.8	*3.41*	27.7	48.71	*0.036*	No mining operations, Exploration activities at Flame & Moth
24/09/2013	<5.6	<5.6		1.7	0.38	-2.3	89.58	0	1.68	17.2	6.2	220.9	55.67	0.138	No mining operations, Care and Maintenance
27/09/2013	<5.6	<5.6		6.66	3.26	1.15	84.55	2.8	1.25	50.8	7.66	137.4	49.38	0.183	No mining operations, Care and Maintenance
28/09/2013	<5.6	<5.6		7.32	3.73	0.07	69.19	0	1.14	55.2	5.51	78.8	78.04	0.346	No mining operations, Care and Maintenance
29/09/2013	<5.6	-		6.77	3.58	1.28	60.97	0	2.18	63.6	7.7	92.1	81.08	0.636	No mining operations, Care and Maintenance
30/09/2013	-	6		6.19	3.22	1	63.34	0	1.64	49.8	5.32	84.6	49.79	0.447	No mining operations, Care and Maintenance
24/10/2013	-	<5.6		-4.58	-6.99	-10.1	95.67	0	0.77	48.1	3.78	238.2	22.92	0.022	No mining operations, Care and Maintenance
25/10/2013	7.6	<5.6		-3.58	-5.09	-7.52	96.9	0	0.47	43.3	2.99	31.6	8.96	0.015	No mining operations, Care and Maintenance
26/10/2013	<5.6	<5.6		-0.68	-4.9	-8.64	95.13	1.2	1.19	79.3	4.02	152.5	41.21	0.036	No mining operations, Care and Maintenance
27/10/2013	6.8	<5.6		-5.73	-7.6	-9.98	95.57	0	0.71	44.1	2.77	15.1	7.17	0.024	No mining operations, Care and Maintenance

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimun Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Average Solar Radiation (W/m²)	Total Evapo-transpiration (mm)	Activities at site
28/10/2013	<5.6	-		0.21	-3.79	-5.96	97.83	0	0.97	19.7	5.27	25.8	4.92	0.016	No mining operations, Care and Maintenance
28/11/2013	7.8	8.8		-5.9	-10.14	-15.55	91.67	2.3	1.53	22.8	8.22	202.6	1.04	0.051	No mining operations, Care and Maintenance
29/11/2013	7.6	7.5		-16.84	-22.52	-27.23	81.85	0.1	1.04	111.6	3.7	159.4	1.13	0.031	No mining operations, Care and Maintenance
30/11/2013	8.9	8.5		-25.99	-27.76	-29.67	77.52	0	0.37	75.8	1.95	97.3	1.08	0.012	No mining operations, Care and Maintenance
01/12/2013	6.7	7.2		-29.46	-30.57	-32.06	74.69	0	0.54	103.8	3.58	114.7	0.79	0.016	No mining operations, Care and Maintenance
03/01/2014	13.2	11.8		-20.82	-24.67	-28.26	80.16	0	n/a	n/a	n/a	n/a	0.5	n/a	No mining operations, Care and Maintenance
04/01/2014	12.6	9.3		-23.86	-27.58	-29.03	77.62	0	n/a	n/a	n/a	n/a	0.38	n/a	No mining operations, Care and Maintenance
05/01/2014	18.6	11.4		-11.47	-15.47	-22.96	88.97	0	n/a	n/a	n/a	n/a	0.25	n/a	No mining operations, Care and Maintenance
06/01/2014	11.9	11		-10.08	-10.91	-11.81	92.77	2.3	*0*	239.5	*0.17*	239.5	0.63	*0*	No mining operations, Care and Maintenance
01/02/2014	9.7	11.9		-13.87	-15.42	-16.72	89.15	0	0.17	68.5	1.26	41.1	16.67	0.006	No mining operations, Care and Maintenance
02/02/2014	<5.6	<5.6		-10.84	-13.88	-16.51	90.43	0	0.7	54.6	2.99	45.8	18.17	0.028	No mining operations, Care and Maintenance
03/02/2014	<5.6	<5.6		-13.05	-16.23	-18.55	88.38	0	0.71	8.2	4.06	12.8	20.17	0.027	No mining operations, Care and Maintenance
04/02/2014	<5.6	6.4		-16.81	-19.32	-20.81	85.64	0	0.31	66.7	2.22	19.1	20.38	0.013	No mining operations, Care and Maintenance
05/03/2014	<5.6	<5.6		-13.83	-18.81	-21.99	54.48	0	1.1	59.6	3.62	124.0	82.79	0.12	No mining operations, Care and Maintenance
06/03/2014	<5.6	<5.6		-14.55	-20.5	-26.02	61.57	0	1.24	36.8	4.91	117.7	89.46	0.119	No mining operations, Care and Maintenance
07/03/2014	<5.6	<5.6		-15.31	-21.47	-26.79	62.8	0	0.84	38.6	3.17	5.5	92.17	0.084	No mining operations, Care and Maintenance
25/03/2014	<5.6	<5.6		-1.15	-9.04	-16.37	41.09	0	2.09	39.8	5.68	79.2	151.67	0.533	No mining operations, Care and Maintenance
12/04/2014	<5.6	<5.6		1.63	-6.67	-14.67	40.6	0	1.38	23.9	4.11	241.4	189.08	0.444	Exploration activities at Flame & Moth
13/04/2014	6.8	8.1		5.29	-0.4	-6.75	39.56	0.4	1.16	34.5	4.06	355.5	176.96	0.585	Exploration activities at Flame & Moth
14/04/2014	18.8	20.3		8.44	3.51	-0.45	45.57	0.1	1.43	56.6	5.66	15.6	167.38	0.69	Exploration activities at Flame & Moth
15/04/2014	15.7	14.4		8.6	3.21	-1.58	56.03	0	1.46	31.1	6.69	133.6	164.21	0.606	Exploration activities at Flame & Moth
11/05/2014	21.9	23.2		13.32	7.67	2.564	40.33	0.4	1.81	3.5	6.44	302.1	0.3	1.048	Exploration activities at Flame & Moth
12/05/2014	14.4	10		15.92	9.23	1.645	40.14	0.2	1.55	10.5	6.13	209.7	0.28	0.985	Exploration activities at Flame & Moth
13/05/2014	<5.6	18.6		17.93	11.47	4.408	47.25	0.2	2.2	335.7	8.58	194.2	0.27	1.367	Exploration activities at Flame & Moth
29/05/2014	17.1	<5.6		17.05	10.5	2.236	58.36	1.2	1.64	3.6	7.38	314.9	0.29	0.877	Exploration activities at Flame & Moth
26/06/2014	<5.6			15.56	11.04	5.062	48.68	0.4	2.02	79.7	7.96	150.5	0.26	1.047	Exploration activities at Flame & Moth
27/06/2014	<5.6	5.6		18.11	12.96	8.05	48.56	0	1.42	34.9	5.67	322.6	0.18	0.916	Exploration activities at Flame & Moth
28/06/2014		<5.6		23.06	16.15	6.332	38.97	0.4	2.11	328.2	7.94	285.6	0.35	1.641	Exploration activities at Flame & Moth
29/06/2014	<5.6	<5.6		24.93	17.07	7.576	40.23	0.2	1.9	35	6.44	336.1	0.29	1.48	Exploration activities at Flame & Moth
30/06/2014	<5.6	<5.6		17.12	14.37	12.5	67.69	0	1.12	47.7	6.95	92.8	0.09	0.454	Exploration activities at Flame & Moth
08/07/2014	<5.6	<5.6		16.39	12.98	8.98	63.26	0	1.57	326.4	6.45	223.7	0.16	0.65	Exploration activities at Flame & Moth
27/07/2014	<5.6	<5.6		16.61	11.39	8.41	83.5	2.8	1.11	228.9	5.3	334.3	0.14	0.266	Exploration activities at Flame & Moth
28/07/2014	<5.6	<5.6		18.93	12.56	7.43	68.18	0.6	1.36	220.2	6.31	151.2	0.19	0.599	Exploration activities at Flame & Moth

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimun Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Average Solar Radiation (W/m²)	Total Evapo-transpiration (mm)	Activities at site
29/07/2014	<5.6	<5.6		15.18	12.05	9.11	79.4	3.4	1.69	211.1	6.9	320.3	0.13	0.354	Exploration activities at Flame & Moth
22/08/2014	<5.6	<5.6		14.95	10.31	6.149	76.43	0	1.35	44.2	5.99	16.6	0.13	0.337	Exploration activities at Flame & Moth
23/08/2014	6.9	16.7		16.65	10.05	4.659	78.54	1.5	1.37	59.5	4.99	143.5	0.18	0.354	Exploration activities at Flame & Moth
24/08/2014	<5.6	5.6		14.83	9.69	5.429	74.6	0	1.6	55.6	5.76	354.8	0.12	0.447	Exploration activities at Flame & Moth
25/08/2014	<5.6			12.09	9.4	7.071	86.62	1.1	0.73	18.6	3.96	354	0.09	0.156	Exploration activities at Flame & Moth
26/08/2014		<5.6		11.48	8.22	5.645	91.57	16	0.65	51.2	4.1	193.2	0.07	0.059	Exploration activities at Flame & Moth
20/09/2014	<5.6	<5.6		8.42	6.1	4.174	77.89	0	1	58.8	5.53	94.3	0.05	0.223	Exploration activities at Flame & Moth
23/09/2014	5.6	6.9		4.986	0.95	-1.977	88.36	0.7	1.51	271.1	7.22	194.9	0.06	0.134	Exploration activities at Flame & Moth
24/09/2014	5.6	6.9		4.955	-0.44	-3.427	76.34	0.4	1.28	22.7	4.81	221.0	0.1	0.221	Exploration activities at Flame & Moth
27/09/2014	5.6	<5.6		4.42	0.96	-1.406	89.84	3.5	1.42	32.8	8.05	166.0	0.02	0.109	Exploration activities at Flame & Moth
15/10/2014	9.7	18.1		-0.86	-3.51	-5.65	87.21	0.1	0.88	25.4	3.51	30.7	0.03	0.063	Exploration activities at Flame & Moth
16/10/2014	<5.6	<5.6		-0.581	-1.62	-3.093	89.96	0	1.1	28.4	4.97	25.6	0.01	0.068	Exploration activities at Flame & Moth
23/10/2014	<5.6	<5.6		-3.667	-4.97	-5.752	89.54	0	0.93	30.2	4.95	34.6	0.02	0.063	Exploration activities at Flame & Moth
24/10/2014	<5.6	<5.6		-2.715	-4.57	-5.456	95.21	0	0.79	39.2	3.81	171.6	0.01	0.031	Exploration activities at Flame & Moth
19/11/2014	10			-2.206	-3.73	-5.562	97.74	0	0.45	50.3	2.98	187.5	0	0.012	No mining operations, Care and Maintenance
20/11/2014	<5.6			-4.7	-10	-15.01	93.46	0	0.49	124.5	2.75	117.0	0	0.016	No mining operations, Care and Maintenance
22/11/2014		<5.6		-18.86	-19.79	-21.6	85.38	0.2	0.22	12.2	1.61	29.1	0	0.008	No mining operations, Care and Maintenance
23/11/2014		5.8		-17.53	-19.71	-22.09	85.39	0.1	0.15	14.1	2.55	17.0	0	0.003	No mining operations, Care and Maintenance
24/11/2014	<5.6			-14.55	-16.44	-18.21	88.27	0.1	0.18	45	1.58	28.1	0	0.007	No mining operations, Care and Maintenance
25/11/2014	10.4	8.1		-11.02	-12.48	-13.85	91.5	0	*0.18*	30.3	*1.31*	40.8	0	*0.002*	No mining operations, Care and Maintenance
12/12/2014	10.3	7.8		-11.81	-14.01	-16.65	90.33	0	n/a	n/a	n/a	n/a	0	n/a	No mining operations, Care and Maintenance
13/12/2014	5.8	11.7	16	-11.22	-14.47	-17.02	89.88	0	n/a	n/a	n/a	n/a	0	n/a	No mining operations, Care and Maintenance
14/12/2014		5.6	<5.6	-2.637	-10.17	-15.75	93.13	0.1	n/a	n/a	0.04	46.8	0	*0*	No mining operations, Care and Maintenance
15/12/2014	<5.6	<5.6	<5.6	-0.904	-1.88	-4.157	85.83	0	*0.78*	48.5	*8.87*	155.1	0	*0.081*	No mining operations, Care and Maintenance
17/12/2014	<5.6			-5.392	-6.76	-8.51	94.93	0	0.55	69.5	3.02	38.6	0	0.024	No mining operations, Care and Maintenance
10/01/2015	5.6	<5.6		-9.46	-10.34	-10.97	93.47	0	0.09	251.9	1.42	10.3	0	0.003	No mining operations, Care and Maintenance
11/01/2015	<5.6	<5.6		-9.37	-10.03	-10.63	93.32	0	*0.11*	65.4	*1.26*	33.4	0	*0.001*	No mining operations, Care and Maintenance
12/01/2015			<5.6	-9.68	-10.29	-11.46	93.2	0	n/a	n/a	n/a	n/a	0	n/a	No mining operations, Care and Maintenance
13/01/2015	<5.6	<5.6		-6.068	-8.44	-11.23	94.59	0	n/a	n/a	n/a	n/a	0	n/a	No mining operations, Care and Maintenance
15/01/2015	6.1	<5.6	<5.6	-0.888	-5.06	-9.68	96.82	0	*0.22*	356.6	*3.7*	38.4	0	*0.005*	No mining operations, Care and Maintenance
16/01/2015			<5.6	-0.335	-2.85	-7.954	98.1	0	1.14	346.9	4.48	188.0	0	0.018	No mining operations, Care and Maintenance
18/01/2015			<5.6	-3.823	-6.18	-8.51	96	0.2	0.69	60.2	4.21	170.8	0	0.023	No mining operations, Care and Maintenance
12/02/2015		6.3	8.6	-11.62	-13.95	-15.81	89.23	0	0.37	19.4	3.26	272.0	0.01	0.023	No mining operations, Care and Maintenance

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimun Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Average Solar Radiation (W/m²)	Total Evapo-transpiration (mm)	Activities at site
13/02/2015	<5.6	<5.6		-6.289	-8.23	-11.42	93.9	0	0.52	24.5	4.93	37.9	0	0.024	No mining operations, Care and Maintenance
15/02/2015	7.1	<5.6	8.8	-3.145	-6.33	-9.71	92.52	7.3	0.73	98.5	3.04	97.7	0.01	0.038	No mining operations, Care and Maintenance
16/02/2015	<5.6	<5.6	7.9	-2.157	-7.74	-11.49	93.95	0.7	0.85	15.9	4.61	30.5	0	0.029	No mining operations, Care and Maintenance
18/02/2015	<5.6		11.5	-0.889	-2.64	-4.515	96.48	0	0.42	29.1	3.69	7.9	0	0.016	No mining operations, Care and Maintenance
06/03/2015	7.1	7.8	<5.6	-0.298	-3.66	-5.577	86.59	0.1	1.37	322.7	6.53	188.2	0.03	0.148	No mining operations, Care and Maintenance
07/03/2015	<5.6	<5.6	<5.6	0.932	-2.44	-4.272	78.47	0.2	1.42	30.5	6.22	180.2	0.02	0.2	No mining operations, Care and Maintenance
16/03/2015	6.7	<5.6	9	-12.89	-19.53	-26.15	73.31	0	0.89	14.5	3.84	17.0	0.06	0.07	No mining operations, Care and Maintenance
17/03/2015	<5.6	<5.6	16.5	-1.807	-9.23	-13.81	72.37	0.3	0.93	28.9	4.24	24.0	0.07	0.158	No mining operations, Care and Maintenance
02/04/2015	<5.6	<5.6	<5.6	4.032	-1.57	-5.899	66.26	0	1.7	27.7	4.94	71.0	0.17	0.415	No mining operations, Care and Maintenance
03/04/2015	<5.6	<5.6	<5.6	2.002	-2.72	-7.184	58.66	0	2.35	16.5	7.17	88.7	0.17	0.575	No mining operations, Care and Maintenance
04/04/2015	<5.6	<5.6	5.7	3.513	-3.7	-10.48	61.55	0	1.53	71	6.57	152.2	0.16	0.414	No mining operations, Care and Maintenance
05/04/2015	<5.6	<5.6	5.8	3.213	-2.1	-5.496	84.15	0	1.2	345.9	7.63	247.7	0.13	0.174	No mining operations, Care and Maintenance
21/05/2015			<5.6	23.83	16.28	7.585	34.05	0	1.73	13	5.17	238.3	0.31	1.389	No mining operations, Care and Maintenance
22/05/2015			<5.6	25.09	17.82	10.28	29.16	0	1.71	25.5	6.02	300.9	0.29	1.554	No mining operations, Care and Maintenance
23/05/2015			8.8	26.43	19.79	12.86	26.79	0	1.36	18.1	9.86	184.2	0.25	1.466	No mining operations, Care and Maintenance
24/05/2015			9.9	26.51	19.2	11.59	32.85	0	1.79	91.6	7.59	167.6	0.27	1.648	No mining operations, Care and Maintenance
25/05/2015	15.8	18.9		25.12	17.97	10.28	38.93	0	2.05	1.8	8.18	180.7	0.28	1.556	No mining operations, Care and Maintenance
26/05/2015	22.2	26.4		21.73	15.55	9.78	53.49	0	1.79	32.8	9.22	90.9	0.16	0.986	No mining operations, Care and Maintenance
27/05/2015	15.8	15		22.99	16.43	11.38	52.67	0	2.18	351.8	8.63	24.0	0.29	1.243	No mining operations, Care and Maintenance
28/05/2015	6.3	5.8		20.98	14.38	8.42	62.4	0	1.94	333.9	10.63	269.0	0.25	0.924	No mining operations, Care and Maintenance
16/06/2015	<5.6	<5.6	<5.6	19.74	13.76	6.668	51.79	0.9	1.75	21.2	10.14	354.4	0.27	1.096	No mining operations, Care and Maintenance
17/06/2015	<5.6	9.3	<5.6	15.41	11.36	6.976	63.5	0	2.66	357.7	9.73	337.9	0.22	1.071	No mining operations, Care and Maintenance
18/06/2015	<5.6	<5.6	<5.6	18.34	11.65	4.589	42.59	0	2.27	349.6	7.18	316.9	0.35	1.479	No mining operations, Care and Maintenance
01/07/2015		<5.6	68.1	15.59	11.07	7.143	76.46	1.4	1.58	304.9	7.87	205.5	0.18	0.466	No mining operations, Care and Maintenance
08/07/2015	15.4	32.1	43.8	17.01	12.85	10.73	80.11	3.2	1.68	276.1	11.49	257.1	0.08	0.453	No mining operations, Care and Maintenance
11/07/2015	<5.6	7.6	<5.6	14.04	12.35	10.35	75.27	9.5	1.01	39	5.52	152.4	0.11	0.281	No mining operations, Care and Maintenance
20/07/2015	9.6	5.7	13.1	17.42	11.86	4.725	62.55	0	2.03	2	9.09	318.7	0.26	1.007	No mining operations, Care and Maintenance
13/08/2015	6.8	10.4		14.48	7.56	0.308	64.18	0	1.56	4.2	6.06	322.4	0.21	0.644	No mining operations, Care and Maintenance
14/08/2015	11.4	<5.6	9.7	16.49	9.14	3.399	70.07	0	1.67	34.3	6.71	224.5	0.17	0.55	No mining operations, Care and Maintenance
15/08/2015	7.4	9	6.4	18.97	11.31	4.551	63.45	0	1.67	1.3	5.93	215.3	0.21	0.728	No mining operations, Care and Maintenance
16/08/2015	11	8.6	6.5	16.31	11.81	8.21	64.84	0	1.52	298.6	6.48	207.9	0.14	0.687	No mining operations, Care and Maintenance
17/09/2015	5.7	<5.6		8.56	5.26	3.57	83.42	4.4	1.69	121.4	6.94	142.7	0.08	0.26	No mining operations, Care and Maintenance
20/10/2015	6	<5.6	5.6	3.167	1.32	-1.097	89.12	0	0.99	90.8	5.45	120.4	0.04	0.11	No mining operations, Care and Maintenance

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimun Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Average Solar Radiation (W/m²)	Total Evapo-transpiration (mm)	Activities at site
21/10/2015	<5.6	8.2	<5.6	2.824	0.27	-1.349	89.93	0	0.7	23.8	5.71	140.6	0.01	0.065	No mining operations, Care and Maintenance
13/11/2015	21.4	14	16	-11.46	-12.67	-14.95	91.27	2.4	n/a	n/a	n/a	n/a	0	n/a	No mining operations, Care and Maintenance
15/11/2015	10.3	10	8.5	-14.97	-16.71	-19.11	88	1	*n/a*	n/a	*0.09*	205.8	0	*0*	No mining operations, Care and Maintenance
16/11/2015	10.8	12.2	6.9	-14.95	-16.51	-18.04	88.14	0.2	*0.36*	19.4	*2.93*	26.0	0	*0.005*	No mining operations, Care and Maintenance
17/11/2015	17.8	20.8		-17.84	-18.96	-22.21	85.9	0.3	*0.69*	20.9	*2.99*	20.7	0	*0.02*	No mining operations, Care and Maintenance
18/11/2015	9.7	17.4		-22.09	-25.52	-29.1	79.53	0	n/a	n/a	n/a	n/a	0	n/a	No mining operations, Care and Maintenance
16/12/2015	<5.6		<5.6	-15.9	-17.77	-21.21	87.08	0	n/a	n/a	n/a	n/a	0	n/a	No mining operations, Care and Maintenance
17/12/2015	<5.6		<5.6	-12.54	-17.25	-19.91	87.61	0	n/a	n/a	n/a	n/a	0	n/a	No mining operations, Care and Maintenance
18/12/2015	<5.6		<5.6	-10.93	-11.8	-12.91	91.85	0.1	n/a	n/a	n/a	n/a	0	n/a	No mining operations, Care and Maintenance
19/12/2015	<5.6		<5.6	-11.73	-12.75	-14.99	90.93	0	n/a	n/a	n/a	n/a	0	n/a	No mining operations, Care and Maintenance
05/01/2016	<5.6		<5.6	-12.1	-14.93	-16.42	89.23	0	0.41	49.4	2.10	76.3	0.00	0.023	No mining operations, Care and Maintenance
06/01/2016	<5.6		<5.6	-14.12	-15.06	-15.93	85.37	0	0.21	47.1	1.59	30.3	0.00	0.014	No mining operations, Care and Maintenance
07/01/2016			<5.6	-14.34	-15.65	-16.56	79.81	4	0.33	64.8	2.20	36.4	0.00	0.028	No mining operations, Care and Maintenance
08/01/2016	<5.6			-15.34	-16.32	-17.01	79.46	0	0.51	88.9	2.41	140.3	0.00	0.036	No mining operations, Care and Maintenance
26/02/2016	<5.6		<5.6	-2.88	-6.39	-9.04	89.98	0	0.83	44.7	3.82	14.3	0.01	0.045	No mining operations, Care and Maintenance
27/02/2016	<5.6		<5.6	-0.499	-3.86	-5.51	89.43	0.2	0.90	18.1	5.08	341.7	0.09	0.105	No mining operations, Care and Maintenance
28/02/2016	<5.6		<5.6	-0.842	-2.71	-5.93	76.81	0	1.14	30.8	6.79	139.1	0.03	0.173	No mining operations, Care and Maintenance
12/03/2016	<5.6	<5.6	<5.6	3.148	-2.98	-7.60	62.41	0.2	1.07	68.3	4.02	90.3	0.10	0.286	No mining operations, Care and Maintenance
14/03/2016	<5.6	<5.6	<5.6	-4.622	-6.39	-9.43	83.42	0	1.14	17.3	3.71	21.7	0.06	0.101	No mining operations, Care and Maintenance
15/03/2016	<5.6	<5.6	<5.6	-3.963	-6.65	-9.78	91.08	0.1	0.77	25.8	3.96	45.1	0.04	0.052	No mining operations, Care and Maintenance
19/04/2016	<5.6	<5.6	<5.6	4.494	0.18	-5.34	60.59	0	1.58	13.4	6.15	318.7	0.22	0.48	No mining operations, Care and Maintenance
23/04/2016	<5.6	<5.6	<5.6	12.14	5.94	0.67	67.36	0.5	1.25	74.3	5.66	111.3	0.23	0.538	No mining operations, Care and Maintenance
24/04/2016	<5.6	<5.6	<5.6	13.5	7.50	2.87	59.67	0	1.27	32.3	5.58	64.8	0.18	0.538	No mining operations, Care and Maintenance
23/05/2016	<5.6	<5.6	<5.6	15.41	10.35	2.50	55.84	0	1.95	10.5	6.47	319.6	0.22	1.007	No mining operations, Care and Maintenance
25/05/2016	10.6	<5.6	<5.6	9.99	7.54	5.79	64.33	0.2	2.36	359.9	8.15	339.7	0.15	0.723	No mining operations, Care and Maintenance
13/06/2016	<5.6	<5.6	<5.6	14.65	10.54	6.45	73.67	1.1	1.33	26.6	4.77	339.0	0.11	0.353	No mining operations, Care and Maintenance
17/06/2016	<5.6	<5.6	<5.6	21.96	15.16	8.18	37.44	0	1.90	8.8	7.63	317.6	0.35	1.509	No mining operations, Care and Maintenance
19/06/2016	9.7	22.6	6.1	25.98	18.97	9.57	35.04	0	2.41	292.5	9.21	198.7	0.35	2.176	No mining operations, Care and Maintenance
28/07/2016	<5.6	<5.6	<5.6	18.66	14.78	10.16	67.43	1.7	1.57	61.8	7.73	236.2	0.14	0.675	No mining operations, Care and Maintenance
29/07/2016	<5.6	<5.6	<5.6	15.55	11.73	7.72	88.27	2.7	0.95	61.3	4.20	238.4	0.12	0.141	No mining operations, Care and Maintenance
30/07/2016	<5.6	<5.6	<5.6	15.5	12.59	9.46	78.82	0.6	1.44	285.4	6.19	233.8	0.13	0.364	No mining operations, Care and Maintenance
09/08/2016	<5.6	<5.6	<5.6	12.96	11.51	9.52	93.48	8.5	1.17	302.7	5.50	194.6	0.08	0.096	No mining operations, Care and Maintenance
10/08/2016	<5.6	<5.6	<5.6	11.59	9.94	8.94	91.50	2.9	1.31	355.7	7.75	255.8	0.06	0.147	No mining operations, Care and Maintenance

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimun Air Temperature (°C)	Average Relative Humidity (%)	Total Rain* (mm)	Average Wind Speed (m/s)	Average Wind Direction (°)	Maximum Wind Speed (m/s)	Direction of Maximum Wind Speed (°)	Average Solar Radiation (W/m²)	Total Evapo-transpiration (mm)	Activities at site
11/08/2016	<5.6	<5.6	<5.6	16.77	11.59	7.05	75.82	0.1	0.87	337.9	5.60	228.3	0.16	0.321	No mining operations, Care and Maintenance
28/09/2016	<5.6	<5.6	<5.6	5.192	0.46	-2.50	67.44	0	1.38	79.8	5.88	178.1	0.09	0.373	No mining operations, Care and Maintenance
29/09/2016	<5.6	<5.6	<5.6	3.332	0.51	-3.57	67.16	0.2	2.12	349.2	8.03	309.6	0.05	0.544	No mining operations, Care and Maintenance
30/09/2016	<5.6	<5.6	<5.6	3.833	-1.67	-6.18	65.93	0	1.35	48.9	4.13	209.7	0.09	0.295	No mining operations, Care and Maintenance
05/10/2016	8.8	6.7	5.7	1.857	-4.62	-8.16	70.26	0	1.36	59.1	3.94	111.7	0.09	0.252	No mining operations, Care and Maintenance
07/10/2016	<5.6		<5.6	1.909	-4.42	-8.66	67.82	0	1.41	74.1	3.65	126.2	0.09	0.253	No mining operations, Care and Maintenance
10/10/2016	<5.6		13.5	0.07	-5.24	-9.03	75.16	0	1.27	74.9	3.26	102.4	0.07	0.168	No mining operations, Care and Maintenance
27/10/2016		<5.6		-5.793	-8.05	-10.39	89.97	0.3	0.96	39.1	3.35	16.5	0.04	0.048	No mining operations, Care and Maintenance
26/11/2016	<5.6	<5.6	<5.6	-8.12	-13.62	-17.72	89.97	0	*0.45*	20.1	*3.97*	23.1	0.00	*0.014*	No mining operations, Care and Maintenance
27/11/2016	<5.6	6.1	7.6	-6.422	-6.91	-8.06	95.25	0	0.45	39.6	3.59	37.4	0.00	0.017	No mining operations, Care and Maintenance
28/11/2016	<5.6	<5.6	<5.6	-6.707	-8.32	-13.37	94.16	1.3	*0.34*	119.1	*4.63*	179.3	0.00	*0.013*	No mining operations, Care and Maintenance
27/12/2016	<5.6	<5.6	<5.6	-11.02	-11.92	-14.10	91.65	0	0.05	51.0	1.20	63.8	0.00	0.002	No mining operations, Care and Maintenance
29/12/2016	<5.6	<5.6	<5.6	-14.61	-16.92	-19.94	87.48	0	*0.12*	147.9	*1.53*	184.4	0.00	*0.002*	No mining operations, Care and Maintenance
30/12/2016	<5.6	<5.6	<5.6	-14.31	-16.67	-18.52	87.67	0	n/a	n/a	n/a	n/a	0.00	n/a	No mining operations, Care and Maintenance

** Starting October 15, 2013, total precipitation is reported rather than total rain*

Table A-2 24-Hour Average PM_{10} and $PM_{2.5}$ Results, August 2015 – December 2016

Sample Date	TSP-1		TSP-2		TSP-3		Sample Date	TSP-1		TSP-2		TSP-3		Sample Date	TSP-1		TSP-2		TSP-3	
	PM_{10} (µg/m³)	$PM_{2.5}$ (µg/m³)	PM_{10} (µg/m³)	$PM_{2.5}$ (µg/m³)	PM_{10} (µg/m³)	$PM_{2.5}$ (µg/m³)		PM_{10} (µg/m³)	$PM_{2.5}$ (µg/m³)	PM_{10} (µg/m³)	$PM_{2.5}$ (µg/m³)	PM_{10} (µg/m³)	$PM_{2.5}$ (µg/m³)		PM_{10} (µg/m³)	$PM_{2.5}$ (µg/m³)	PM_{10} (µg/m³)	$PM_{2.5}$ (µg/m³)	PM_{10} (µg/m³)	$PM_{2.5}$ (µg/m³)
17/08/2015		<5.6		<5.6		<5.6	18/03/2016	<5.6		<5.6		<5.6		15/08/2016	<5.6		<5.6		<5.6	
18/08/2015		6.5		<5.6		<5.6	19/03/2016	<5.6		<5.6		<5.6		30/08/2016		<5.6		<5.6		9
20/08/2015		6.5		<5.6		<5.6	21/03/2016		<5.6		<5.6		<5.6	31/08/2016		<5.6		<5.6		<5.6
22/08/2015	<5.6		8.6		<5.6		23/03/2016		<5.6		<5.6		<5.6	12/09/2016		<5.6		<5.6		<5.6
23/08/2015	7.8		8.6		<5.6		28/03/2016		<5.6		<5.6		<5.6	14/09/2016		<5.6		<5.6		<5.6
24/08/2015	14.6		8.5		5.8		15/04/2016		<5.6		<5.6		<5.6	21/09/2016		<5.6		<5.6		<5.6
05/09/2015	<5.6		<5.6		<5.6		16/04/2016		<5.6		<5.6		<5.6	23/09/2016	<5.6				<5.6	
06/09/2015	<5.6		<5.6		<5.6		18/04/2016		<5.6		<5.6		<5.6	24/09/2016	<5.6		<5.6		<5.6	
09/09/2015	<5.6		<5.6		<5.6		25/04/2016	<5.6		<5.6		<5.6		25/09/2016	<5.6		<5.6		<5.6	
11/09/2015		<5.6		<5.6		<5.6	26/04/2016	<5.6		<5.6		<5.6		03/10/2016					<5.6	
12/09/2015				<5.6		<5.6	29/04/2016	<5.6		<5.6		8.2		23/10/2016		<5.6				<5.6
14/09/2015				<5.6		<5.6	15/05/2016	<5.6		<5.6		<5.6		27/10/2016		<5.6				<5.6
20/11/2015		<5.6		<5.6			16/05/2016	<5.6		<5.6		<5.6		28/10/2016		<5.6		<5.6		<5.6
21/11/2015		<5.6		<5.6			18/05/2016	<5.6		<5.6		<5.6		29/10/2016	<5.6			<5.6	<5.6	
24/11/2015		<5.6	<5.6				19/05/2016		<5.6		<5.6		<5.6	30/10/2016	<5.6		<5.6			
25/11/2015	<5.6				<5.6		21/05/2016		<5.6		<5.6		<5.6	31/10/2016	<5.6		<5.6		<5.6	
09/01/2016		<5.6				<5.6	22/05/2016		<5.6		<5.6		<5.6	04/11/2016	<5.6		<5.6		<5.6	
10/01/2016		<5.6				6.3	20/06/2016	<5.6		<5.6		<5.6		05/11/2016	<5.6		<5.6		<5.6	
16/01/2016		<5.6				<5.6	22/06/2016	<5.6		<5.6		<5.6		25/11/2016	<5.6		<5.6		<5.6	
17/01/2016	<5.6				<5.6		26/06/2016	<5.6		<5.6		<5.6		30/11/2016		6		<5.6		<5.6
18/01/2016	<5.6				<5.6		27/06/2016		5.6		7.4		<5.6	01/12/2016		<5.6		<5.6		<5.6
19/01/2016	<5.6				<5.6		29/06/2016		13.8		20.8		13.6	02/12/2016		<5.6		<5.6		<5.6
13/02/2016	<5.6				6.4		15/07/2016		17.4		8.9		12.1	18/12/2016		<5.6		<5.6		10
14/02/2016	<5.6				<5.6		17/07/2016		10.1		23.1		12.2	20/12/2016		8.3		<5.6		6.3
15/02/2016	<5.6				<5.6		18/07/2016		<5.6		<5.6		<5.6	21/12/2016		<5.6		<5.6		<5.6
22/02/2016		<5.6				<5.6	25/07/2016	<5.6		<5.6		<5.6		31/12/2016	<5.6		<5.6		<5.6	
23/02/2016		<5.6				<5.6	26/07/2016	<5.6		<5.6		<5.6		01/01/2017	<5.6		<5.6		<5.6	
25/02/2016		<5.6				<5.6	27/07/2016	<5.6		<5.6		<5.6		02/01/2017	<5.6		<5.6		<5.6	
12/03/2016							13/08/2016	<5.6		<5.6		<5.6								
17/03/2016	<5.6		<5.6		<5.6		14/08/2016	<5.6		<5.6		<5.6								

Table A-3 24-Hour Average Metal Concentrations, TSP-1, August 2012 – December 2016

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³ *	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³ *	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m3	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
Ontario AAQC (24-hr avg)		**25**	**0.3**	**10**	**0.01**	**120**	**0.025**		**0.5**	**0.1**	**50**	**4**	**0.5**		**0.4**	**120**	**2**			**10**		**1**		**120**		**10**	**120**	**2**	**120**	
23/08/12	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.486	<0.042	<0.069	<0.069	0.554	0.174	0.061	0.045	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	0.708	<0.111	<0.028	<0.042	0.118	<0.069
27/09/12	0.667	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	1.722	<0.042	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.039	<0.069
23/10/12	0.653	<0.278	<0.111	0.022	<0.011	<0.042	<0.028	1.153	<0.042	<0.069	<0.069	2.528	1.083	0.308	0.301	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	0.569	<0.111	<0.028	<0.042	0.558	<0.069
15/12/12	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	<0.042	<0.069	<0.069	0.194	0.139	<0.042	0.053	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.094	<0.069
14/01/13	0.403	<0.278	<0.111	0.010	<0.011	<0.042	<0.028	2.069	<0.042	<0.069	<0.069	0.815	<0.111	0.217	0.026	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	0.875	0.007	0.556	0.174	<0.028	<0.042	0.196	<0.069
16/01/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.444	<0.042	<0.069	<0.069	0.126	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.039	<0.069
23/03/13	0.292	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	1.347	<0.042	<0.069	<0.069	0.318	<0.111	0.072	0.034	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	0.347	<0.111	<0.028	<0.042	0.043	<0.069
24/03/13	<0.278	<0.278	<0.111	0.019	<0.011	<0.042	<0.028	0.597	<0.042	<0.069	<0.069	0.293	<0.111	0.094	0.066	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.067	<0.069
25/03/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.057	<0.069	<0.069	0.181	<0.111	0.058	0.021	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.039	<0.069
26/03/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	<0.042	<0.069	<0.069	0.168	<0.111	0.057	0.019	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.050	<0.069
10/04/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.043	<0.069	<0.069	0.272	<0.111	0.082	0.017	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	0.292	<0.111	<0.028	<0.042	0.035	<0.069
13/04/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.306	0.053	<0.069	<0.069	0.465	<0.111	0.106	0.022	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	0.375	<0.111	<0.028	<0.042	0.038	<0.069
15/04/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.047	<0.069	<0.069	0.169	<0.111	0.061	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	0.333	<0.111	<0.028	<0.042	<0.028	<0.069
16/04/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	<0.042	<0.069	<0.069	0.107	<0.111	0.046	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	0.278	<0.111	<0.028	<0.042	<0.028	<0.069
28/05/13	5.292	<0.278	<0.111	0.009	<0.011	0.264	<0.028	8.722	0.049	<0.069	<0.069	0.313	<0.111	0.222	0.013	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	0.583	0.017	0.306	<0.111	<0.028	<0.042	0.079	<0.069
16/06/13	5.236	<0.278	<0.111	0.012	<0.011	0.264	<0.028	8.597	0.076	<0.069	<0.069	0.879	0.224	0.211	0.083	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	0.722	0.016	0.292	<0.111	<0.028	<0.042	0.164	<0.069
18/06/13	0.861	<0.278	<0.111	0.019	<0.011	<0.042	<0.028	1.417	0.075	<0.069	<0.069	2.153	0.794	0.318	0.218	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	0.569	0.005	0.681	<0.111	0.042	<0.042	0.382	<0.069
21/06/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.319	0.068	<0.069	<0.069	0.372	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	0.431	<0.004	<0.278	<0.111	<0.028	<0.042	0.058	<0.069
24/06/13	<0.278	<0.278	<0.111	0.018	<0.011	<0.042	<0.028	<0.278	0.103	<0.069	<0.069	0.450	<0.111	<0.042	0.018	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	0.444	<0.004	<0.278	<0.111	<0.028	<0.042	0.032	<0.069
19/07/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.128	<0.069	<0.069	0.419	<0.111	<0.042	0.017	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.032	<0.069
20/07/13	<0.278	<0.278	<0.111	0.005	<0.011	<0.042	<0.028	0.444	0.100	<0.069	<0.069	1.367	<0.111	0.096	0.175	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.096	<0.069
21/07/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.106	<0.069	<0.069	0.322	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
22/07/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.119	<0.069	<0.069	0.493	<0.111	<0.042	0.032	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.051	<0.069
22/08/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.078	<0.069	<0.069	0.383	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.029	<0.069
23/08/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.053	<0.069	<0.069	0.194	<0.111	0.054	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
24/08/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.088	<0.069	<0.069	0.388	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
25/08/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.046	<0.069	<0.069	0.208	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
24/09/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.096	<0.069	<0.069	0.319	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
27/09/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.086	<0.069	<0.069	0.435	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
28/09/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.083	<0.069	<0.069	0.351	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
29/09/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.088	<0.069	<0.069	0.672	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
25/10/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.096	<0.069	<0.069	0.360	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
26/10/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.115	<0.069	<0.069	0.269	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
27/10/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.103	<0.069	<0.069	0.331	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³ *	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³ *	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m3	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
28/10/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.097	<0.069	<0.069	0.308	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
28/11/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.086	<0.069	<0.069	0.308	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.042	<0.069
29/11/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.104	<0.069	<0.069	0.358	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
30/11/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.083	<0.069	<0.069	0.361	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
01/12/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.085	<0.069	<0.069	0.417	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
03/01/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.099	<0.069	<0.069	0.378	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.750	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
04/01/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.076	<0.069	<0.069	0.335	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.500	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
05/01/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.089	<0.069	<0.069	0.322	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	3.875	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
06/01/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.079	<0.069	<0.069	0.342	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	2.736	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
01/02/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.075	<0.069	<0.069	0.312	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
02/02/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.115	<0.069	<0.069	0.294	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.032	<0.069
03/02/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.075	<0.069	<0.069	0.308	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
04/02/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.107	<0.069	<0.069	0.368	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.031	<0.069
05/03/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.09	<0.069	<0.069	0.193	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.057	<0.069
06/03/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.079	<0.069	<0.069	0.218	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.04	<0.069
07/03/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.099	<0.069	<0.069	0.319	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
25/03/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.089	<0.069	<0.069	0.231	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
12/04/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.081	<0.069	<0.069	0.253	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
13/04/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.053	<0.069	<0.069	0.232	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
14/04/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.071	<0.069	<0.069	0.276	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.167	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/04/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.089	<0.069	<0.069	0.21	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.792	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
11/05/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.086	<0.069	<0.069	0.472	<0.111	0.047	0.02	<0.069	<0.069	<0.417	<1.389	<0.069	3.583	<0.042	<0.417	<0.004	0.333	<0.111	<0.028	<0.042	0.039	<0.069
12/05/14	0.861	<0.278	<0.111	0.012	<0.011	0.05	<0.028	1.847	0.074	<0.069	<0.069	0.478	<0.111	0.078	0.012	<0.069	<0.069	<0.417	<1.389	<0.069	2.694	<0.042	<0.417	0.016	<0.278	<0.111	<0.028	<0.042	0.039	<0.069
13/05/14	0.667	<0.278	<0.111	0.009	<0.011	<0.042	<0.028	1.403	0.086	<0.069	<0.069	0.411	<0.111	0.068	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.583	<0.042	<0.417	0.012	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
29/05/14	<0.278	<0.278	<0.111	0.006	<0.011	<0.042	<0.028	1.319	0.096	<0.069	<0.069	0.556	<0.111	0.429	0.012	<0.069	<0.069	<0.417	<1.389	<0.069	3.764	<0.042	0.431	<0.004	0.306	<0.111	<0.028	<0.042	0.074	<0.069
26/06/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.094	<0.069	<0.069	0.338	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.431	0.431	<0.417	<0.004	0.306	<0.111	<0.028	<0.042	<0.028	<0.069
27/06/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.074	<0.069	<0.069	0.344	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	0.306	<0.111	<0.028	<0.042	<0.028	<0.069
29/06/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.086	<0.069	<0.069	0.413	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.708	0.708	<0.417	<0.004	0.306	<0.111	<0.028	<0.042	<0.028	<0.069
30/06/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.072	<0.069	<0.069	0.328	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	0.306	<0.111	<0.028	<0.042	<0.028	<0.069
08/07/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.139	<0.069	<0.069	0.397	<0.111	<0.042	0.017	<0.069	<0.069	<0.417	<1.389	<0.069	0.458	0.458	<0.417	<0.004	0.306	<0.111	<0.028	<0.042	<0.028	<0.069
27/07/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.076	<0.069	<0.069	0.351	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	0.306	<0.111	<0.028	<0.042	<0.028	<0.069
28/07/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.114	<0.069	<0.069	0.308	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	0.306	<0.111	<0.028	<0.042	<0.028	<0.069
29/07/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.081	<0.069	<0.069	0.368	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	0.306	<0.111	<0.028	<0.042	0.029	<0.069
22/08/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.079	<0.069	<0.069	0.333	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
23/08/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.118	<0.069	<0.069	0.365	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
24/08/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.067	<0.069	<0.069	0.204	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
25/08/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.087	<0.069	<0.069	0.293	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³ *	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³ *	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m3	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
20/09/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.111	<0.069	<0.069	0.319	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.444	<0.042	0.583	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
23/09/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.090	<0.069	<0.069	0.347	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.431	<0.042	0.542	<0.004	0.306	<0.111	<0.028	<0.042	<0.028	<0.069
24/09/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.082	<0.069	<0.069	0.308	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	0.514	<0.004	0.542	<0.111	<0.028	<0.042	<0.028	<0.069
27/09/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.100	<0.069	<0.069	0.369	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	0.528	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/10/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.071	<0.069	<0.069	0.211	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.958	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
16/10/14	0.306	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.075	<0.069	<0.069	0.307	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
23/10/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.086	<0.069	<0.069	0.292	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
24/10/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.104	<0.069	<0.069	0.338	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
19/11/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.126	<0.069	<0.069	0.410	<0.111	<0.042	0.020	<0.069	<0.069	<0.417	<1.389	<0.069	0.764	<0.042	0.889	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
20/11/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.108	<0.069	<0.069	0.386	<0.111	<0.042	0.014	<0.069	<0.069	<0.417	<1.389	<0.069	0.931	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
24/11/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.100	<0.069	<0.069	0.424	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.833	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
25/11/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.086	<0.069	<0.069	0.344	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.333	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
12/12/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.099	<0.069	<0.069	0.246	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.125	<0.042	1.458	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
13/12/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.135	<0.069	<0.069	0.338	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.028	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/12/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.069	<0.069	<0.069	0.321	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	0.193	<0.028	<0.042	<0.028	<0.069
17/12/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.076	<0.069	<0.069	0.457	<0.111	<0.042	0.031	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
10/01/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.121	<0.069	<0.069	0.389	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.472	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
11/01/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.096	<0.069	<0.069	0.360	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
13/01/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.079	<0.069	<0.069	0.411	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/01/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.054	<0.069	<0.069	0.054	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.458	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
13/02/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.062	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/02/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.054	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
16/02/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.103	<0.069	<0.069	0.343	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
18/02/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.057	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
06/03/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.06	<0.069	<0.069	0.047	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.847	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
07/03/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.064	<0.069	<0.069	0.128	<0.111	0.043	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
16/03/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.062	<0.069	<0.069	0.051	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.542	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
17/03/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.069	<0.069	<0.069	0.043	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
02/04/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.074	<0.069	<0.069	0.344	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
03/04/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.101	<0.069	<0.069	0.464	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
04/04/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.075	<0.069	<0.069	0.31	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
05/04/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.064	<0.069	<0.069	0.05	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
25/05/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.292	0.05	<0.069	<0.069	0.326	<0.111	0.075	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	0.389	<0.111	<0.028	<0.042	<0.028	<0.069
26/05/15	<0.278	<0.278	<0.111	0.004	<0.011	<0.042	<0.028	0.292	0.067	<0.069	<0.069	0.314	<0.111	0.071	0.023	<0.069	<0.069	<0.417	<1.389	<0.069	0.458	<0.042	<0.417	<0.004	0.431	<0.111	<0.028	<0.042	0.029	<0.069
27/05/15	0.444	<0.278	<0.111	0.005	<0.011	<0.042	<0.028	1.139	<0.042	<0.069	<0.069	0.24	<0.111	0.122	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.023	0.333	<0.111	<0.028	<0.042	<0.028	<0.069
28/05/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.431	0.06	<0.069	<0.069	0.431	<0.111	0.089	0.023	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.005	0.292	<0.111	<0.028	<0.042	<0.028	<0.069
16/06/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.057	<0.069	<0.069	0.2	<0.111	0.064	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³ *	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³ *	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m3	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
17/06/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.053	<0.069	<0.069	0.213	<0.111	0.064	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.681	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
18/06/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.053	<0.069	<0.069	0.221	<0.111	0.057	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.931	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
08/07/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.047	<0.069	<0.069	<0.042	<0.111	0.051	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	2.444	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
11/07/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.049	<0.069	<0.069	0.09	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.049	<0.069
20/07/15	<0.278	<0.278	<0.111	0.004	<0.011	<0.042	<0.028	<0.278	<0.042	<0.069	<0.069	0.113	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
13/08/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.046	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
14/08/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.061	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/08/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.05	<0.069	<0.069	0.21	<0.111	0.049	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
16/08/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.053	<0.069	<0.069	0.239	<0.111	0.06	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
17/09/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	<0.042	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
20/10/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.092	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
21/10/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.072	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.042	<0.069
13/11/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.078	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/11/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.068	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.035	<0.069
16/11/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.054	<0.069	<0.069	<0.042	<0.111	<0.042	0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
17/11/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.064	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
18/11/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.067	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
16/12/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.078	<0.069	<0.069	0.047	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
17/12/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.082	<0.069	<0.069	0.046	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
18/12/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.074	<0.069	<0.069	0.044	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
19/12/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.053	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
05/01/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.062	<0.069	<0.069	0.079	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
06/01/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.065	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
08/01/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.064	<0.069	<0.069	0.093	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.035	<0.069
09/01/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.057	<0.069	<0.069	0.210	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
10/01/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.069	<0.069	<0.069	0.067	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
26/02/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.069	<0.069	<0.069	0.056	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
27/02/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.060	<0.069	<0.069	0.053	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
28/02/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.060	<0.069	<0.069	0.071	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
12/03/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	<0.042	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
14/03/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.053	<0.069	<0.069	0.051	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/03/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.068	<0.069	<0.069	0.083	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
19/04/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	<0.042	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
23/04/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.542	0.110	<0.069	<0.069	0.079	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.008	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
24/04/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.101	<0.069	<0.069	0.061	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.005	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
23/05/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.107	<0.069	<0.069	0.047	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.006	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
25/05/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.101	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	0.931	0.011	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³ *	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³ *	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m3	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
13/06/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.096	<0.069	<0.069	0.072	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.006	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
17/06/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.068	<0.069	<0.069	0.176	<0.111	<0.042	0.026	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
19/06/16	0.306	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.694	0.065	<0.069	<0.069	0.224	<0.111	0.082	0.013	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.006	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
28/07/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.126	<0.069	<0.069	0.072	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.009	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
29/07/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.117	<0.069	<0.069	0.069	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.005	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
30/07/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.110	<0.069	<0.069	0.050	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.005	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
09/08/16	0.036	<0.001	<0.001	0.001	<0.001	<0.042	0.000	0.542	0.125	<0.001	0.006	0.078	0.003	0.043	0.007	0.000	0.002	<0.111	<0.069	<0.001	<0.278	0.000	<0.139	0.002	-	<0.001	<0.028	<0.028	0.008	<0.006
10/08/16	0.029	<0.001	<0.001	0.001	<0.001	<0.042	0.000	0.444	0.109	<0.001	0.001	<0.042	0.001	<0.042	0.002	0.000	0.001	<0.111	<0.069	<0.001	<0.278	0.000	<0.139	0.004	-	<0.001	<0.028	<0.028	<0.006	<0.006
11/08/16	0.047	<0.001	<0.001	0.001	<0.001	<0.042	0.000	0.528	0.133	<0.001	0.001	0.047	0.001	0.042	0.001	0.000	0.001	<0.111	<0.069	<0.001	<0.278	0.000	0.250	0.005	-	<0.001	<0.028	<0.028	<0.006	<0.006
28/09/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.389	0.076	<0.069	<0.069	0.056	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.012	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
29/09/16	0.653	<0.278	<0.111	0.006	<0.011	0.042	<0.028	1.681	0.100	<0.069	<0.069	0.086	<0.111	0.126	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.041	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
30/09/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.068	<0.069	<0.069	0.051	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
05/10/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.087	<0.069	<0.069	0.147	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.005	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
07/10/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.094	<0.069	<0.069	0.301	<0.111	0.064	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.009	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
10/10/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.107	<0.069	<0.069	0.214	<0.111	0.046	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.016	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
26/11/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.085	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
27/11/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.089	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.006	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
28/11/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.074	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
27/12/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.097	<0.069	<0.069	0.062	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.013	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
29/12/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.110	<0.069	<0.069	0.053	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.005	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
30/12/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.126	<0.069	<0.069	0.058	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.006	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069

** Criteria effective on July 1, 2016*

Table A-4 24-Hour Average Metal Concentrations, TSP-2, August 2012 – December 2016

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³ *	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³ *	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m3	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
Ontario AAQC (24-hr avg)		**25**	**0.3**	**10**	**0.01**	**120**	**0.025**		**0.5**	**0.1**	**50**	**4**	**0.5**		**0.4**	**120**	**0.2**			**10**		**1**		**120**		**10**	**120**	**2**	**120**	
23/08/12	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	<0.042	<0.069	<0.069	0.439	0.736	0.047	0.033	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	0.736	<0.111	<0.028	<0.042	0.108	<0.069
27/09/12	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.375	<0.042	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.039	<0.069
15/12/12	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	<0.042	<0.069	<0.069	0.533	0.181	0.076	0.066	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.122	<0.069
16/01/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	<0.042	<0.069	<0.069	0.143	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
23/03/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.375	<0.042	<0.069	<0.069	1.431	0.321	0.089	0.407	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	0.389	<0.111	<0.028	<0.042	0.244	<0.069
24/03/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.486	<0.042	<0.069	<0.069	1.174	0.361	0.124	0.651	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	0.389	<0.111	<0.028	<0.042	0.278	<0.069
25/03/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.417	0.056	<0.069	<0.069	1.163	0.367	0.108	0.390	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	0.403	<0.111	<0.028	<0.042	0.264	<0.069
26/03/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.375	0.046	<0.069	<0.069	0.921	0.153	0.117	0.290	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	0.319	<0.111	<0.028	<0.042	0.142	<0.069
07/04/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.486	<0.042	<0.069	<0.069	1.161	0.417	0.119	0.471	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	0.333	<0.111	<0.028	<0.042	0.294	<0.069
10/04/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.043	<0.069	<0.069	0.439	<0.111	0.081	0.049	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.069	<0.069
13/04/13	0.306	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.044	<0.069	<0.069	0.199	<0.111	0.081	0.017	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	0.375	<0.111	<0.028	<0.042	<0.028	<0.069
15/04/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.047	<0.069	<0.069	0.268	<0.111	0.079	0.025	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	0.333	<0.111	<0.028	<0.042	<0.028	<0.069
16/04/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.043	<0.069	<0.069	0.165	<0.111	0.065	0.013	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	0.319	<0.111	<0.028	<0.042	<0.028	<0.069
17/06/13	0.361	<0.278	<0.111	0.009	<0.011	<0.042	<0.028	0.708	<0.042	<0.069	<0.069	0.232	<0.111	0.053	0.016	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
18/06/13	1.583	<0.278	<0.111	0.005	<0.011	0.071	<0.028	2.569	0.122	<0.069	<0.069	0.825	0.133	0.094	0.078	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	0.542	0.005	<0.278	<0.111	<0.028	<0.042	0.096	<0.069
21/06/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.089	<0.069	<0.069	0.432	<0.111	<0.042	0.014	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	0.472	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
23/06/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.361	0.054	<0.069	<0.069	0.282	<0.111	0.072	0.017	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.031	<0.069
28/06/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.500	0.054	<0.069	<0.069	0.414	<0.111	0.082	0.046	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	0.319	<0.111	<0.028	<0.042	0.071	<0.069
19/07/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.117	<0.069	<0.069	0.526	<0.111	<0.042	0.027	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.039	<0.069
20/07/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.065	<0.069	<0.069	0.381	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
21/07/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.096	<0.069	<0.069	0.500	<0.111	<0.042	0.052	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.029	<0.069
22/07/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.292	0.094	<0.069	<0.069	1.122	<0.111	0.071	0.134	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.092	<0.069
22/08/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.094	<0.069	<0.069	0.314	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
25/08/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.050	<0.069	<0.069	0.185	<0.111	0.047	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
26/08/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.074	<0.069	<0.069	0.496	<0.111	<0.042	0.012	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.046	<0.069
28/08/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.071	<0.069	<0.069	0.496	<0.111	<0.042	0.046	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.122	<0.069
31/08/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.057	<0.069	<0.069	0.200	<0.111	0.047	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
21/09/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.097	<0.069	<0.069	0.347	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
24/09/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.114	<0.069	<0.069	0.424	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
27/09/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.126	<0.069	<0.069	0.479	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
28/09/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	0.036	<0.278	0.086	<0.069	<0.069	0.338	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.047	<0.069
30/09/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.069	<0.069	<0.069	0.450	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³ *	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³ *	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m3	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
24/10/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.076	<0.069	<0.069	0.326	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
25/10/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.096	<0.069	<0.069	0.303	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
26/10/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.667	0.124	<0.069	<0.069	0.311	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
27/10/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.075	<0.069	<0.069	0.268	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
28/11/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.083	<0.069	<0.069	0.538	<0.111	<0.042	0.042	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.042	<0.069
29/11/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.069	<0.069	<0.069	0.361	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
30/11/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.079	<0.069	<0.069	0.372	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
01/12/13	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.096	<0.069	<0.069	0.363	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
03/01/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.079	<0.069	<0.069	0.314	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.458	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
04/01/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.108	<0.069	<0.069	0.611	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.833	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
05/01/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.09	<0.069	<0.069	0.361	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.542	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.054	<0.069
06/01/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.069	<0.069	<0.069	0.371	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.861	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.038	<0.069
01/02/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.082	<0.069	<0.069	0.281	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
02/02/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.101	<0.069	<0.069	0.381	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
03/02/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.121	<0.069	<0.069	0.321	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
04/02/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.079	<0.069	<0.069	0.39	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
05/03/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.106	<0.069	<0.069	0.325	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.029	<0.069
06/03/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.09	<0.069	<0.069	0.351	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.049	<0.069
07/03/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.082	<0.069	<0.069	0.276	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
25/03/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.083	<0.069	<0.069	0.267	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.597	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.031	<0.069
12/04/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.086	<0.069	<0.069	0.239	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	0.306	<0.111	<0.028	<0.042	<0.028	<0.069
13/04/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.114	<0.069	<0.069	0.301	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.625	<0.042	<0.417	<0.004	0.375	<0.111	<0.028	<0.042	<0.028	<0.069
14/04/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.086	<0.069	<0.069	0.315	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	2.236	<0.042	<0.417	<0.004	0.347	<0.111	<0.028	<0.042	0.032	<0.069
15/04/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.075	<0.069	<0.069	0.186	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.944	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.031	<0.069
11/05/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.139	0.081	<0.069	<0.069	0.376	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	5.028	<0.042	<0.417	<0.004	0.319	<0.111	<0.028	<0.042	<0.028	<0.069
12/05/14	1.625	<0.278	<0.111	<0.004	<0.011	0.099	<0.028	3.472	0.089	<0.069	<0.069	0.506	<0.111	0.113	0.013	<0.069	<0.069	<0.417	<1.389	<0.069	1.736	<0.042	0.417	0.032	0.292	<0.111	<0.028	<0.042	0.04	<0.069
13/05/14	<0.278	<0.278	<0.111	0.005	<0.011	<0.042	<0.028	0.569	0.09	<0.069	<0.069	0.426	<0.111	0.056	0.014	<0.069	<0.069	<0.417	<1.389	<0.069	3.750	<0.042	<0.417	0.005	<0.278	<0.111	<0.028	<0.042	0.029	<0.069
29/05/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.139	0.071	<0.069	<0.069	0.489	<0.111	<0.042	0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
27/06/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.079	<0.069	<0.069	0.408	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.736	0.736	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
28/06/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.104	<0.069	<0.069	0.389	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.736	0.736	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
29/06/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.078	<0.069	<0.069	0.326	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
30/06/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.119	<0.069	<0.069	0.365	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
08/07/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.114	<0.069	<0.069	0.378	<0.111	<0.042	0.013	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
27/07/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.086	<0.069	<0.069	0.34	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
28/07/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.096	<0.069	<0.069	0.354	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
29/07/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.028	0.126	<0.069	<0.069	0.431	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³ *	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³ *	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m3	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
22/08/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.132	<0.069	<0.069	0.317	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.028	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
23/08/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.071	<0.069	<0.069	0.331	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	2.722	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
24/08/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.107	<0.069	<0.069	0.335	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
26/08/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.093	<0.069	<0.069	0.315	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
20/09/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.101	<0.069	<0.069	0.350	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	0.472	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
23/09/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.079	<0.069	<0.069	0.358	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	0.458	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
24/09/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.106	<0.069	<0.069	0.338	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.486	<0.042	<0.417	<0.004	0.569	<0.111	<0.028	<0.042	<0.028	<0.069
27/09/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.100	<0.069	<0.069	0.354	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	0.458	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/10/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.069	<0.069	<0.069	0.242	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	2.167	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
16/10/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.087	<0.069	<0.069	0.239	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
23/10/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.090	<0.069	<0.069	0.386	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
24/10/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.054	<0.069	<0.069	0.161	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
22/11/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.132	<0.069	<0.069	0.353	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.611	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
23/11/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.115	<0.069	<0.069	0.339	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.833	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
25/11/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.104	<0.069	<0.069	0.258	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.458	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
12/12/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.094	<0.069	<0.069	0.362	<0.111	<0.042	0.017	<0.069	<0.069	<0.417	<1.389	<0.069	1.167	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
13/12/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.114	<0.069	<0.069	0.414	<0.111	<0.042	0.043	<0.069	<0.069	<0.417	<1.389	<0.069	1.361	<0.042	0.917	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
14/12/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.096	<0.069	<0.069	0.378	<0.111	<0.042	0.021	<0.069	<0.069	<0.417	<1.389	<0.069	0.833	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/12/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.126	<0.069	<0.069	0.381	<0.111	<0.042	0.020	<0.069	<0.069	<0.417	<1.389	<0.069	0.931	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
10/01/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.110	<0.069	<0.069	0.342	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.444	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
11/01/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.082	<0.069	<0.069	0.281	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
13/01/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.061	<0.069	<0.069	0.263	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.042	<0.069
15/01/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.061	<0.069	<0.069	0.333	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.028	<0.069
12/02/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.065	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.75	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
13/02/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.057	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/02/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.058	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
16/02/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.075	<0.069	<0.069	0.304	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
06/03/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.062	<0.069	<0.069	0.047	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.014	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
07/03/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.069	<0.069	<0.069	0.138	<0.111	0.046	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
16/03/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.054	<0.069	<0.069	0.075	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
17/03/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.06	<0.069	<0.069	0.05	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
02/04/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.096	<0.069	<0.069	0.357	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
03/04/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.104	<0.069	<0.069	0.281	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
04/04/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.083	<0.069	<0.069	0.306	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
05/04/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.049	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
25/05/15	<0.278	<0.278	<0.111	0.048	<0.011	<0.042	<0.028	0.611	0.056	<0.069	<0.069	1.015	<0.111	0.167	0.117	<0.069	<0.069	<0.417	<1.389	<0.069	0.444	<0.042	<0.417	<0.004	0.556	<0.111	<0.028	<0.042	0.069	<0.069

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³ *	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³ *	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m3	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
26/05/15	<0.278	<0.278	<0.111	<0.011	<0.011	<0.042	<0.028	0.625	0.05	<0.069	<0.069	0.96	<0.111	0.186	0.101	<0.069	<0.069	<0.417	<1.389	<0.069	0.556	<0.042	<0.417	<0.004	0.431	<0.111	<0.028	<0.042	0.064	<0.069
27/05/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.043	<0.069	<0.069	0.353	<0.111	0.065	0.018	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	0.389	<0.111	<0.028	<0.042	<0.028	<0.069
28/05/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.043	<0.069	<0.069	0.347	<0.111	0.075	0.023	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
16/06/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.071	<0.069	<0.069	0.238	<0.111	0.061	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
17/06/15	<0.278	<0.278	<0.111	0.008	<0.011	<0.042	<0.028	<0.278	0.061	<0.069	<0.069	0.179	<0.111	0.064	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.5	<0.042	<0.417	<0.004	0.292	<0.111	<0.028	<0.042	<0.028	<0.069
18/06/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.06	<0.069	<0.069	0.197	<0.111	0.056	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
01/07/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.054	<0.069	<0.069	0.071	<0.111	0.044	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
08/07/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.064	<0.069	<0.069	0.346	<0.111	0.056	0.066	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
11/07/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	<0.042	<0.069	<0.069	0.161	<0.111	0.062	0.02	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.042	<0.069
20/07/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	<0.042	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	1.111	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
13/08/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.051	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
14/08/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	<0.042	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/08/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	<0.042	<0.069	<0.069	0.081	<0.111	0.043	0.015	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
16/08/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.054	<0.069	<0.069	0.147	<0.111	0.047	0.016	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
17/09/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.051	<0.069	<0.069	0.115	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
20/10/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.097	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
21/10/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	0.04	<0.278	0.099	<0.069	<0.069	0.111	<0.111	0.054	<0.028	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.033	<0.069
13/11/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	<0.042	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/11/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.056	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
16/11/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.074	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
17/11/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	<0.042	<0.069	<0.069	0.087	<0.111	0.053	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
18/11/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.065	<0.069	<0.069	0.069	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.072	<0.069
12/03/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.078	<0.069	<0.069	0.172	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.135	<0.069
14/03/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.065	<0.069	<0.069	0.103	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/03/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.065	<0.069	<0.069	0.068	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.029	<0.069
19/04/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.051	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
23/04/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.528	0.092	<0.069	<0.069	0.079	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.008	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
24/04/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.099	<0.069	<0.069	0.075	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.006	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
23/05/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.075	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.005	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
25/05/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.111	<0.069	<0.069	0.049	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.005	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
13/06/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.104	<0.069	<0.069	0.082	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.005	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
17/06/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.076	<0.069	<0.069	0.142	<0.111	0.042	0.026	<0.069	<0.069	<0.417	<1.389	<0.069	0.778	<0.042	<0.417	0.007	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
19/06/16	0.472	<0.278	<0.111	0.006	<0.011	<0.042	<0.028	1.292	0.081	<0.069	<0.069	0.543	0.157	0.193	0.204	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.010	0.306	<0.111	<0.028	<0.042	0.111	<0.069
28/07/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.078	<0.069	<0.069	0.103	<0.111	<0.042	0.014	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
29/07/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.119	<0.069	<0.069	0.074	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.006	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
30/07/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.113	<0.069	<0.069	0.074	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.007	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³ *	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³ *	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m3	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
09/08/16	0.031	<0.001	<0.001	0.001	<0.001	<0.042	0.000	0.500	0.131	<0.001	0.002	<0.042	0.002	<0.042	0.004	0.000	0.001	<0.111	<0.069	<0.001	<0.278	0.000	<0.139	0.003	-	<0.001	<0.028	<0.028	<0.006	<0.006
10/08/16	0.014	<0.001	<0.001	0.001	<0.001	<0.042	0.000	0.444	0.122	<0.001	0.001	<0.042	0.001	<0.042	0.001	0.000	0.001	<0.111	<0.069	<0.001	<0.278	0.000	<0.139	0.002	-	<0.001	<0.028	<0.028	<0.006	<0.006
11/08/16	0.032	<0.001	0.001	0.001	<0.001	<0.042	0.000	0.528	0.117	<0.001	0.002	0.078	0.003	<0.042	0.002	0.000	0.001	<0.111	<0.069	<0.001	<0.278	0.000	<0.139	0.009	-	<0.001	<0.028	<0.028	<0.006	<0.006
28/09/16	<0.278	<0.278	<0.111	0.006	<0.011	<0.042	<0.028	<0.278	0.099	<0.069	<0.069	0.108	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.007	<0.278	<0.111	<0.028	<0.042	0.029	<0.069
29/09/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.093	<0.069	<0.069	0.114	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.005	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
30/09/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.333	0.099	<0.069	<0.069	0.097	<0.111	0.051	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.005	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
05/10/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.099	<0.069	<0.069	0.386	<0.111	0.065	0.058	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.040	<0.069
27/10/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.114	<0.069	<0.069	0.044	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
26/11/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.486	0.128	<0.069	<0.069	0.061	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
27/11/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.278	0.090	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.005	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
28/11/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.072	<0.069	<0.069	0.050	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
27/12/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.093	<0.069	<0.069	0.047	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
29/12/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.108	<0.069	<0.069	0.062	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.006	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
30/12/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.096	<0.069	<0.069	0.082	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.005	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069

** Criteria effective on July 1, 2016*

Table A-5 24-Hour Average Metal Concentrations, TSP-3, December 2014 – December 2016

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³ *	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³ *	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m3	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
Ontario AAQC (24-hr avg)		**25**	**0.3**	**10**	**0.01**	**120**	**0.025**		**0.5**	**0.1**	**50**	**4**	**0.5**		**0.4**	**120**	**0.2**				**10**		**1**		**120**		**10**	**120**	**2**	**120**	
12/12/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.306	0.096	<0.069	<0.069	0.367	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	0.694	<0.069	1.472	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
13/12/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.319	0.097	<0.069	<0.069	0.315	<0.111	<0.042	0.021	<0.069	<0.069	<0.417	0.694	<0.069	1.097	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
14/12/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.103	<0.069	<0.069	0.272	<0.111	<0.042	0.014	<0.069	<0.069	<0.417	<1.389	<0.069	0.611	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/12/14	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.099	<0.069	<0.069	0.339	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	1.569	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
12/01/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.081	<0.069	<0.069	0.351	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/01/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.053	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
16/01/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.076	<0.069	<0.069	0.065	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.569	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
18/01/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.061	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
12/02/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.06	<0.069	<0.069	0.043	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/02/15	<0.278	<0.278	<0.111	<0.004	<0.011	0.064	<0.028	0.431	0.09	<0.069	<0.069	0.325	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.542	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
16/02/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.306	0.068	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
18/02/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.292	0.131	<0.069	<0.069	0.046	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.972	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
06/03/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.057	<0.069	<0.069	0.054	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
07/03/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.057	<0.069	<0.069	0.147	<0.111	0.05	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
16/03/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.054	<0.069	<0.069	0.054	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.472	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
17/03/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.056	<0.069	<0.069	0.062	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.833	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
02/04/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.097	<0.069	<0.069	0.317	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
03/04/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.101	<0.069	<0.069	0.289	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
04/04/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.094	<0.069	<0.069	0.332	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
05/04/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.118	<0.069	<0.069	0.433	<0.111	<0.042	0.024	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
21/05/15	2.583	<0.278	<0.111	<0.042	<0.011	0.218	<0.028	6.417	<0.042	<0.069	<0.069	0.247	<0.111	0.51	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.151	<0.278	<0.111	<0.028	<0.042	0.051	<0.069
22/05/15	2.097	<0.278	<0.111	0.018	<0.011	0.165	<0.028	5.083	<0.042	<0.069	<0.069	0.238	<0.111	0.421	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.12	<0.278	<0.111	<0.028	<0.042	0.04	<0.069
23/05/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.05	<0.069	<0.069	0.274	<0.111	0.071	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	0.306	<0.111	<0.028	<0.042	<0.028	<0.069
24/05/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.417	0.05	<0.069	<0.069	0.332	<0.111	0.106	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	0.431	<0.111	<0.028	<0.042	<0.028	<0.069
16/06/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.047	<0.069	<0.069	0.214	<0.111	0.075	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
17/06/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.333	0.049	<0.069	<0.069	0.228	<0.111	0.082	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	0.333	<0.111	<0.028	<0.042	<0.028	<0.069
18/06/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.306	0.057	<0.069	<0.069	0.157	<0.111	0.049	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
01/07/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.06	<0.069	<0.069	0.128	<0.111	0.057	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	0.306	<0.111	<0.028	<0.042	<0.028	<0.069
08/07/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.053	<0.069	<0.069	0.082	<0.111	0.05	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
11/07/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	<0.042	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
20/07/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.042	<0.069	<0.069	0.254	<0.111	0.071	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
14/08/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.051	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.472	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³ *	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³ *	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m3	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
15/08/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.043	<0.069	<0.069	0.119	<0.111	0.047	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
16/08/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.042	<0.069	<0.069	0.311	<0.111	0.06	0.07	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
20/10/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.054	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
21/10/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.078	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
13/11/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.074	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/11/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.056	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
16/11/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.051	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
16/12/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.05	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
17/12/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.064	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
18/12/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.047	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
19/12/15	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.292	0.081	<0.069	<0.069	0.344	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
05/01/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.064	<0.069	<0.069	0.067	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.040	<0.069
06/01/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.072	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
07/01/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.074	<0.069	<0.069	0.051	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
09/01/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.375	0.069	<0.069	<0.069	0.136	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.031	<0.069
10/01/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.583	0.046	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	-	<0.042	<0.417	0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
26/02/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.085	<0.069	<0.069	0.064	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
27/02/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.061	<0.069	<0.069	0.053	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
28/02/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.078	<0.069	<0.069	0.051	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
12/03/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.069	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
14/03/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.068	<0.069	<0.069	0.065	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
15/03/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.074	<0.069	<0.069	0.065	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
19/04/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.079	<0.069	<0.069	0.101	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
23/04/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.086	<0.069	<0.069	0.081	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.007	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
24/04/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.078	<0.069	<0.069	0.056	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	0.986	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
23/05/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.081	<0.069	<0.069	0.049	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
25/05/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.071	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
13/06/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.079	<0.069	<0.069	0.060	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
17/06/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.078	<0.069	<0.069	0.046	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
19/06/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	0.528	0.087	<0.069	<0.069	0.165	<0.111	0.069	0.012	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
28/07/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.097	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.005	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
29/07/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.074	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.007	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
30/07/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.104	<0.069	<0.069	0.043	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.006	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
09/08/16	0.082	<0.001	<0.001	0.002	<0.001	<0.042	0.000	0.542	0.102	<0.001	0.003	0.201	0.005	0.046	0.007	0.000	0.003	<0.111	0.193	<0.001	<0.278	0.000	0.319	0.003	-	<0.001	<0.028	<0.028	0.009	<0.006
10/08/16	0.014	<0.001	<0.001	0.001	<0.001	<0.042	0.000	0.514	0.093	<0.001	0.001	<0.042	0.001	<0.042	0.005	0.001	0.001	<0.111	<0.069	<0.001	<0.278	0.000	<0.139	0.003	-	<0.001	<0.028	<0.028	<0.006	<0.006
11/08/16	0.014	<0.001	0.001	0.001	<0.001	<0.042	0.000	0.556	0.121	<0.001	0.026	<0.042	0.001	0.046	0.001	0.000	0.002	<0.111	<0.069	<0.001	<0.278	0.000	<0.139	0.002	-	<0.001	<0.028	<0.028	0.015	<0.006

Sample Date	Aluminum (Al), total µg/m³	Antimony (Sb), total µg/m³	Arsenic (As), total µg/m³	Barium (Ba), total µg/m³	Beryllium (Be), total µg/m³	Boron (B), total µg/m³	Cadmium (Cd), total µg/m³	Calcium (Ca), total µg/m³	Chromium (Cr), total µg/m³ *	Cobalt (Co), total µg/m³	Copper (Cu), total µg/m³	Iron (Fe), total µg/m³	Lead (Pb), total µg/m³	Magnesium (Mg), total µg/m³	Manganese (Mn), total µg/m³ *	Molybdenum (Mo), total µg/m³	Nickel (Ni), total µg/m³	Phosphorus (P), total µg/m³	Potassium (K), total µg/m³	Selenium (Se), total µg/m³	Silicon (Si), total µg/m3	Silver (Ag), total µg/m³	Sodium (Na), total µg/m³	Strontium (Sr), total µg/m³	Sulphur (S), total µg/m³	Tin (Sn), total µg/m³	Titanium (Ti), total µg/m³	Vanadium (V), total µg/m³	Zinc (Zn), total µg/m³	Zirconium (Zr), total µg/m³
28/09/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.078	<0.069	<0.069	<0.042	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
29/09/16	1.833	<0.278	<0.111	0.015	<0.011	0.124	<0.028	4.333	0.086	<0.069	<0.069	0.071	<0.111	0.353	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.116	<0.278	<0.111	<0.028	<0.042	0.039	<0.069
30/09/16	2.778	<0.278	<0.111	0.024	<0.011	0.189	<0.028	6.181	0.096	<0.069	<0.069	0.249	<0.111	0.553	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.175	<0.278	<0.111	<0.028	<0.042	0.054	<0.069
05/10/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.111	<0.069	<0.069	0.272	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.005	<0.278	<0.111	<0.028	<0.042	0.040	<0.069
07/10/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.108	<0.069	<0.069	0.167	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.007	<0.278	<0.111	<0.028	<0.042	0.031	<0.069
10/10/16	<0.278	<0.278	<0.111	0.006	<0.011	<0.042	<0.028	0.319	0.107	<0.069	<0.069	0.514	<0.111	0.115	0.026	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	0.144	<0.069
26/11/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.117	<0.069	<0.069	0.044	<0.111	<0.042	0.024	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
27/11/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.087	<0.069	<0.069	0.051	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.006	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
28/11/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.078	<0.069	<0.069	0.104	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.010	<0.278	<0.111	<0.028	<0.042	0.050	<0.069
27/12/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.093	<0.069	<0.069	0.071	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	<0.004	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
29/12/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.111	<0.069	<0.069	0.068	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.005	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069
30/12/16	<0.278	<0.278	<0.111	<0.004	<0.011	<0.042	<0.028	<0.278	0.118	<0.069	<0.069	0.089	<0.111	<0.042	<0.011	<0.069	<0.069	<0.417	<1.389	<0.069	<0.417	<0.042	<0.417	0.005	<0.278	<0.111	<0.028	<0.042	<0.028	<0.069

** Criteria effective on July 1, 2016*

APPENDIX B

STATISTICAL TESTS RESULTS

	Non-paramteric	Pairwise comparisons (Wilcoxon test) p-values**		
Parameter	**Kruskal-Wallis p-value***	**TSP-1/TSP-2**	**TSP-1/TSP-3**	**TSP-2/TSP-3**
TSP	0.2705	-	-	-
PM_{10}	0.7747	-	-	-
$PM_{2.5}$	0.7054	-	-	-
Al	0.3207	-	-	-
As	0.5948	-	-	-
Ba	0.6325	-	-	-
B	0.1538	-	-	-
Cd	0.3977	-	-	-
Ca	0.2204	-	-	-
Cr	0.3819	-	-	-
Cu	0.6072	-	-	-
Fe	2.92E-09	0.1187	0.00543	6.20E-05
Pb	0.06835	-	-	-
Mg	0.8646	-	-	-
Mn	0.003412	0.1686	0.4963	0.04666
Mo	0.6058	-	-	-
Ni	0.6105	-	-	-
K	0.6058	-	-	-
Si	0.03674	0.5401	0.3193	0.06621
Na	0.01771	0.8283	0.2352	0.7685
Sr	0.1358	-	-	-
S	0.1316	-	-	-
Sn	0.3764	-	-	-
Ti	0.4942	-	-	-
Zn	0.06725	-	-	-

** Compared to α=0.05*
*** Compared to α=0.017 (using Bonferroni adjustment α/x where α is the overall significance level and x=3 for 3 pairwise comparisons)*