2019 ANNUAL REPORT

QUARTZ MINING LICENSE QML-0009

March 2020

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. Prior to this, letters of approval for preliminary development of the Onek 990 and Lucky Queen Mines were received in November 2012. On February 17, 2016, an amendment to the QML was issued to include the Flame and Moth Mine.

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 7, 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, 2016, or 2017. The district came out of temporary closure in 2018 with the commencement of the initial development of the Flame and Moth underground workings including completion of the Flame and Moth water treatment plant and pond, preparatory earth works of the Flame and Moth P-AML waste rock storage facility and mill maintenance. In 2018, no activities associated with development were undertaken at Bellekeno, Onek or Lucky Queen. In 2019, the District was put back in temporary closure and no activities associated with development were undertaken at Flame and Moth, Bellekeno, Onek or Lucky Queen. The QML was amended on November 27, 2019. No activities were undertaken at Bermingham in 2019 under the QML and therefore none reported in this report.

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

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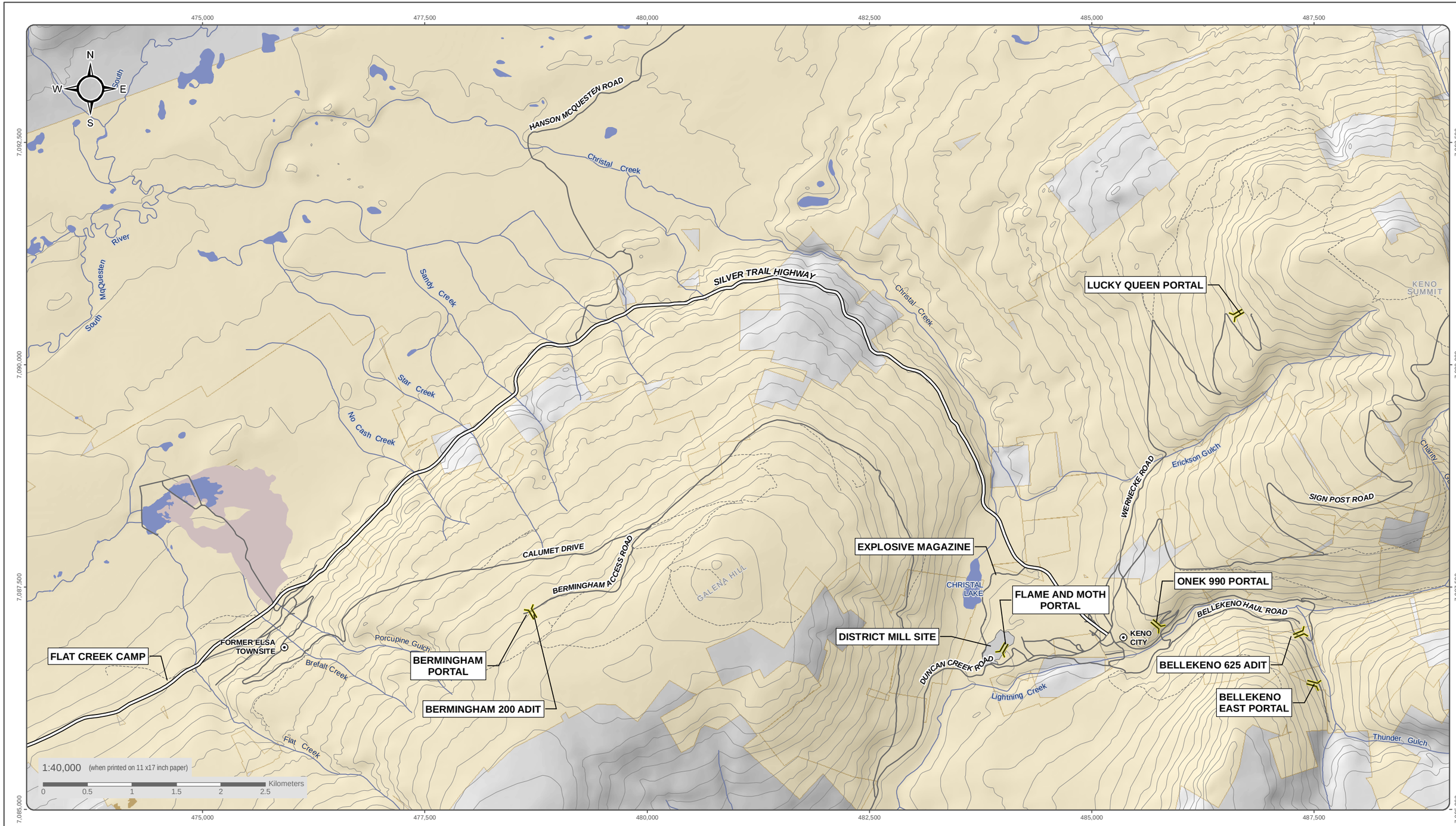
FIGURE 1-1
PROJECT LOCATION

MARCH 2019

D:\Project\All\Projects\ALEX-05-01\gis\mxd\Overview_Maps\Project-Location\Project_Location_ESRI_LAYERS_20170612.mxd (*Last edited by: amatlashevska; 11/01/2018/14:18 PM*)



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.

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

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- Place of Interest
- Adit
- Alexco/ERDC Quartz Claims
- Tailings Area
- Waterbody
- Watercourse
- Silver Trail Highway
- Other Road
- Limited-Use Road

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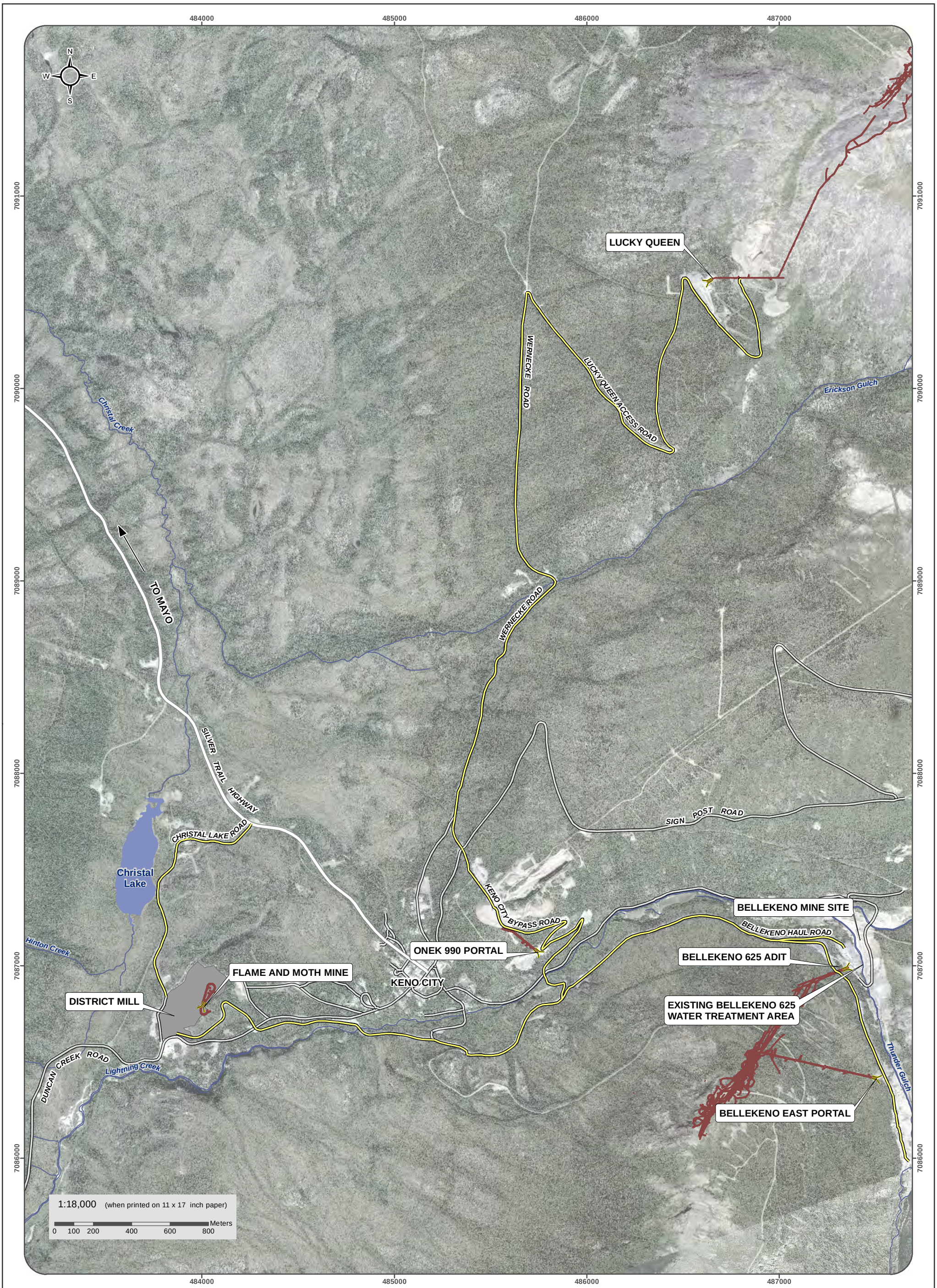
FIGURE 1-2

PROPERTY OVERVIEW

MARCH 2019

D:\Projects\AllProjects\Keno_Area_Mines\ALL-SITES\02-Maps\01_Overview\01-Property Overview\01-District_WideOverview_20190315.mxd
(Last edited by: amatashevska;15/03/2019/11:53 AM)



Adit
District Mill Footprint
Underground Workings
Silver Trail Highway
Other Road
Haul Road

Satelite imagery obtained from Yukon Geomatics map service http://mapservices.gov.yk.ca/ArcGIS/services on March 2019

Datum: NAD 83; Projection: UTM Zone 8N

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FIGURE 1-3

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

MARCH 2019

D:\Project\All\Projects\Keno_Area_Mines\ALL-SITES\02-Map\01_Overview\01-Property Overview\Overview_Portrait_Tab_20190326.mxd
(Last edited by: amatlashevska;26/03/2019/10:43 AM)

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 2019.

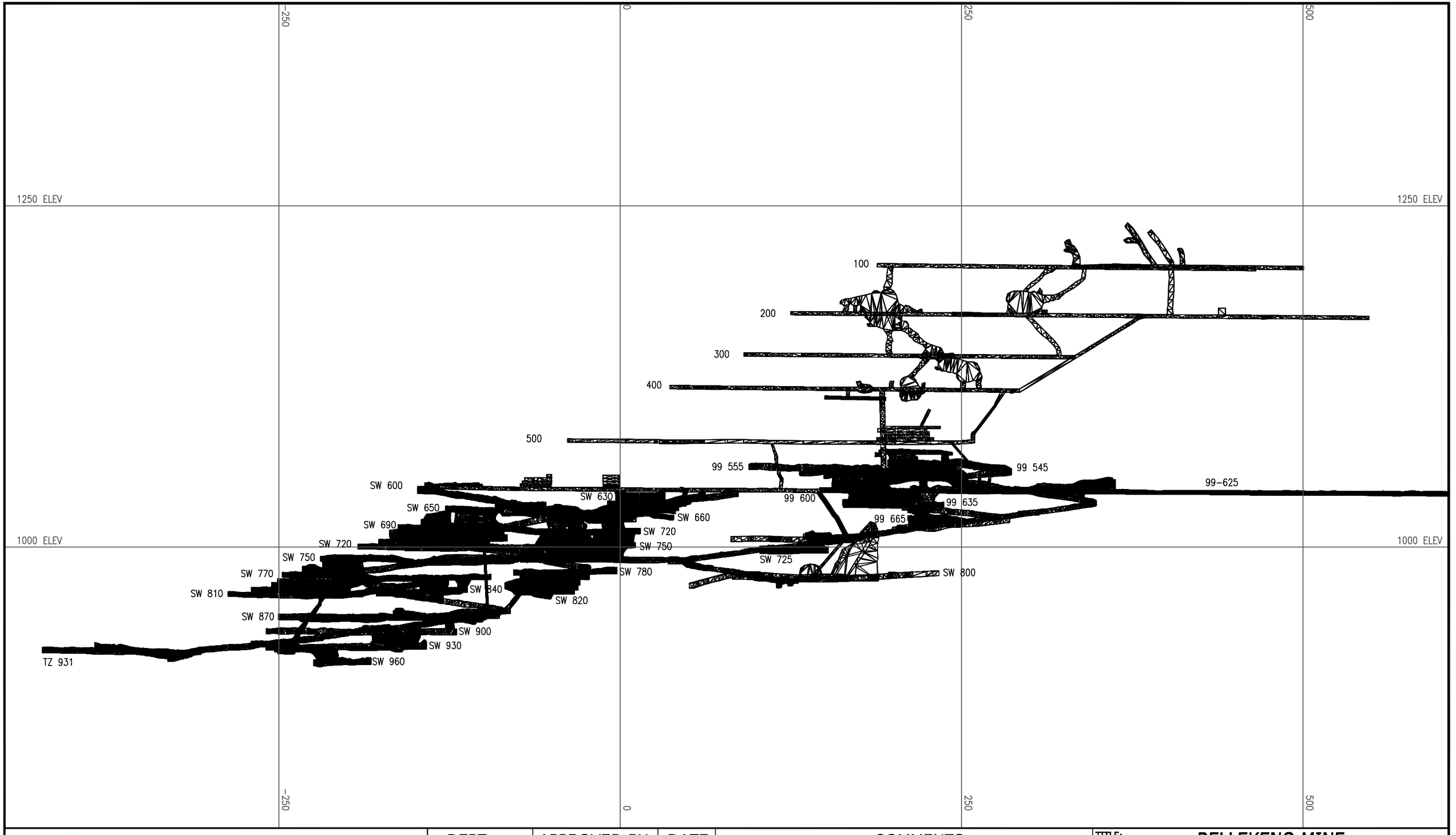
Production in 2013 focused mainly in the Southwest and 99 zones of the mine. The majority of development consisted of production mining of the Bellekeno ore body; specifically, the SW and 99 Zone. In 2013, the CAPEX development was sustained in these zones. The waste rock development in 2013 focused 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.

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 2019.

There were no issues in regard 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 below.



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*	

2.1.3 Onek 990

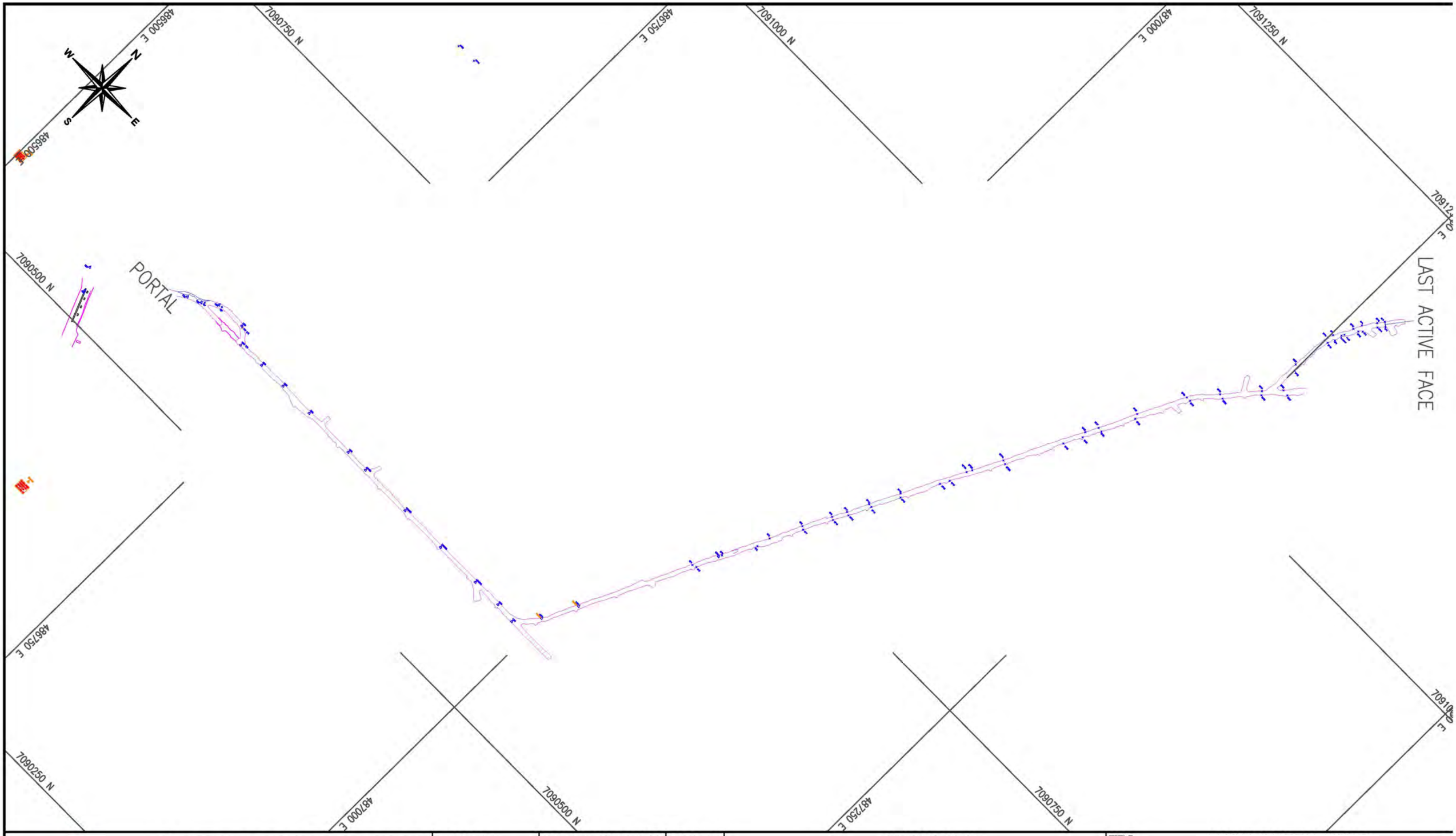
As discussed in the 2012 Pre-Season Summary Report submitted in March 2012, a new portal was to be prepared west of the historical Onek pit called Sign Post Portal. This development proceeded, however following continued community consultation, a new portal location, Onek 990, was found to be more suitable. 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 outbuildings. 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 from 2013 to 2019. No activities occurred at Onek 990 in 2014 to 2019. As-builts for underground workings can be seen in Figure 2-3. Remaining surface infrastructure was removed in 2017 and moved to Bermingham to support the advanced exploration program under LQ00240.

2.1.4 Flame & Moth

The Flame and Moth portal was collared in 2016 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.

The Flame & Moth decline is being constructed at a design of 15% grade and sized 3.7 m wide x 4.0 m high and will accommodate new underground drilling headings as well as haulage up to 250 to 400 tonnes of ore per day to the primary crusher which is located within 200 m of the mine portal. In May of 2018, Alexco continued advancing the underground decline at Flame & Moth. On October 31 2018, AKHM completed the targeted Flame & Moth underground development program for 2018 with 452 m driven including supporting remuck bays and sumps. Approximately 336 m of ramp and infrastructure development remains to reach the first ore level access at the Lightning Zone. In addition, a 100 m ventilation raise to surface will be required before commercial ore production can be achieved. Completion of the remaining ramp development, raise and infrastructure is pending completion of an optimized mine plan as part of the PFS. A total of 18,587 tonnes of N-AML waste rock was broken in 2018. No work was completed on Flame and Moth in 2019. 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. A plan view of the Flame and Moth underground workings and surface infrastructure is presented in Figure 3-1.



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:
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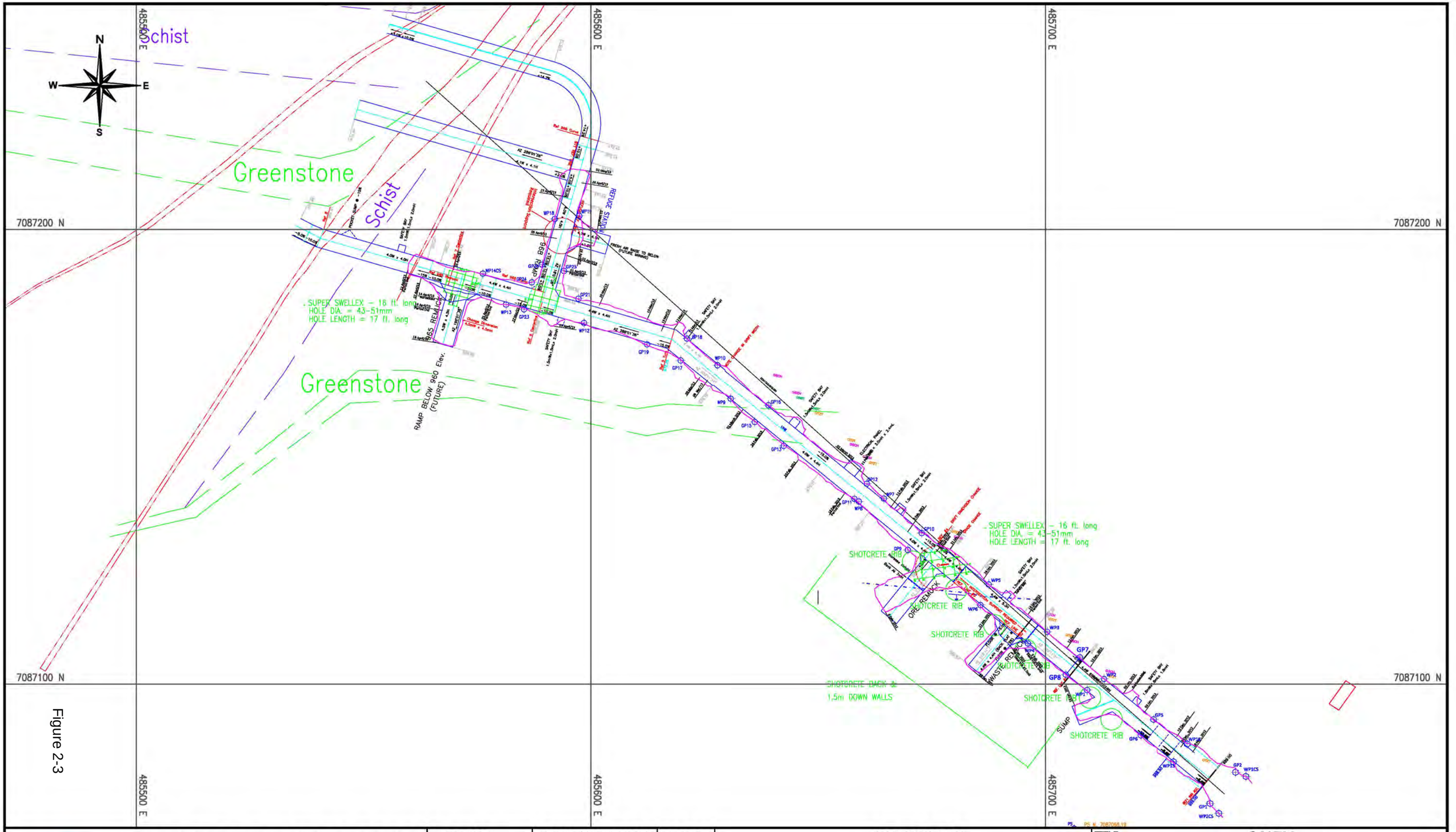

Figure 2-3

ALEXCO RESOURCE CORP
BELLEKENO MINE

ALEXCO

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:
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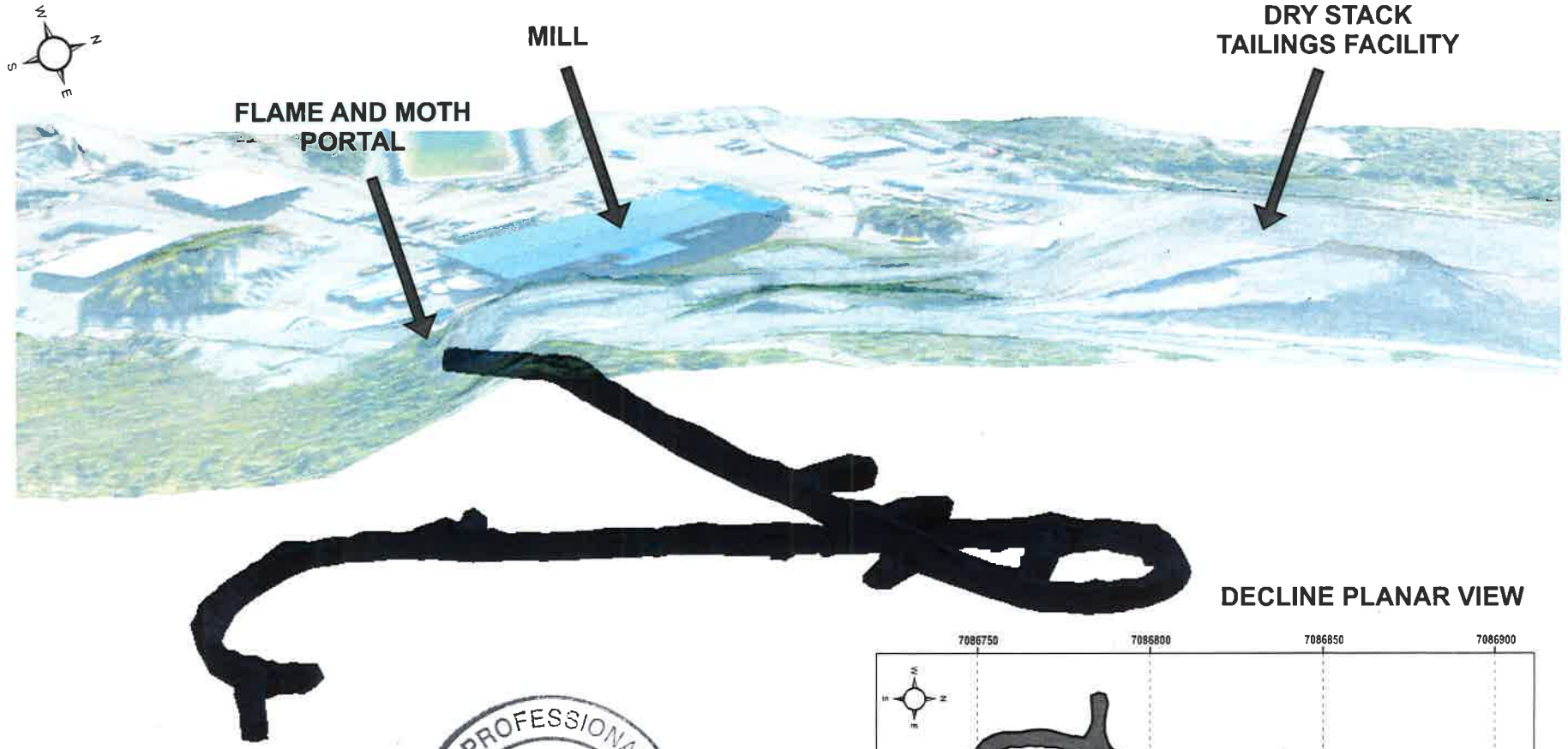
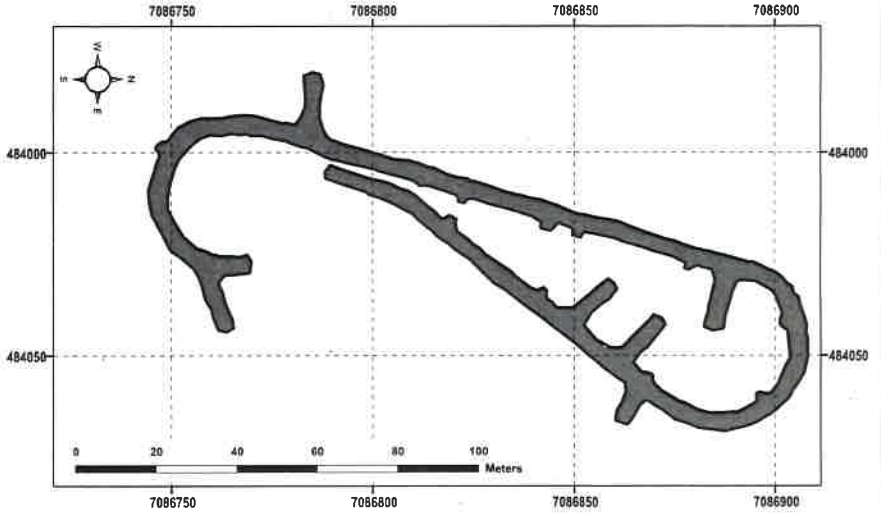


DECLINE PLANAR VIEW



PROFESSIONAL ENGINEER
YUKON TERRITORY
NEIL CHAMBERS

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FIGURE 2-4
FLAME AND MOTH MINE AS BUILT

MARCH 2019

Figure 2-5: Flame and Moth Portal

2.2 LIFE OF MINE AND RESERVES

Alexco published the technical report "Prefeasibility Study of the Keno Hill Silver District Project, Yukon, Canada" in March 2019 (amended February 2020). The report is available on SEDAR or here (https://www.alexcoresource.com/site/assets/files/4288/pfs_2020_final_feb_13_all_chapters_2.pdf). The Project contemplates the conventional mining and milling of silver-lead-zinc ore from four underground deposits in the District. Over the eight year mine life, the mines will produce 1.18 million ("M") tonnes of mill feed (the probable Mineral Reserves) at an average 805 grams per tonne ("g/t") silver ("Ag"), 2.98% lead ("Pb"), 4.13% zinc ("Zn") and 0.34 g/t gold ("Au").

The estimated underground Mineral Resource includes the Bellekeno, Lucky Queen, Flame & Moth, Onek, and Bermingham deposits. The total estimated Mineral Resource (inclusive of the probable Mineral Reserve) is shown in Table 2-1 and Table 2-2.

Table 2-1 Summary of Mineral Resource Estimates

Category[1,2,3]	Deposit	Tonnes	Ag (g/t)	Au (g/t)	Pb (%)	Zn (%)	Contained Ag (oz)
Indicated	Bellekeno[2,4&5]	262,000	585	n/a	3.5%	5.3%	4,928,000
	Lucky Queen[2,4&6]	132,300	1,167	0.2	2.4%	1.6%	4,964,000
	Flame & Moth[2,4&6]	1,679,000	498	0.4	1.9%	5.3%	26,883,000
	Onek[4&6]	700,200	191	0.6	1.2%	11.9%	4,300,000
	Bermingham[2,4&5]	1,102,300	930	0.1	2.4%	1.7%	32,959,000
Total Indicated		**3,875,800**	**594**	**0.34**	**2.0%**	**5.3%**	**74,034,000**
Inferred	Bellekeno[4&5]	243,000	428	n/a	4.1%	5.1%	3,344,000
	Lucky Queen[4&6]	257,900	473	0.1	1.0%	0.8%	3,922,000
	Flame & Moth[4&6]	365,200	356	0.3	0.5%	4.3%	4,180,000
	Onek[4&6]	285,100	118	0.4	1.2%	8.3%	1,082,000
	Bermingham[4&5]	509,400	717	0.2	1.7%	1.5%	11,743,000
Total Inferred		**1,660,600**	**455**	**0.2**	**1.6%**	**3.7%**	**24,271,000**

Notes:

1. All mineral resources, except the Elsa Historical Tailings Resource, are classified following the CIM Definition Standards for Mineral Resources and Mineral Reserves (May 2014) of NI 43-101.
2. Indicated mineral resources are inclusive of mineral reserves estimates.
3. Mineral resources are not all mineral reserves and do not have demonstrated economic viability. All numbers have been rounded to reflect the relative accuracy of the estimates.
4. The mineral resource estimates comprising Bellekeno, Lucky Queen and Flame & Moth, Onek and Bermingham are supported by disclosure in the news release dated March 28, 2019 entitled "Alexco Announces Positive Pre-Feasibility Study for Expanded Silver Production at Keno Hill Silver District" and the technical report filed on SEDAR dated February 14, 2020 with an effective date of March 28, 2019.
5. The mineral resource estimate for the Bermingham and Bellekeno deposits are based on mineral resource estimates having an effective date of March 28, 2019. The Bellekeno deposit has been depleted to reflect all mine production from the Bellekeno mine to date.
6. The mineral resource estimate for the Lucky Queen, Flame & Moth and Onek deposits have an effective date of January 3, 2017.
7. The mineral resource estimate for the Elsa Tailings has an effective date of April 22, 2010 and is supported by the technical report dated June 16, 2010 entitled "Mineral Resource Estimation, Elsa Tailings Project, Yukon, Canada". The Elsa Historical Tailings

Resource is classified following the CIM Definition Standards for Mineral Resources and Mineral Reserves (December 2005) of NI 43-101.

8. The disclosure regarding the summary of estimated mineral resources for Alexco's mineral properties within the Keno Hill District has been reviewed and approved by Dr. Gilles Arseneau, P.Geo (Lucky Queen, Flame & Moth, and Onek deposits), Cliff Revering, P.Eng (Bermingham deposit), and David Farrow, P.Geo. PrSciNat (Bellekeno deposit), Qualified Persons as defined by NI 43-101.

The mine plan comprises mining from four deposits; Bermingham, Flame & Moth, Bellekeno, and Lucky Queen. The majority of the mill feed will come from Bermingham and Flame & Moth (over 90%). The total Mineral Reserves for the Keno Hill Silver District are shown in Table 2-2. All Mineral Reserves are probable Mineral Reserves. Please note that rounding of tonnes, average grades, and contained metal may result in apparent discrepancies with totals rounded.

Table 2-2 Mineral Reserves, Alexco Resource Corp. – Keno Hill Silver District Project

Deposit[3]	Category	Tonnes	Ag (g/t)	Pb (%)	Zn (%)	Au (g/t)	Contained Metal (000 oz Ag)	Contained Metal (000 oz Au)	Contained Metal (M lbs Pb)	Contained Metal (M lbs Zn)
Bellekeno	Proven	-	-	-	-	-				
	Probable	40,109	843.1	11.79	6.31	-	1,087	-	10	6
Lucky Queen	Proven	-	-	-	-	-	-		-	-
	Probable	70,717	1,244.39	2.63	1.38	0.12	2,829	-	4	2
Flame and Moth	Proven	-	-	-	-	-	-		-	-
	Probable	704,211	671.95	2.71	5.73	0.49	15,214	11	42	89
Bermingham	Proven	-	-	-	-	-	-		-	-
	Probable	362,343	972.02	2.59	1.32	0.13	11,324	2	21	11
Total	**Proven**	**-**	**-**	**-**	**-**	**-**	**-**		**-**	**-**
	Probable	**1,177,380**	**804.51**	**2.98**	**4.13**	**0.34**	**30,454**	**13**	**77**	**107**

Notes:

1. All mineral reserves for this table have the effective date of March 28, 2019 and are classified following the CIM Definition Standards for Mineral Resources and Mineral Reserves (May 2014), in accordance with the CIM Estimation of Mineral Resources and Mineral Reserves Best Practice Guidelines and the guidelines of NI 43-101.
2. All numbers have been rounded to reflect the relative accuracy of the estimates. Mineral Reserves are reported herein based on an NSR cutoff value using estimated metallurgical recoveries, assumed metal prices and smelter terms, which include payable factors, treatment charges, penalties, and refining charges
3. Tonnage and grade measurements are in metric units. Contained gold and silver ounces are reported as troy ounces
4. The Bellekeno, Lucky Queen, Flame & Moth and Bermingham deposits are incorporated into the current mine plan supported by disclosure in the news release dated March 28, 2019 entitled "Alexco Announces Positive Pre-Feasibility Study for Expanded Silver Production at Keno Hill Silver District" and the technical report filed on SEDAR dated February 13, 2020 with an effective date of March 28, 2019.
5. The disclosure regarding the summary of probable mineral reserves for Alexco's mineral properties within the Keno Hill District has been reviewed and approved by Neil Chambers, P.Eng., Mine Superintendent and Qualified Person as defined by NI 43-101.

2.3 MINING METHODOLOGY

No mining of ore occurred in 2019.

2.4 DEVELOPMENT

There was no mining related development in 2019.

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 Moth Portal. In 2017, surface disturbance was related to the preparation for the Flame and Moth water treatment pond. In, 2018, surface disturbance activities continues to be related to Flame and Moth and included the completion of the Flame and Moth Water Treatment Plant and Pond, laydown area and P-AML waste rock storage facility. The updated surface as-built drawing for the Mill area Facility for 2019 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, 2016, 2017, 2018 and 2019. 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 centralize 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, 2016, 2017. In 2018 and 2019, a maintenance program of the some of the Mill components was undertaken. No further work was undertaken in 2019.

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 annual inspection of the DSTF in 2019 is presented in Appendix A.

3.3 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 January 1, 2017 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 ultraviolet (UV) light before it is chlorinated and stored in holding tanks ready for consumption under the *Yukon Environmental Health Standards*.

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, 2016, 2017. 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.

In 2018, the Onek substation in Keno City experienced a failure and therefore the Bellekeno Mine and water treatment plant were energized with a generator during repairs to the electrical station.

Adit
Decline
Pipeline
Infrastructure Footprint
Current DSTF
Catchment
Road
Watercourse

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

FIGURE 3-1

MILL, DSTF AND FLAME AND MOTH AREA AS-BUILT

MARCH 2019

PROFESSIONAL ENGINEER YUKON TERRITORY NEIL CHAMBERS

Satellite imagery obtained from Yukon Geomatics map service http://mapservices.gov.yk.ca/ArcGIS/services on March 2019

Datum: NAD 83; Projection: UTM Zone 8N

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D:\Projects\Projects\Keno_Area_Mines\ALL-SITES\02 Maps\01_Overviews\02 District Mill\Mill_Pipeline_Decline_20190320.mxd
(Last edited by: amattiuzzi on 26/03/2019 at 11 AM)

3.4 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 2019 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 *2019 Annual Physical Inspection Report* which includes surface inspections.

3.5 UPCOMING MAINTENANCE AND UPGRADES

Routine maintenance of mine and mill areas continued in 2014 to 2019.

3.5.1 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, 2017. In 2016, 2018 and 2019, a maintenance program of the some of the Mill components was undertaken.

3.5.2 Mine Upgrades and Maintenance

3.5.2.1 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. Mine discharge and water treatment continued in 2019.

3.5.2.2 Lucky Queen

No upgrades were done during temporary closure.

3.5.2.3 Onek 990

No upgrades were done during temporary closure.

4 MILLING OPERATIONS

Mill operations did not occur in 2014 to 2019.

5 WASTE MANAGEMENT

5.1 TAILINGS MANAGEMENT

Tailings were not generated in 2014 to 2019 under temporary closure.

5.2 WASTE ROCK MANAGEMENT

Waste rock was not generated in 2014, 2015, 2017 and 2019 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. In 2018, there was 18,857 tonnes of waste rock produced from further development of the Flame and Moth portal, which was all classified as N-AML by the Waste Rock Management Plan.

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 January 2018. This updated plan included monitoring and surveillance to reflect requirements of Water License QZ09-092 (amendment #2) 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 2019 Annual Report. Details can be seen in Appendix C1 of the QZ09-092 2019 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 QZ17-076, and Water Licence QZ09-092. Water Licence QZ12-057 expired in January of 2018 and was renewed as QZ17-076, in 2018. Results can be seen in the QZ09-092 2019 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 2019 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.

470000 480000 490000

7100000 7090000

DISTRICT MILL, ONEK AND KENO CITY INSET

N W E S

GALKENO 900

KV-6 KV-79 KV-80 KV-52 KV-51 KV-49 KV-50 KV-105 KV-83 KV-82 KV-104 KV-81 KV-95 KV-45 KV-78A KV-96 KV-100 KV-41

CL5 CL7 CL6

Christal Lake

SILVER TRAIL HIGHWAY

CHRISTAL LAKE ROAD

WERNECKE ROAD

SIGN POST ROAD

ONEK 400 ADIT

ONEK P-AML WRSF

ONEK 990 PORTAL

FLAME AND MOTH ADIT

DISTRICT MILL WEATHER STATION

DUNCAN CREEK ROAD, BELLEKENO HAUL ROAD

Hinton Creek

Christal Creek

Lightning Creek

1:20,000

BELLEKENO INSET

SIGN POST ROAD

BELLEKENO HAUL ROAD

KV-44 KV-76 KV-43 KV-42 KV-65 KV-38

Lightning Creek

BELLEKENO 625 ADIT

BELLEKENO EAST PORTAL

KV-78B KV-77

TEMPORARY P-AML WRSF

Thunder Gulch

1:30,000

LUCKY QUEEN INSET

N-AML WRDA

LUCKY QUEEN RAIN GAUGE

KV-98 KV-97 KV-34 KV-99

LUCKY QUEEN ADIT

P-AML WRSF

LUCKY QUEEN ACCESS ROAD

1:8,000

BERMINGHAM INSET

KV-114 KV-110 KV-18 KV-115 KV-119

BERMINGHAM ACCESS ROAD

BERMINGHAM 200

BERMINGHAM PORTAL

1:7,500

McQuesten Lake KV-72

Cache Creek

Hanson Lakes

South McQuesten River

HANSON/MCQUESTEN ROAD

Germaine Lake

Gambler Lake

Sadie Ladue Creek

Gambler Gulch

Ladue Creek

Faro Gulch

Faulkner Gulch

McKay Gulch

Homes

Silver B

Keno Ladue River

KV-1 KV-8 KV-7 KV-2 KV-56 KV-21 KV-20 KV-111 KV-118 KV-19

Christal Creek

Sandy Creek

No Cash Creek

Star Creek

Brefalt Creek

SILVER TRAIL HIGHWAY

CALUMET DRIVE

NO CASH 500

GALKENO 300

VALLEY TAILINGS WEATHER STATION

CALUMET WEATHER STATION

BERMINGHAM INSET

LUCKY QUEEN INSET

WERNECKE ROAD

SIGN POST ROAD

KENO 700

Hope Gulch

Charity Gulch

KV-39 KV-37 KV-40

BELLEKENO INSET

Christal Lake

Lightning Creek

Thunder Gulch

McNeill Gulch

DISTRICT MILL, ONEK AND KENO CITY INSET

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1:90,000 (when printed on 11 x17 inch paper)

0 1 2 3 4 5 Kilometers

- Active Surface Water Quality Station
- Pending/Proposed Water Quality Station
- Weather Station
- Adit
- Mine Feature Footprint
- To Be Constructed Feature
- Valley Tailings Area
- Silver Trail Highway
- Other Road
- Watercourse
- Waterbody

AKHM AEG

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

FIGURE 6-1
SURFACE WATER QUALITY STATION LOCATIONS

MARCH 2019

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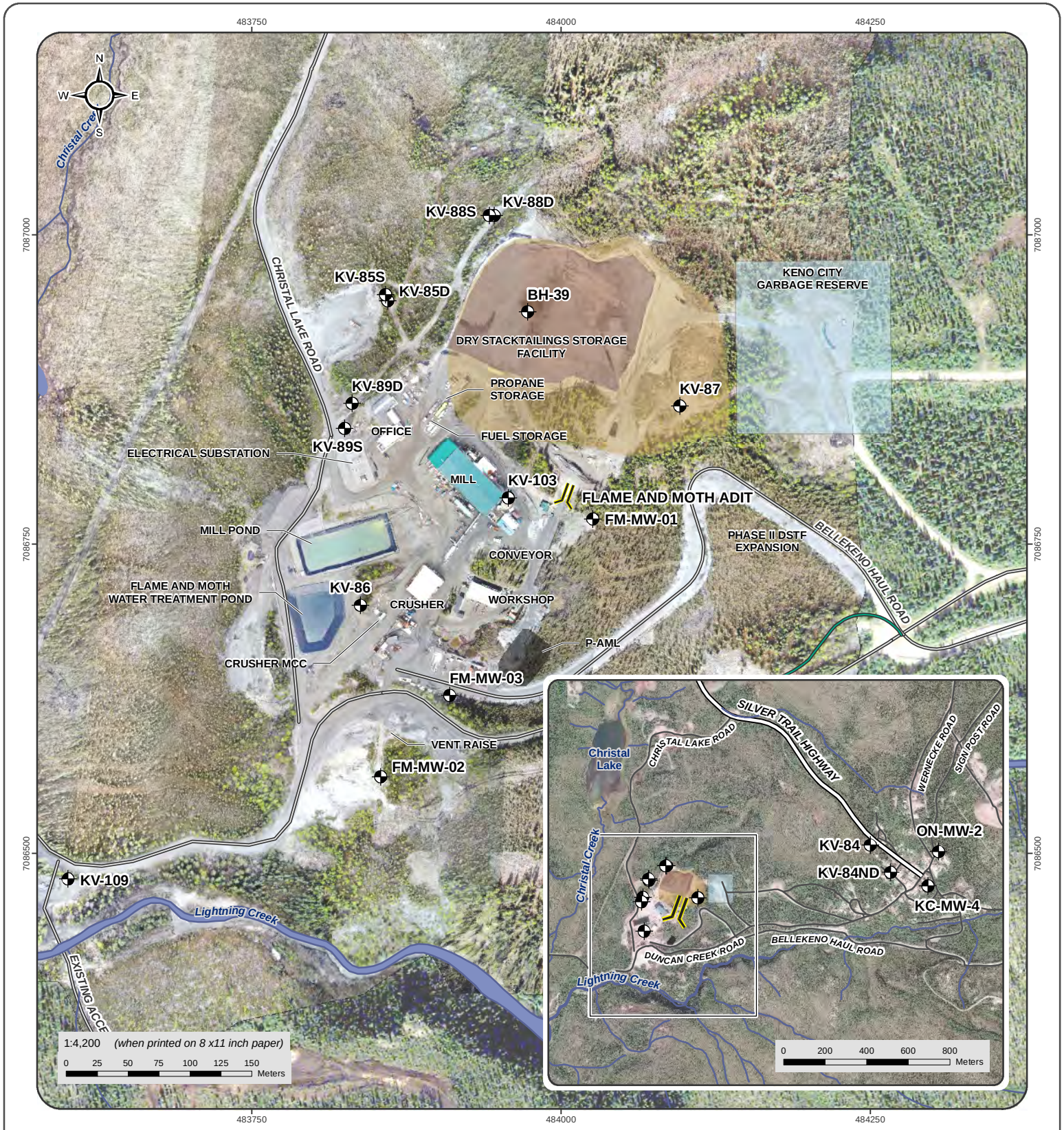

Monitoring Well

Adit

Proposed Road

DSTF 322k Tonnes Design

Current DSTF

Mine Feature Footprint

AKHM

AEG

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FIGURE 6-2

GROUNDWATER MONITORING LOCATIONS

MARCH 2019

Satelite imagery obtained from Yukon Geomatics map service http://mapservices.gov.yk.ca/ArcGIS/services on March 2019

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(*Last edited by: amatlashevska; 26/03/2019/13:55 PM*)

480,000 482,500 485,000 487,500

7,090,000 7,087,500

N W E S

HANSON MCQUESTEN ROAD
SILVER TRAIL HIGHWAY
Christal Creek
LUCKY QUEEN PORTAL
LQ-MW-1
LQ-MW-2
LUCKY QUEEN ACCESS ROAD
WERNECKE ROAD
Sandy Creek
Star Creek
No Cash Creek
NC-MW-1
RB-MW-1
CALUMET DRIVE
BERMINGHAM ACCESS ROAD
KV-116
BH-MW-1
BERMINGHAM 200 ADIT
BERMINGHAM PORTAL
GALENA HILL
ON-MW-4
KC-MW-2
KC-MW-3
ON-MW-1
SIGN POST ROAD
ONEK 990 PORTAL
DISTRICT MILL SITE
CHRISTAL LAKE ROAD
KV-88D/S
KC-MW-1B
KV-84
ON-MW-2
Lightning Creek
Thunder Gulch
BELLEKENO HAUL ROAD
KV-91
KV-92
KV-93
KV-94
KV-85D/S
BH-39
KV-84ND
ON-MW-3
KV-89D/S
KV-87
KC-MW-4
KENO CITY
KV-103
KV-108
DUNCAN CREEK ROAD
KV-86
FM-MW-02
FM-MW-01
FM-MW-03
KV-109
BELLEKENO 625 ADIT
FLAME AND MOTH PORTAL
BELLEKENO EAST PORTAL

1:25,000 (when printed on 11 x17 inch paper)

Kilometres
0 0.5 1 1.5 2

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Satelite imagery obtained from Yukon Geomatics map service http://mapservices.gov.yk.ca/ArcGIS/services on July 2018

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- Proposed Monitoring Well
- Monitoring Well
- Adit
- Alexco/ERDC Quartz Claims
- District Mill Footprint
- Silver Trail Highway
- Other Road

AKHM
AEG

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FIGURE 6-3
KENO HILL SILVER DISTRICT
GROUNDWATER MONITORING LOCATIONS

MARCH 2018

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(Last edited by: mduchame,7/26/2018/5:17 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 2019 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 QZ09-092 2019 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 Monitoring and Management Plan*, and will continue to do so during development and production as a part of monitoring. Details can be found in the *Noise Monitoring and Management 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. An updated version was submitted to YG in January 2018.

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 exceedances 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 2019 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, 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 and one in Keno City. 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, PM_{10} and $PM_{2.5}$ results have been compared to the *Yukon Ambient Air Quality Standards*. The details of the air quality monitoring is detailed in the Dust Abatement and Monitoring Plan most recently updated and submitted to YG for review in January 2018.

In addition to TSP, PM_{10} and $PM_{2.5}$ monitoring using the BGI OMNI samplers, samples from the TSP filters were analyzed for total metals. The metal speciation data from the TSP filters have been compared against the Ontario Ambient Air Quality Criteria and are presented in Appendix C. The complete 2019 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 TSP monitoring instruments currently in place are shown on Figure 6-4.

484,000 484,500 485,000 485,500

7,087,500

7,087,000

7,086,500

N W E S

CHRISTAL LAKE

CHRISTAL LAKE ROAD

Christal Creek

Hinton Creek

DRY STACK TAILINGS STORAGE FACILITY

TSP-2

MILL WEATHER STATION

DSTF CLEARING

MILL

FLAME AND MOTH PORTAL

MILL POND

TSP-1

WATER TREATMENT POND

CRUSHER

P-AML

DUNCAN CREEK ROAD

BELLEKENO HAUL ROAD

Lightning Creek

TSP-3

SILVER TRAIL HIGHWAY

WERNECKE ROAD

SIGN POST ROAD

KENO CITY BYPASS ROAD

Satelite imagery obtained from Yukon Geomatics map service http://mapservices.gov.yk.ca/ArcGIS/services on March 2019

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
- Current DSTF
- Silver Trail Highway
- Secondary Road

AKHM

AEG

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ANNUAL QUARTZ MINING LICENCE REPORT, QML-0009

FIGURE 6-4

DUST MONITORING AND WEATHER STATIONS

MARCH 2019

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(Last edited by: amatlashevska;26/03/2019/15:12 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, 2017 and 2019, therefore no new monitoring was conducted during 2019. 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. In 2018, 18, 587 tonnes of waste rock was produced at the Flame and Moth portal and was characterized as N-AML. In 2019 no waste rock was generated.

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. Cycle 3 of the EEM was undertaken in 2018 and the interpretive report was submitted to Environment Canada and Climate Change in 2019 and has been included in the Water Licence annual report. No EEM studies were required in 2019.

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, 2016, 2017, 2018 and 2019 saw no encounters between AKHM vehicles and wildlife.

6.1.11 Traffic Management

The Bellekeno 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 Christal 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 Bellekeno Haul Road.

With the developments of the Lucky Queen and Onek 990 Mines, the Keno City Bypass 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.

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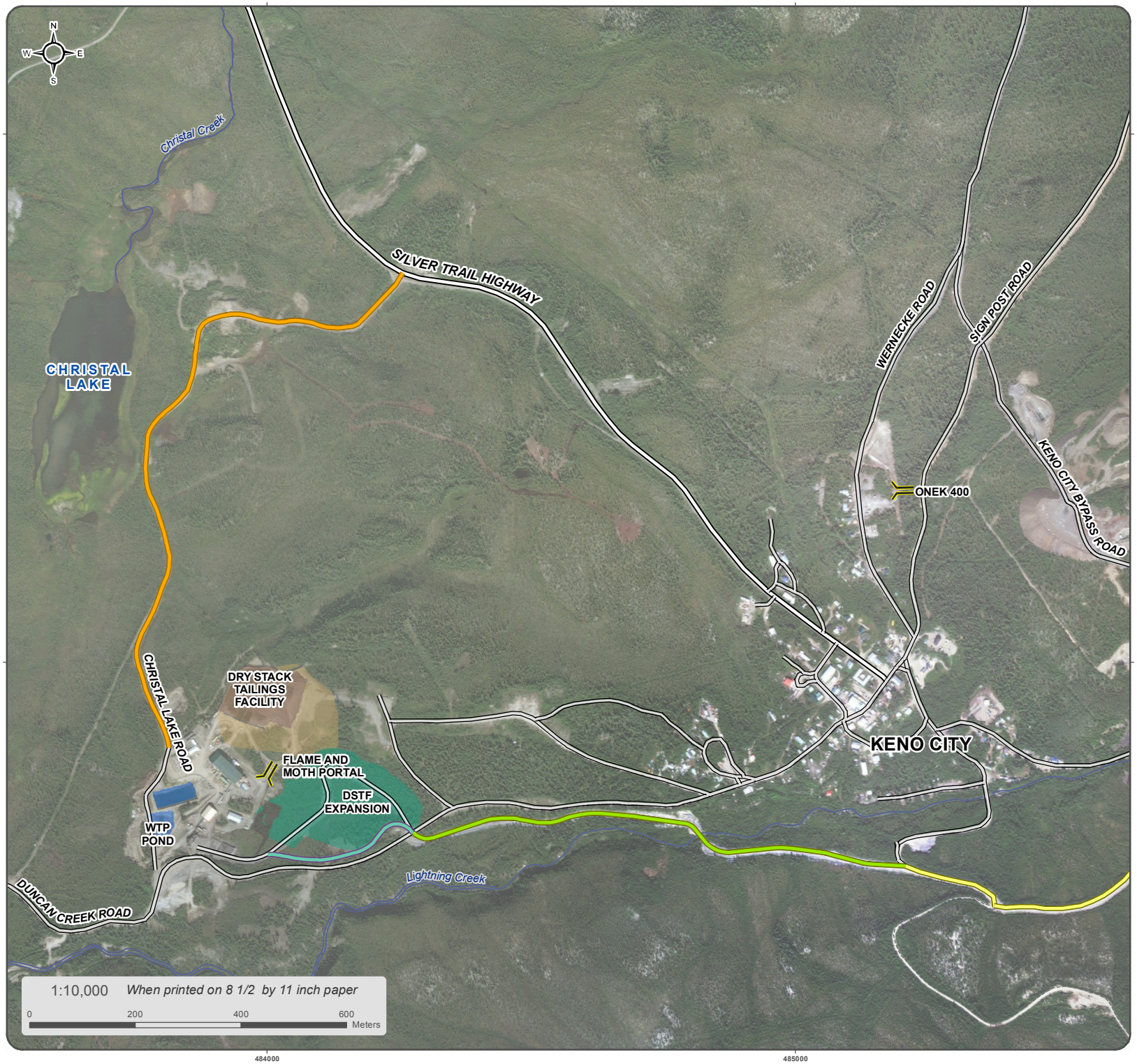
ANNUAL QUARTZ MINING LICENCE REPORT, QML-0009

FIGURE 6-5

BELLEKENO HAUL ROAD

MARCH 2019



- Adit/Portal
- Bellekeno Haul Road
- Bellekeno Project Bypass Road North
- Bellekeno Project Bypass Road South
- Proposed Haul Road
- Silver Trail Highway
- Road
- Limited-Use Road
- Infrastructure Footprint
- Pond
- DSTF 322k Tonnes Design
- Current DSTF
- To Be Constructed Features

Satelite imagery obtained from ESRI ArcGIS map service https://services.arcgisonline.com/ArcGIS/rest/service on March 19 2019

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

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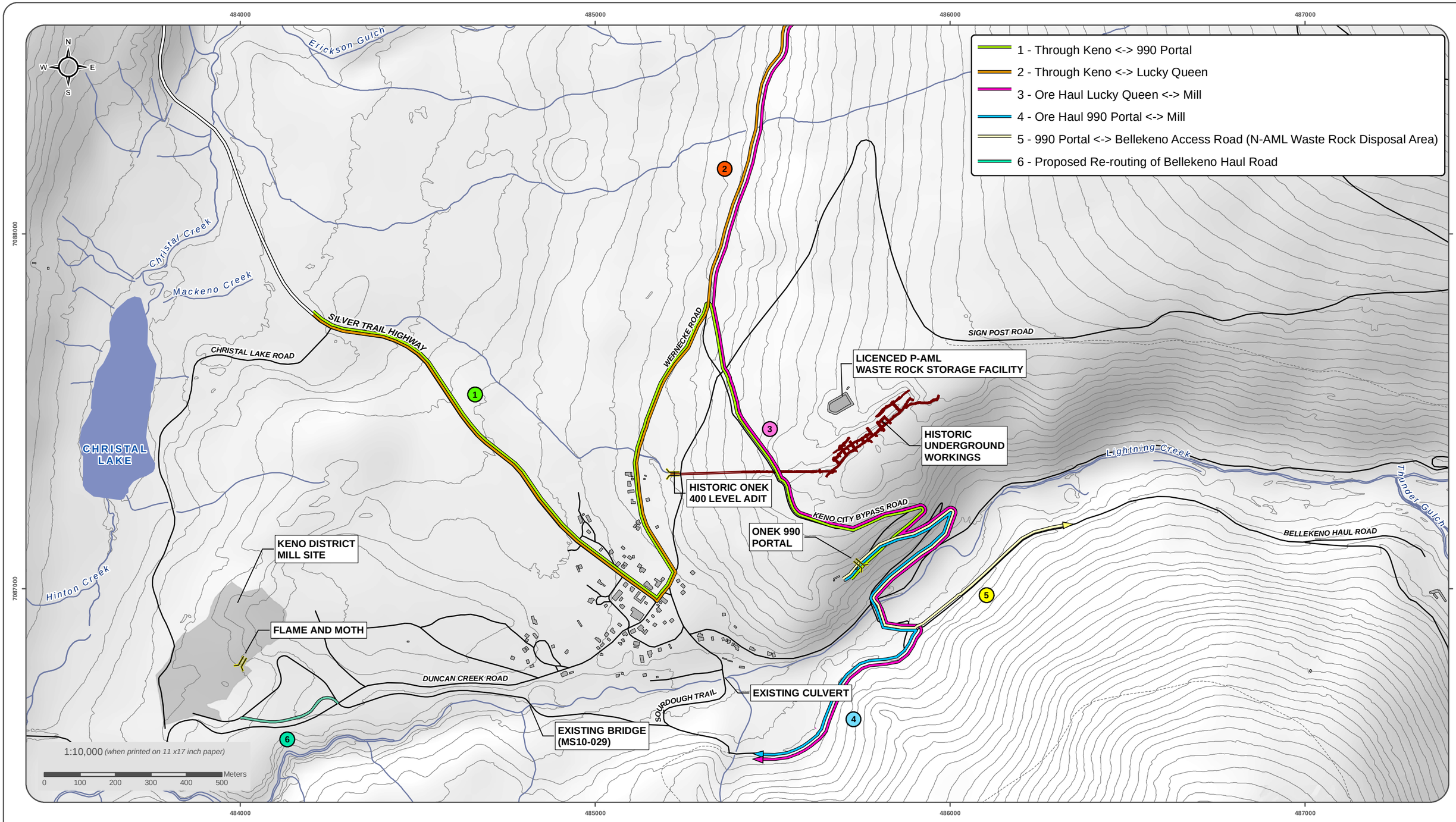
AKHM AEG

D:\Project\AllProjects\Keno_Area_Mines\ALL-SITES\02-Map\04-Studies\Traffic\Bellekeno_Bypass_Road_20190319.mxd
(*Last edited by: amatlashevska;19/03/2019/09:12 AM*)



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 2018

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

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Adit
Building/Structure
District Mill Footprint
Silver Trail Highway
Road
Limited-Use Road
Waterbody
Watercourse
Contours (100 ft intervals)

AKHM
AEG

ALEXCO KENO HILL MINING CORP.
ANNUAL QUARTZ MINING LICENCE REPORT, QML-009

FIGURE 6-6

LUCKY QUEEN, ONEK 990 AND BELLEKENO ACCESS ROUTES

MARCH 2019

D:\Projects\AllProjects\Keno_Area_Mines\ALL-SITES\02-Maps\04-Studies\Traffic\LQ_BK_Onek_Traffic_20170926.mxd
(Last edited by: amafieshevska,09/03/2018/13:43 PM)

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. The Adaptive Management Plan was updated to include Flame and Moth and the most recent version was uploaded in August 2018. No adaptive management activities were undertaken during 2014 to 2019.

Reporting for the AMP including a summary of any adaptive management triggers and actions was prepared for the WUL QZ09-092 2018 Annual Report. The QZ09-092 2019 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 2018. A spill was reported at Bellekeno laydown area in 2019 and the clean-up report has been submitted to the inspector and Waterline under Water Licence QZ09-092.

7.2 PERMIT EXCEEDANCES

There were two Licence exceedance during 2019 relating to the Bellekeno mine discharge, one TSS and one total zinc concentration, both exceedances are discussed further in the 2019 Annual Water Licence Report.

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 and renewed as QZ17-076. 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 QZ09-092 (amendment #2).

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 2019 Annual Water License report submitted to the Yukon Water Board as per Water Use License QZ17-076 in March 2020.

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*

Roscoe Postle Associates Inc., *Technical Report Preliminary Economic Assessment of the Keno Hill Silver District Project,* Yukon Territory, Canada, 2017

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

2019 ANNUAL PHYSICAL INSPECTION

November 26, 2019

ISSUED FOR USE
FILE: 704-ENG.WARC03685-01
Via Email: kwoloshyn@alexcoresource.com

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

Attention: Kai Woloshyn – Environmental Manager

Subject: 2019 Annual Geotechnical Inspection – Mining Related Structures
Bellekeno Mine – Keno City, YT

1.0 INTRODUCTION

NND-EBA Land Protection Corp. operating as NELPCo Limited Partnership (NELPCo) was retained by Alexco Resource Corp (Alexco) to complete the 2019 annual geotechnical inspection of structures related to development of the Bellekeno Mine near Keno City, Yukon. NELPCo is a limited partnership corporation owned by the NND Development Corporation (NNDDC) and Tetra Tech Canada Inc. (Tetra Tech). The inspection was conducted by Tetra Tech, NELPCo's exclusive engineering services provider. Authorization to complete this work was received by way of an Alexco purchase order (PO #21906) dated July 16, 2019.

2.0 SCOPE OF SERVICES

The following is Tetra Tech's scope of services for the 2019 annual inspection as was presented in the proposal submitted to Alexco on July 10, 2019:

- Complete a visual inspection of the earth structures identified by Alexco, which includes:
  - Bellekeno Mine
    - Potentially acid generating (PAG) waste storage facility;
    - Bellekeno Road waste rock pile;
    - Bellekeno 625 water treatment ponds;
    - Lightning Creek Bridge abutments (Bellekeno);
    - Lightning Creek Bridge abutments (Onek);
    - Mill water storage ponds; and
    - Dry Stacked Tailings Facility (DSTF).

The work was also to include readings of the slope indicators and thermistor cables that are still operational within and around the dry stacked tailings facility.

The location of these structures is shown on Figure 1.

EBA, A NELPCo Company
14940 123 Avenue
Edmonton, AB T5V 1B4 CANADA
p. 780.451.2121 f. 780.454.5688

Finally, an inspection report was to be prepared that documents the results of the inspection, including a summary of the stability, integrity, and status of all inspected structures, and any recommendations for remedial actions.

3.0 INSPECTION SUMMARY AND RECOMMENDATIONS

The 2019 annual inspection was completed by J. Richard Trimble, M.Sc. (Eng.), P.Eng., FEC, and Taylor Pasloski, P.Eng. on August 20, 2019 in the company of Dennis Silander. The following sections summarize observations for each structure and describe 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 where appropriate.

3.1 Bellekeno Mine

3.1.1 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 2013, but currently contains some volume of PAG waste rock. At the time of the inspection, the perimeter berms appeared intact with no visible sign of instability (Photo 1).

Photo 1 - Bellekeno PAG Storage Facility (August 20/19)

3.1.2 Bellekeno Road 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 side slopes of the waste rock pile appeared to be intact and stable. No remedial action is required.

Photo 2 – Bellekeno Road Waste Rock Pile (August 20/19)

3.1.3 Bellekeno 625 Water Treatment Ponds

The Bellekeno 625 water treatment ponds are located north of the Bellekeno 625 portal, as shown on Figure 1. The facility consists of two water treatment ponds that were both operating at the time of inspection. 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, with a freeboard of 0.5 m in the south end. Treated water discharges through an HDPE pipe onto the hillside above Lightning creek. A small rip in the liner was identified at the south end crest of the secondary pond. The rip appeared to be caused by equipment operating around the pond but should be monitored and repaired if conditions worsen.

Photo 3 - Bellekeno 625 Water Treatment Ponds (August 20/19)

The pipe from the treated water pond discharges directly onto the natural soils above Lightning Creek without any protection from erosion (Photo 4). At the time of the inspection the discharge pipe was unhooked at a coupler upstream from the previous discharge location. The discharge rate was low, but regular monitoring should be completed. If any signs of erosion are observed, riprap armouring must be installed.

Photo 4 - Bellekeno 625 Water Treatment Ponds, Discharge Location (August 20/19)

3.1.4 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 wooden deck founded on earth filled timber cribbed abutments. The abutments were stable at the time of the inspection and are sufficiently protected by riprap armouring from erosion of Lightning Creek. Although the bases of the abutments are well protected, the approaches have undergone erosion and are starting to become undermined by washout (Photo 5). It is recommended that the eroded areas be backfilled with coarse rock and the berms built up to maintain stability. If coarse rock is used for the safety berm, surface drainage would not be impeded, but must be directed so that the berm is not eroded away.

Photo 5 - Bellekeno Haul Road, Approach Erosion (August 20/19)

3.1.5 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 were stable at the time of the inspection and are sufficiently protected from erosion by riprap. No remedial action is required for the Lightning Creek Bridge on the Onek Road at this time.

Photo 6 - Lightning Creek Bridge Abutments, Onek Road (August 20/19)

3.1.6 Mill Water Storage Ponds

The two mill water storage ponds are located at the Keno Hill District Mill Site, west of Keno City, as shown on Figure 1. At the time of the inspection the mill was not operating, but both ponds contained some water, with a freeboard of about 2 m below the perimeter berms in the older pond, and an estimated 6 m of freeboard in the newer pond.

Photo 7 - Mill Water Storage Ponds (August 20/19)

The access road on the west side of the ponds have shown signs of erosion in three areas (Photo 8). The berms on the road should be restored to direct drainage away and reduce further erosion.

Photo 8 - Mill Storage Ponds, Access Road Erosion (August 20/19)

3.1.7 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 on the DSTF since mining operations were suspended in 2013. The tailings placed to date have been regraded, covered with organic materials and glacial till, then seeded as part of the progressive reclamation activities. On the south east side of the DSTF, a deep circular slope instability was identified on surface that extended approximately 25 m long (Photo 9 and 10). The approximate location of the instability is shown on Figure 1. This instability must be repaired to prevent water or snow from flowing into the opening and accelerating further movement. To repair the instability, the DSTF should be excavated down to the extent of the failure and backfilled with compacted materials. Special care should be taken to ensure that surface drainage is restored to keep runoff and rain/snowmelt water away from this area.

Marker posts previously installed at BH37 and BH40 to identify instrument locations were knocked down and should be re-installed.

Photo 9 - DSTF Circular Instability (August 20/19)

Photo 10 - DSTF Circular Instability (August 20/19)

3.1.8 Instrumentation

Performance of the DSTF is monitored by taking regular readings on the instrumentation installed during and after construction. DSTF instrumentation consists of seven ground temperature cables installed to monitor permafrost (six in natural soils adjacent to the DSTF and one through tailings placed within the DSTF footprint), and three slope indicators installed to monitor lateral movement of the foundation soils. The location 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.

3.1.8.1 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 has been damaged, making the ground temperature cable inaccessible. The protective casing should be repaired or removed to allowed for instrumentation readings.

As indicated on the updated ground temperature profiles included in Appendix B, the ground temperatures near surface have stabilized. Ground temperature at depth have indicated that ground temperature has decreased over the last few years. Continued regular instrumentation readings are recommended to monitor ground temperature conditions.

The ground temperature cable installed in BH40, which extends through the tailings and into the foundation soils below to DSTF has been damaged and requires replacement. This is a critical installation needed to confirm design assumptions and provide ongoing temperature monitoring. Access to BH15 and BH18 has overgrown with vegetation over the years and should be cleared to allow access for future monitoring.

3.1.8.2 Slope Indicator Readings

An updated lateral movement profile developed from readings collected from the slope indicators installed in BH36 and BH38 in natural soils adjacent to the DSTF is included in Appendix C. Lateral movement that ranged from 50 mm to 80 mm at the top of the casing was identified in BH38.

Ice accumulated at the bottom two metres of BH38 and should be cleaned out and preserved using liquid suitable for use in permafrost conditions. The slope indicator located at BH28 was blocked approximately 3.7 m below the top of the instrument. This instrument has been non-operational for several years and should be replaced.

4.0 CONCLUSION AND RECOMMENDATIONS

The 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 of this report are summarized in Table 1.

Table 1 - Summary of Remedial Recommendations

Structure	Stability Recommendations	Maintenance Recommendations
BELLEKENO		
PAG Waste Storage Facility	None	None
Bellekeno Road Waste Rock Pile	None	None
Bellekeno 625 Water Treatment Ponds	None	▪ Small rip on northeast corner of secondary pond from equipment. Monitor the rip and repair if it gets worse; ▪ Discharge line unhooked at coupler. Monitor the erosion from the discharge pipe and install riprap if required.
Lightning Creek Bridge Abutments (Bellekeno Haul Road)	None	▪ Construct safety berms to protect the edge of the bridge deck, and the top of the abutments from surface water erosion.
Lightning Creek Bridge Abutments (Onek Road)	None	None
Mill Water Storage Ponds	None	▪ Access road erosion located at three spots on the west side. The safety berm should be restored to direct surface water drainage to an armoured location.
Dry Stacked Tailings Facility	▪ Repair or remove casing at BH17 to allow for continuous ground temperature mentoring; ▪ Install a new ground temperature cable to replace damaged cable at BH40; ▪ Purge and clean BH38 and preserve using liquid suitable for use in permafrost conditions (silicone oil); ▪ Replace the slope indicator located at BH28; and ▪ Repair the circular slope instability identified on the south east side.	▪ Continue regular instrumentation readings to monitor DSTF foundation conditions; ▪ Restore marker posts on top of DSTF (mainly BH40 and BH37); and ▪ Trim vegetation for future access to BH15 and BH18.

5.0 LIMITATIONS OF REPORT

This report and its contents are intended for the sole use of Alexco Resource Corp and their agents. NELPCo Limited Partnership (NELPCo) 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. Use of this document is subject to the Limitations on the Use of this Document attached in the Appendix or Contractual Terms and Conditions executed by both parties.

6.0 CLOSURE

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

Respectfully submitted,
NELPCo Limited Partnership

PROFESSIONAL ENGINEER
YUKON
TAYLOR PASLOSKI
TERRITORY
November 26, 2019

Prepared by:
Taylor Pasloski, P.Eng.
Geotechnical Engineer, Arctic Region
Direct Line: 867.668.9213
Taylor.paslosk@tetratech.com

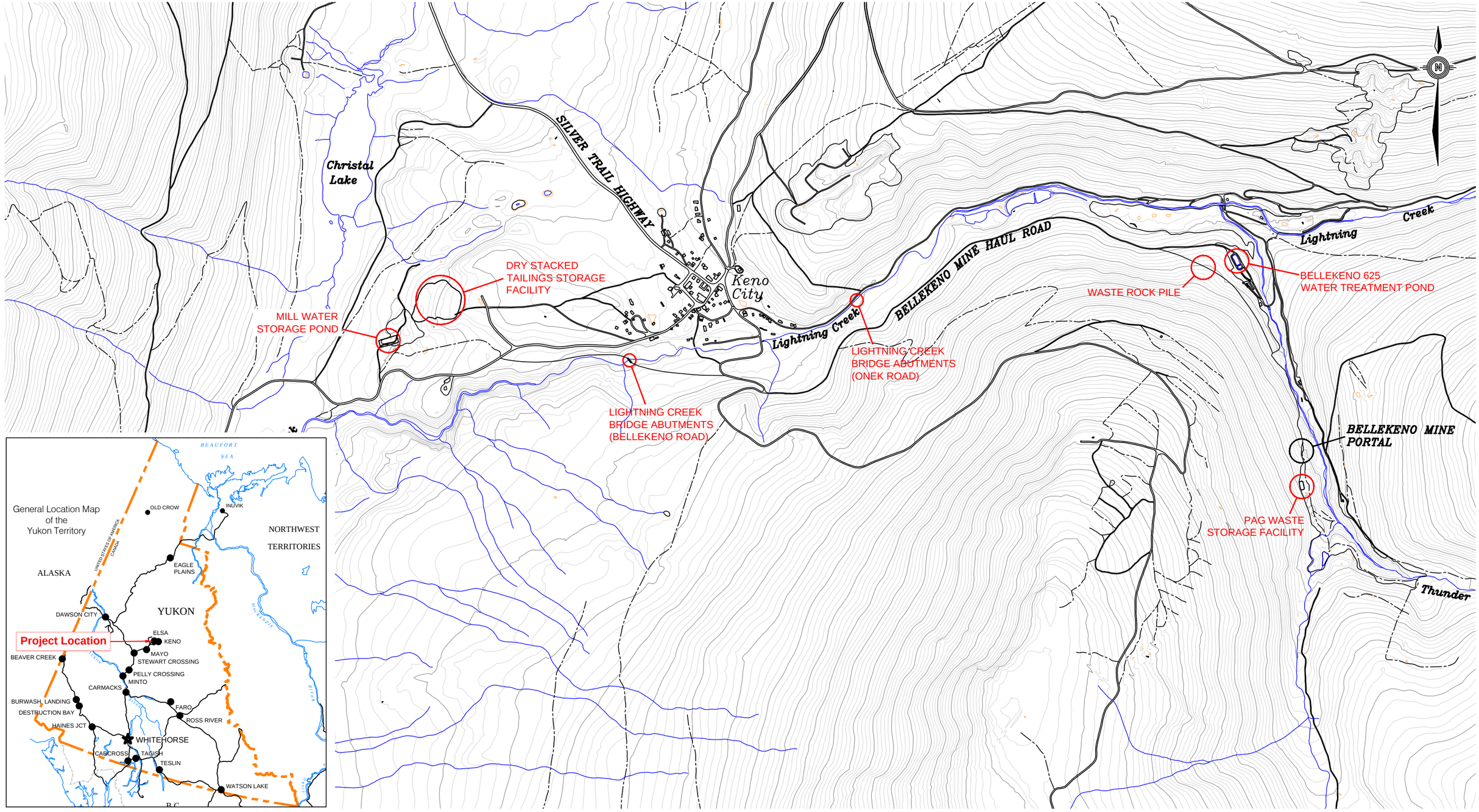
Reviewed by:
J Richard Trimble, M.Sc. (Eng.), P.Eng., FEC
Principal Consultation, Arctic Region
Direct Line: 867.668.9216
Richard.Trimble@tetratech.com

/cr

PERMIT TO PRACTICE
TETRA TECH CANADA INC.
SIGNATURE
Date Nov 26/19
PERMIT NUMBER P003
Association of Professional Engineers of Yukon

FIGURES

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



0 500m

Scale: 1:15,000 @ 11"x17"

NOTES

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

CLIENT

ALEXCO

TETRA TECH

2019 ANNUAL INSPECTION
BELLEKENO MINE SITE - KENO CITY, YUKON

SITE PLAN SHOWING STRUCTURE LOCATIONS

PROJECT NO.	DWN	CKD	REV
ENG.WARC03685-01	CB	TP	0

OFFICE	DATE
EBA-WHSE	September 9, 2019

Figure 1

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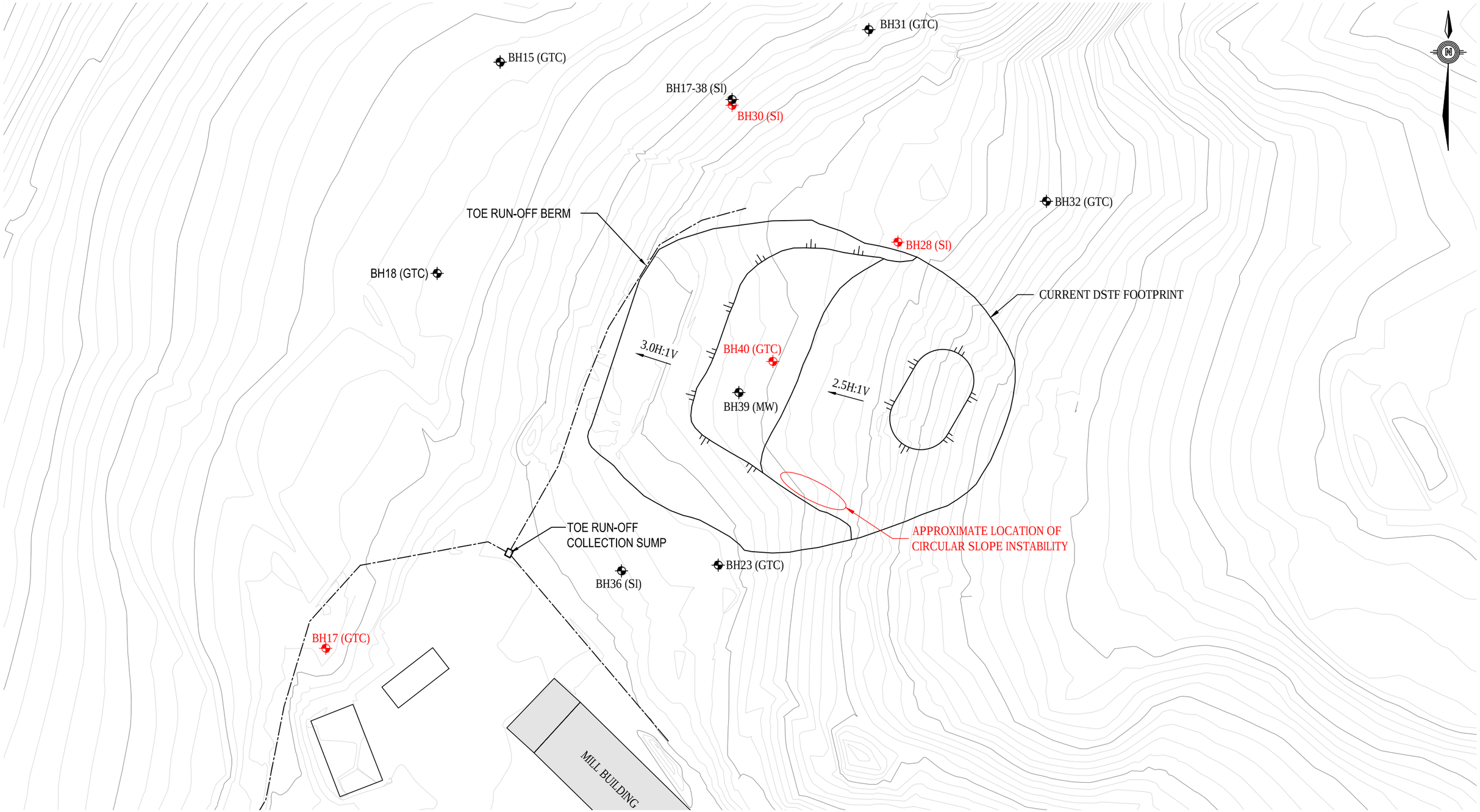

LEGEND

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

2019 ANNUAL INSPECTION
BELLEKENO MINE SITE - KENO CITY, YUKON

SITE PLAN SHOWING
BOREHOLE AND INSTRUMENTATION LOCATIONS

PROJECT NO.	DWN	CKD	REV
ENG.WARC03685-01	CB	TP	0

OFFICE: EBA-WHSE

DATE: September 9, 2019

Figure 2

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APPENDIX A
LIMITATIONS ON THE USE OF THIS DOCUMENT

LIMITATIONS ON USE OF THIS DOCUMENT

GEOTECHNICAL

1.1 USE OF DOCUMENT AND OWNERSHIP

This document pertains to a specific site, a specific development, and a specific scope of work. The document may include plans, drawings, profiles and other supporting documents that collectively constitute the document (the "Professional Document").

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Where NELPCO has expressly authorized the use of the Professional Document by a third party (an "Authorized Party"), consideration for such authorization is the Authorized Party's acceptance of these Limitations on Use of this Document as well as any limitations on liability contained in the Contract with the Client (all of which is collectively termed the "Limitations on Liability"). The Authorized Party should carefully review both these Limitations on Use of this Document and the Contract prior to making any use of the Professional Document. Any use made of the Professional Document by an Authorized Party constitutes the Authorized Party's express acceptance of, and agreement to, the Limitations on Liability.

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Where NELPCO submits electronic file and/or hard copy versions of the Professional Document or any drawings or other project-related documents and deliverables (collectively termed NELPCO's "Instruments of Professional Service"), only the signed and/or sealed versions shall be considered final. The original signed and/or sealed electronic file and/or hard copy version archived by NELPCO shall be deemed to be the original. NELPCO will archive a protected digital copy of the original signed and/or sealed version for a period of 10 years.

Both electronic file and/or hard copy versions of NELPCO's Instruments of Professional Service shall not, under any circumstances, be altered by any party except NELPCO. NELPCO's Instruments of Professional Service will be used only and exactly as submitted by NELPCO.

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

1.3 STANDARD OF CARE

Services performed by NELPCO for the Professional Document have been conducted in accordance with the Contract, in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions in the jurisdiction in which the services are provided. Professional judgment has been applied in developing the conclusions and/or recommendations provided in this Professional Document. No warranty or guarantee, express or implied, is made concerning the test results, comments, recommendations, or any other portion of the Professional Document.

If any error or omission is detected by the Client or an Authorized Party, the error or omission must be immediately brought to the attention of NELPCO.

1.4 DISCLOSURE OF INFORMATION BY CLIENT

The Client acknowledges that it has fully cooperated with NELPCO with respect to the provision of all available information on the past, present, and proposed conditions on the site, including historical information respecting the use of the site. The Client further acknowledges that in order for NELPCO to properly provide the services contracted for in the Contract, NELPCO has relied upon the Client with respect to both the full disclosure and accuracy of any such information.

1.5 INFORMATION PROVIDED TO NELPCO BY OTHERS

During the performance of the work and the preparation of this Professional Document, NELPCO may have relied on information provided by third parties other than the Client.

While NELPCO endeavours to verify the accuracy of such information, NELPCO accepts no responsibility for the accuracy or the reliability of such information even where inaccurate or unreliable information impacts any recommendations, design or other deliverables and causes the Client or an Authorized Party loss or damage.

1.6 GENERAL LIMITATIONS OF DOCUMENT

This Professional Document is based solely on the conditions presented and the data available to NELPCO at the time the data were collected in the field or gathered from available databases.

The Client, and any Authorized Party, acknowledges that the Professional Document is based on limited data and that the conclusions, opinions, and recommendations contained in the Professional Document are the result of the application of professional judgment to such limited data.

The Professional Document is not applicable to any other sites, nor should it be relied upon for types of development other than those to which it refers. Any variation from the site conditions present, or variation in assumed conditions which might form the basis of design or recommendations as outlined in this document, at or on the development proposed as of the date of the Professional Document requires a supplementary exploration, investigation, and assessment.

NELPCO is neither qualified to, nor is it making, any recommendations with respect to the purchase, sale, investment or development of the property, the decisions on which are the sole responsibility of the Client.

1.7 ENVIRONMENTAL AND REGULATORY ISSUES

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

1.8 NATURE AND EXACTNESS OF SOIL AND ROCK DESCRIPTIONS

Classification and identification of soils and rocks are based upon commonly accepted systems, methods and standards 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. NELPCO 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.

1.9 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.

1.10 STRATIGRAPHIC AND GEOLOGICAL INFORMATION

The stratigraphic and geological information indicated on drawings contained in this report are inferred from logs of test holes and/or soil/rock exposures. Stratigraphy is known only at the locations of the test hole or exposure. Actual geology and stratigraphy between test holes and/or exposures may vary from that shown on these drawings. Natural variations in geological conditions are inherent and are a function of the historical environment. NELPCO 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 exploration and review may be necessary.

1.11 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.

1.12 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.

1.13 INFLUENCE OF CONSTRUCTION ACTIVITY

Construction activity can impact 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, and construction sequence are known.

1.14 OBSERVATIONS DURING CONSTRUCTION

Because of the nature of geological deposits, the judgmental nature of geotechnical engineering, and 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.

1.15 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 satisfactory 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.

1.16 DESIGN PARAMETERS

Bearing capacities for Limit States or Allowable Stress Design, strength/stiffness properties and similar geotechnical design parameters 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 used in this report. Sufficient observations should be made by qualified geotechnical personnel during construction to assure that the soil and/or rock conditions considered in this report in fact exist at the site.

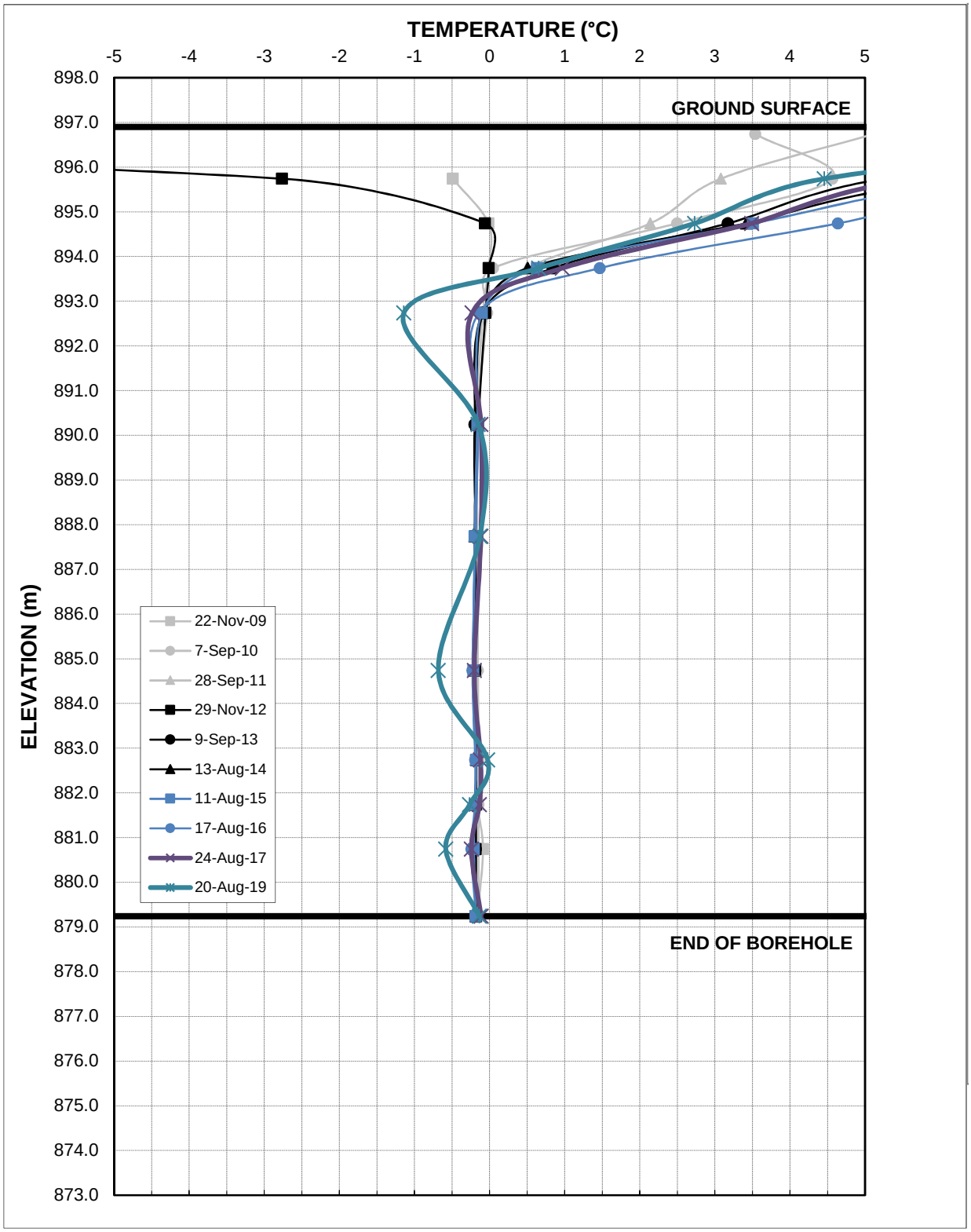
1.17 SAMPLES

NELPCO 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.

1.18 APPLICABLE CODES, STANDARDS, GUIDELINES & BEST PRACTICE

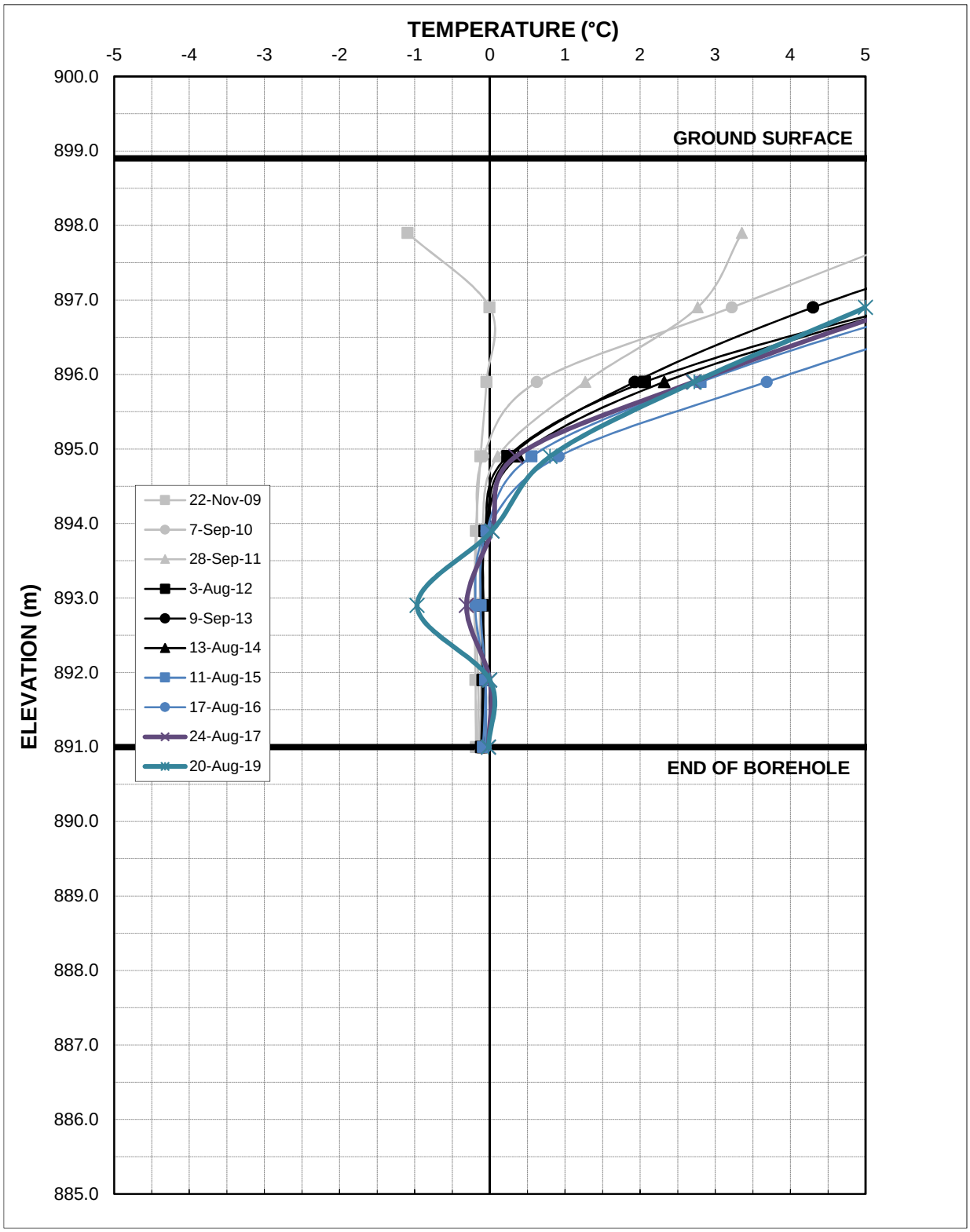
This document has been prepared based on the applicable codes, standards, guidelines or best practice as identified in the report. Some mandated codes, standards and guidelines (such as ASTM, AASHTO Bridge Design/Construction Codes, Canadian Highway Bridge Design Code, National/Provincial Building Codes) are routinely updated and corrections made. NELPCO cannot predict nor be held liable for any such future changes, amendments, errors or omissions in these documents that may have a bearing on the assessment, design or analyses included in this report.

APPENDIX B
DSTF GROUND TEMPERATURE PROFILES



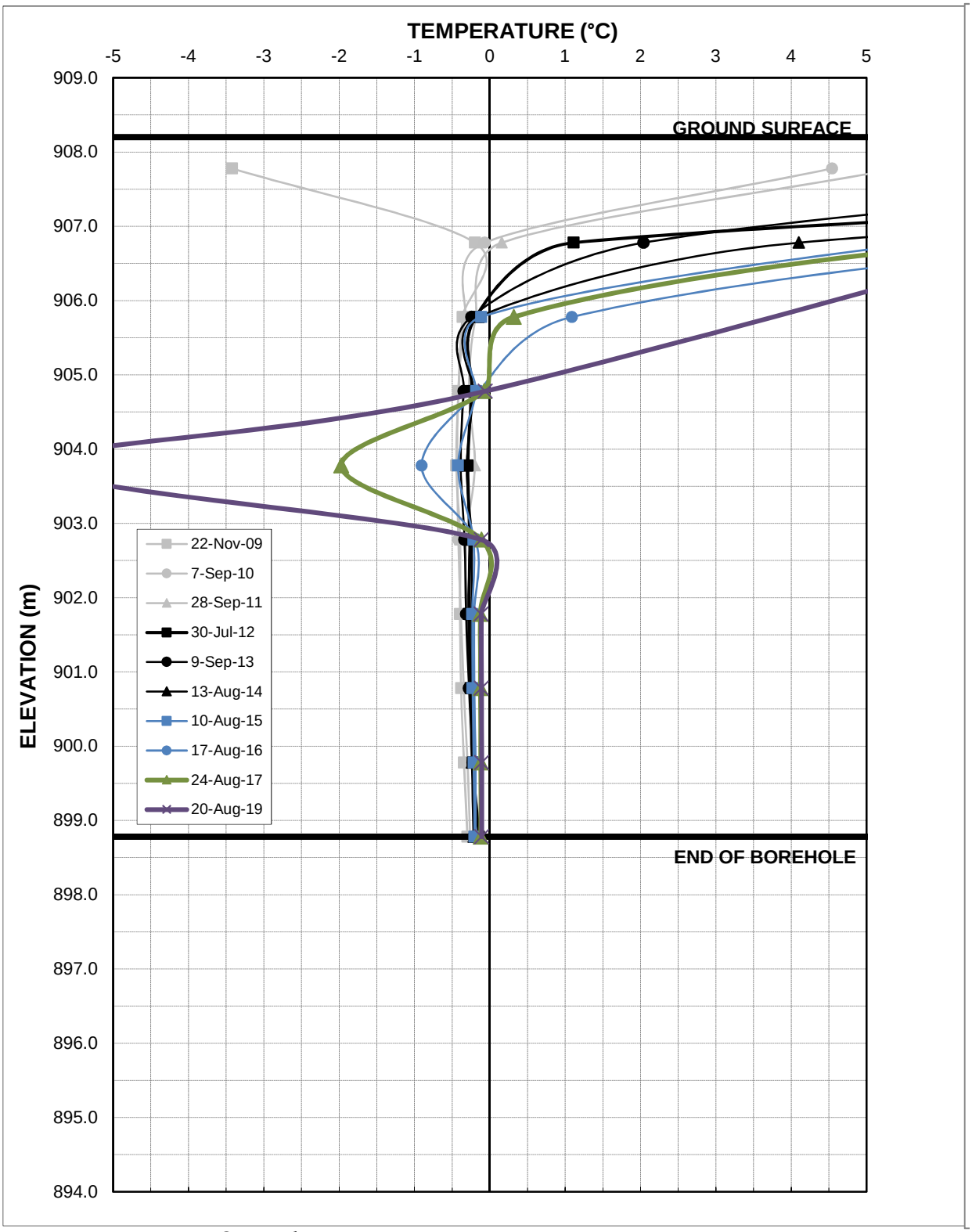
Install Date	August 30, 2009
Last Updated	August 20, 2019
Cable No:	2207

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



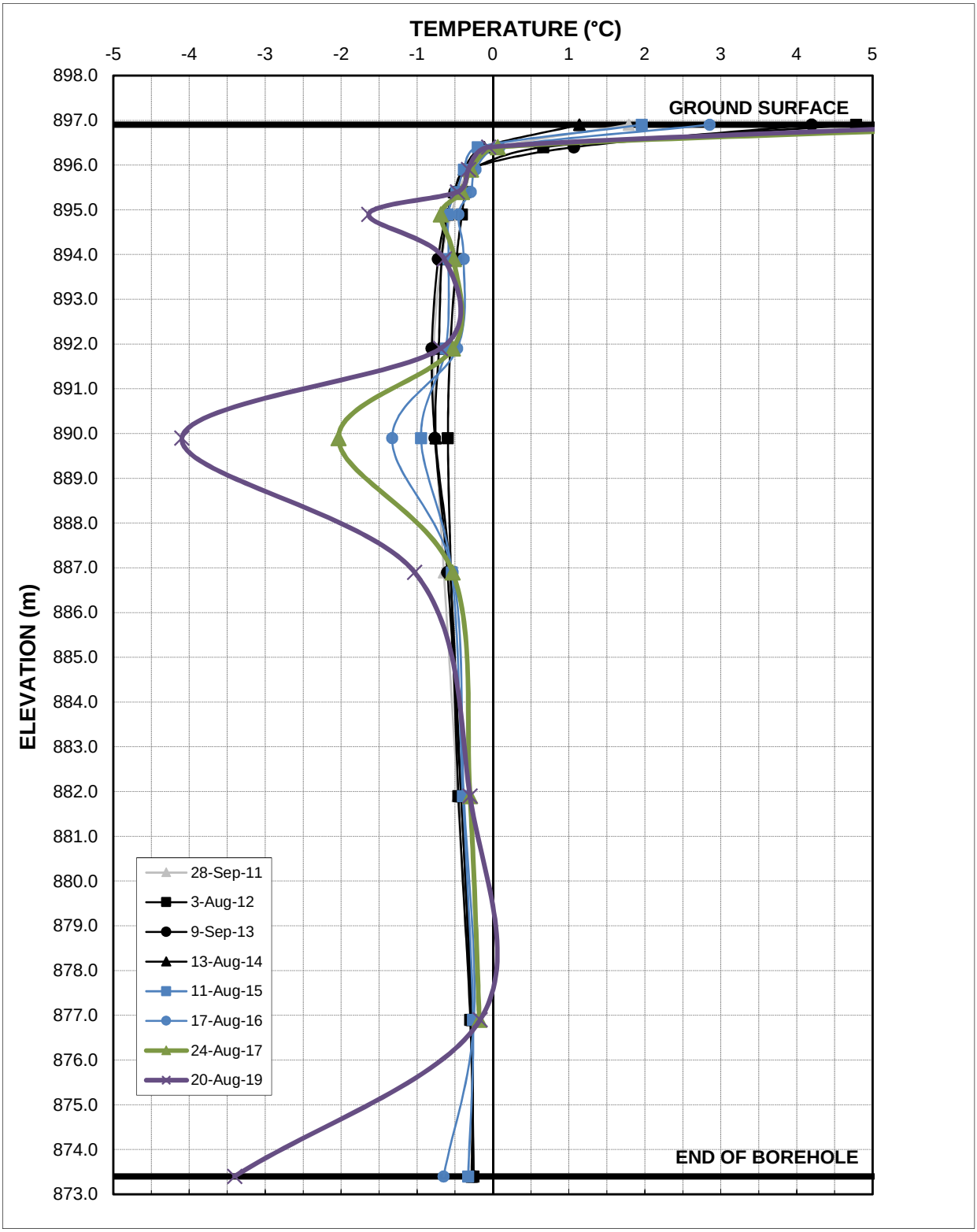
Install Date	September 2, 2009
Last Updated	August 20, 2019
Cable No:	2209

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



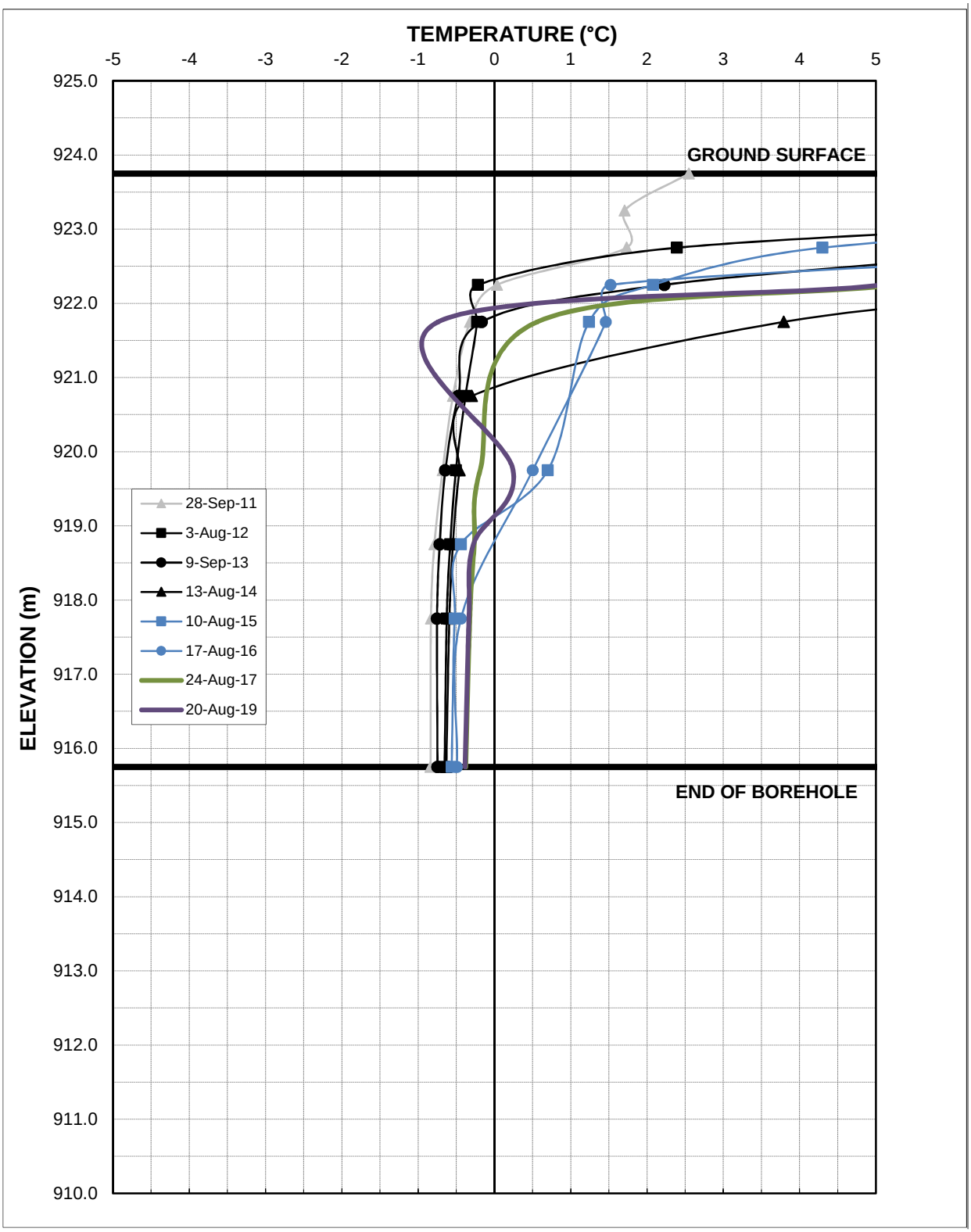
Install Date	September 29, 2009
Last Updated	August 20, 2019
Cable No:	2210

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



Install Date	February 22, 2011
Last Updated	August 20, 2019
Cable No:	2263

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



Install Date	February 22, 2011
Last Updated	August 20, 2019
Cable No:	2264

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

APPENDIX C
DSTF LATERAL MOVEMENT PROFILES

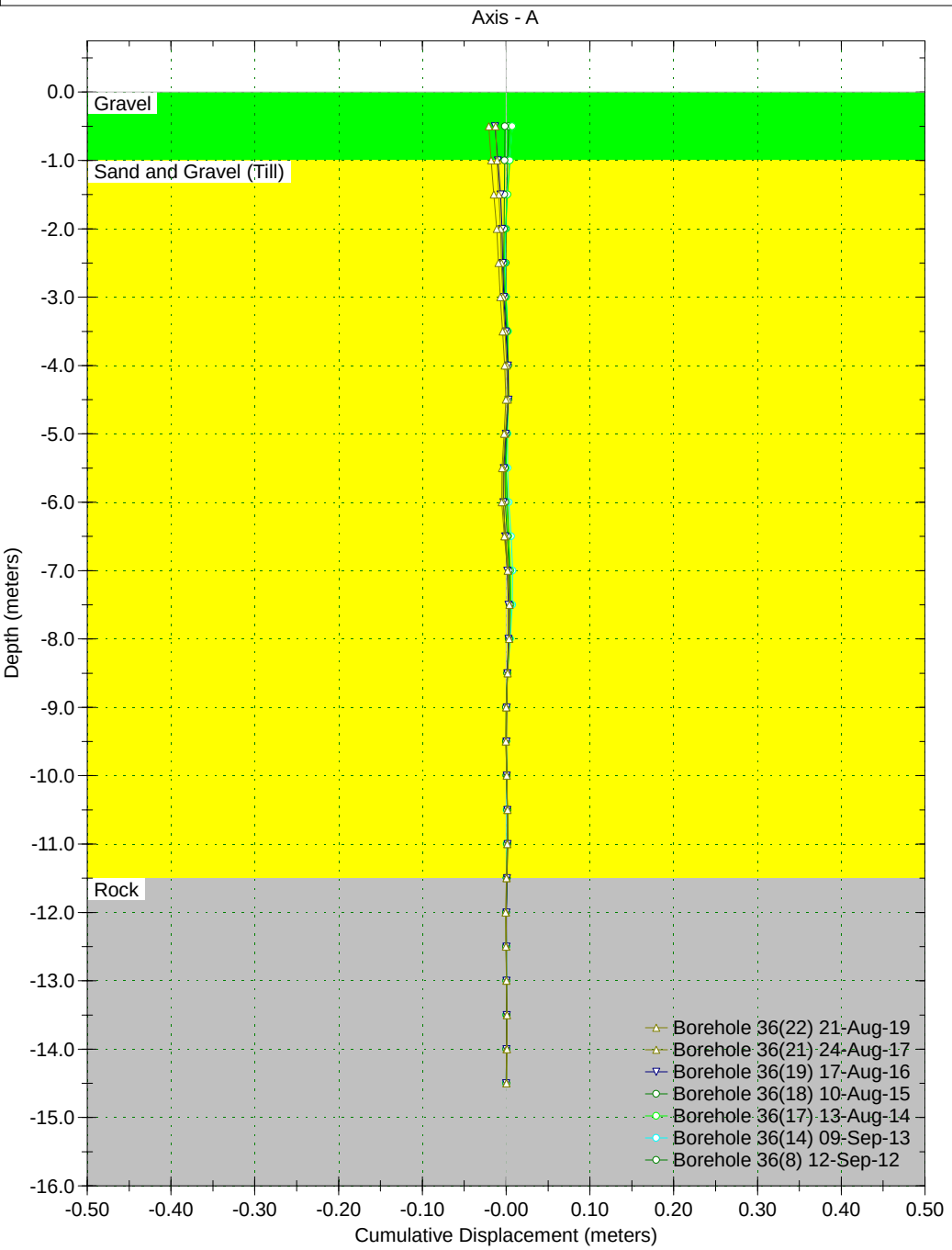
RST Instruments Ltd.

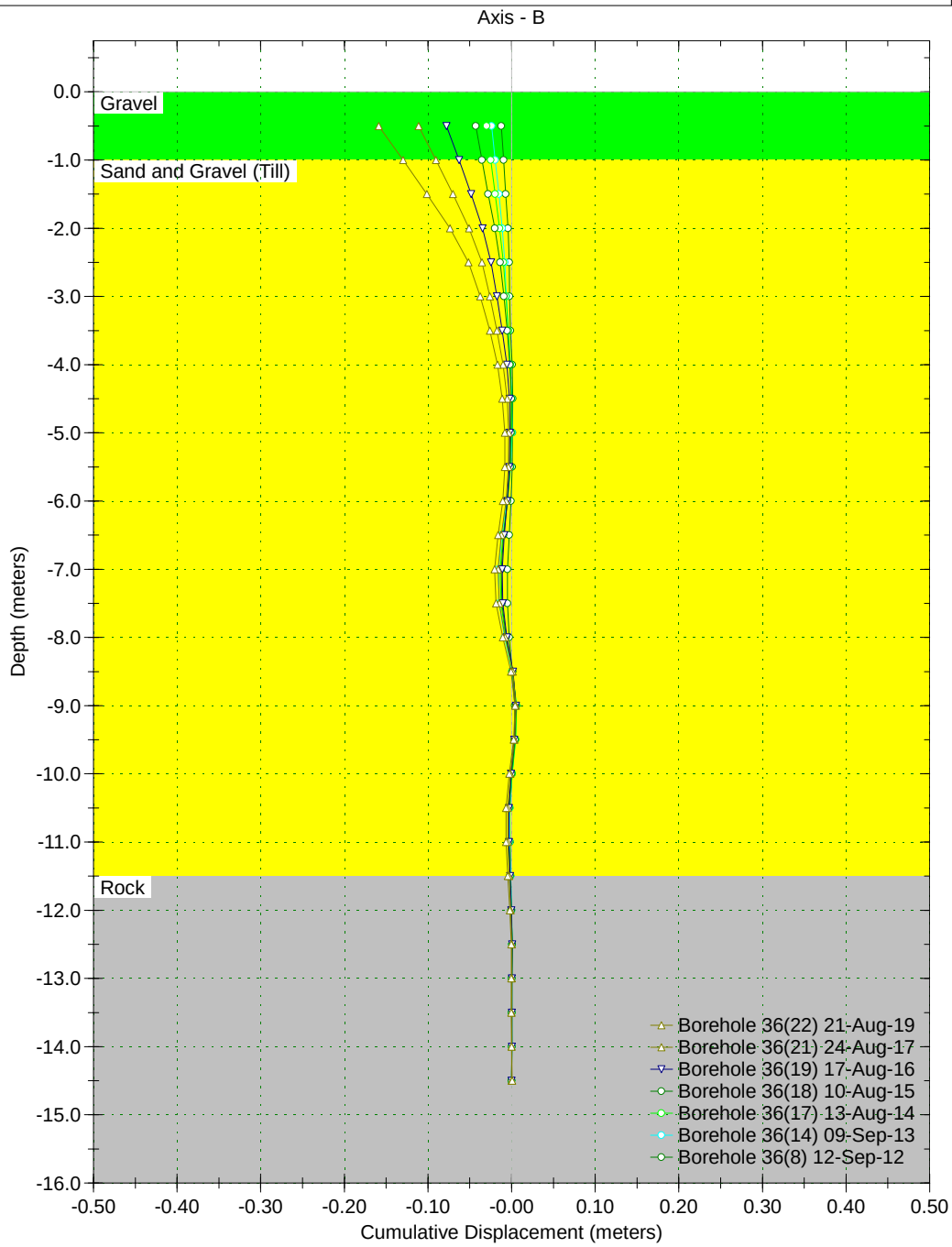
CUMULATIVE DISPLACEMENT

Inclinalysis v. 2.48.7

Borehole : Borehole 36
Project : Keno Hill District Mill
Location : DSTF
Northing : 7086872
Easting : 483931
Collar :

Spiral Correction : N/A
Collar Elevation : 0.00 meters
Reading Depth : 14.5 meters
A+ Groove Azimuth :
Base Reading : 2011 Dec 14 16:52
Applied Azimuth : 0.0 degrees





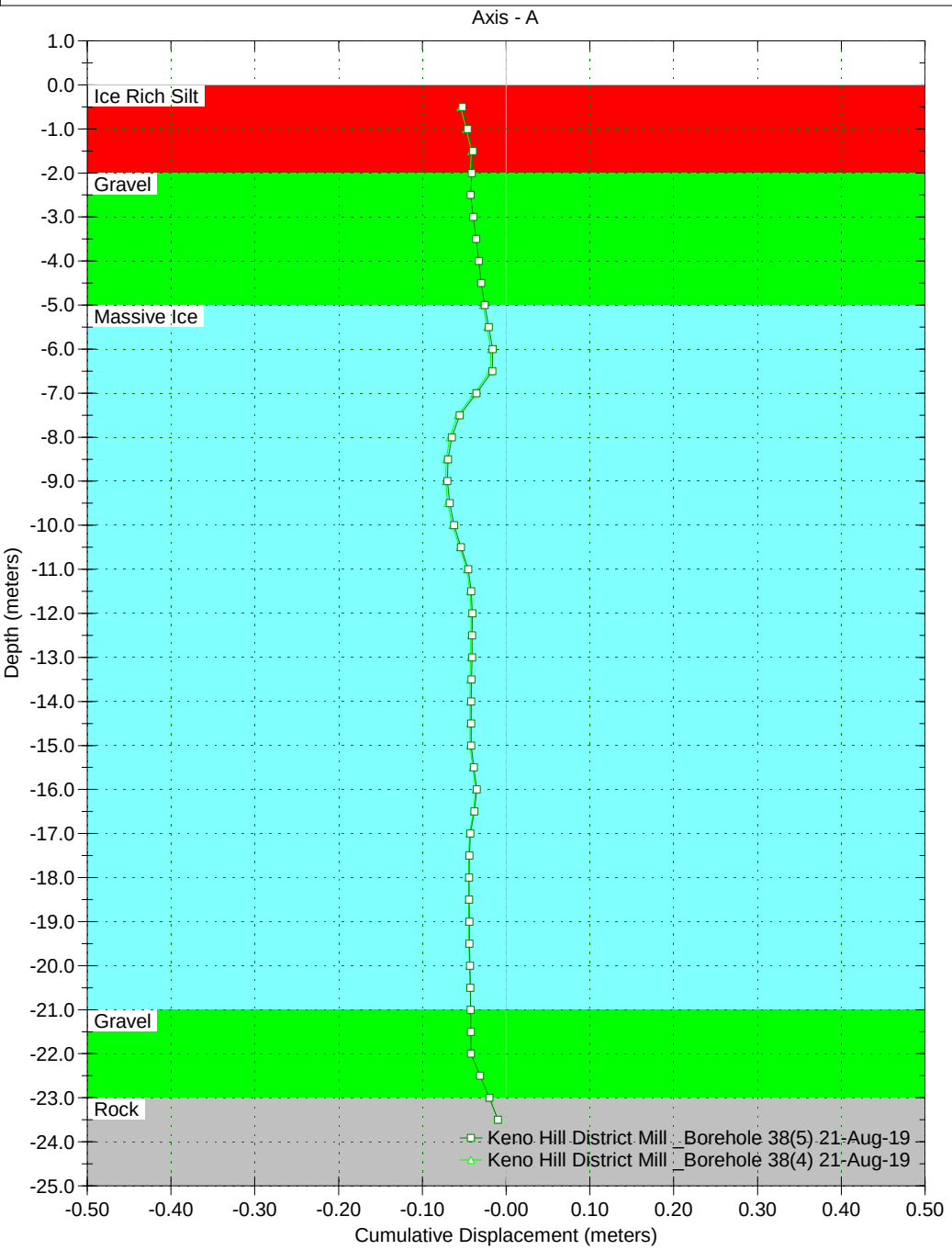
RST Instruments Ltd.

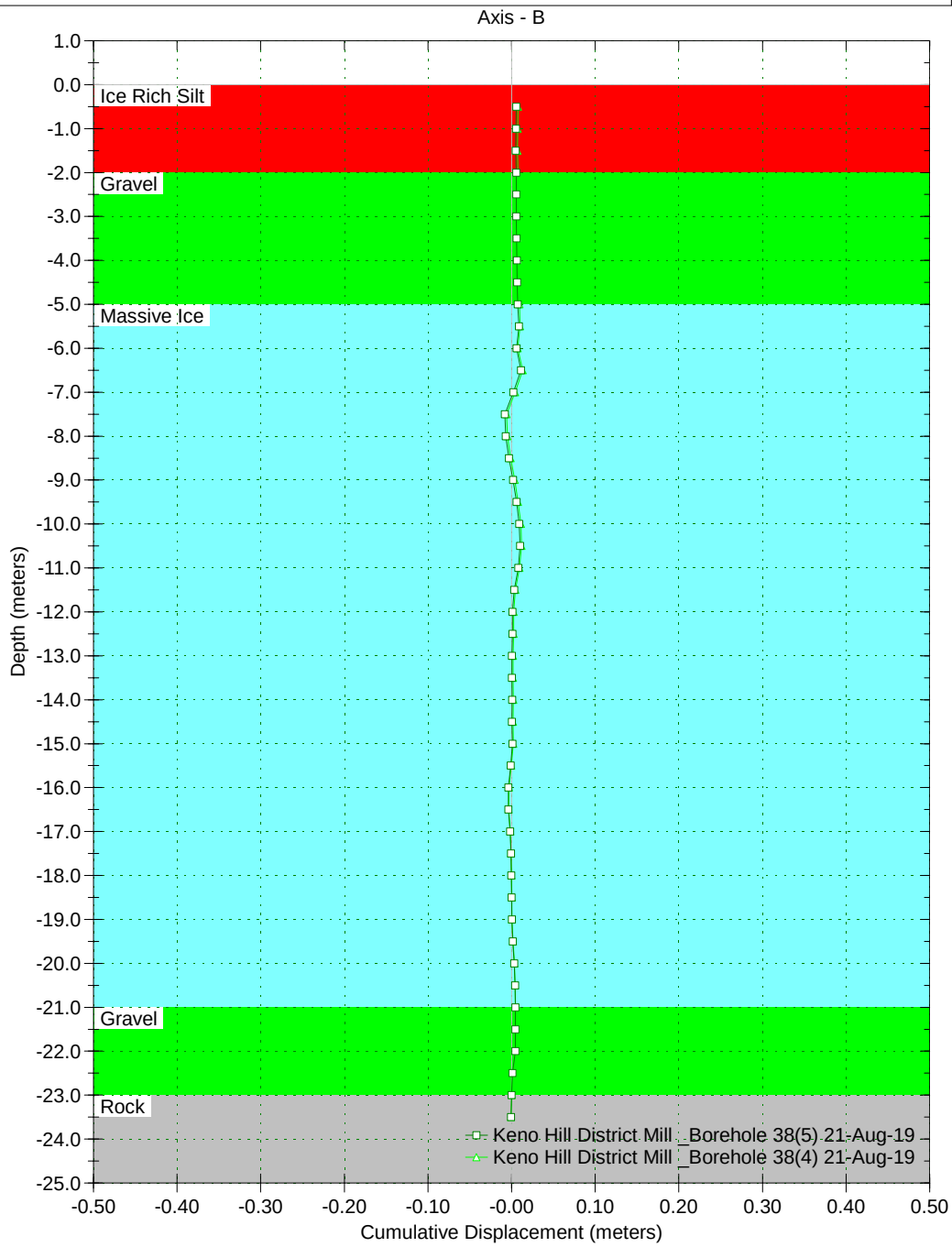
CUMULATIVE DISPLACEMENT

Inclinalysis v. 2.48.7

Borehole : Borehole 38
Project : Keno Hill District Mill
Location : DSTF
Northing : 7087034
Easting : 483969
Collar :

Spiral Correction : N/A
Collar Elevation : 0.00 meters
Reading Depth : 23.5 meters
A+ Groove Azimuth :
Base Reading : 2017 Aug 24 13:06
Applied Azimuth : 0.0 degrees





APPENDIX B

2019 NOISE MONITORING RESULTS

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

Memorandum

To:	Alexco Keno Hill Mining Corp.
From:	Alexco Environmental Group Inc.
CC:	Kai Woloshyn, Alexco Resource Corp.
Date:	March 25, 2020
Re:	2019 Noise Monitoring Data Summary, Keno, YT
Attachment:	A - Keno Noise Monitoring Data September 2013 to November 2014 B - Keno Noise Monitoring Data December 2014 to December 2019

INTRODUCTION

As part of the Keno Hill Silver District Mining Operations Noise Monitoring and Management Plan (the Plan) (AKHM, 2018), Alexco Keno Hill Mining Corp. (AKHM) monitors 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 collected between September 2013 to April 2018 can be used in the context of the no active mining period for the District, but exploration and care and maintenance of the District was ongoing throughout this period. Flame and Moth development occurred from May to October 2018 and then the site returned to care and maintenance for November and December 2018. Data collected in 2019 can be combined with baseline data as no mining development activities took place in 2019 at the Mill or close to Keno City, exploration drilling was undertaken in the Bermingham area. Any other noise activity directly related to the mine would be due to increased helicopter activities in the Mill area in response to the forest fire in the area during July and August 2019.

The predicted noise levels were presented in the Noise Impact Assessment (NIA) completed by Patching Associates Acoustical Engineering Ltd. (PAAE, 2014) 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 up until December 2019 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 2.

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. Sound travels faster through hot air, as it is less dense, humidity has the same effect, dry air absorbs far more acoustical energy. As per Figure 1, noise is expected to travel more efficiently in summer months while the ambient air is warmer and drier.

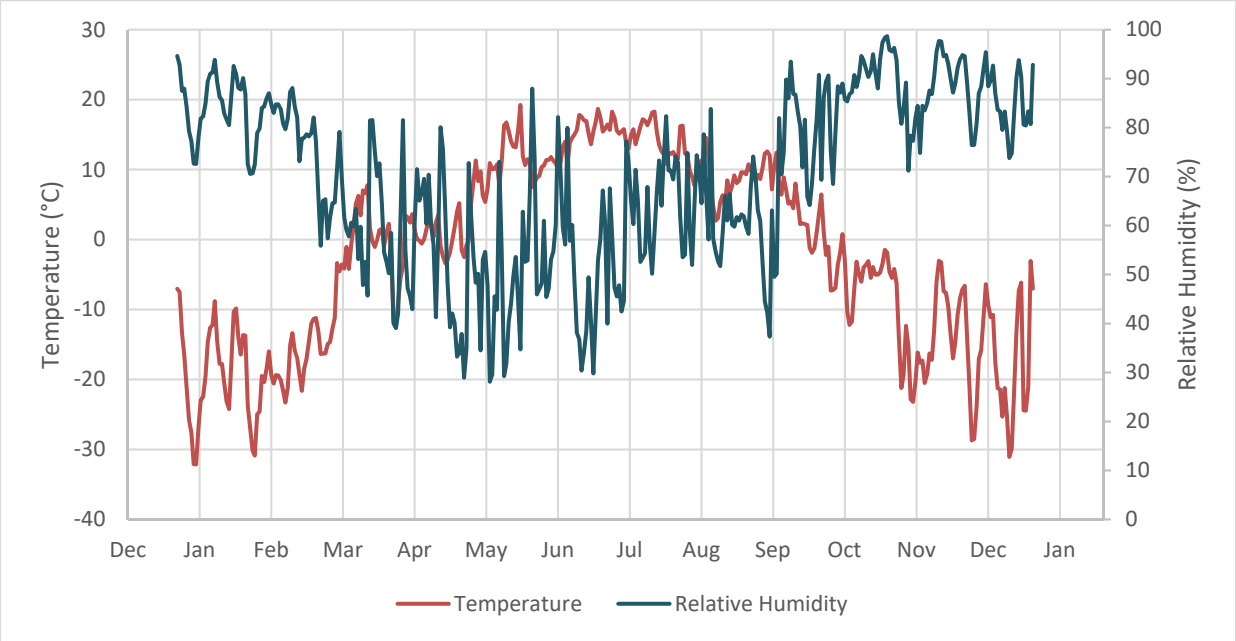


Figure 1: 2019 Daily Temperature and Relative Humidity at District Mill Meteorological Station

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 April 2018, can be considered baseline conditions as no mining or exploration activities were taking place near Keno City at that time. Care and Maintenance as well as preparation of the Flame and Moth water treatment pond occurred in 2017. In 2018, Flame and Moth Development occurred from May to October. In 2019, no mining nor development occurred, some drilling activities occurred in the Bermingham area during the summer months, which is approximately 5 kilometers away from Keno City on Galena Hill.

Care and Maintenance activities associated with the closed mines are minor but ongoing since September 2013, which includes activities such as maintaining roads, and other small construction activities at the mill site.

Satelite imagery obtained from Yukon Geomatics map service http://mapservices.gov.yk.ca/ArcGIS/services on March 2019

Datum: NAD 83; Projection: UTM Zone 8N

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

0 50 100 150 200 250 Meters

Noise Monitoring Station

Adit

Current DSTF

Pond

Mine Feature Footprint

Watercourse

Silver Trail Highway

Secondary Road

AKHM

AEG

ALEXCO KENO HILL MINING CORP.

FIGURE 2

NOISE MONITORING STATIONS

MARCH 2019

D:\Project\AllProjects\Keno_Area_Mines\ALL-SITES\02-Map\04-Studies\Air_Noise_Dust\Air_Quality_NOise_Mill_20190328.mxd
(Last edited by: amatlashevska;28/03/2019/11:06 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.

- In 2017, a combination of equipment malfunction, equipment vandalism, and very cold temperatures only allowed for 24 hr period noise data collection in June, July and November.

- In 2018, similar issues were encountered early in the year, samples were collected from March to December 2018.

- In 2019, a total of 57 successful recording out of 65 attempted recordings from January to December 2019. Some of the mis-recordings are due to battery issues, cold temperatures and technical difficulties.

RESULTS

In 2019, a total of 57 24-hr period sampling events took place. The LA_{eq} values for all of these measurements ranged from 19.8 to 115 dB, with a median of 39.4 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} values exceeds the LAF_{10} value for 25 out of 57 measurements (44%), indicating that these 24-hr noise monitoring events are characterized by short-term events and not general background levels, this proportion of measurement is significantly less than 2018, which could be due to increased sampling frequency in 2019, hence reporting a more representative dataset. 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 20dB) or if the LA_{eq} indicates a very steady noise background level (difference less than 5 dB).

Data collected in 2019 is considered baseline, as there was no mining nor development activity on site. Some exploration drilling took place in the Bermingham area, about 5 kilometers away from the closest noise monitoring station. Increased helicopter activities closer to Keno City were mandatory due to forest fire suppression efforts in July and early August 2019.

Approximately 51% of the LA_{eq} measurements in 2019 exceeded the predicted levels from the NIA range (from 32 to 39 dB). Baseline noise levels were greater than those predicted in the NIA on several occasions between 2014 and 2016 as well, indicating that many of the notable noise sources are not linked to Keno mining or milling operations. 2019 had a higher sampling rate than previous years, which is contributing to a better overall assessment of the background noise of the area.

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 2019, calibration drift remained smaller than ±3dB for all of the 24-hr sampling events.

Table 2 presents all 24-hr period noise data available in 2019 (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 ten-minute noise data measurements are provided in Appendix A. Appendix B presents all the available 24-hr noise data to date, from December 2014 to December 2019.

All 24-hr noise recording results from 2014 to 2019 are presented with the Noise Impact Assessment

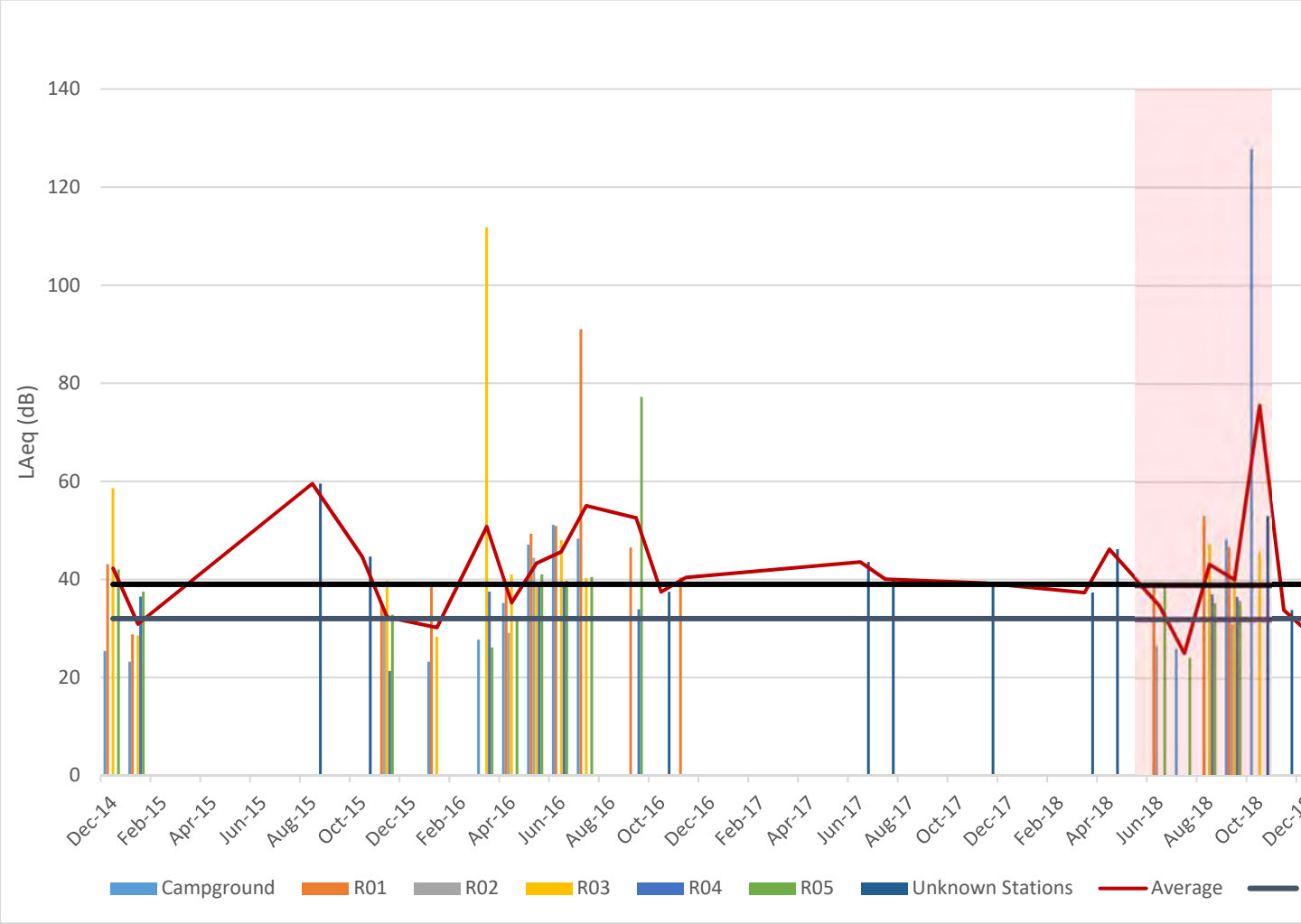


Figure 3. PAAE had estimated that the Predicted Sound Levels with both ambient and day-time activities associated with the mine would be from 32dBA at R03 to a maximum of 39dBA at R01. PAAE had also predicted an increase above current sound levels associated with the activity changes in Flame and Moth to be a maximum of 2dB at R04 for both day-time and nighttime conditions. NIA is

presented in all the following figures as a minimum of 32dBA and a maximum of 39dBA. As seen in

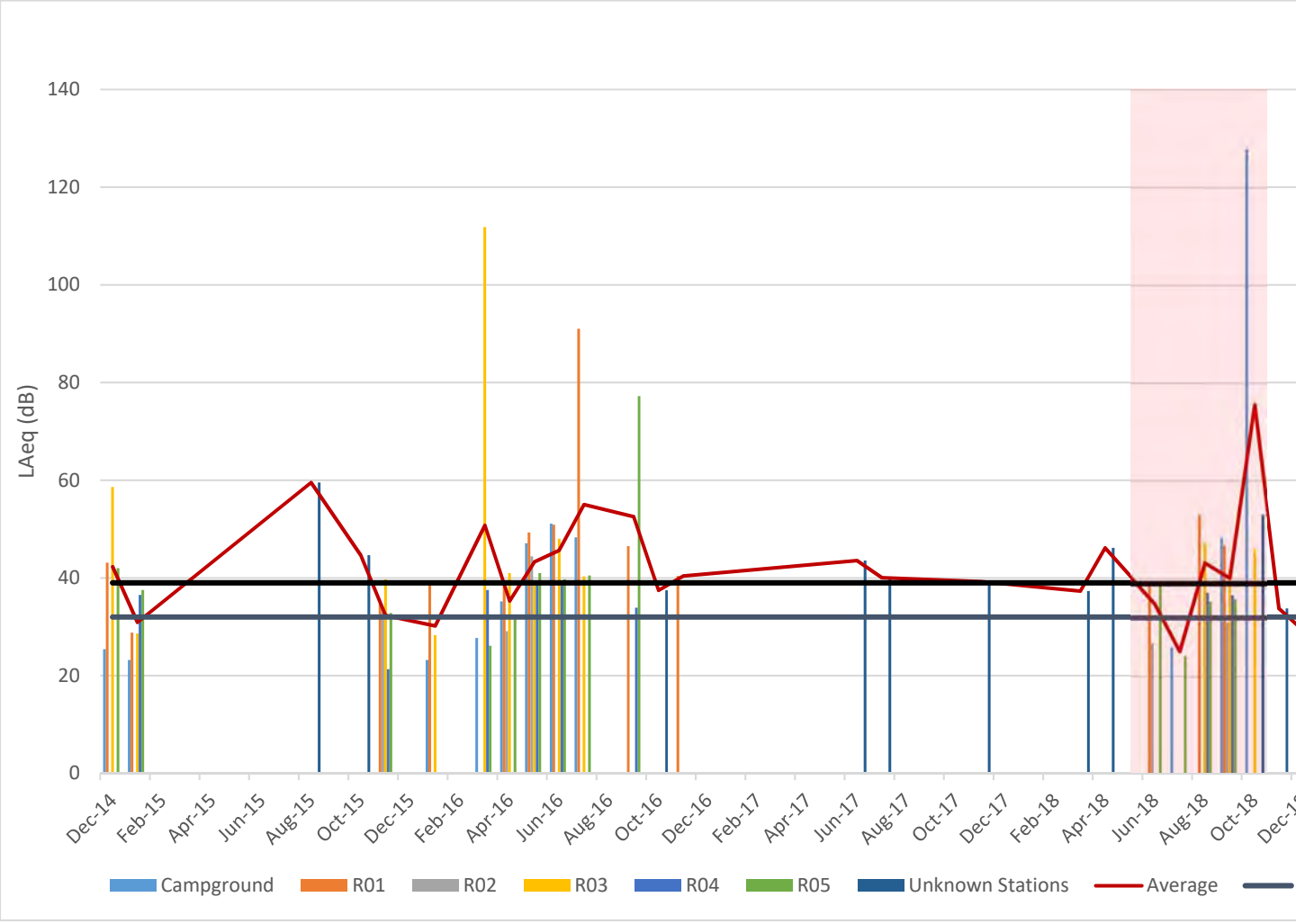


Figure 3, the baseline data shows that PAAE overestimated noise levels during winter months when fewer activities are occurring and underestimated the summertime continuous noise levels.

Some of the dataset did not have records for the station they were collected at, for those days we averaged the LAeq values for the month and placed them under "unknown station".

Figure 4 presents the current conditions measured in 2019 with NIA levels, there was an unusually high record at the R05 station on April 15, 2019. LAF 10% are also presented in the figure, LAF is the measured sound pressure levels, or in other terms it measures the peaks in the continuous measurement. For example, LAF 10% is a measurement of frequent noisy occurrences such as steady road traffic. When the LAeq values exceed the LAF 10% values, it indicates the presence of significant short-term loud events.

In 2018, a portion of the underground Flame and Moth decline was developed, hence blasting activities, material transportation and surface facility construction took place. May 2018 to October 2018 are considered

operation noise data. As such, noise data collected before May 2018 or after October 2018 were considered baseline noise levels.

Table 2. 2019 24-hr Noise Data and Corresponding Meteorological Data

Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF 10	LAeq - LAF 90% (dB)	Lzeq (dB)	LAleq (dB)	LAE (dB)	LCeq (dB)	LCeq-LAeq (dB)	Calibration Drift (dB)	Temp. (°C)	R.H. (%)	Avg. WS (m/s)
Campground	2019-01-25 15:20	22.5	22	17	Yes	5.5	44.6	28	71.9	37.9	15.4	-0.3	-10.1	92.8	0.00
Campground	2019-02-23 15:25	20.5	19	17	Yes	3.5	37.2	23.7	69.8	31.1	10.6	0.1	-21.5	77.9	0.95
R01	2019-01-29 13:00	40.6	41	40	No	0.6	50.1	40.8	84.2	39.6	-1	-0.2	-16.4	87.8	0.41
R01	2019-02-24 16:35	43.2	43.5	42	No	1.2	51.5	43.2	92.5	41.5	-1.7	0.1	-18.4	77.8	0.75
R02	2019-01-30 15:00	39.7	39	38.5	Yes	1.2	51.3	40	80.1	43.6	3.9	1	-13.4	90.3	0.26
R02	2019-02-27 15:00	23.3	18.5	17	Yes	6.3	44.8	29.5	72.7	34.1	10.8	-0.3	-12.0	78.8	0.53
R03	2019-01-24 12:05	53.4	58	42	No	11.4	70.1	54.9	102.7	68	14.6	0.2	-17.58	86.5	0.00
R03	2019-02-28 16:00	37.5	42	17	No	20.5	50.4	38.8	86.8	46.7	9.2	0	-11.3	82.2	0.62
R03	2019-03-05 13:20	41.3	44	17.5	No	23.8	52.2	42.2	89	45	3.7	-0.9	-16.2	65.0	0.92
R03	2019-03-07 13:20	37.5	41.5	17	No	20.5	53.1	38.6	75.1	44.6	7.1	-0.9	-14.9	57.5	0.92
R03 Failed	2019-02-21 8:45	24.3	27	17	No	7.3	47.4	26	73.1	32.6	8.3	-0.4			
R04	2019-01-31 16:30	39.4	40	39	No	0.4	50	39.5	76.4	39.9	0.5	1	-14.2	86.1	1.62
R04	2019-02-26 13:35	31.4	21	17.5	Yes	13.9	41.6	34.7	80.7	38.5	7.1	-0.2	-14.4	78.2	0.60
R05	2019-01-23 11:20	19.8	19.5	17	Yes	2.8	37.7	22.9	69.2	29.1	9.3	-0.2	-23.93	80.8	0.00
R03	2019-02-22 13:25	40.3	31	17.5	Yes	22.8	55.6	41.6	82.2	53.7	13.4	-0.4	-19.3	73.1	1.33
R05	2019-02-21 8:45	24.3	27	17	No	7.3	47.4	26	73.1	32.6	8.3	-0.4	-16.9	82.0	1.66
R03	2019-03-07 16:51	28.3	21	17	Yes	11.3	48.8	30.4	70.6	45.4	17.1	0.2	-14.7	61.6	1.20
R05	2019-04-15 17:30	115	117.5	110	No	5	124.2	117.6	164.4	120.2	5.2	-0.3	-0.6	66.6	1.37
R04	2019-04-16 18:22	27	30	20.5	No	6.5	52.3	31.3	63.3	44.7	17.7	0.1	0.0	69.5	1.11
R04	2019-04-19 9:45	39.2	35.5	21.5	Yes	17.7	61.8	42.6	88.5	55.7	16.5	-0.4	2.2	60.1	2.27
R03	2019-04-20 10:30	45.1	39.5	21.5	Yes	23.6	65.3	48.4	94.5	58.8	13.7	-0.1	0.4	56.1	1.84
R01	2019-04-25 12:30	41.8	40.5	18.5	Yes	23.3	59.6	43.6	91.1	58.6	16.8	0.2	-3.4	63.4	1.63
R01	2019-05-01 11:30	34.8	38	21	No	13.8	55.9	38.8	84.2	48.1	13.3	0.1	5.2	33.9	2.95
Campground	2019-05-10 14:30	48.5	44.5	42	Yes	6.5	63.9	58.8	97.8	53.7	5.2	0	9.7	34.5	2.51
R03	2019-05-23 13:30	56.4	45.5	27	Yes	29.4	83.2	68.8	105.7	74.6	18.2	0	14.0	44.2	1.57
R05	2019-05-07 10:55	33	35	19	No	14	54.7	35.3	82.4	43.6	10.6	0.1	8.3	53.5	1.82
R04	2019-05-09 11:15	33.6	34	20.5	No	13.1	67.4	35.7	82.9	52.5	18.9	0.1	8.4	50.1	2.35
R04	2019-06-26 13:15	38.3	33.5	21.5	Yes	16.8	58.1	42.9	87.6	46.4	8.1	0.2	15.2	49.4	1.96
R05	2019-06-27 13:15	35.5	39	23.5	No	12	50.3	36.3	81.1	40.9	5.4	-0.2	15.4	29.8	1.64
R02	2019-06-28 13:50	45.2	45.5	44.5	No	0.7	50.8	45.8	91.5	47.7	2.5	1.7	16.8	41.7	1.12
Campground	2019-07-11 14:20	53.5	40	37	Yes	16.5	67.9	62.3	102.9	65.9	12.4	-0.1	13.6	77.2	1.23
R01	2019-07-16 14:45	37.7	38.5	26.5	No	11.2	52.6	39.8	87	50.3	12.6	-0.1	14.8	64.7	1.54
R04	2019-07-04 13:25	39.4	32.5	20.5	Yes	18.9	53.9	47.1	88.7	43	3.6	0.1	15.7	67.6	1.42

Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF 10	LAeq - LAF 90% (dB)	Lzeq (dB)	LAleq (dB)	LAE (dB)	LCeq (dB)	LCeq-LAeq (dB)	Calibration Drift (dB)	Temp. (˚C)	R.H. (%)	Avg. WS (m/s)
R05	2019-08-22 13:20	35.4	39	19.5	No	15.9	49.2	37	79	42.7	7.3	0	4.8	66.0	1.20
R04	2019-08-23 13:50	39.2	33	22.5	Yes	16.7	55	43	83.5	46.4	7.2	0.1	8.5	61.0	1.22
R03	2019-08-27 14:20	39.1	39	23.5	Yes	15.6	60.7	42.6	84.8	53.6	14.5	-0.1	8.1	61.7	1.89
R02	2019-08-28 14:40	45.5	44	43	Yes	2.5	60.3	47.2	91.1	52.9	7.4	0	8.4	61.0	1.56
R04	2019-09-18 11:35	59.8	58.5	22.5	Yes	37.3	69.7	72.4	109.1	63.1	3.3	-0.3	5.1	86.0	1.53
R03	2019-09-19 14:05	43.4	45.5	24.5	No	18.9	67.9	51.8	92.7	62.4	19	0.1	5.4	93.5	1.03
R01	2019-09-24 13:40	38.3	39	26.5	No	11.8	50.5	39.7	87.7	49.4	11.1	-0.1	2.3	71.9	1.30
R05	2019-09-25 15:15	32.6	35	26	No	6.6	44.2	34.2	78.7	43.3	10.7	0	2.2	81.6	0.85
R02	2019-09-27 13:30	45.8	45.5	44.5	Yes	1.3	61.1	46.7	84.8	51	5.2	0.4	-1.2	64.2	1.42
R04	2019-10-17 13:00	29.6	28.5	20.5	Yes	9.1	46.8	35.4	79	40.4	10.8	-0.3	-3.2	88.3	0.77
R05	2019-10-22 13:15	23.7	26	19	No	4.7	43.8	26.5	73.1	30.7	7	0.1	-3.1	90.4	0.93
R01	2019-10-23 13:50	49.8	40	39	Yes	10.8	53.9	51.1	99.1	51.1	1.3	-0.1	-5.5	91.5	1.02
R02	2019-10-24 14:50	36.7	37	36	No	0.7	49.6	37.2	86	37.8	1.1	-0.4	-3.9	95.0	0.78
R03	2019-10-25 15:55	24.3	22.5	19	Yes	5.3	42.6	32.6	71.8	38.9	14.6	0.1	-5.0	91.2	0.98
Campground	2019-10-31 11:30	34.4	35	32.5	No	1.9	42.2	36.9	83.8	38.4	4	-0.4	-4.6	95.9	0.93
Campground	2019-11-14 13:15	21	23	17	No	4	41.8	24.8	70.4	32.6	11.6	0.2	-17.3	84.4	0.90
R03	2019-11-20 12:10	40.6	23.5	17.5	Yes	23.1	47.3	43.6	89.9	44.3	3.7	0.1	-6.0	95.5	0.80
R04	2019-11-15 11:50	43.4	45	18.5	No	24.9	50.9	44.5	92.8	42.5	-0.9	0.1	-21.2	80.8	0.69
R04	2019-12-13 17:18	64.5	66	59	No	5.5	67	71.5	85.3	66	1.5	0.3	-11.1	89.6	0.35
R03	2019-12-17 12:30	42.4	45	17.5	No	24.9	50.6	42.4	91.7	42.2	-0.2	-0.3	-21.4	83.3	0.21
R05	2019-12-19 13:50	46.9	47.5	46.5	No	0.4	54.5	46.9	96.2	45	-1.9	0.3	-21.2	83.3	0.63
R01	2019-12-25 13:50	39.9	43.5	18.5	No	21.4	67.3	40.4	89.2	52.5	12.6	0.1	-7.3	93.7	1.20
R02	2019-12-27 14:10	46.3	47	45.5	No	0.8	54.7	46.4	95.7	44.5	-1.8	0.4	-24.4	80.6	1.43

* Station location was not recorded
** Flame and Moth Meteorological Station was down, Galena Hill Meteorological Station values was used

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

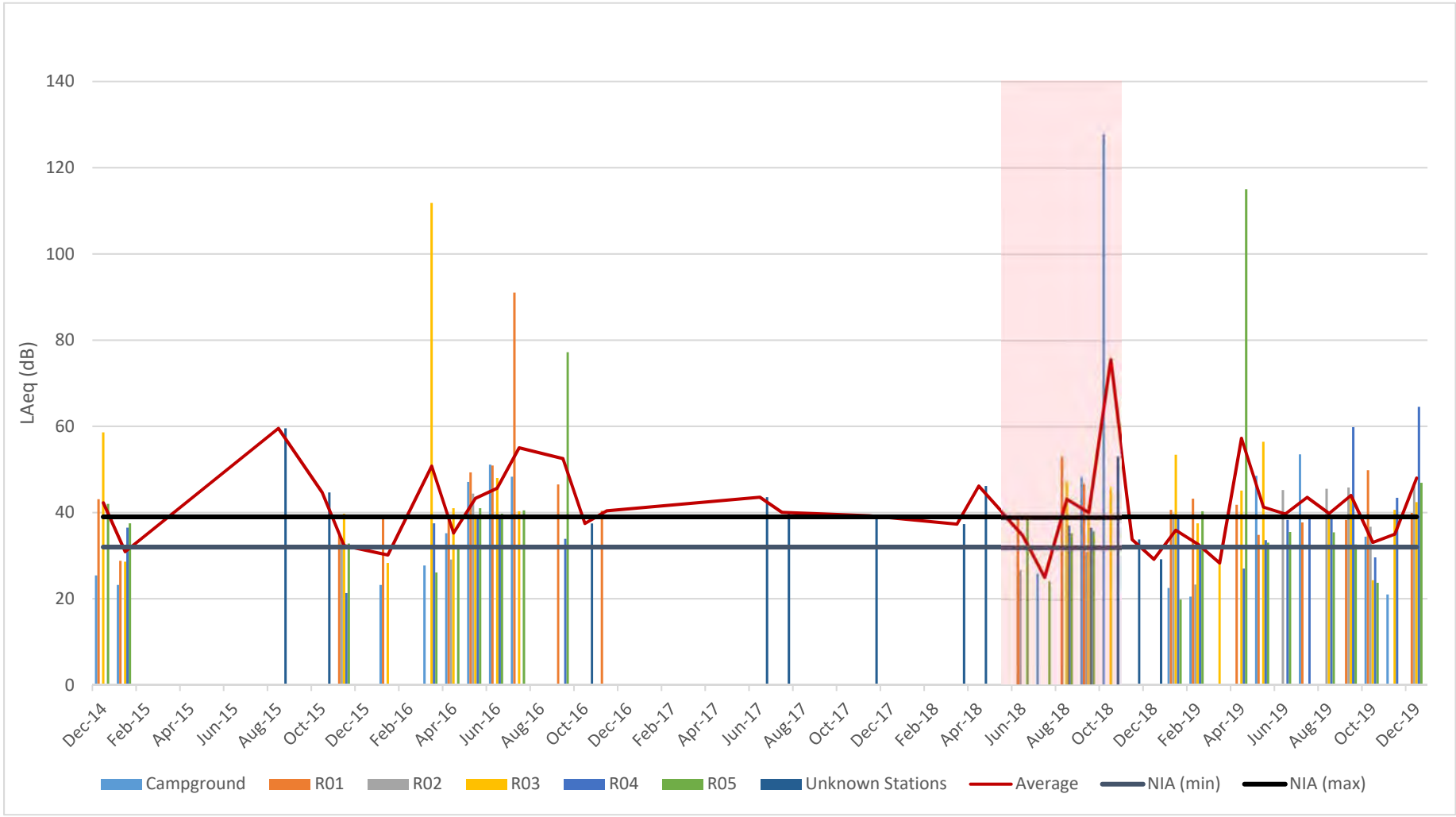


Figure 3: LAeq 24-hr Available Noise Data (December 2014 – December 2019)

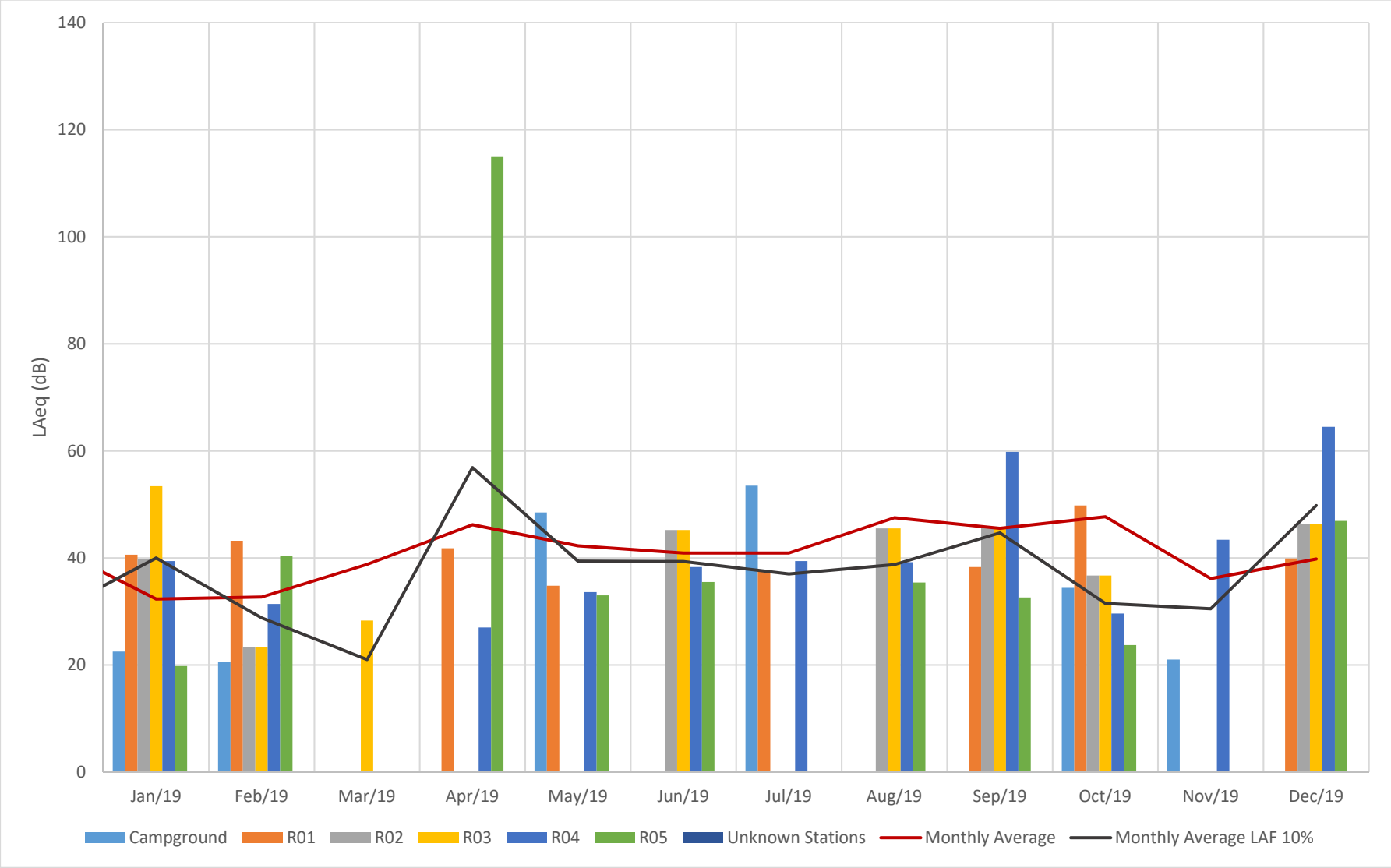


Figure 4: 2019 Noise Levels and Monthly Average

NOISE COMPLAINTS

No formal noise complaints were received by AKHM in 2019.

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, apart from one anomalous data point recorded on April 15, 2019. NIA values developed in 2014 were found to be generally overestimated in winter months and underestimated in summer months but provide a valid measure to analyze against. As no mining activity took place in 2019, the year was considered baseline noise data. 51% of the total 24-hr recordings exceeded maximum NIA threshold of 39db, generally occurring from April to September. 44% of the recordings exceeded their LAF 10%, which indicates that the 24-hr monitoring events are characterized by short-term events and not the background noise levels. 16 of these events were exceeding maximum NIA level and their LAF 10% values. Continued accurate 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, January 2018

Patching Associates Acoustical Engineering Ltd. (PAAE). 2014. Noise Impact Assessment Update, Alexco Keno Hill Mining Corp., Proposed Flame and Moth Mine Project, Yukon Territory. Prepared for Yukon Environmental and Socio-Economic Assessment Board (YESAB), September 23, 2014.

ATTACHMENT A

Keno Noise Monitoring Data September 2013 to November 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.)

ATTACHMENT B

Keno Noise Monitoring Data December 2014 to December 2019

Table 1. 2014-2019, 24-hr Noise Data and Corresponding Meteorological Data

Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF 10	LAeq - LAF 90% (dB)	Lzeq (dB)	LAleq (dB)	LAE (dB)	LCeq (dB)	LCeq-LAeq (dB)	Calibration Drift (dB)	Temp. (˚C)	R.H. (%)	Avg. WS (m/s)
R01	12/14/2014 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	12/15/2014 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	12/17/2014 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	12/18/2014 10:30	42	N/A	N/A			50.6	45.2	91.3	48.5	6.6	-4.8	-13.6	90.7	0.60
Campground	12/22/2014 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	1/10/2015 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	1/11/2015 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	1/13/2015 8:40	28.6	N/A	N/A			40.7	31.6	78	37.9	9.3	---.-	-7.3	95.3	n/a
R04	1/14/2015 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	1/15/2015 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
Campground	1/22/2015 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	8/13/2015 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	8/14/2015 13:30	111.8	116	45.5	No	66.30	123.9	119.1	161.2	118	6.2	0.3	9.7	68.4	1.68
N/A	8/16/2015 14:00	49.2	48	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	8/23/2015 11:00	60.6	61	60	No	0.60	62.7	61.2	110	62	1.4	0.3	8.3	84.0	1.38
N/A	8/24/2015 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	9/12/2015 10:00	---.-	8.5	8			---.-	---.-	57.7	---.-	-1.1	0.3	4.6	79.4	1.73
N/A	9/14/2015 10:15	---.-	8.5	8			---.-	---.-	57.7	---.-	-1.1	0.3	3.3	87.8	1.00
N/A	9/15/2015 10:30	---.-	8.5	8			---.-	---.-	57.7	---.-	-1.1	0.3	1.4	93.6	1.09
N/A	9/17/2015 6:00	---.-	8.5	8			---.-	---.-	57.7	---.-	-1.1	0.3	5.2	84.6	1.58
N/A	9/18/2015 13:15	---.-	8.5	8			---.-	---.-	57.6	---.-	-1.1	0.3	2.5	81.2	1.65
N/A	10/17/2015 12:40	30.4	31.5	20	No	10.40	44.8	35.8	79.8	40.5	10.1	0.3	3.3	94.8	0.76
N/A	10/18/2015 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	11/14/2015 11:30	32.8	17	15	Yes	17.80	42.4	33.6	82.2	39.2	6.4	0.3	-18.4	86.5	n/a
R01	11/16/2015 8:30	34.7	19.5	16	Yes	18.70	51.2	37	84	49.2	14.5	0.3	-17.4	87.3	n/a
R04	11/17/2015 10:00	21.3	18	15.5	Yes	5.80	46.4	27.3	70.6	36.3	15	0.3	-21.0	83.9	n/a
R02	11/19/2015 9:00	33.1	16	15.5	Yes	17.60	46.9	40.3	82.4	44.2	11.1	0.3	-28.4	76.7	n/a
R03	11/21/2015 9:40	39.7	17.5	16	Yes	23.70	47.8	46	89	46.3	6.6	0.3	-9.0	94.0	n/a
Campground	1/7/2016 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	1/8/2016 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	1/9/2016 19:30	39	20	15.5	Yes	23.50	48.9	41.7	88.4	79.3	6.4	-0.2	-14.6	89.7	0.51

Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF 10	LAeq - LAF 90% (dB)	Lzeq (dB)	LAleq (dB)	LAE (dB)	LCeq (dB)	LCeq-LAeq (dB)	Calibration Drift (dB)	Temp. (˚C)	R.H. (%)	Avg. WS (m/s)
R05	1/10/2016 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	1/14/2016 17:00	25.4	17	15.5	Yes	9.90	36.5	33.6	74.7	68.1	6.6	0.1	-8.1	94.5	n/a
R04	2/15/2016 17:00	25.5	19	15.5	Yes	10.00	48.5	33.9	74.9	68.1	6.3	0.3	-7.8	89.0	1.12
R03	2/17/2016 10:00	23.9	19	15	Yes	8.90	40.3	30.2	73.3	66.8	11.6	-2.1	-22.9	77.9	0.45
Ball diamond	2/25/2016 9:00	---.-	18.5	15.5	Yes		43.7	24.4	69.3	56.2	9.2	-0.2	-5.5	81.4	1.27
R01	2/28/2016 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	3/12/2016 17:30	37.5	25	15.5	Yes	22.00	56.9	44.4	86.8	82	3.8	0.4	-5.3	62.8	1.03
N/A	3/14/2016 10:32	44.9	24	21	Yes	23.90	49	48.2	94.2	91.6	2.9	0.1	-7.6	88.2	0.87
R05	3/15/2016 11:32	26.1	22	17	Yes	9.10	56.1	32.5	75.5	65.4	13.8	-0.1	-6.2	91.4	0.86
R03	3/17/2016 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
Campground	3/18/2016 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	4/1/2016 15:00	54.4	46	30.5	Yes	23.90	61.6	64.7	103.7	108.5	4.9	0.2	3.5	67.2	1.25
R05	4/15/2016 11:46	31.9	30	18	Yes	13.90	54.3	34.4	81.2	67.1	9.1	-0.1	3.2	63.6	1.51
R03	4/16/2016 13:00	41	34.5	17	Yes	24.00	60.8	43.7	90.4	75.3	12.1	----	3.7	57.2	1.56
R04	4/18/2016 15:30	28	27	17	Yes	11.00	56.3	36.1	77.4	72	11.9	-0.1	0.5	64.2	1.73
R02	4/23/2016 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
Campground	4/24/2016 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	4/25/2016 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	5/15/2016 8:40	49.3	50.5	48	No	1.30	57.5	49.7	98.7	66.3	3.3	-0.1	12.2	47.4	2.30
R02	5/16/2016 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	5/18/2016 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	5/19/2016 14:15	39.2	34	21.5	Yes	17.70	59.5	46.8	88.6	81	6.3	-0.2	10.3	56.7	1.57
Campground	5/21/2016 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	5/22/2016 11:30	41	44	30.5	No	10.50	52.8	42.8	90.4	69.9	10.3	-0.2	9.9	66.2	1.72
R01	6/13/2016 8:40	50.9	51	50	No	0.90	53.8	54.5	100.2	85.4	2.5	----	11.1	78.0	1.63
R05	6/19/2016 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	6/20/2016 13:40	38.5	34	21	Yes	17.50	55.6	48.8	87.9	82.7	10	0.1	10.3	79.6	1.47
R03	6/29/2016 13:00	48	44	22.5	Yes	25.50	61	53.6	97.3	91.1	10.8	-0.2	15.5	67.8	1.35
Campground	6/30/2016 18:00	51.1	51	15.5	Yes	35.60	57	60.1	100.5	95.4	5	0.1	12.7	83.3	0.69

Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF 10	LAeq - LAF 90% (dB)	Lzeq (dB)	LAleq (dB)	LAE (dB)	LCeq (dB)	LCeq-LAeq (dB)	Calibration Drift (dB)	Temp. (˚C)	R.H. (%)	Avg. WS (m/s)
R05	7/17/2016 8:30	40.5	42	30.5	No	10.00	52.9	43.3	89.9	75.8	8.9	----	14.8	64.6	2.50
Campground	7/18/2016 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	7/30/2016 19:30	40.3	38.5	27	Yes	13.30	61.1	46.4	89.7	84.8	14	----	13.7	69.0	2.00
R01	7/31/2016 20:00	91	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	8/18/2016 16:35	94.1	71	35	Yes	59.10	109.9	101.7	143.5	132.6	7.9	-0.2	9.6	87.0	0.84
N/A	8/20/2016 13:00	38.1	40	29	No	9.10	52.3	40.5	87.4	75.3	10.4	0.1	10.6	72.3	1.55
Campground	9/21/2016 17:05	44.3	46	40.5	No	3.80	59.3	47.9	93.7	77.5	5.1	----	10.1	36.8	2.63
R01	9/22/2016 17:51	46.5	47	45	No	1.50	64.8	46.9	95.8	72.8	5.2	0.1	7.2	56.4	2.47
R04	9/23/2016 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	9/24/2016 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	9/28/2016 15:30	37	31	22.5	Yes	14.50	58.5	39.8	86.3	77.2	13.7	----	1.0	66.7	1.90
N/A	10/25/2016 10:00	36	35.5	26	Yes	10.00	63.4	40.8	85.3	81	22.3	-0.1	-15.2	89.0	0.54
N/A	10/26/2016 11:00	33.2	34.5	25	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
*	6/22/2017 13:15	42	31.5	21.5	Yes	20.50	55.6	49.9	91.4	52.7	10.7	-0.2	13.3	61.6	1.41
*	6/27/2017 9:05	42.2	41	28.5	Yes	13.70	50.8	50.6	91.6	49	6.8	-0.1	12.6	65.2	1.89
*	6/28/2017 13:50	46.5	44.5	42	Yes	4.50	52.6	54.7	95.9	51.6	5.1	0.1	13.2	67.1	1.60
*	7/23/2017 11:30	43.7	41	25	Yes	18.70	61.7	47.5	93.1	56.2	12.5	-0.1	17.0	56.1	2.12
*	7/24/2017 12:30	36.4	36.5	22	No	14.40	64	40.3	85.8	50.7	14.3	-3.3	17.0	57.0	2.00
*	11/17/2017 9:00	41.5					53	43	90.9	46.9	5.3	----	-21.5	82.8	0.34
*	11/22/2017 9:00	37					46.8	38.6	86.3	37.9	0.9	----	-28.8	75.8	0.14
*	3/29/2018 8:30	35.2	31.5	21.5	Yes	13.70	65	42.6	84.5	54.1	18.9	0	-11.81	41.95	1.528
*	3/30/2018 13:30	39.4	39.5	20.5	Yes	18.90	68	44.7	88.8	56.5	17.1	0.1	-11.04	42.03	1.777
*	4/3/2018 13:20	44.7	47.5	19.5	Yes	25.20	75.4	48.4	91.9	35.2	20.5	0.1	-11.97	46.03	2.376
*	4/5/2018 15:20	47.6	49.5	18.5	Yes	29.10	78.3	51.8	89.1	68.1	20.5	-0.3	-13.63	49.47	1.492
R05	6/14/2018 20:43	42.4					38.6	28.9	71.5	37.4	11.4	-5.7	10.38	52.95	1.735
R02	6/19/2018 17:49	26.8					40.9	26.9	69.2	34.7	10.5	-5.7	17.37	45.09	2.106
R05	6/21/2018 0:54	34.5					50.6	51.3	84	49.4	10.1	-5.7	16.89	55.76	1.465
R01	6/26/2018 16:35	39.2					51.3	38	79.5	50	15.5	0	11.25	71.78	1.378

Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF 10	LAeq - LAF 90% (dB)	Lzeq (dB)	LAleq (dB)	LAE (dB)	LCeq (dB)	LCeq-LAeq (dB)	Calibration Drift (dB)	Temp. (˚C)	R.H. (%)	Avg. WS (m/s)
R05	7/19/2018 0:18	24.2					43.4	31.4	72.1	40.6	13.8	-3.1	11.6	64.17	1.296
Campground	7/24/2018 19:55	26					73.5	49	85.9	66.1	23.7	0.1	17.31	52.87	1.168
R05	8/28/2018 11:20	35.3	35.5	23.5	Yes	11.80	57.3	39.9	84.7	46.4	11.1	-0.2	10.14	81	1.122
R04	8/29/2018 12:45	37.1	32.5	23.5	Yes	13.60	62.3	41.1	86.4	50.5	13.4	0.1	8.32	75.54	1.403
R01	8/30/2018 13:45	53.1	53.5	52.5	Yes	0.60	57.4	54.6	102.4	55.9	12.8	-0.1	6.677	74.66	1.461
R03	8/31/2018 15:15	47.4	46	29.5	Yes	17.90	65.9	55.2	96.8	60	12.6	-0.1	4.117	90.7	0.981
R04	9/3/2018 17:23	36.6	36	24.5	Yes	12.10	64.6	43	86	52	15.4	0	4.126	70	2.098
Campground	9/5/2018 12:35	48.4	47.5	47	Yes	1.40	56.8	53.3	97.8	54.2	5.8	-0.1	7.083	73	1.366
R03	9/6/2018 12:55	42.2	42	25.5	Yes	16.70	65.5	52.2	94.5	56.6	11.4	0	5.046	89.4	0.595
R01	9/7/2018 18:20	46.8	47	45	Yes	1.80	62.7	47.6	96.2	55.1	8.3	0	4.749	85.5	1.072
R02	9/9/2018 7:50	31	30.5	20.5	Yes	10.50	59.1	36.3	80.4	49.2	18.2	-0.1	4.741	65.15	2.25
R05	9/10/2018 8:10	35.7	36.5	24.5	Yes	11.20	63.1	38.5	85.1	50	14.3	0.2	5.578	57.21	1.196
*	02/10/2018 17:41	35.6	41.5	19		16.60	56.5	38.1	77	47.1	11.5	0	1.4	43.8	1.57
*	05/10/2018 18:55	39.5	33.5	20	Yes	19.50	64.8	43.4	88.9	52	12.5	0	-2.7	56.5	1.15
*	07/10/2018 08:00	45.9	40.5	21	Yes	24.90	64.7	53.1	95.3	63.3	17.4	-0.2	-3.5	53.8	2.26
*	08/10/2018 08:27	127.8	129.5	124		3.80	131.1	128.5	177.1	129.3	1.5	0.3	-7.2	65.2	1.29
*	10/10/2018 10:00	45	30	17.5	Yes	27.50	58	46	94.3	54.9	9.9	0.3	**	**	**
*	24/10/2018 10:00	38.8	32	24.5	Yes	14.30	52.3	41.1	88.1	48	9.2	-0.5	3.3	79.2	1.89
*	25/10/2018 10:35	39.1	40	21.5		17.60	68.3	44.3	88.5	54.7	15.6	0	4.6	57.8	2.95
*	18/11/2018 17:35	35.9	23	19	Yes	16.90	50.6	41.3	85.3	47.1	11.2	-0.2	-16.5	79.7	0.85
*	19/11/2018 18:20	25.7	21.5	18	Yes	7.70	51.8	29.8	75.1	41.5	15.8	-0.1	-11.6	91.6	0.36
*	21/11/2018 08:34	40.7	19	17	Yes	23.70	55.3	43.1	90	54.1	13.4	0.6	0.1	96.3	0.44
*	28/11/2018 13:05	27.6	23.5	18.5	Yes	9.10	42.5	29.2	76.9	40.5	12.9	-0.4	0.7	82.0	1.78
*	30/11/2018 13:05	38.8	37	37	Yes	1.80	52.6	39.6	88.2	49.2	10.4	-0.3	-4.1	96.9	0.29
*	11/12/2018 07:01	41.3	40	19.5	Yes	21.80	69.9	47	90.6	56.7	15.4	-0.4	-3.6	84.1	1.43
*	12/12/2018 09:01	37.6	37.5	37	Yes	0.60	54.7	37.9	86.9	42.3	4.7	0.2	-3.1	81.9	1.90
*	13/12/2018 09:24	39.4	38	38	Yes	1.40	52.4	42.7	79.1	40.4	1	0.2	-11.5	90.5	0.90
*	27/12/2018 13:50	7.5	8	7.5		0.00	12.7	7.7	50.6	6.6	-0.9	0.2	-23.4	81.1	0.38
*	29/12/2018 14:50	20	21.5	17.5		2.50	37.7	20.9	61.6	30.9	10.9	-0.3	-14.6	89.1	0.16

Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF 10	LAeq - LAF 90% (dB)	Lzeq (dB)	LAleq (dB)	LAE (dB)	LCeq (dB)	LCeq-LAeq (dB)	Calibration Drift (dB)	Temp. (˚C)	R.H. (%)	Avg. WS (m/s)
Campground	2019-01-25 15:20	22.5	22	17	Yes	5.5	44.6	28	71.9	37.9	15.4	-0.3	-10.1	92.8	0.00
Campground	2019-02-23 15:25	20.5	19	17	Yes	3.5	37.2	23.7	69.8	31.1	10.6	0.1	-21.5	77.9	0.95
R01	2019-01-29 13:00	40.6	41	40	No	0.6	50.1	40.8	84.2	39.6	-1	-0.2	-16.4	87.8	0.41
R01	2019-02-24 16:35	43.2	43.5	42	No	1.2	51.5	43.2	92.5	41.5	-1.7	0.1	-18.4	77.8	0.75
R02	2019-01-30 15:00	39.7	39	38.5	Yes	1.2	51.3	40	80.1	43.6	3.9	1	-13.4	90.3	0.26
R02	2019-02-27 15:00	23.3	18.5	17	Yes	6.3	44.8	29.5	72.7	34.1	10.8	-0.3	-12.0	78.8	0.53
R03	2019-01-24 12:05	53.4	58	42	No	11.4	70.1	54.9	102.7	68	14.6	0.2	-17.58	86.5	0.00
R03	2019-02-28 16:00	37.5	42	17	No	20.5	50.4	38.8	86.8	46.7	9.2	0	-11.3	82.2	0.62
R03	2019-03-05 13:20	41.3	44	17.5	No	23.8	52.2	42.2	89	45	3.7	-0.9	-16.2	65.0	0.92
R03	2019-03-07 13:20	37.5	41.5	17	No	20.5	53.1	38.6	75.1	44.6	7.1	-0.9	-14.9	57.5	0.92
R03 Failed	2019-02-21 8:45	24.3	27	17	No	7.3	47.4	26	73.1	32.6	8.3	-0.4			
R04	2019-01-31 16:30	39.4	40	39	No	0.4	50	39.5	76.4	39.9	0.5	1	-14.2	86.1	1.62
R04	2019-02-26 13:35	31.4	21	17.5	Yes	13.9	41.6	34.7	80.7	38.5	7.1	-0.2	-14.4	78.2	0.60
R05	2019-01-23 11:20	19.8	19.5	17	Yes	2.8	37.7	22.9	69.2	29.1	9.3	-0.2	-23.93	80.8	0.00
R03	2019-02-22 13:25	40.3	31	17.5	Yes	22.8	55.6	41.6	82.2	53.7	13.4	-0.4	-19.3	73.1	1.33
R05	2019-02-21 8:45	24.3	27	17	No	7.3	47.4	26	73.1	32.6	8.3	-0.4	-16.9	82.0	1.66
R03	2019-03-07 16:51	28.3	21	17	Yes	11.3	48.8	30.4	70.6	45.4	17.1	0.2	-14.7	61.6	1.20
R05	2019-04-15 17:30	115	117.5	110	No	5	124.2	117.6	164.4	120.2	5.2	-0.3	-0.6	66.6	1.37
R04	2019-04-16 18:22	27	30	20.5	No	6.5	52.3	31.3	63.3	44.7	17.7	0.1	0.0	69.5	1.11
R04	2019-04-19 9:45	39.2	35.5	21.5	Yes	17.7	61.8	42.6	88.5	55.7	16.5	-0.4	2.2	60.1	2.27
R03	2019-04-20 10:30	45.1	39.5	21.5	Yes	23.6	65.3	48.4	94.5	58.8	13.7	-0.1	0.4	56.1	1.84
R01	2019-04-25 12:30	41.8	40.5	18.5	Yes	23.3	59.6	43.6	91.1	58.6	16.8	0.2	-3.4	63.4	1.63
R01	2019-05-01 11:30	34.8	38	21	No	13.8	55.9	38.8	84.2	48.1	13.3	0.1	5.2	33.9	2.95
Campground	2019-05-10 14:30	48.5	44.5	42	Yes	6.5	63.9	58.8	97.8	53.7	5.2	0	9.7	34.5	2.51
R03	2019-05-23 13:30	56.4	45.5	27	Yes	29.4	83.2	68.8	105.7	74.6	18.2	0	14.0	44.2	1.57
R05	2019-05-07 10:55	33	35	19	No	14	54.7	35.3	82.4	43.6	10.6	0.1	8.3	53.5	1.82
R04	2019-05-09 11:15	33.6	34	20.5	No	13.1	67.4	35.7	82.9	52.5	18.9	0.1	8.4	50.1	2.35
R04	2019-06-26 13:15	38.3	33.5	21.5	Yes	16.8	58.1	42.9	87.6	46.4	8.1	0.2	15.2	49.4	1.96
R05	2019-06-27 13:15	35.5	39	23.5	No	12	50.3	36.3	81.1	40.9	5.4	-0.2	15.4	29.8	1.64
R02	2019-06-28 13:50	45.2	45.5	44.5	No	0.7	50.8	45.8	91.5	47.7	2.5	1.7	16.8	41.7	1.12
Campground	2019-07-11 14:20	53.5	40	37	Yes	16.5	67.9	62.3	102.9	65.9	12.4	-0.1	13.6	77.2	1.23
R01	2019-07-16 14:45	37.7	38.5	26.5	No	11.2	52.6	39.8	87	50.3	12.6	-0.1	14.8	64.7	1.54
R04	2019-07-04 13:25	39.4	32.5	20.5	Yes	18.9	53.9	47.1	88.7	43	3.6	0.1	15.7	67.6	1.42
R05	2019-08-22 13:20	35.4	39	19.5	No	15.9	49.2	37	79	42.7	7.3	0	4.8	66.0	1.20
R04	2019-08-23 13:50	39.2	33	22.5	Yes	16.7	55	43	83.5	46.4	7.2	0.1	8.5	61.0	1.22

Station	Start Date & Time	LAeq (dB)	LAF 10% (dB)	LAF 90% (dB)	LAeq > LAF 10	LAeq - LAF 90% (dB)	Lzeq (dB)	LAleq (dB)	LAE (dB)	LCeq (dB)	LCeq-LAeq (dB)	Calibration Drift (dB)	Temp. (˚C)	R.H. (%)	Avg. WS (m/s)
R03	2019-08-27 14:20	39.1	39	23.5	Yes	15.6	60.7	42.6	84.8	53.6	14.5	-0.1	8.1	61.7	1.89
R02	2019-08-28 14:40	45.5	44	43	Yes	2.5	60.3	47.2	91.1	52.9	7.4	0	8.4	61.0	1.56
R04	2019-09-18 11:35	59.8	58.5	22.5	Yes	37.3	69.7	72.4	109.1	63.1	3.3	-0.3	5.1	86.0	1.53
R03	2019-09-19 14:05	43.4	45.5	24.5	No	18.9	67.9	51.8	92.7	62.4	19	0.1	5.4	93.5	1.03
R01	2019-09-24 13:40	38.3	39	26.5	No	11.8	50.5	39.7	87.7	49.4	11.1	-0.1	2.3	71.9	1.30
R05	2019-09-25 15:15	32.6	35	26	No	6.6	44.2	34.2	78.7	43.3	10.7	0	2.2	81.6	0.85
R02	2019-09-27 13:30	45.8	45.5	44.5	Yes	1.3	61.1	46.7	84.8	51	5.2	0.4	-1.2	64.2	1.42
R04	2019-10-17 13:00	29.6	28.5	20.5	Yes	9.1	46.8	35.4	79	40.4	10.8	-0.3	-3.2	88.3	0.77
R05	2019-10-22 13:15	23.7	26	19	No	4.7	43.8	26.5	73.1	30.7	7	0.1	-3.1	90.4	0.93
R01	2019-10-23 13:50	49.8	40	39	Yes	10.8	53.9	51.1	99.1	51.1	1.3	-0.1	-5.5	91.5	1.02
R02	2019-10-24 14:50	36.7	37	36	No	0.7	49.6	37.2	86	37.8	1.1	-0.4	-3.9	95.0	0.78
R03	2019-10-25 15:55	24.3	22.5	19	Yes	5.3	42.6	32.6	71.8	38.9	14.6	0.1	-5.0	91.2	0.98
Campground	2019-10-31 11:30	34.4	35	32.5	No	1.9	42.2	36.9	83.8	38.4	4	-0.4	-4.6	95.9	0.93
Campground	2019-11-14 13:15	21	23	17	No	4	41.8	24.8	70.4	32.6	11.6	0.2	-17.3	84.4	0.90
R03	2019-11-20 12:10	40.6	23.5	17.5	Yes	23.1	47.3	43.6	89.9	44.3	3.7	0.1	-6.0	95.5	0.80
R04	2019-11-15 11:50	43.4	45	18.5	No	24.9	50.9	44.5	92.8	42.5	-0.9	0.1	-21.2	80.8	0.69
R04	2019-12-13 17:18	64.5	66	59	No	5.5	67	71.5	85.3	66	1.5	0.3	-11.1	89.6	0.35
R03	2019-12-17 12:30	42.4	45	17.5	No	24.9	50.6	42.4	91.7	42.2	-0.2	-0.3	-21.4	83.3	0.21
R05	2019-12-19 13:50	46.9	47.5	46.5	No	0.4	54.5	46.9	96.2	45	-1.9	0.3	-21.2	83.3	0.63
R01	2019-12-25 13:50	39.9	43.5	18.5	No	21.4	67.3	40.4	89.2	52.5	12.6	0.1	-7.3	93.7	1.20
R02	2019-12-27 14:10	46.3	47	45.5	No	0.8	54.7	46.4	95.7	44.5	-1.8	0.4	-24.4	80.6	1.43

* Station location was not recorded
** Flame and Moth Meteorological Station was down, Galena Hill Meteorological Station values was used

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

APPENDIX C

2019 DUST MONITORING RESULTS

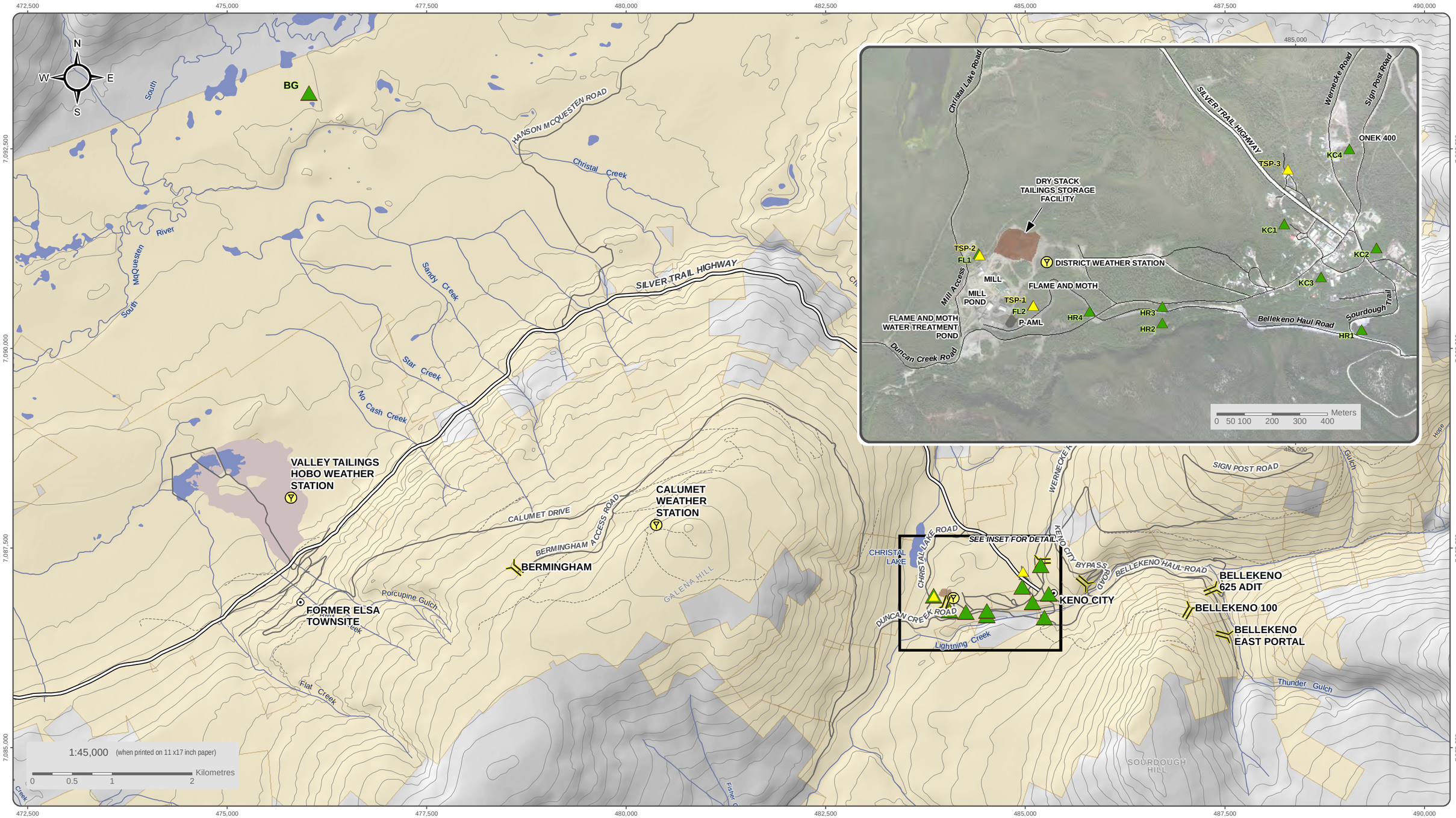
Memorandum

To:	Alexco Keno Hill Mining Corp.
From:	Kelly Tobalt, Alexco Environmental Group Inc.
CC:	Kai Woloshyn, Alexco Resource Corp.
Date:	March 25, 2020
Re:	Air Quality Monitoring Summary 2019, Keno, YT
Attachments:	A1 to A5 - Results and Meteorological Data (2012-2019) B - Statistical Tests Results

1 INTRODUCTION

Alexco Keno Hill Mining Corp. (Alexco) established an air quality monitoring program in 2009, in accordance with recommendations (clause 68 to 70) stated in the Decision Document for the assessment of the Bellekeno Mine Project (YESAB File Number 2009-0030). Air quality was monitored using dustfall monitoring stations installed at four locations near the Keno District Mill site (2011). The monitoring program was amended in 2012 in accordance with the Decision Document (clauses 36 to 37) for the assessment of the Onek and Lucky Queen Deposit production (YESAB File Number 2011-0315). The amended program included measurement of total particulates per volume of air for select size fractions (total suspended particulates (TSP)). 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). Currently there are three air quality sampling stations in use for the project. This memorandum presents the results of the air quality monitoring program through 2019.

The goal of the current sampling program is to collect samples from three locations (TSP-1, TSP-2, and TSP-3: see Figure 1) each month, to capture variability in air quality from various weather conditions. Potential dust sources include the dry stack tailings facility (DSTF), the crusher, and unpaved access roads.



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Satellite imagery obtained from Yukon Geomatics map service http://mapservices.gov.yk.ca/ArcGIS/services on March 2020

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

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- Alexco TSP Monitoring Stations
- YG PM10 Monitoring Sites 2013
- Weather Station
- Adit
- Mine Feature Footprint
- Current DSTF
- Alexco/ERDC Quartz Claims
- Waterbody
- Watercourse
- Silver Trail Highway
- Other Road
- Limited-Use Road

AKHM

ENSERO solutions

ALEXCO KENO HILL MINING CORP.

FIGURE 1

METEOROLOGICAL AND AIR QUALITY MONITORING STATIONS LOCATION

MARCH 2020

D:\Projects\AllProjects\Keno_Area_Mines\ALL-SITES\02-Map\04-Studies\Air_Noise_Dust\Air_Quality_Stns_YTG_20190328.mxd
(Last edited by: amalishevska,2020-03-04/10:06 AM)

2 INSTRUMENTATION AND METHODOLOGY

Two BGI Omni Ambient Air Quality Samplers (Figure 2) 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 air quality samplers are equipped to such that the jet sizes installed can be changed to sample three sizes: TSP, PM_{10} or $PM_{2.5}$ inlets (Figure 3).

Samples were collected following AEG's standard field protocol (Ambient Air Quality Installation and Sampling Procedure, AEG 2018) to comply with the 24-hr, gravimetric NAPS reference method. If the 24-hr run is interrupted (e.g. power loss) a minimum of 75% data completeness is required for comparison to the Standard (CCME, 2011). As such filter runs were retained and sent to the laboratory if they ran for 18 or more hours.

On a monthly basis a total of nine samples are collected at each site, 3 samples for each filter inlet size, and sent to Bureau Veritas Laboratories (formerly Maxxam Analytics) for gravimetric analysis and ICP metals mass spectrometry for the TSP jet sample only. The monthly monitoring requirement is summarized as:

- Three (3) 24 hour runs with the TSP jet installed at each site: TSP-1, TSP-2, and TSP-3;
- Three (3) 24 hour runs with the $PM_{2.5}$ jet installed at each site: TSP-1, TSP-2, and TSP-3; and
- Three (3) 24 hour runs with the PM_{10} jet installed at each site: TSP-1, TSP-2, and TSP-3.

There are circumstances where the monthly requirements cannot be met, due to operating conditions. The air quality sampling equipment does not function properly below freezing temperatures (< -20°C) and as such during winter months the amount of sampling possible is reduced. In 2019, other than reduced sampling due to temperature below -20°C, two other samples were missed in January 2019, where site location TSP-2 (sampled with TSP jet) and site location TSP 3 (sampled with $PM_{2.5}$) were each sampled 2 times instead of three, due to power failure or time not recorded (i.e. runs were less than 18 hours).

The dust sampling program at site is done concurrently with meteorological monitoring, particularly temperature, windspeed, and wind direction. This meteorological data is key in understanding where the prevailing winds would move any dust. The Keno District Mill weather station (shown on Figure 1), records hourly wind speed and direction (height of 10 meters).

Figure 2 BGI Omni Ambient Air Quality Sampler

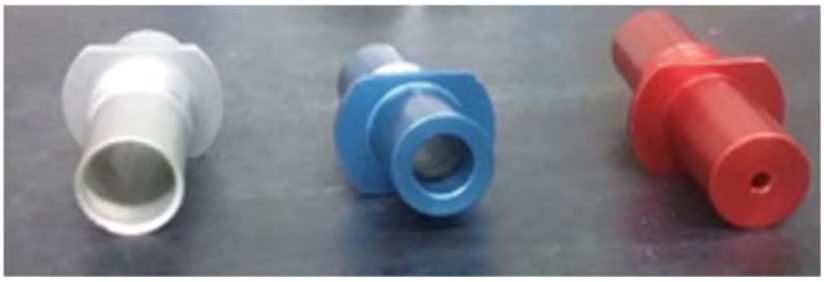

Figure 3 Inlet jet sizes: TSP (grey), PM10 (blue), and PM2.5 (red)

2.1 QUALITY ASSURANCE/QUALITY CONTROL

As per the field protocol, blanks were collected at rate of one blank per month as a quality assurance and quality control measure. Once a month the sampler selects one sample site and one jet size and uses 2 filters: one is run in the equipment as a full sample run, the second (blank) is left at the air quality sampler in the field in its lab petri dish while the regular run occurs.

Collection of blanks began in December 2015. Each month the blank is sent to Bureau Veritas Laboratories with the full month of samples to be analysed for gravimetric analysis and ICP metals mass spectrometry. To date, 65 blanks have been collected, with most results measured as less than the detection limit. Results greater than two times the reported detection limit (RDL) are shown in **Error! Reference source not found.** below. Note that blank results from September 29, 2017 were removed from the database as unusually elevated values indicated potential contamination of the filter.

2.1.1 Blanks

Blanks provide information on potential sampler and monitor contamination, as well as ambient air conditions. The 2019 blanks sampling events showed results higher than Reported Detection Limits in every month except January and February, as seen in Table 1. In March 2019, detection limits were revised for multiple parameters, and hence blanks would report more concentrations and insights into data.

The Shanghai Creek wildfire in the Hansen Lakes area occurring close to Elsa and Keno city in mid-July, as well as multiple wildfires occurring in the Yukon had direct impacts on the air quality and dust particles during the monitoring events of May to October. No mining activity occurred in 2019, and hence the air quality data will be considered baseline data. Continued monitoring of dust in the area will provide a better understanding of the air quality conditions in the area.

Table 1: 2019 Blanks with results greater than two times the Reported Detection Limit (RDL)

Date	Parameters
29-Sep-2016	Cr, Sr
29-Dec-2016	Cr
29-Jan-2017	Cr
25-Mar-2017	Cr
25-May-2017	Cr, Fe, Zn
27-July-2017	Cr
21-Mar-2018	Cr
30-Oct-2018	Cr, Zn
27-Dec-2018	Fe
28-Mar-2019	Ni, Zn, Ca, As, Mn, Cr
30-Apr-2019	Na, Zn, Ca, Ba, Cd, K, Cr, Cu
28-May-2019	Cr

Date	Parameters
25-Jun-2019	Ni, Zn, Ca, Cr
30-Jul-2019	Zn, Ca, Cr
30-Aug-2019	Pb, Ni, Zn, Mn, Cr
27-Sep-2019	Pb, Zn, Cd, Mn, Cr
29-Oct-2019	As, Cr, Cu, Ni, Zn
28-Nov-2019	Ca, Cr, Zn
27-Dec-2019	Ca, Cr, Zn

3 RESULTS

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

Results of the gravimetric analyses are converted into 24-hour average ambient concentrations based on the flow rate of the instruments. These are compared with the Yukon Ambient Air Quality Standard (YAAQS) (24-hour average):

- 120 µg/m^3 for TSP;
- 50 µg/m^3 for PM_{10}; and
- 28 µg/m^3 for $PM_{2.5}$.

3.1.1 2019 Sample Results

Summary statistics for January 2019 to December 2019 are presented in Table 3 below for the three sampling locations (TSP-1, TSP-2 and TSP-3). When results were below the detection limit half the detection limit was used to calculate the summary statistics.

All results met standards for YAAQS, apart from one $PM_{2.5}$ exceedance at TSP-1 on July 9, 2019. This may be due to the Shanghai Creek wildfire. The wildfire was in close proximity to Elsa and Keno City in July and August causing poor air quality conditions.

The greatest average TSP concentration was measured at TSP-2 (6 µg/m^3), the lowest average at TSP-1 (4.6 µg/m^3), however the difference is not statistically significant, and concentrations are less than the YAAQS. For coarse particulate matter (PM_{10}), the greatest average concentration was recorded at TSP-1 (8 µg/m^3), the lowest average at TSP-3 (5.8 µg/m^3). For fine particulate matter ($PM_{2.5}$), the greatest average concentration was recorded at TSP-3 (4.2 µg/m^3), the lowest average at TSP-1 (4.4 µg/m^3).

Table 2: Total Suspended Particulates, Coarse and Fine Particulate Matter Summary Statistics 2019 (µg/m³)

	TSP (µg/m³)			PM_{10} (µg/m³)			$PM_{2.5}$ (µg/m³)		
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	4.6	6	5.7	8	6.1	5.8	4.4	4.2	4.7
Count	33	35	33	37	36	34	30	35	39
Minimum	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Maximum	23.5	49.4	23.2	46	38.1	22.5	**28.2**	19.7	21.2
Geometric Mean	3.7	4.2	4.5	5	4.2	4.5	3.6	3.5	3.9
Count <DL	25	24	20	23	26	21	23	29	28
Standard Deviation	4.2	8.7	4.9	10.4	7.7	5.1	4.8	3.8	3.9
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	2.8	6.9	6.5	9.3	5.7	6.9	2.8	2.8	5.9
Count Over Standard	0	0	0	0	0	0	1	0	0
% Over Standard	0	0	0	0	0	0	3.3	0	0

Note: Bold = exceedance of YAAQS

3.1.2 Cumulative 2012-2019 Results

Summary statistics for 2012-2019 are presented in Table 3 for the three sampling locations (TSP-1, TSP-2 and TSP-3), and the complete results are presented in Attachment A1 and A2. When results were below the detection limit, half the detection limit was used to calculate the summary statistics.

All results met standards for YAAQS, apart from one $PM_{2.5}$ exceedance at TSP-3 on July 14, 2017 and one at TSP-1 on July 9, 2019.

The sample collected on July 14, 2017 is considered an outlier as it was an order of magnitude higher than historic TSP-3 and TSP-1 results; and results for TSP-2 from samples collected on the same day. The air quality monitoring results on the same day for TSP-1 for $PM_{2.5}$ was 7.9 µg/m³ was and TSP-2 PM_{10} was 9.2 µg/m³ both closer to the Mill and dry stack tailings area. The TSP-3 $PM_{2.5}$ outlier result from July 14, 2017 may be due to laboratory error or filter contamination between being provided by the lab and being analysed in the lab. No trends in the TSP, PM_{10} and $PM_{2.5}$ data before on or after this date validate this outlier result. 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 m (TSP-1) and 46 m (TSP-2) away from the DSTF and 163 m (TSP-1) and 240 m (TSP-2) away from the crusher, two of the main potential dust sources. The nearest residence is 710 m from the DSTF and 860 m 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 is suspended at this time. Therefore, the crusher and DSTF would not have contributed to fugitive dust emissions during that period.

Table 3: Total Suspended Particulates, Coarse and Fine Particulate Matter Summary Statistics 2012 – 2019 (µg/m³)

	TSP (µg/m³)			PM_{10} (µg/m³)			$PM_{2.5}$ (µg/m³)		
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	5.3	6.3	5.3	5	4.9	4.5	4.1	4.4	4.5
Count	272	257	170	149	133	141	145	138	140
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	46	38.1	22.5	**28.2**	23.1	21.2
Geometric Mean	4.1	4.6	4	3.8	3.7	3.8	3.5	3.6	3.8
Count <DL	189	159	118	115	103	102	115	109	100
Standard Deviation	5.6	7.3	6.7	6	5.5	3.4	3.3	3.7	3.1
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	6.6	7.2	6.1	2.8	2.8	6	2.8	2.8	6
Count Over Standard	0	0	0	0	0	0	1	0	0
% Over Standard	0	0	0	0	0	0	0.7	0	0

Note: Bold = exceedance of YAAQS
** Two outliers removed (TSP-1 976.4 µg/m³ on July 1, 2015; TSP-3 65 µg/m³ on July 14, 2017)*

The greatest average TSP concentration was measured at TSP-2 (6.3 µg/m³), TSP-1 and TSP-3 had the same measured average (both 5.3 µg/m³), however the difference is not statistically significant, and concentrations are less than the YAAQS. For coarse particulate matter (PM_{10}), the greatest average concentration was recorded at TSP-1 (5.0 µg/m³), the lowest average at TSP-3 (4.5 µg/m³). For fine particulate matter ($PM_{2.5}$), the greatest average concentration was recorded at TSP-1 (4.1 µg/m³), the lowest average at TSP-2 (4.4 µg/m³). These results do not greatly deviate from the 2019 results. Exceedances were recorded for TSP concentration at monitoring location TSP-1 (July 1, 2015); however, this was determined to be outlier as all other results were less than the YAAQS.

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 metals.

3.2.1 2019 Metal Speciation Results

Table 5 presents the summary statistics for January 2019 to December 2019 for metal concentrations from samples TSP-1, TSP-2 and TSP-3. When results were below the detection limit a value of half the detection limit was used to calculate the statistics. All parameters met AAQC criteria except for cadmium (TSP-3 – 1 of 33 samples or 3%), which marginally exceeded the guideline once in 2019.

Table 4: Metal Concentrations Summary Statistics (24-hour) 2019

	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 Ambient Air Quality Criteria (µg/m³)	-	**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	0.053	0.0248	0.011	0.002	0.001	0.021	0.003	0.28	0.074	0.006	0.008	0.084	0.015	0.025	0.004	0.006	0.007	0.083	0.158	0.006	0.169	0.004	0.136	0.001	57.2	0.010	0.014	0.015	0.048	0.009
Count	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
Minimum	<0.20	<0.005	<0.005	<0.005	<0.005	<0.30	<0.001	<1.0	0.367	<0.005	<0.005	<0.30	<0.005	<0.30	<0.005	<0.003	0.006	<0.80	<0.50	<0.005	<2.0	<0.002	<1.0	<0.005	<2.0	<0.005	<0.20	<0.20	<0.050	<0.050
Maximum	0.142	0.139	0.056	0.003	0.006	0.021	0.014	0.542	0.120	0.035	0.035	0.351	0.056	0.071	0.023	0.035	0.035	0.208	0.694	0.035	0.389	0.021	0.292	0.004	69.4	0.056	0.014	0.021	0.147	0.035
Geometric Mean	0.038	0.001	0.001	0.001	0.001	0.021	0.000	0.207	0.073	0.001	0.003	0.068	0.004	0.023	0.003	0.001	0.002	0.071	0.065	0.001	0.161	0.000	0.12	0.001	21.9	0.001	0.014	0.015	0.035	0.005
Count <DL	15	34	26	7	34	34	13	15	0	34	9	4	9	31	8	31	6	34	31	34	31	33	21	15	34	34	34	34	3	34
Standard Deviation	0.047	0.054	0.021	0.001	0.002	0	0.005	0.181	0.014	0.013	0.013	0.067	0.021	0.012	0.005	0.013	0.013	0.059	0.253	0.013	0.062	0.008	0.066	0.001	26.8	0.021	0	0.003	0.038	0.012
1st Quartile	0.018	0.0004	0.0004	0.001	0.0004	0.021	0.0002	0.069	0.066	0.0004	0.001	0.053	0.001	0.021	0.001	0.0002	0.001	0.056	0.035	0.0004	0.139	0.0001	0.069	0.0004	69.4	0.0004	0.014	0.014	0.023	0.003
Median	0.036	0.0004	0.0004	0.002	0.0004	0.021	0.0002	0.375	0.072	0.0004	0.001	0.063	0.003	0.021	0.003	0.0002	0.001	0.056	0.035	0.0004	0.139	0.0001	0.146	0.001	69.4	0.0004	0.014	0.014	0.034	0.003
3rd Quartile	0.052	0.0004	0.006	0.002	0.0004	0.021	0.001	0.441	0.078	0.0004	0.005	0.095	0.018	0.021	0.006	0.0004	0.002	0.056	0.062	0.0004	0.191	0.0001	0.194	0.001	69.4	0.0004	0.014	0.014	0.07	0.003
Count Over Standard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Over Standard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TSP-2																														
Average	0.06	0.028	0.012	0.002	0.001	0.021	0.003	0.308	0.076	0.007	0.009	0.134	0.021	0.034	0.012	0.007	0.010	0.086	0.183	0.007	0.171	0.004	0.157	0.001	55.6	0.011	0.014	0.015	0.102	0.009
Count	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Minimum	<0.20	<0.005	<0.005	<0.005	<0.005	<0.30	<0.001	<1.0	0.366	<0.005	<0.005	<0.30	<0.005	<0.30	<0.005	<0.003	0.006	<0.80	<0.50	<0.005	<2.0	<0.002	<1.0	<0.005	<2.0	<0.005	<0.20	<0.20	<0.050	<0.050
Maximum	0.16	0.139	0.056	0.008	0.006	0.021	0.014	0.736	0.189	0.035	0.035	0.688	0.103	0.115	0.086	0.035	0.064	0.208	0.694	0.035	0.458	0.021	0.347	0.002	69.4	0.056	0.014	0.021	0.482	0.035
Geometric Mean	0.038	0.001	0.002	0.001	0.001	0.021	0.001	0.237	0.073	0.001	0.003	0.082	0.007	0.028	0.004	0.001	0.003	0.073	0.074	0.001	0.163	0.0004	0.136	0.001	20.6	0.001	0.014	0.015	0.065	0.005
Count <DL	21	33	24	11	35	35	15	12	0	34	9	3	8	26	8	31	7	35	32	35	32	33	20	13	33	35	35	35	3	35
Standard Deviation	0.053	0.056	0.022	0.002	0.002	0	0.006	0.19	0.023	0.014	0.013	0.171	0.026	0.027	0.02	0.014	0.016	0.062	0.265	0.014	0.067	0.008	0.078	0.001	28.1	0.022	0	0.003	0.104	0.013
1st Quartile	0.014	0.0004	0.0004	0.001	0.0004	0.021	0.0002	0.139	0.066	0.0004	0.001	0.05	0.002	0.021	0.001	0.0002	0.001	0.056	0.035	0.0004	0.139	0.0001	0.069	0.001	69.4	0.0004	0.014	0.014	0.044	0.003
Median	0.038	0.0004	0.001	0.002	0.0004	0.021	0.0003	0.361	0.072	0.0004	0.002	0.062	0.004	0.021	0.003	0.0002	0.001	0.056	0.035	0.0004	0.139	0.0001	0.167	0.001	69.4	0.0004	0.014	0.014	0.069	0.003
3rd Quartile	0.122	0.001	0.005	0.002	0.0004	0.021	0.001	0.458	0.079	0.0004	0.006	0.105	0.045	0.032	0.006	0.001	0.003	0.056	0.184	0.0004	0.208	0.0003	0.208	0.002	69.4	0.0004	0.014	0.014	0.105	0.003
Count Over Standard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Over Standard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TSP-3																														
Average	0.047	0.021	0.009	0.002	0.001	0.021	0.004	0.292	0.073	0.006	0.007	0.076	0.010	0.028	0.003	0.006	0.006	0.079	0.149	0.006	0.178	0.003	0.147	0.001	56.8	0.009	0.014	0.015	0.094	0.008
Count	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
Minimum	<0.20	<0.005	<0.005	<0.005	<0.005	<0.30	<0.001	<1.0	0.347	<0.005	<0.005	<0.30	<0.005	<0.30	<0.005	<0.003	0.006	<0.80	<0.50	<0.005	<2.0	<0.002	<1.0	<0.005	<2.0	<0.005	<0.20	<0.20	<0.050	<0.050
Maximum	0.139	0.139	0.056	0.005	0.006	0.021	**0.032**	0.542	0.094	0.035	0.035	0.24	0.056	0.054	0.006	0.035	0.035	0.208	0.694	0.035	0.444	0.021	0.389	0.002	69.4	0.056	0.014	0.021	0.647	0.035
Geometric Mean	0.034	0.001	0.001	0.001	0.001	0.021	0.001	0.22	0.072	0.001	0.002	0.066	0.002	0.026	0.002	0.001	0.002	0.068	0.065	0.001	0.166	0.0003	0.123	0.001	24.4	0.001	0.014	0.015	0.049	0.004
Count <DL	15	33	29	7	33	33	13	12	0	33	7	3	11	25	8	27	5	33	29	33	30	33	20	16	30	32	33	33	3	33
Standard Deviation	0.042	0.050	0.020	0.001	0.002	0	0.007	0.184	0.011	0.013	0.012	0.045	0.020	0.012	0.002	0.013	0.012	0.055	0.238	0.013	0.084	0.008	0.093	0.001	27.1	0.020	0	0.003	0.138	0.012
1st Quartile	0.014	0.0004	0.0004	0.001	0.0004	0.021	0.0001	0.069	0.065	0.0004	0.001	0.051	0.001	0.021	0.001	0.0002	0.001	0.056	0.035	0.0004	0.139	0.0001	0.069	0.0004	69.4	0.0004	0.014	0.014	0.026	0.003
Median	0.036	0.0004	0.0004	0.001	0.0004	0.021	0.0002	0.347	0.075	0.0004	0.001	0.062	0.001	0.021	0.002	0.0002	0.0014	0.056	0.035	0.0004	0.139	0.0001	0.139	0.001	69.4	0.0004	0.014	0.014	0.047	0.003
3rd Quartile	0.049	0.0004	0.001	0.002	0.0004	0.021	0.001	0.458	0.079	0.0004	0.003	0.089	0.002	0.021	0.004	0.0004	0.002	0.056	0.074	0.0004	0.208	0.0001	0.208	0.001	69.4	0.0004	0.014	0.014	0.076	0.003
Count Over Standard	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Over Standard	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: **Bold** = exceeded standard

3.2.2 Cumulative 2012-2019 Metal Speciation Results

Table 5 presents the summary statistics for 2012 to 2019 for metal concentrations from samples TSP-1, TSP-2 and TSP-3, while the complete result tables are presented in Attachment A3 to A5. When results were below the detection limit a value of half the detection limit was used to calculate the statistics.

All parameters met AAQC criteria except for cadmium (TSP-2 – 0.8 % of samples; TSP-3 – 0.6% of samples), lead (TSP-1 – 0.7% of samples; TSP-2 – 0.4% of samples), and manganese (TSP-2 – 1.6% of samples).

Note that criteria for chromium and manganese did not come into effect until July 1, 2016 but were still used as reference for the entire sampling period.

Table 5: Metal Concentrations Summary Statistics (24-hour) 2012 – 2019

	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 Ambient Air Quality Criteria (µg/m³)	-	**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	0.178	0.119	0.048	0.003	0.005	0.023	0.012	0.328	0.078	0.030	0.03	0.192	0.056	0.034	0.01	0.030	0.030	0.186	0.598	0.03	0.359	0.018	0.245	0.003	9.7	0.048	0.014	0.02	0.035	0.03
Count	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	272	208	272	272	272	269	272	272	272	272	272
Minimum	<0.20	<0.005	<0.005	<0.005	<0.005	<0.30	<0.001	<1.0	<0.30	<0.005	<0.005	<0.30	<0.005	<0.30	<0.005	<0.003	0.0061	<0.80	<0.50	<0.005	<2.0	<0.002	<1.0	<0.005	<2.0	<0.005	<0.20	<0.20	<0.050	<0.050
Maximum	5.292	0.139	0.056	0.022	0.006	0.264	0.014	8.722	0.146	0.035	0.035	2.528	**1.083**	0.429	0.301	0.035	0.035	0.208	0.694	0.079	3.875	0.021	2.444	0.041	69.4	0.193	0.042	0.021	0.817	0.035
Geometric Mean	0.121	0.058	0.028	0.002	0.004	0.022	0.007	0.205	0.073	0.018	0.023	0.11	0.036	0.027	0.006	0.017	0.022	0.171	0.455	0.018	0.245	0.01	0.213	0.002	0.3	0.027	0.014	0.02	0.020	0.024
Count <DL	229	272	264	210	272	268	247	184	15	272	235	45	230	216	203	268	233	272	267	270	175	271	225	205	246	270	271	272	180	272
Standard Deviation	0.45	0.049	0.019	0.003	0.002	0.021	0.005	0.774	0.025	0.012	0.012	0.252	0.080	0.043	0.025	0.012	0.012	0.054	0.231	0.013	0.556	0.007	0.201	0.004	23.9	0.023	0.002	0.002	0.072	0.011
1st Quartile	0.139	0.139	0.056	0.002	0.006	0.021	0.014	0.139	0.064	0.035	0.035	0.051	0.056	0.021	0.006	0.035	0.035	0.208	0.694	0.035	0.208	0.021	0.208	0.002	0.1	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	0.108	0.056	0.021	0.006	0.035	0.035	0.208	0.694	0.035	0.208	0.021	0.208	0.002	0.1	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	0.361	0.095	0.035	0.035	0.308	0.056	0.021	0.006	0.035	0.035	0.208	0.694	0.035	0.208	0.021	0.208	0.002	0.1	0.056	0.014	0.021	0.031	0.035
Count Over Standard	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Over Standard	0	0	0	0	0	0	0	0	0	0	0	0	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TSP-2																														
Average	0.143	0.119	0.048	0.003	0.005	0.022	0.012	0.271	0.079	0.030	0.03	0.254	0.061	0.039	0.025	0.030	0.030	0.186	0.602	0.030	0.389	0.018	0.222	0.003	9.4	0.048	0.014	0.02	0.045	0.03
Count	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	256	196	256	256	256	253	256	256	256	256	256
Minimum	<0.20	<0.005	<0.005	<0.005	<0.005	<0.30	<0.001	<1.0	<0.30	<0.005	<0.005	<0.30	<0.005	<0.30	<0.005	<0.003	0.0061	<0.80	<0.50	<0.005	<2.0	<0.002	<1.0	<0.005	<2.0	<0.005	<0.20	<0.20	<0.050	<0.050
Maximum	1.625	0.139	0.056	0.048	0.006	0.099	**0.040**	3.472	0.189	0.035	0.035	2.778	**0.736**	0.468	**0.651**	0.035	0.064	0.208	0.694	0.035	5.028	0.021	1.125	0.032	69.4	0.056	0.032	0.021	0.482	0.035
Geometric Mean	0.118	0.060	0.030	0.002	0.004	0.021	0.008	0.207	0.074	0.018	0.023	0.141	0.042	0.03	0.009	0.017	0.022	0.172	0.466	0.018	0.261	0.010	0.205	0.002	0.3	0.027	0.014	0.02	0.026	0.025
Count <DL	227	251	240	207	256	253	228	163	16	255	221	36	208	184	165	252	219	256	250	256	158	250	220	194	227	256	255	256	153	256
Standard Deviation	0.142	0.049	0.019	0.004	0.002	0.007	0.005	0.31	0.027	0.012	0.012	0.297	0.066	0.043	0.071	0.012	0.012	0.054	0.226	0.012	0.584	0.007	0.114	0.003	23.7	0.019	0.001	0.002	0.063	0.011
1st Quartile	0.139	0.139	0.056	0.002	0.006	0.021	0.014	0.139	0.063	0.035	0.035	0.06	0.056	0.021	0.006	0.035	0.035	0.208	0.694	0.035	0.208	0.021	0.208	0.002	0.1	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	0.079	0.035	0.035	0.162	0.056	0.021	0.006	0.035	0.035	0.208	0.694	0.035	0.208	0.021	0.208	0.002	0.1	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	0.375	0.097	0.035	0.035	0.359	0.056	0.044	0.012	0.035	0.035	0.208	0.694	0.035	0.208	0.021	0.208	0.002	0.1	0.056	0.014	0.021	0.047	0.035
Count Over Standard	0	0	0	0	0	0	2	0	0	0	0	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Over Standard	0	0	0	0	0	0	0.8	0	0	0	0	0	0.4	0	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TSP-3*																														
Average	0.166	0.107	0.043	0.002	0.004	0.025	0.011	0.368	0.076	0.027	0.027	0.098	0.043	0.039	0.006	0.027	0.027	0.173	0.546	0.027	0.245	0.016	0.22	0.005	14.8	0.043	0.014	0.019	0.037	0.028
Count	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173	161	173	173	173	170	173	173	173	173	173
Minimum	<0.20	<0.005	<0.005	<0.005	<0.005	<0.30	<0.001	<1.0	<0.30	<0.005	<0.005	<0.30	<0.005	<0.30	<0.005	<0.003	0.0061	<0.80	<0.50	<0.005	<2.0	<0.002	<1.0	<0.005	<2.0	<0.005	<0.20	<0.20	<0.050	<0.050
Maximum	2.778	0.139	0.056	0.024	0.006	0.218	**0.032**	6.417	0.158	0.035	0.035	0.514	0.056	0.553	0.07	0.035	0.035	0.208	0.694	0.035	1.569	0.021	1.472	0.175	69.4	0.056	0.014	0.021	0.647	0.035
Geometric Mean	0.106	0.035	0.018	0.002	0.003	0.022	0.005	0.224	0.072	0.012	0.018	0.066	0.023	0.028	0.005	0.011	0.017	0.154	0.366	0.012	0.213	0.007	0.199	0.002	0.4	0.017	0.014	0.019	0.020	0.02
Count <DL	141	173	169	129	173	168	147	96	4	173	135	44	141	132	128	165	133	173	167	173	145	173	140	122	161	171	173	173	113	173
Standard Deviation	0.34	0.059	0.023	0.003	0.002	0.024	0.006	0.816	0.024	0.015	0.014	0.096	0.023	0.068	0.006	0.015	0.014	0.064	0.272	0.015	0.202	0.009	0.129	0.021	28.4	0.023	0	0.003	0.072	0.014
1st Quartile	0.139	0.139	0.056	0.002	0.006	0.021	0.014	0.139	0.061	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	0.1	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	0.064	0.056	0.021	0.006	0.035	0.035	0.208	0.694	0.035	0.208	0.021	0.208	0.002	0.1	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	0.389	0.089	0.035	0.035	0.119	0.056	0.021	0.006	0.035	0.035	0.208	0.694	0.035	0.208	0.021	0.208	0.002	0.3	0.056	0.014	0.021	0.031	0.035
Count Over Standard	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Over Standard	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

** Two outliers removed (TSP-1 976.4 µg/m³ on July 1, 2015; TSP-3 65 µg/m³ on July 14, 2017)*

Note: **Bold** = exceeded standard

Average metal concentrations measured in sample stations are shown in Error! Reference source not found.. Half the RDL was used to calculate averages for samples that were below the RDL. As the samples were not normally distributed and variances were not equal, non-parametric tests (Kruskal-Wallis; Wilcoxon) were used for statistical comparisons of the sample medians at a significance level (p) of 0.05. The concentrations of total metals measured at sample stations differed significantly ($p<<0.05$) for iron and zinc and found no detectable difference for boron, calcium, chromium, sodium, strontium, sulphur, and titanium. All other analytes differed slightly ($0.01<p<0.05$).

Dust originating from the DSTF may contain arsenic, aluminum, calcium, iron, magnesium, manganese, lead, and zinc, based on metal characterization analyses of the tailings conducted from 2012 to 2013. From the wind direction distribution, TSP-2 is more frequently located downwind of the DSTF than TSP-1 and may be expected to record concentrations of the previously listed metals. The current average concentrations of these parameters remain below recommended standards (Ontario AAQC). Samples taken from TSP-2 were found to have higher concentrations of lead and manganese compared to TSP-1.

Historically, days where TSP levels were higher than average and where exceedances of the Ontario AAQCs were observed (lead at TSP-1), winds were generally blowing from the northeast and from the east (October 23. 2012 and June 18, 2013 respectively). Site activities occurring in October 2012 and June 2013 included active mining at Bellekeno, development at Lucky Queen and Onek, milling at the Keno District Mill, and explorations activities at Flame & Moth. Unpaved road may have been a contributing source of ambient dust on these occasions. Roads within the vicinity of the TSP stations include mine access roads, as well as public roads including Duncan Creek Road.

Historically, when metals concentrations exceeded the Ontario AAQCs (cadmium, lead, and manganese) at TSP-2, winds were generally blowing from the north-northeast (August 23, 2012). A source of ambient dust in this event could have been the unpaved roads. On days where TSP levels were higher than average and/or where exceedances of the Ontario AAQCs were observed for manganese at TSP-2, winds were generally blowing from the northeast (March 23-24, 2013; August 9, 2017) and from the east (April 7, 2013). On these occasions, the DSTF could have been a source of TSP at TSP-2. Similarly, on days where exceedances of the Ontario AAQCs were observed for cadmium at TSP-2 (on September 28, 2013 and October 21, 2015 respectively), winds were generally from the northeast or north-northeast 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 December 2018, only care and maintenance activities were taking place as the mine and mill were under a temporary suspension of operations with exception of collaring Flame and Moth Portal in 2016 and the preparation of the Flame and moth Pond. 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.

3.3 WIND ANALYSIS

Hourly wind speed and direction was collected between December 2012 and December 2019, at the Keno District Mill weather station (Attachment A-1). The wind rose plot in Figure 4, depicts this information based on 16 wind direction categories. The average wind speed is 1.26 m/s and winds are calm 20% 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. Wind speed and direction frequency distribution are compiled in Table 6 below, and are based on eight wind direction categories, and six wind speed categories.

Table 6: Wind Frequency Distribution Keno District Mill, December 2012 – December 2019

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	4.49	7.75	3.42	0.65	0.11	0.04	16.45
NE	5.28	4.86	1.35	0.16	0.01	0.00	11.66
E	3.57	7.88	2.32	0.45	0.08	0.01	14.29
SE	3.80	5.88	3.03	1.46	0.57	0.35	15.09
S	3.31	5.63	2.49	0.46	0.08	0.04	12.01
SW	0.71	1.60	1.49	0.40	0.07	0.01	4.28
W	0.34	0.56	0.49	0.34	0.16	0.09	1.98
NW	0.81	1.34	1.36	0.85	0.38	0.12	4.86
Sub-Total	22.30	35.50	15.95	4.77	1.45	0.66	80.62
					Calm		19.38
					Total		100

The dominant wind direction is from the north (16% of the time), followed by the southeast (15%). As can be seen on the wind rose plot (Figure 4), the strongest winds tend to originate from the southeast. When the predominant wind direction is from the northeast, air quality stations TSP-1 and TSP-2 (Figure 1), are located downwind of the DSTF and the crusher. When the wind blows from the SE those same stations are upwind from the DSTF and crusher. Given these generalities TSP-1 and TSP-2 may capture influences from facilities when the wind is from the northeast but are otherwise not downwind. Air quality station TSP-3, located on the outskirts of Keno City, is east of these potential dust sources. Based on Table 6, westerly winds only occur about 2% of the time (or roughly 10% 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).

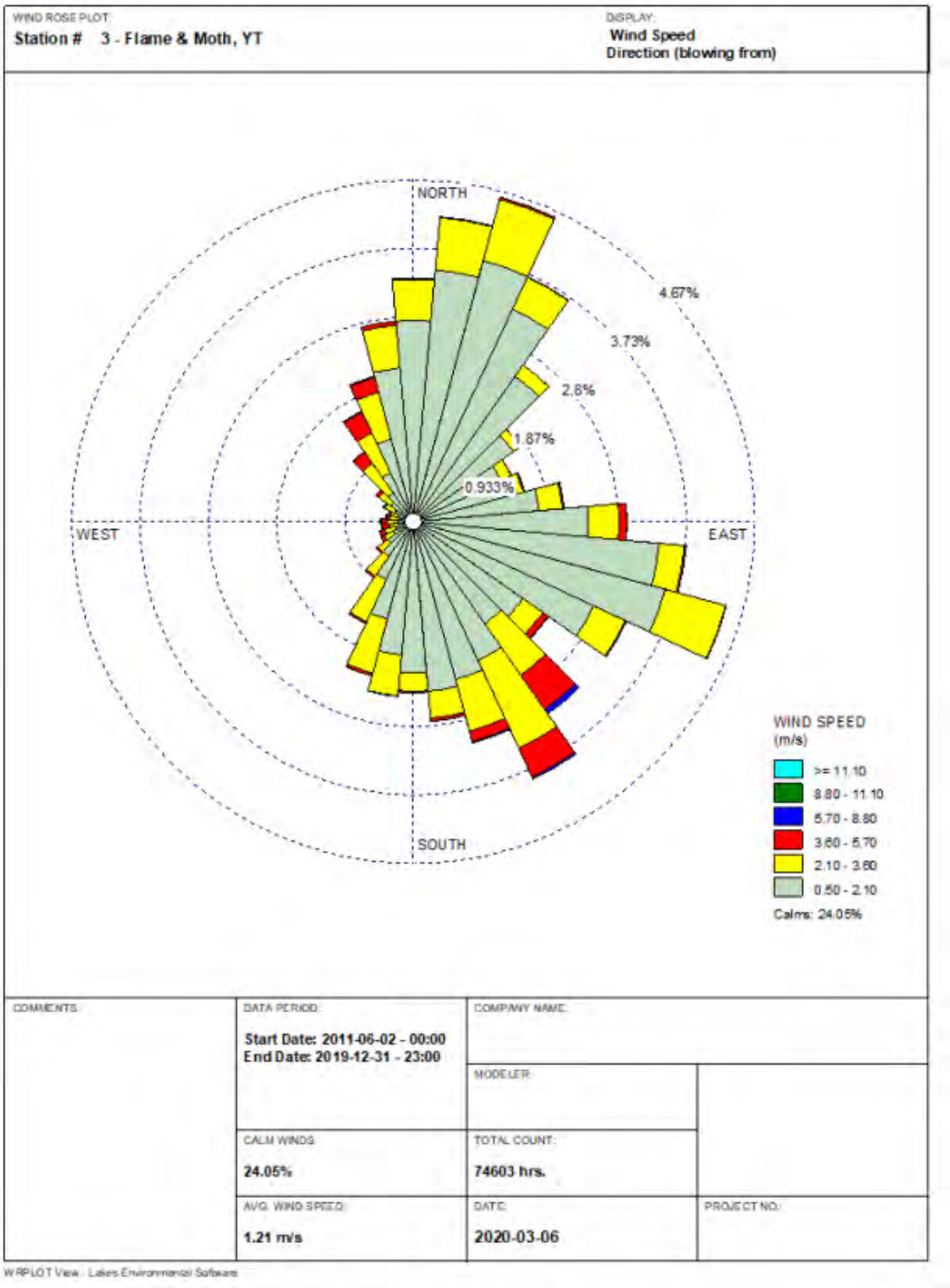

Figure 4 Wind Rose (direction blowing from), Keno District Mill Weather Station, November 2011 – December 2019

3.3.1 2019 Wind Analysis

Hourly wind speed and direction was collected between January 2019 and December 2019, at the Keno District Mill weather station. The wind rose plot in Figure 5, depicts this information based on 16 wind direction categories. The average wind speed is 1.3 m/s and winds are calm roughly 20% 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. Wind speed and direction frequency distribution are compiled in Table 7 below, and are based on eight wind direction categories, and six wind speed categories.

Table 7: Wind Frequency Distribution Keno District Mill, January 2019 – December 2019

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	3.97	7.07	3.59	0.66	0.14	0.12	15.55
NE	5.11	4.78	1.33	0.16	0.00	0.00	11.38
E	4.41	8.93	1.59	0.41	0.07	0.01	15.41
SE	4.89	6.39	2.52	1.40	0.61	0.24	16.05
S	3.01	5.04	2.19	0.31	0.02	0.02	10.60
SW	0.66	1.60	1.27	0.51	0.05	0.00	4.09
W	0.28	0.65	0.56	0.45	0.17	0.08	2.19
NW	0.65	1.14	1.85	1.55	0.63	0.29	6.11
Sub-Total	22.97	35.60	14.89	5.45	1.70	0.77	81.36
					Calm		18.63
					Total		100

As per the Wind Rose, the dominant wind direction is from the northeast (Figure 5), while the strongest winds tend to originate from the southeast. These results do not greatly deviate from the December 2012 to December 2019 results.

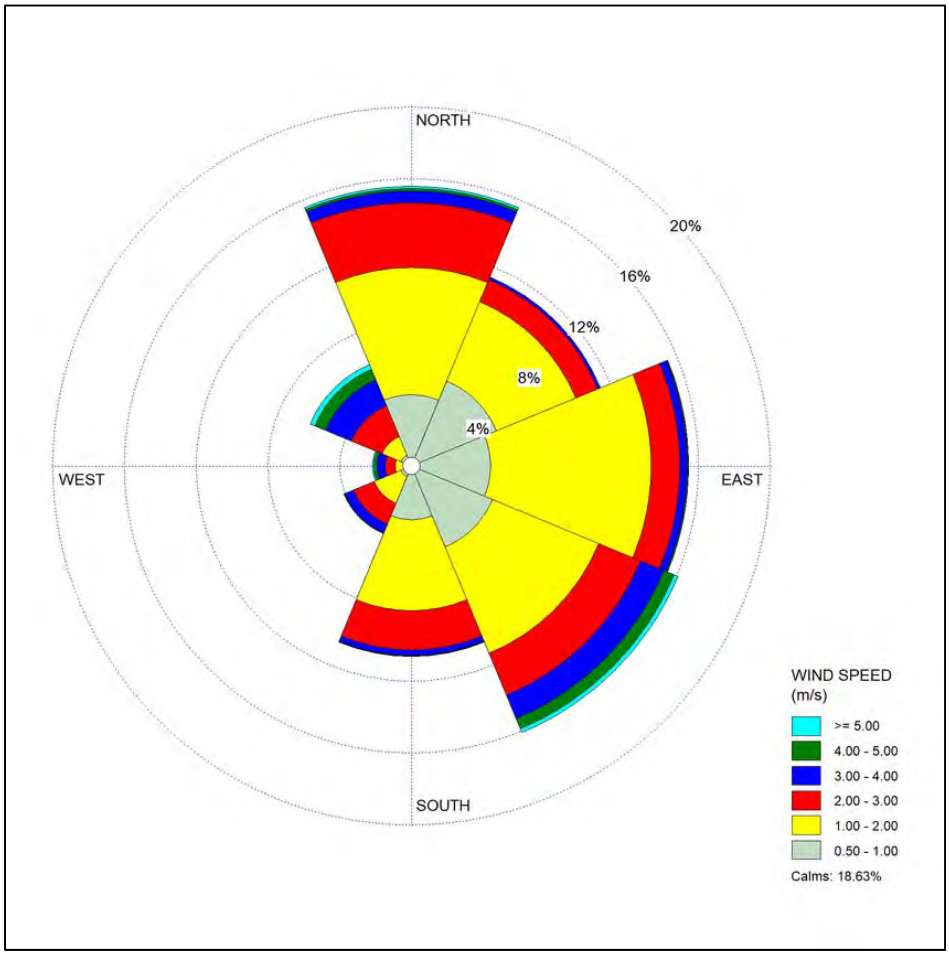

Figure 5 Wind Rose (direction blowing from), Keno District Mill Weather Station, January 2019 – December 2019

4 PM_{10} SAMPLING BY YUKON GOVERNMENT

Independent PM_{10} sampling was conducted by Yukon Government in 2013 at the locations shown in Figure 1**.** The station labelled BG represents background (8 km outside of Keno), stations labelled KC are 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 8 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, for example during the July 15-17 sampling event site HR1 measured coarse particulate matter at 5.2 µg/m^3 and the background at 10.2 µg/m^3. This suggests 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 Alexco at stations TSP-1, TSP-2 and TSP-3 (August 2015 to December 2017).

Table 8: Average Coarse Particulate Matter (PM_{10}) concentrations

	PM_{10} (µg/m³)		
Site Locations	June 11-13, 2013	July 15-17, 2013	August 21-22, 2013
BG	2.8	10.2	3.8
KC1	6.2	NS	NS
KC2	3.8	NS	NS
KC3	8.3	NS	NS
KC4	2.1	NS	NS
HR1	NS	5.2	NS
HR2	NS	2.1	NS
HR3	NS	13.8	NS
HR4	NS	16.4	NS
FL1	NS	NS	0.8
FL2	NS	NS	39.3

Source: Yukon Government, 2014
NS: Not Sampled

Data presented in Table 8 were 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.

5 CONCLUSION

- All TSP samples collected to date near the District Mill, DSTF and Keno City were below the Yukon air quality standard for TSP, except for one sample collected at TSP-1 (July 1, 2015) which was determined to be an outlier;

- PM_{10} and $PM_{2.5}$ samples collected at the three monitoring locations are less than their respective YAAQS, except for two samples. The July 15, 2017 TSP-3 $PM_{2.5}$ sample which was determined to be outlier and the $PM_{2.5}$ sample from TSP-1 on July 9, 2019. The 2019 result may be due to the Shanghai Creek wildfire. The wildfire was in close proximity to Elsa and Keno City in July and August causing poor air quality conditions.

- In 2019 one exceedance of the AAQC criteria (cadmium) was observed at TSP-3.

- Air quality samples will continue to be collected as per the current monitoring schedule to identify if these infrequent events are associated with any trends or patterns; and,

- Blanks will continue to be collected along with regular samples to ensure that no sample contamination is occurring during handling, transport or lab analysis.

6 REFERENCES

Alexco Environmental Group Inc. 2018. Field Protocol: Ambient Air Quality Installation and Sampling Procedure. Prepared for AEG internal June 22, 2018.

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.

Attachment A:

Results and Meteorological Data (2012-2019)

Includes Sub attachments:

A1: 24-Hour Average TSP Results, Meteorological Conditions, and Site Activities, Aug. 2012 – Dec.2019

A2: Average PM10 and PM2.5 Results (24-Hour), Aug. 2015 – Dec. 2019

A3: Metal Concentrations (24-Hour), TSP-1, Aug. 2012 -Dec 2019

A4: Metal Concentrations (24-Hour), TSP-2, Aug. 2012 -Dec 2019

A5: Metal Concentrations (24-Hour), TSP-3, December. 2014 -2019

ATTACHMENT A1

24-HOUR AVERAGE TSP RESULTS, METEOROLOGICAL CONDITIONS, AND SITE ACTIVITIES, AUG. 2012 – DEC. 2019

Table A-1 24-Hour Average TSP Results, Meteorological Conditions, and Site Activities, August 2012 – December 2019

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum 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 (°)	Activities at site
8/23/2012	10.1	12.8	-	13.11	10.25	6.84	75.31	0	0.68	29.5	3.42	6.6	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
9/27/2012	<5.6	<5.6	-	8.18	5.23	2.42	62.53	4.5	4.28	124.7	14.27	145.1	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
9/29/2012	<5.6	<5.6	-	5.69	4.28	2.27	60.46	0	2.33	129.7	8.48	155.9	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
10/16/2012	5.8	-	-	1.65	0.24	-2.12	89.17	0.8	0.9	32.6	6.26	75.9	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
10/17/2012	<5.6	-	-	-0.04	-2.84	-8.45	76.89	0.1	1.26	58.8	7.19	159.2	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
10/23/2012	53.2	-	-	-9.97	-14.04	-17.54	78.41	0	0.66	43.2	3.28	17	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
12/15/2012	<5.6	13.6	-	-13.59	-15.89	-19.29	88.8	0	0.2	357.4	1.85	5.7	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
1/14/2013	<5.6	-	-	-3.02	-8.34	-11.78	95.04	0	*0.28*	284.8	*1.43*	189.92	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
1/16/2013	<5.6	<5.6	-	-15.96	-18.61	-20.79	84.83	0	1.26	70.2	4.52	36.1	Mining at Bellekeno and development at LQ and Onek, Milling at the Keno District Mill
3/23/2013	<5.6	18.2	-	-3.01	-10.79	-18.99	51.87	0	1.65	28.3	7.48	148.5	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
3/24/2013	<5.6	23.2	-	0.17	-4.17	-9.93	57.7	0.2	2.61	78.3	11.11	131.7	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
3/25/2013	<5.6	13.5	-	3.26	-0.18	-1.98	60.02	0.2	3.57	83.1	12.47	135.8	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
3/26/2013	9.6	11.1	-	-1.96	-7.27	-17.97	64.66	0.1	3.53	29	10.49	152.2	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
4/7/2013	-	17.1	-	3.46	-3.18	-12.29	65.38	2.2	2.96	94.8	10.32	145	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
4/10/2013	5.7	7.2	-	-2.04	-6.54	-11.32	67.42	2.6	2.51	256.1	8.09	199.2	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
4/13/2013	<5.6	6.9	-	-5.93	-12.43	-19.03	45.43	0	1.96	10.6	6.29	26.6	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
4/15/2013	6.5	6.5	-	-1.9	-7.18	-13.58	53.95	0	2.18	42.3	7.95	103.5	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
4/16/2013	7.2	6.4	-	0.44	-3.52	-8.62	69.65	0.1	2.14	64.3	7.03	73.8	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill
5/28/2013	6.8	-	-	19.47	14.39	9.06	49.38	1.6	1.74	23.9	6.95	353.5	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
6/16/2013	8.2	-	-	23.38	17.3	11.35	47.8	3.4	1.94	7.2	12.71	357.9	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)	Minimum 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 (°)	Activities at site
6/17/2013	-	<5.6	-	14.07	10.7	7.39	50.03	0	3.05	16.8	10.87	344	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
6/18/2013	47.2	6.3	-	21.94	15.07	7.66	47.63	0	1.65	97.3	6.13	136.7	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
6/21/2013	7.2	<5.6	-	17.66	13.9	10.38	79.66	6.6	1.42	344.9	6.83	177	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
6/23/2013	-	<5.6	-	18.44	12.68	7.82	76.09	9.4	1.65	23.7	9.54	306.5	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
6/24/2013	<5.6	-	-	23.85	15.91	6.54	59.11	0	1.72	15.1	5.33	336.8	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
6/28/2013	-	62.2	-	23.98	18.36	12.73	65.86	10.5	1.67	51.2	10.37	140.4	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
7/19/2013	5.6	<5.6	-	20.14	14.74	9.64	65.78	0.1	1.42	2.3	6.15	196.5	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
7/20/2013	12.2	<5.6	-	17.94	12.89	7.1	72.14	0.8	1.66	27.6	6.36	304.1	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
7/21/2013	<5.6	<5.6	-	15.94	13.17	11.18	70.77	0.6	1.57	41.9	5.25	11.6	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
7/22/2013	<5.6	10.1	-	20.87	15.55	11.04	56.74	0	1.57	18.9	5.79	209.89	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
8/22/2013	<5.6	<5.6	-	14.14	7.63	1.62	69.1	0	1.76	7.6	6.41	245.32	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
8/23/2013	<5.6	-	-	8.68	6.55	4.21	91.68	6.6	0.85	17.8	3.18	108.3	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
8/24/2013	<5.6	-	-	8.03	5.92	3.43	75.82	0.3	2.61	60.9	8.73	87.5	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
8/25/2013	<5.6	<5.6	-	8.4	5.09	1.8	75.02	0	1.29	16.8	4.03	17.2	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
8/26/2013	-	<5.6	-	10.85	6.73	3.85	82.06	1	1.36	41.4	5.22	324.4	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
8/28/2013	-	7.2	-	17.01	8.66	1.14	61.42	0	1.38	73.5	6.5	145.7	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
8/31/2013	-	<5.6	-	9.51	7.68	5.12	91.35	4.7	1.01	22.5	4.9	191.41	Mining at Bellekeno and development at Onek, Milling at the Keno District Mill, Exploration activities at Flame & Moth
9/21/2013	-	<5.6	-	2.64	0.6	-0.96	96.45	6.6	*0.92*	356.8	*3.41*	27.7	No mining operations, Exploration activities at Flame & Moth
9/24/2013	<5.6	<5.6	-	1.7	0.38	-2.3	89.58	0	1.68	17.2	6.2	220.9	No mining operations, Care and Maintenance
9/27/2013	<5.6	<5.6	-	6.66	3.26	1.15	84.55	2.8	1.25	50.8	7.66	137.4	No mining operations, Care and Maintenance
9/28/2013	<5.6	<5.6	-	7.32	3.73	0.07	69.19	0	1.14	55.2	5.51	78.8	No mining operations, Care and Maintenance
9/29/2013	<5.6	-	-	6.77	3.58	1.28	60.97	0	2.18	63.6	7.7	92.1	No mining operations, Care and Maintenance
9/30/2013	-	6	-	6.19	3.22	1	63.34	0	1.64	49.8	5.32	84.6	No mining operations, Care and Maintenance
10/24/2013	-	<5.6	-	-4.58	-6.99	-10.1	95.67	0	0.77	48.1	3.78	238.21	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)	Minimum 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 (°)	Activities at site
10/25/2013	7.6	<5.6	-	-3.58	-5.09	-7.52	96.9	0	0.47	43.3	2.99	31.6	No mining operations, Care and Maintenance
10/26/2013	<5.6	<5.6	-	-0.68	-4.9	-8.64	95.13	1.2	1.19	79.3	4.02	152.5	No mining operations, Care and Maintenance
10/27/2013	6.8	<5.6	-	-5.73	-7.6	-9.98	95.57	0	0.71	44.1	2.77	15.1	No mining operations, Care and Maintenance
10/28/2013	<5.6	-	-	0.21	-3.79	-5.96	97.83	0	0.97	19.7	5.27	25.8	No mining operations, Care and Maintenance
11/28/2013	7.8	8.8	-	-5.9	-10.14	-15.55	91.67	2.3	1.53	22.8	8.22	202.58	No mining operations, Care and Maintenance
11/29/2013	7.6	7.5	-	-16.84	-22.52	-27.23	81.85	0.1	1.04	111.6	3.7	159.4	No mining operations, Care and Maintenance
11/30/2013	8.9	8.5	-	-25.99	-27.76	-29.67	77.52	0	0.37	75.8	1.95	97.3	No mining operations, Care and Maintenance
12/1/2013	6.7	7.2	-	-29.46	-30.57	-32.06	74.69	0	0.54	103.8	3.58	114.7	No mining operations, Care and Maintenance
1/3/2014	13.2	11.8	-	-20.82	-24.67	-28.26	80.16	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
1/4/2014	12.6	9.3	-	-23.86	-27.58	-29.03	77.62	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
1/5/2014	18.6	11.4	-	-11.47	-15.47	-22.96	88.97	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
1/6/2014	11.9	11	-	-10.08	-10.91	-11.81	92.77	2.3	*0*	239.5	*0.17*	239.47	No mining operations, Care and Maintenance
2/1/2014	9.7	11.9	-	-13.87	-15.42	-16.72	89.15	0	0.17	68.5	1.26	41.1	No mining operations, Care and Maintenance
2/2/2014	<5.6	<5.6	-	-10.84	-13.88	-16.51	90.43	0	0.7	54.6	2.99	45.8	No mining operations, Care and Maintenance
2/3/2014	<5.6	<5.6	-	-13.05	-16.23	-18.55	88.38	0	0.71	8.2	4.06	12.8	No mining operations, Care and Maintenance
2/4/2014	<5.6	6.4	-	-16.81	-19.32	-20.81	85.64	0	0.31	66.7	2.22	19.1	No mining operations, Care and Maintenance
3/5/2014	<5.6	<5.6	-	-13.83	-18.81	-21.99	54.48	0	1.1	59.6	3.62	124	No mining operations, Care and Maintenance
3/6/2014	<5.6	<5.6	-	-14.55	-20.5	-26.02	61.57	0	1.24	36.8	4.91	117.7	No mining operations, Care and Maintenance
3/7/2014	<5.6	<5.6	-	-15.31	-21.47	-26.79	62.8	0	0.84	38.6	3.17	5.5	No mining operations, Care and Maintenance
3/25/2014	<5.6	<5.6	-	-1.15	-9.04	-16.37	41.09	0	2.09	39.8	5.68	79.2	No mining operations, Care and Maintenance
4/12/2014	<5.6	<5.6	-	1.63	-6.67	-14.67	40.6	0	1.38	23.9	4.11	241.38	Exploration activities at Flame & Moth
4/13/2014	6.8	8.1	-	5.29	-0.4	-6.75	39.56	0.4	1.16	34.5	4.06	355.5	Exploration activities at Flame & Moth
4/14/2014	18.8	20.3	-	8.44	3.51	-0.45	45.57	0.1	1.43	56.6	5.66	15.6	Exploration activities at Flame & Moth
4/15/2014	15.7	14.4	-	8.6	3.21	-1.58	56.03	0	1.46	31.1	6.69	133.6	Exploration activities at Flame & Moth
5/11/2014	21.9	23.2	-	13.32	7.67	2.564	40.33	0.4	1.81	3.5	6.44	302.1	Exploration activities at Flame & Moth
5/12/2014	14.4	10	-	15.92	9.23	1.645	40.14	0.2	1.55	10.5	6.13	209.7	Exploration activities at Flame & Moth
5/13/2014	<5.6	18.6	-	17.93	11.47	4.408	47.25	0.2	2.2	335.7	8.58	194.22	Exploration activities at Flame & Moth
5/29/2014	17.1	<5.6	-	17.05	10.5	2.236	58.36	1.2	1.64	3.6	7.38	314.9	Exploration activities at Flame & Moth
6/26/2014	<5.6	-	-	15.56	11.04	5.062	48.68	0.4	2.02	79.7	7.96	150.5	Exploration activities at Flame & Moth
6/27/2014	<5.6	5.6	-	18.11	12.96	8.05	48.56	0	1.42	34.9	5.67	322.6	Exploration activities at Flame & Moth
6/28/2014	-	<5.6	-	23.06	16.15	6.332	38.97	0.4	2.11	328.2	7.94	285.6	Exploration activities at Flame & Moth
6/29/2014	<5.6	<5.6	-	24.93	17.07	7.576	40.23	0.2	1.9	35	6.44	336.1	Exploration activities at Flame & Moth
6/30/2014	<5.6	<5.6	-	17.12	14.37	12.5	67.69	0	1.12	47.7	6.95	92.8	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)	Minimum 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 (°)	Activities at site
7/8/2014	<5.6	<5.6	-	16.39	12.98	8.98	63.26	0	1.57	326.4	6.45	223.65	Exploration activities at Flame & Moth
7/27/2014	<5.6	<5.6	-	16.61	11.39	8.41	83.5	2.8	1.11	228.9	5.3	334.3	Exploration activities at Flame & Moth
7/28/2014	<5.6	<5.6	-	18.93	12.56	7.43	68.18	0.6	1.36	220.2	6.31	151.2	Exploration activities at Flame & Moth
7/29/2014	<5.6	<5.6	-	15.18	12.05	9.11	79.4	3.4	1.69	211.1	6.9	320.3	Exploration activities at Flame & Moth
8/22/2014	<5.6	<5.6	-	14.95	10.31	6.149	76.43	0	1.35	44.2	5.99	16.6	Exploration activities at Flame & Moth
8/23/2014	6.9	16.7	-	16.65	10.05	4.659	78.54	1.5	1.37	59.5	4.99	143.45	Exploration activities at Flame & Moth
8/24/2014	<5.6	5.6	-	14.83	9.69	5.429	74.6	0	1.6	55.6	5.76	354.8	Exploration activities at Flame & Moth
8/25/2014	<5.6		-	12.09	9.4	7.071	86.62	1.1	0.73	18.6	3.96	354	Exploration activities at Flame & Moth
8/26/2014	-	<5.6	-	11.48	8.22	5.645	91.57	16	0.65	51.2	4.1	193.15	Exploration activities at Flame & Moth
9/20/2014	<5.6	<5.6	-	8.42	6.1	4.174	77.89	0	1	58.8	5.53	94.3	Exploration activities at Flame & Moth
9/23/2014	5.6	6.9	-	4.986	0.95	-1.977	88.36	0.7	1.51	271.1	7.22	194.91	Exploration activities at Flame & Moth
9/24/2014	5.6	6.9	-	4.955	-0.44	-3.427	76.34	0.4	1.28	22.7	4.81	221.03	Exploration activities at Flame & Moth
9/27/2014	5.6	<5.6	-	4.42	0.96	-1.406	89.84	3.5	1.42	32.8	8.05	166	Exploration activities at Flame & Moth
10/15/2014	9.7	18.1	-	-0.86	-3.51	-5.65	87.21	0.1	0.88	25.4	3.51	30.7	Exploration activities at Flame & Moth
10/16/2014	<5.6	<5.6	-	-0.581	-1.62	-3.093	89.96	0	1.1	28.4	4.97	25.6	Exploration activities at Flame & Moth
10/23/2014	<5.6	<5.6	-	-3.667	-4.97	-5.752	89.54	0	0.93	30.2	4.95	34.6	Exploration activities at Flame & Moth
10/24/2014	<5.6	<5.6	-	-2.715	-4.57	-5.456	95.21	0	0.79	39.2	3.81	171.6	Exploration activities at Flame & Moth
11/19/2014	10	-	-	-2.206	-3.73	-5.562	97.74	0	0.45	50.3	2.98	187.456	No mining operations, Care and Maintenance
11/20/2014	<5.6	-	-	-4.7	-10	-15.01	93.46	0	0.49	124.5	2.75	117	No mining operations, Care and Maintenance
11/22/2014	-	<5.6	-	-18.86	-19.79	-21.6	85.38	0.2	0.22	12.2	1.61	29.1	No mining operations, Care and Maintenance
11/23/2014	-	5.8	-	-17.53	-19.71	-22.09	85.39	0.1	0.15	14.1	2.55	17	No mining operations, Care and Maintenance
11/24/2014	<5.6	-	-	-14.55	-16.44	-18.21	88.27	0.1	0.18	45	1.58	28.1	No mining operations, Care and Maintenance
11/25/2014	10.4	8.1	-	-11.02	-12.48	-13.85	91.5	0	*0.18*	30.3	*1.31*	40.8	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	No mining operations, Care and Maintenance
12/13/2014	5.8	11.7	16	-11.22	-14.47	-17.02	89.88	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
12/14/2014	-	5.6	<5.6	-2.637	-10.17	-15.75	93.13	0.1	n/a	n/a	0.04	46.8	No mining operations, Care and Maintenance
12/15/2014	<5.6	<5.6	<5.6	-0.904	-1.88	-4.157	85.83	0	*0.78*	48.5	*8.87*	155.1	No mining operations, Care and Maintenance
12/17/2014	<5.6	-	-	-5.392	-6.76	-8.51	94.93	0	0.55	69.5	3.02	38.6	No mining operations, Care and Maintenance
1/10/2015	5.6	<5.6	-	-9.46	-10.34	-10.97	93.47	0	0.09	251.9	1.42	10.3	No mining operations, Care and Maintenance
1/11/2015	<5.6	<5.6	-	-9.37	-10.03	-10.63	93.32	0	*0.11*	65.4	*1.26*	33.4	No mining operations, Care and Maintenance
1/12/2015	-	-	<5.6	-9.68	-10.29	-11.46	93.2	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
1/13/2015	<5.6	<5.6		-6.068	-8.44	-11.23	94.59	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
1/15/2015	6.1	<5.6	<5.6	-0.888	-5.06	-9.68	96.82	0	*0.22*	356.6	*3.7*	38.4	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)	Minimum 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 (°)	Activities at site
1/16/2015	-	-	<5.6	-0.335	-2.85	-7.954	98.1	0	1.14	346.9	4.48	187.95	No mining operations, Care and Maintenance
1/18/2015	-	-	<5.6	-3.823	-6.18	-8.51	96	0.2	0.69	60.2	4.21	170.8	No mining operations, Care and Maintenance
2/12/2015	-	6.3	8.6	-11.62	-13.95	-15.81	89.23	0	0.37	19.4	3.26	272	No mining operations, Care and Maintenance
2/13/2015	<5.6	<5.6	-	-6.289	-8.23	-11.42	93.9	0	0.52	24.5	4.93	37.9	No mining operations, Care and Maintenance
2/15/2015	7.1	<5.6	8.8	-3.145	-6.33	-9.71	92.52	7.3	0.73	98.5	3.04	97.7	No mining operations, Care and Maintenance
2/16/2015	<5.6	<5.6	7.9	-2.157	-7.74	-11.49	93.95	0.7	0.85	15.9	4.61	30.5	No mining operations, Care and Maintenance
2/18/2015	<5.6	-	11.5	-0.889	-2.64	-4.515	96.48	0	0.42	29.1	3.69	7.9	No mining operations, Care and Maintenance
3/6/2015	7.1	7.8	<5.6	-0.298	-3.66	-5.577	86.59	0.1	1.37	322.7	6.53	188.22	No mining operations, Care and Maintenance
3/7/2015	<5.6	<5.6	<5.6	0.932	-2.44	-4.272	78.47	0.2	1.42	30.5	6.22	180.242	No mining operations, Care and Maintenance
3/16/2015	6.7	<5.6	9	-12.89	-19.53	-26.15	73.31	0	0.89	14.5	3.84	17	No mining operations, Care and Maintenance
3/17/2015	<5.6	<5.6	16.5	-1.807	-9.23	-13.81	72.37	0.3	0.93	28.9	4.24	24	No mining operations, Care and Maintenance
4/2/2015	<5.6	<5.6	<5.6	4.032	-1.57	-5.899	66.26	0	1.7	27.7	4.94	71	No mining operations, Care and Maintenance
4/3/2015	<5.6	<5.6	<5.6	2.002	-2.72	-7.184	58.66	0	2.35	16.5	7.17	88.7	No mining operations, Care and Maintenance
4/4/2015	<5.6	<5.6	5.7	3.513	-3.7	-10.48	61.55	0	1.53	71	6.57	152.2	No mining operations, Care and Maintenance
4/5/2015	<5.6	<5.6	5.8	3.213	-2.1	-5.496	84.15	0	1.2	345.9	7.63	247.74	No mining operations, Care and Maintenance
5/21/2015	-	-	<5.6	23.83	16.28	7.585	34.05	0	1.73	13	5.17	238.3	No mining operations, Care and Maintenance
5/22/2015	-	-	<5.6	25.09	17.82	10.28	29.16	0	1.71	25.5	6.02	300.9	No mining operations, Care and Maintenance
5/23/2015	-	-	8.8	26.43	19.79	12.86	26.79	0	1.36	18.1	9.86	184.223	No mining operations, Care and Maintenance
5/24/2015	-	-	9.9	26.51	19.2	11.59	32.85	0	1.79	91.6	7.59	167.6	No mining operations, Care and Maintenance
5/25/2015	15.8	18.9	-	25.12	17.97	10.28	38.93	0	2.05	1.8	8.18	180.742	No mining operations, Care and Maintenance
5/26/2015	22.2	26.4	-	21.73	15.55	9.78	53.49	0	1.79	32.8	9.22	90.9	No mining operations, Care and Maintenance
5/27/2015	15.8	15	-	22.99	16.43	11.38	52.67	0	2.18	351.8	8.63	24	No mining operations, Care and Maintenance
5/28/2015	6.3	5.8	-	20.98	14.38	8.42	62.4	0	1.94	333.9	10.63	269	No mining operations, Care and Maintenance
6/16/2015	<5.6	<5.6	<5.6	19.74	13.76	6.668	51.79	0.9	1.75	21.2	10.14	354.4	No mining operations, Care and Maintenance
6/17/2015	<5.6	9.3	<5.6	15.41	11.36	6.976	63.5	0	2.66	357.7	9.73	337.9	No mining operations, Care and Maintenance
6/18/2015	<5.6	<5.6	<5.6	18.34	11.65	4.589	42.59	0	2.27	349.6	7.18	316.9	No mining operations, Care and Maintenance
7/1/2015	-	<5.6	68.1	15.59	11.07	7.143	76.46	1.4	1.58	304.9	7.87	205.51	No mining operations, Care and Maintenance
7/8/2015	15.4	32.1	43.8	17.01	12.85	10.73	80.11	3.2	1.68	276.1	11.49	257.07	No mining operations, Care and Maintenance
7/11/2015	<5.6	7.6	<5.6	14.04	12.35	10.35	75.27	9.5	1.01	39	5.52	152.4	No mining operations, Care and Maintenance
7/20/2015	9.6	5.7	13.1	17.42	11.86	4.725	62.55	0	2.03	2	9.09	318.7	No mining operations, Care and Maintenance
8/13/2015	6.8	10.4	-	14.48	7.56	0.308	64.18	0	1.56	4.2	6.06	322.4	No mining operations, Care and Maintenance
8/14/2015	11.4	<5.6	9.7	16.49	9.14	3.399	70.07	0	1.67	34.3	6.71	224.49	No mining operations, Care and Maintenance
8/15/2015	7.4	9	6.4	18.97	11.31	4.551	63.45	0	1.67	1.3	5.93	215.3	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)	Minimum 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 (°)	Activities at site
8/16/2015	11	8.6	6.5	16.31	11.81	8.21	64.84	0	1.52	298.6	6.48	207.91	No mining operations, Care and Maintenance
9/17/2015	5.7	<5.6		8.56	5.26	3.57	83.42	4.4	1.69	121.4	6.94	142.7	No mining operations, Care and Maintenance
10/20/2015	6	<5.6	5.6	3.167	1.32	-1.097	89.12	0	0.99	90.8	5.45	120.4	No mining operations, Care and Maintenance
10/21/2015	<5.6	8.2	<5.6	2.824	0.27	-1.349	89.93	0	0.7	23.8	5.71	140.6	No mining operations, Care and Maintenance
11/13/2015	21.4	14	16	-11.46	-12.67	-14.95	91.27	2.4	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
11/15/2015	10.3	10	8.5	-14.97	-16.71	-19.11	88	1	*n/a*	n/a	*0.09*	205.82	No mining operations, Care and Maintenance
11/16/2015	10.8	12.2	6.9	-14.95	-16.51	-18.04	88.14	0.2	*0.36*	19.4	*2.93*	26	No mining operations, Care and Maintenance
11/17/2015	17.8	20.8	-	-17.84	-18.96	-22.21	85.9	0.3	*0.69*	20.9	*2.99*	20.7	No mining operations, Care and Maintenance
11/18/2015	9.7	17.4	-	-22.09	-25.52	-29.1	79.53	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
12/16/2015	<5.6	-	<5.6	-15.9	-17.77	-21.21	87.08	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
12/17/2015	<5.6	-	<5.6	-12.54	-17.25	-19.91	87.61	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
12/18/2015	<5.6	-	<5.6	-10.93	-11.8	-12.91	91.85	0.1	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
12/19/2015	<5.6	-	<5.6	-11.73	-12.75	-14.99	90.93	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
1/5/2016	<5.6	-	<5.6	-12.1	-14.93	-16.42	89.23	0	0.41	49.4	2.1	76.3	No mining operations, Care and Maintenance
1/6/2016	<5.6	-	<5.6	-14.12	-15.06	-15.93	85.37	0	0.21	47.1	1.59	30.3	No mining operations, Care and Maintenance
1/7/2016	-	-	<5.6	-14.34	-15.65	-16.56	79.81	4	0.33	64.8	2.2	36.4	No mining operations, Care and Maintenance
1/8/2016	<5.6	-	-	-15.34	-16.32	-17.01	79.46	0	0.51	88.9	2.41	140.3	No mining operations, Care and Maintenance
2/26/2016	<5.6	-	<5.6	-2.88	-6.39	-9.04	89.98	0	0.83	44.7	3.82	14.3	No mining operations, Care and Maintenance
2/27/2016	<5.6	-	<5.6	-0.499	-3.86	-5.51	89.43	0.2	0.9	18.1	5.08	341.7	No mining operations, Care and Maintenance
2/28/2016	<5.6	-	<5.6	-0.842	-2.71	-5.93	76.81	0	1.14	30.8	6.79	139.1	No mining operations, Care and Maintenance
3/12/2016	<5.6	<5.6	<5.6	3.148	-2.98	-7.6	62.41	0.2	1.07	68.3	4.02	90.3	No mining operations, Care and Maintenance
3/14/2016	<5.6	<5.6	<5.6	-4.622	-6.39	-9.43	83.42	0	1.14	17.3	3.71	21.7	No mining operations, Care and Maintenance
3/15/2016	<5.6	<5.6	<5.6	-3.963	-6.65	-9.78	91.08	0.1	0.77	25.8	3.96	45.1	No mining operations, Care and Maintenance
4/19/2016	<5.6	<5.6	<5.6	4.494	0.18	-5.34	60.59	0	1.58	13.4	6.15	318.7	No mining operations, Care and Maintenance
4/23/2016	<5.6	<5.6	<5.6	12.14	5.94	0.67	67.36	0.5	1.25	74.3	5.66	111.3	No mining operations, Care and Maintenance
4/24/2016	<5.6	<5.6	<5.6	13.5	7.5	2.87	59.67	0	1.27	32.3	5.58	64.8	No mining operations, Care and Maintenance
5/23/2016	<5.6	<5.6	<5.6	15.41	10.35	2.5	55.84	0	1.95	10.5	6.47	319.6	No mining operations, Care and Maintenance
5/25/2016	10.6	<5.6	<5.6	9.99	7.54	5.79	64.33	0.2	2.36	359.9	8.15	339.7	No mining operations, Care and Maintenance
6/13/2016	<5.6	<5.6	<5.6	14.65	10.54	6.45	73.67	1.1	1.33	26.6	4.77	339	No mining operations, Care and Maintenance
6/17/2016	<5.6	<5.6	<5.6	21.96	15.16	8.18	37.44	0	1.9	8.8	7.63	317.6	No mining operations, Care and Maintenance
6/19/2016	9.7	22.6	6.1	25.98	18.97	9.57	35.04	0	2.41	292.5	9.21	198.7	No mining operations, Care and Maintenance
7/28/2016	<5.6	<5.6	<5.6	18.66	14.78	10.16	67.43	1.7	1.57	61.8	7.73	236.2	No mining operations, Care and Maintenance
7/29/2016	<5.6	<5.6	<5.6	15.55	11.73	7.72	88.27	2.7	0.95	61.3	4.2	238.4	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)	Minimum 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 (°)	Activities at site
7/30/2016	<5.6	<5.6	<5.6	15.5	12.59	9.46	78.82	0.6	1.44	285.4	6.19	233.8	No mining operations, Care and Maintenance
8/9/2016	<5.6	<5.6	<5.6	12.96	11.51	9.52	93.48	8.5	1.17	302.7	5.5	194.6	No mining operations, Care and Maintenance
8/10/2016	<5.6	<5.6	<5.6	11.59	9.94	8.94	91.5	2.9	1.31	355.7	7.75	255.8	No mining operations, Care and Maintenance
8/11/2016	<5.6	<5.6	<5.6	16.77	11.59	7.05	75.82	0.1	0.87	337.9	5.6	228.3	No mining operations, Care and Maintenance
9/28/2016	<5.6	<5.6	<5.6	5.192	0.46	-2.5	67.44	0	1.38	79.8	5.88	178.1	No mining operations, Care and Maintenance
9/29/2016	<5.6	<5.6	<5.6	3.332	0.51	-3.57	67.16	0.2	2.12	349.2	8.03	309.6	No mining operations, Care and Maintenance
9/30/2016	<5.6	<5.6	<5.6	3.833	-1.67	-6.18	65.93	0	1.35	48.9	4.13	209.7	No mining operations, Care and Maintenance
10/5/2016	8.8	6.7	5.7	1.857	-4.62	-8.16	70.26	0	1.36	59.1	3.94	111.7	No mining operations, Care and Maintenance
10/7/2016	<5.6	-	<5.6	1.909	-4.42	-8.66	67.82	0	1.41	74.1	3.65	126.2	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	No mining operations, Care and Maintenance
10/27/2016	-	<5.6	-	-5.793	-8.05	-10.39	89.97	0.3	0.96	39.1	3.35	16.5	No mining operations, Care and Maintenance
11/26/2016	<5.6	<5.6	<5.6	-8.12	-13.62	-17.72	89.97	0	*0.45*	20.1	*3.97*	23.1	No mining operations, Care and Maintenance
11/27/2016	<5.6	6.1	7.6	-6.422	-6.91	-8.06	95.25	0	0.45	39.6	3.59	37.4	No mining operations, Care and Maintenance
11/28/2016	<5.6	<5.6	<5.6	-6.707	-8.32	-13.37	94.16	1.3	*0.34*	119.1	*4.63*	179.3	No mining operations, Care and Maintenance
12/27/2016	<5.6	<5.6	<5.6	-11.02	-11.92	-14.1	91.65	0	0.05	51	1.2	63.8	No mining operations, Care and Maintenance
12/29/2016	<5.6	<5.6	<5.6	-14.61	-16.92	-19.94	87.48	0	*0.12*	147.9	*1.53*	184.4	No mining operations, Care and Maintenance
12/30/2016	<5.6	<5.6	<5.6	-14.31	-16.67	-18.52	87.67	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
1/28/2017	<5.6	<5.6	<5.6	-2.812	-4.68	-6.23	77.47	0	1.36	19.2	5.45	23.8	No mining operations, Care and Maintenance
1/29/2017	<5.6	<5.6	<5.6	-3.933	-7.42	-12.29	93.13	0	1.41	335.4	5.89	193.2	No mining operations, Care and Maintenance
1/30/2017	<5.6	<5.6	<5.6	-12.36	-16.09	-19.73	84.55	0	1.06	96.9	3.83	112.3	No mining operations, Care and Maintenance
2/2/2017	-	<5.6	-	-20.22	-21.79	-23.16	83.14	0	0.35	7.5	2.25	90.9	No mining operations, Care and Maintenance
2/14/2017	<5.6	<5.6	-	4.767	3.12	0.27	62.56	18.1	3.42	108.6	11.61	138.2	No mining operations, Care and Maintenance
2/18/2017	8.8	6.5	<5.6	-9.24	-14.62	-16.86	79.32	0	0.73	53.2	3.41	96.2	No mining operations, Care and Maintenance
2/19/2017	<5.6	<5.6	<5.6	-10.69	-15.61	-17.89	78.99	0	0.68	59.2	3.7	108.8	No mining operations, Care and Maintenance
2/20/2017	-	-	<5.6	-11.48	-15.99	-18.31	80.63	0	0.69	49.4	2.89	98.1	No mining operations, Care and Maintenance
3/23/2017	-	<5.6	-	-5.982	-12.3	-16.98	74.85	0	1.23	21.8	3.92	350.1	No mining operations, Care and Maintenance
3/25/2017	<5.6		-	-9.14	-13.94	-17.87	73.19	0	2.52	14.7	5.84	336.3	No mining operations, Care and Maintenance
3/27/2017	<5.6	<5.6	-	-1.321	-8.92	-16.19	68.59	0.1	1.43	55.2	7.7	92	No mining operations, Care and Maintenance
3/28/2017	<5.6	<5.6	-	2.596	-2.91	-7.28	78.33	0.7	1.72	57.2	6.25	169.5	No mining operations, Care and Maintenance
4/14/2017	5.7	<5.6	-	5.503	-1.28	-8.49	58.58	0	1.52	8.3	7.33	262.9	No mining operations, Care and Maintenance
4/18/2017	<5.6	6.5	-	-1.935	-8.36	-15.36	40.66	0	2.07	39.7	10.23	343.8	No mining operations, Care and Maintenance
4/20/2017	<5.6	5.7	-	-3.151	-8.49	-14.59	42.05	0	2.66	1.5	6.63	321.3	No mining operations, Care and Maintenance
5/25/2017	<5.6	<5.6	-	13.56	8.74	4.31	59.86	0	1.61	31.2	7.19	254.5	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)	Minimum 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 (°)	Activities at site
5/26/2017	<5.6	<5.6	-	7.391	3.62	0.76	80.44	5.6	2.19	281	10.29	249.3	No mining operations, Care and Maintenance
5/30/2017	<5.6	11.1	-	17.42	12.48	8.6	46.99	0	2.4	347.7	8.74	206.5	No mining operations, Care and Maintenance
6/1/2017	<5.6	<5.6	-	12.23	9.09	5.07	60.89	0	2.38	63.3	6.83	94.3	No mining operations, Care and Maintenance
6/8/2017	<5.6	6.1	-	25.34	20.56	14.96	29.44	0.5	2.07	76.2	7.33	85.1	No mining operations, Care and Maintenance
6/9/2017	<5.6	<5.6	-	24.13	19.01	12.95	45.12	0	1.78	11.4	9.34	287.6	No mining operations, Care and Maintenance
6/13/2017	<5.6	<5.6	-	10.14	4.91	-0.9	38.16	0	2.18	42.5	13.32	335.6	No mining operations, Care and Maintenance
6/15/2017	-	-	<5.6	14.9	10.39	2.94	38.74	0	1.27	70.2	5.5	79.5	No mining operations, Care and Maintenance
6/16/2017	-	-	<5.6	16.56	11.43	4.81	50.45	0	1.59	15.8	8.91	311.5	No mining operations, Care and Maintenance
6/20/2017	-	-	9.9	20.64	14.23	8.78	51.8	0	1.68	321.7	9.28	206.9	No mining operations, Care and Maintenance
7/4/2017	-	8.5	-	20.37	15.89	9.55	42.58	0	2	16.7	7.96	338.3	No mining operations, Care and Maintenance
7/5/2017	-	7.6	-	24.54	17.32	8.12	39.77	0.8	1.52	31.5	5.25	331.7	No mining operations, Care and Maintenance
7/7/2017	-	10.6	-	27.18	20.31	11.61	38.51	0.1	1.62	53.7	6.76	178.4	No mining operations, Care and Maintenance
7/18/2017	8.5	-	9.7	20.81	13.1	8.32	82.36	1.9	1.37	46.2	13.65	349.3	No mining operations, Care and Maintenance
7/20/2017	-	-	6	20.7	15.78	9.53	63.3	0.2	1.79	11.1	9.43	284.1	No mining operations, Care and Maintenance
7/21/2017	-	-	<5.6	17.26	13.2	10.8	79.06	1	1.43	29.5	10.42	253.4	No mining operations, Care and Maintenance
7/25/2017	12.5	-	-	20.81	16.42	11.24	60.04	0	1.71	35.7	8.58	335.3	No mining operations, Care and Maintenance
7/27/2017	<5.6	-	-	14.94	11.75	8.44	77.83	0	1.71	47.7	5.46	96.9	No mining operations, Care and Maintenance
8/2/2017	8.8	-	6.1	21.73	15.44	9.3	60.75	0	1.8	354.7	7.21	193.4	No mining operations, Care and Maintenance
8/4/2017	<5.6	-	<5.6	19.12	15.31	10.51	60.32	0	1.72	1.9	6.17	203.7	No mining operations, Care and Maintenance
8/6/2017	11.7	-	6.1	24.03	16.57	9.37	49.23	0	1.48	25.7	6.35	222.8	No mining operations, Care and Maintenance
8/9/2017	-	41.1	-	28.31	19.3	11.34	45.48	0	1.75	39.7	5.73	219.6	No mining operations, Care and Maintenance
8/11/2017	-	17.8	-	22.04	16.94	12.9	50.64	0	1.76	99.7	8.07	163.6	No mining operations, Care and Maintenance
8/15/2017	-	<5.6	-	12.01	7.92	4.54	81.39	0.3	1.27	341	5.75	199.9	No mining operations, Care and Maintenance
9/20/2017	7.6	7.2	7.1	10.76	7.23	4.57	75.59	0	0.88	23.8	4.29	345.6	No mining operations, Care and Maintenance
9/26/2017	-	<5.6	<5.6	6.973	3.16	-0.17	81.17	0.1	1.37	46.7	4.24	12.2	No mining operations, Care and Maintenance
9/27/2017	7.1	-	-	9.4	4.85	2.43	85.17	1.4	1.72	55.6	9.86	143.6	No mining operations, Care and Maintenance
9/29/2017	6.7	<5.6	<5.6	8.55	3.54	-0.46	84.7	0.4	1.14	71	3.71	352.7	No mining operations, Care and Maintenance
10/3/2017	<5.6	<5.6	<5.6	6.991	4.19	1.17	66.06	0	0.9	63.5	3.47	6.4	No mining operations, Care and Maintenance
10/5/2017	<5.6	<5.6	<5.6	9	4.97	2.37	80.66	4.7	1.56	112.6	6.03	154.4	No mining operations, Care and Maintenance
10/6/2017	<5.6	<5.6	<5.6	6.152	3.33	-0.21	86.92	0.3	1.19	353.3	6.01	347.3	No mining operations, Care and Maintenance
11/2/2017	<5.6	-	-	-10.4	-11.79	-14.32	90.97	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
11/16/2017	<5.6	-	-	-19.45	-20.55	-21.31	83.8	0	0.22	26.7	2.28	120.7	No mining operations, Care and Maintenance
11/17/2017	<5.6	-	-	-19.7	-21	-23.24	83.29	0	0.3	29.3	2.08	36.9	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)	Minimum 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 (°)	Activities at site
11/30/2017	-	<5.6	<5.6	-9.73	-11.89	-13.8	91.4	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
12/5/2017	-	<5.6	<5.6	-5.088	-6.78	-8.39	94.24	0.8	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
12/7/2017	-	<5.6	<5.6	3.777	0.39	-1.82	90.97	3.7	1.94	113.9	11.65	142.3	No mining operations, Care and Maintenance
12/12/2017	-	<5.6	<5.6	-3.688	-6.4	-8.45	86.7	0	1.15	100.2	4.75	168.2	No mining operations, Care and Maintenance
12/13/2017	<5.6	-	-	-5.324	-8.94	-12.34	94.1	0.4	0.89	43.8	4.35	43.4	No mining operations, Care and Maintenance
12/15/2017	<5.6	-	-	-0.017	-2.54	-6.63	98.31	2.7	0.65	n/a	2.4	166.2	No mining operations, Care and Maintenance
12/19/2017	<5.6	-	-	-10.78	-13.18	-15.23	90.91	0	n/a	n/a	n/a	n/a	No mining operations, Care and Maintenance
12/20/2017	<5.6		<5.6	-10.64	-13.18	-15.75	90.9	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
12/21/2017	-	<5.6		-12.8	-14.28	-16.66	90.1	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
12/24/2017	-	<5.6	<5.6	-20.24	-21.89	-23.4	83.5	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
12/26/2017	-	<5.6		-14	-16.83	-20.1	87.8	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
12/28/2017	-	-	<5.6	-22.05	-23.34	-25.35	81.7	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
12/29/2017	<5.6	-	-	-23.53	-24.69	-25.99	80.5	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
1/2/2018	<5.6	<5.6	<5.6	-17.77	-21.06	-24.85	83.8	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
1/3/2018	<5.6	<5.6	<5.6	-8.86	-12	-17.82	91.6	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
1/4/2018	<5.6	<5.6	<5.6	-3.568	-6.759	-10.68	95.5	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
1/11/2018	<5.6	<5.6	<5.6	-29.94	-32.17	-34.3	72.05	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
1/18/2018	<5.6	<5.6	<5.6	2.077	-3.636	-9.47	70.06	0	0.79	220.9	3.254	293.6	No mining operations, Care and Maintenance
1/23/2018	<5.6	<5.6	<5.6	-16.02	-18.05	-19.86	86.4	0	0	n/a	0	n/a	No mining operations, Care and Maintenance
1/31/2018	<5.6	<5.6	<5.6	-20.77	-23.8	-26.18	77.53	0	2.81	192.4	7.213	194.5	No mining operations, Care and Maintenance
2/7/2018	<5.6	<5.6	<5.6	-23.2	-27.88	-30.68	76.39	0	0.407	219.8	2.519	192.2	No mining operations, Care and Maintenance
2/9/2018	<5.6	<5.6	-	-21.7	-24.92	-27.68	75.69	0	0.346	202.2	1.862	329.1	No mining operations, Care and Maintenance
2/10/2018	-	-	<5.6	-21.9	-26.24	-29.05	76.55	0	0.285	233.1	2.283	209	No mining operations, Care and Maintenance
2/14/2018	<5.6	<5.6	7.2	-10.29	-14.59	-17.29	87.7	0	0.985	229.6	2.754	271.3	No mining operations, Care and Maintenance
2/15/2018	<5.6	<5.6	<5.6	-14.19	-17.94	-20.59	83.6	0	0.258	198.1	1.999	199.1	No mining operations, Care and Maintenance
2/20/2018	<5.6	<5.6	<5.6	-13.48	-16.68	-19.24	85.5	0	0.981	190	7.801	53.28	No mining operations, Care and Maintenance
2/21/2018	<5.6	<5.6	<5.6	-7.666	-12.93	-16.87	87.7	0	2.24	206.8	7.556	57.43	No mining operations, Care and Maintenance
2/22/2018	<5.6	<5.6	<5.6	-5.597	-11.28	-16.38	76.97	0	0.654	227.1	3.567	296.9	No mining operations, Care and Maintenance
2/23/2018	<5.6	<5.6	<5.6	-10.39	-12.79	-15.82	88.2	0	1.17	254.8	7.605	75.33	No mining operations, Care and Maintenance
2/27/2018	<5.6	<5.6	<5.6	-12.56	-16.81	-19.73	82.2	0	0.623	233.4	3.508	322.5	No mining operations, Care and Maintenance
3/1/2018	<5.6	<5.6	<5.6	-14.97	-18.85	-22.31	67.1	0	1.304	219.9	4.606	201	No mining operations, Care and Maintenance
3/2/2018	<5.6	<5.6	<5.6	-13.68	-22.47	-26.45	64.83	0	1.001	235.6	3.861	209	No mining operations, Care and Maintenance
3/6/2018	<5.6	<5.6	<5.6	-11.09	-17.24	-21.55	75.15	0.2	0.955	200.4	3.371	282.6	No mining operations, Care and Maintenance

Sample Date	TSP-1 (µg/m^3)	TSP-2 (µg/m^3)	TSP-3 (µg/m^3)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum 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 (°)	Activities at site
3/8/2018	<5.6	<5.6	<5.6	-9.8	-14.65	-18.45	75.38	0.4	1.424	237.7	5.047	259.7	No mining operations, Care and Maintenance
3/13/2018	<5.6	<5.6	<5.6	2.905	-1.687	-5.331	52.33	0.6	1.566	199.7	4.782	201.2	No mining operations, Care and Maintenance
3/15/2018	<5.6	8.7	<5.6	11.19	2.594	-1.832	62.47	0.7	1.284	217.3	6.203	110.4	No mining operations, Care and Maintenance
3/16/2018	<5.6	<5.6	<5.6	8.27	1.377	-2.342	73.8	0.1	0.971	222.6	4.008	187.7	No mining operations, Care and Maintenance
3/20/2018	<5.6	<5.6	<5.6	2.731	-2.026	-6.887	70.84	0	2.006	227.3	8.16	225.8	No mining operations, Care and Maintenance
3/21/2018	<5.6	<5.6	<5.6	-2.753	-5.636	-9.05	64.22	0	3.028	240.6	9.13	257.7	No mining operations, Care and Maintenance
4/3/2018	<5.6	<5.6	12.6	-8.43	-11.97	-16.8	46.03	0	1.974	227.6	7.742	272.8	No mining operations, Care and Maintenance
4/4/2018	<5.6	<5.6	<5.6	-7.616	-14.89	-20.62	46.75	0	1.567	232.8	7.134	293	No mining operations, Care and Maintenance
4/5/2018	<5.6	<5.6	<5.6	-4.383	-13.63	-21.68	49.47	0	1.468	248.5	7.664	327.4	No mining operations, Care and Maintenance
4/10/2018	-	6.8	<5.6	3.482	-4.219	-11.3	46.21	0	2.111	235.5	9.28	273.2	No mining operations, Care and Maintenance
4/11/2018	-	<5.6	<5.6	5.638	-0.33	-8.02	50.97	0	1.739	264.9	6.948	315.3	No mining operations, Care and Maintenance
4/12/2018	<5.6	<5.6	<5.6	9.78	2.492	-1.88	52.16	0	1.008	240.5	4.077	327.7	No mining operations, Care and Maintenance
4/17/2018	<5.6	<5.6	<5.6	-1.369	-10.33	-17.82	37.8	0	1.407	219.1	4.792	162.3	No mining operations, Care and Maintenance
4/19/2018	<5.6	<5.6	<5.6	4.731	-5.377	-12.12	44.68	0	1.64	201.5	5.517	160.1	No mining operations, Care and Maintenance
4/20/2018	<5.6	-	-	1.881	-4.589	-12.95	48	0	1.605	205.7	8.79	6.711	No mining operations, Care and Maintenance
4/24/2018	<5.6	-	-	6.318	2.829	0.45	64.47	0	2.319	268.3	8.58	329.8	No mining operations, Care and Maintenance
4/26/2018	<5.6	<5.6	<5.6	9.08	4.068	-0.925	46.54	0	1.372	222.2	5.733	105.2	No mining operations, Care and Maintenance
5/1/2018	<5.6	<5.6	<5.6	8.74	3.581	-1.079	61.55	0	1.321	166.8	6.605	44.72	No mining operations, Care and Maintenance
5/3/2018	<5.6	<5.6	<5.6	1.493	-0.761	-4.476	92.8	8.5	1.435	247.8	6.458	333.9	No mining operations, Care and Maintenance
5/8/2018	<5.6	<5.6	<5.6	6.926	2.424	-1.006	70.64	2.8	1.604	275.1	5.811	300	No mining operations, Care and Maintenance
5/9/2018	-	<5.6	-	13.97	4.963	-3.265	51.91	1.5	1.286	220.4	5.782	302.9	No mining operations, Care and Maintenance
5/10/2018	-	-	<5.6	16.93	9.41	1.081	40.14	0	1.957	271.6	7.664	332.5	No mining operations, Care and Maintenance
5/15/2018	<5.6	<5.6	<5.6	8.09	2.989	0.68	91.2	6.7	0.833	224.5	4.684	180.5	No mining operations, Care and Maintenance
5/22/2018	<5.6	<5.6	<5.6	12.9	8.59	4.599	66.06	1.5	2.908	279.8	8.91	3.516	Flame and Moth development and Care and Maintenance at other sites
5/24/2018	<5.6	2.8	<5.6	14.14	8.17	3.204	56.99	0	1.255	195	9.56	344.4	Flame and Moth development and Care and Maintenance at other sites
5/26/2018	<5.6	-	<5.6	14.29	6.597	2.294	68.15	0.2	1.584	200.4	6.713	140	Flame and Moth development and Care and Maintenance at other sites
5/27/2018	-	5.7	<5.6	12.95	6.717	0.28	63.54	3.4	1.528	132.6	7.379	187.7	Flame and Moth development and Care and Maintenance at other sites
6/5/2018	<5.6	-	<5.6	17.56	11.68	6.132	58.24	0	1.356	228.7	7.722	271.6	Flame and Moth development and Care and Maintenance at other sites
6/6/2018	<5.6	-	<5.6	15.27	9.47	6.681	73.84	3.9	0.961	195.2	4.675	2.386	Flame and Moth development and Care and Maintenance at other sites
6/8/2018	<5.6	-	<5.6	13.94	7.995	4.234	78.94	3.2	1.149	195.8	5.037	151.1	Flame and Moth development and Care and Maintenance at other sites
6/11/2018	<5.6	-	<5.6	15.4	9.1	3.168	59.9	0.7	1.198	155.8	9.05	45.53	Flame and Moth development and Care and Maintenance at other sites
6/13/2018	<5.6	-	<5.6	15.33	9.16	3.967	63.04	0	1.763	151.5	6.517	15.94	Flame and Moth development and Care and Maintenance at other sites
6/14/2018		-	<5.6	15.35	10.38	4.373	52.95	0	1.65	165.4	6.36	55.49	Flame and Moth development and Care and Maintenance at other sites

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum 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 (°)	Activities at site
6/19/2018	<5.6	-	<5.6	25.17	17.37	11.27	45.09	0	1.523	146.4	8.56	136.6	Flame and Moth development and Care and Maintenance at other sites
6/20/2018	<5.6	-	<5.6	22.58	16.99	9.93	47.75	1.8	1.457	179.6	7.703	250.1	Flame and Moth development and Care and Maintenance at other sites
6/21/2018	-	-	<5.6	25.47	16.89	6.766	55.76	0.6	1.467	262.1	8.9	327	Flame and Moth development and Care and Maintenance at other sites
6/22/2018	-	<5.6	-	28.51	19.08	12.81	44.39	0.4	2.305	80.64	8.82	14.97	Flame and Moth development and Care and Maintenance at other sites
6/26/2018	<5.6	<5.6	-	18.37	11.25	3.459	71.78	3.1	1.605	217.9	5.968	150.3	Flame and Moth development and Care and Maintenance at other sites
7/3/2018	-	-	<5.6	19.5	12.45	5.41	64.46	1.9	1.364	180.4	7.477	173.1	Flame and Moth development and Care and Maintenance at other sites
7/4/2018	-	-	<5.6	20.96	13.44	5.519	63.67	0.1	2.269	155.4	10.06	60.14	Flame and Moth development and Care and Maintenance at other sites
7/6/2018	-	-	<5.6	19.5	14.66	8.5	46.85	0	1.762	146.8	6.625	76.48	Flame and Moth development and Care and Maintenance at other sites
7/10/2018	-	-	<5.6	20.06	15.79	12.04	47.65	0	2.028	300.3	8.61	328.7	Flame and Moth development and Care and Maintenance at other sites
7/11/2018	-	-	<5.6	17.4	12.56	8.6	61.01	6.3	1.929	162.1	8.92	15.82	Flame and Moth development and Care and Maintenance at other sites
7/12/2018	-	-	<5.6	17.39	10.93	7.336	75.51	2.5	1.636	205.7	7.997	107.2	Flame and Moth development and Care and Maintenance at other sites
7/13/2018	<5.6	-	<5.6	17.16	10.44	3.58	68.2	0	1.653	173.3	6.938	144.1	Flame and Moth development and Care and Maintenance at other sites
7/17/2018	<5.6	-	<5.6	13.2	8.93	6.197	86	11.3	1.041	221.1	6.556	102.4	Flame and Moth development and Care and Maintenance at other sites
7/18/2018	<5.6	-	5.8	17.06	9.33	5.835	84.6	4.3	1.282	168.3	5.88	168.3	Flame and Moth development and Care and Maintenance at other sites
7/24/2018	<5.6	-	6.9	26.58	17.31	11.24	52.87	0.1	1.532	214.9	6.674	43.67	Flame and Moth development and Care and Maintenance at other sites
7/26/2018	<5.6	34.9	-	29.01	19.41	11.04	41.71	0	2.021	141.2	7.664	25.33	Flame and Moth development and Care and Maintenance at other sites
7/27/2018	<5.6	9.9	-	27.41	18.97	11.24	42.93	0	1.947	140.2	7.203	68.43	Flame and Moth development and Care and Maintenance at other sites
7/31/2018		17.1	-	27.16	17.97	9.47	47.31	0	1.668	222.3	11.04	128	Flame and Moth development and Care and Maintenance at other sites
8/1/2018	<5.6	-	-	26.12	17	11.31	57.43	2	1.161	156.8	6.566	82.9	Flame and Moth development and Care and Maintenance at other sites
8/2/2018	-	-	<5.6	26.82	18.03	9.95	54.92	0	1.711	159.3	17.1	89.8	Flame and Moth development and Care and Maintenance at other sites
8/3/2018	-	-	-	23.89	16.56	12.37	65.1	0.9	0.934	201.1	4.557	200.2	Flame and Moth development and Care and Maintenance at other sites
8/4/2018	<5.6	-	<5.6	19.35	14.2	9.46	74.52	2.1	1.026	165.1	4.606	8.25	Flame and Moth development and Care and Maintenance at other sites
8/5/2018	-	<5.6	-	14.73	12.4	10.8	89.5	8.6	1.561	180.6	6.047	22.61	Flame and Moth development and Care and Maintenance at other sites
8/6/2018	-	-	<5.6	17.5	12.72	10.31	89.7	3.6	1.521	167.2	6.86	24.34	Flame and Moth development and Care and Maintenance at other sites
8/7/2018	<5.6	<5.6	<5.6	16.36	12.19	10.07	88	2.9	0.974	198.1	6.762	22.55	Flame and Moth development and Care and Maintenance at other sites
8/8/2018		<5.6	<5.6	15.83	11.44	8.69	87.2	20.2	1.118	217.3	6.399	4.31	Flame and Moth development and Care and Maintenance at other sites
8/17/2018	<5.6	<5.6	<5.6	14.46	8.84	4.09	80.6	0.1	1.836	187.8	9.34	60.18	Flame and Moth development and Care and Maintenance at other sites
8/18/2018	-	<5.6	<5.6	10.23	6.836	3.253	85.6	1.9	1.983	108.8	9.17	52.15	Flame and Moth development and Care and Maintenance at other sites
8/20/2018	-	<5.6	<5.6	18.46	10.9	3.702	62.5	0	1.529	170.8	7.036	8.11	Flame and Moth development and Care and Maintenance at other sites
8/21/2018	<5.6	10	<5.6	20.81	14.06	8.6	64.58	0	1.63	274.9	8.21	334.3	Flame and Moth development and Care and Maintenance at other sites
8/22/2018	<5.6	<5.6	-	21.91	15.15	10.29	67.48	0.2	1.627	191.5	8.53	337.5	Flame and Moth development and Care and Maintenance at other sites
8/23/2018	7.9	<5.6	-	14.27	9.01	6.972	88	16.8	1.576	102.1	5.919	27.36	Flame and Moth development and Care and Maintenance at other sites
8/25/2018	<5.6	-	-	10.22	6.52	2.828	92.2	4.1	1.577	226.6	6.644	129.5	Flame and Moth development and Care and Maintenance at other sites

Sample Date	TSP-1 (µg/m³)	TSP-2 (µg/m³)	TSP-3 (µg/m³)	Maximum Air Temperature (°C)	Mean Air Temperature (°C)	Minimum 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 (°)	Activities at site
8/26/2018	6.7	-	-	12.89	8.16	2.731	83	2.4	1.707	163.1	6.468	32.1	Flame and Moth development and Care and Maintenance at other sites
9/2/2018	<5.6	<5.6	<5.6	10.7	3.297	-3.314	76.05	0.3	2.042	230.2	10.51	146	Flame and Moth development and Care and Maintenance at other sites
9/3/2018	<5.6	<5.6	<5.6	7.869	4.126	-0.97	70	1	1.602	189.8	7.928	12.66	Flame and Moth development and Care and Maintenance at other sites
9/5/2018	<5.6	<5.6	<5.6	11.22	7.083	4.282	73	5.3	0.562	220.8	4.969	185	Flame and Moth development and Care and Maintenance at other sites
9/6/2018	<5.6	<5.6	5.6	9.76	5.046	1.52	89.4	0.4	1.081	233.6	4.43	71.58	Flame and Moth development and Care and Maintenance at other sites
9/7/2018	<5.6	<5.6	<5.6	9.76	4.749	0.924	85.5	0	1.63	233.9	6.39	266.1	Flame and Moth development and Care and Maintenance at other sites
9/9/2018	<5.6	<5.6	<5.6	12.45	4.741	-1.783	65.15	0	1.511	198.5	5.537	124.1	Flame and Moth development and Care and Maintenance at other sites
9/10/2018	<5.6	<5.6	<5.6	13.8	5.578	-1.006	57.21	0	2.177	195	6.997	158.1	Flame and Moth development and Care and Maintenance at other sites
9/11/2018	<5.6	<5.6	<5.6	12.66	6.037	0.766	52.38	0	1.781	198.9	6.419	226.1	Flame and Moth development and Care and Maintenance at other sites
9/12/2018	<5.6	<5.6	<5.6	8.56	2.232	-2.305	45.9	0	1.346	201	4.341	33.92	Flame and Moth development and Care and Maintenance at other sites
10/03/2018	-	-	-	6.692	-1.208	-5.38	51.29	0	1.448	12.21	3.577	289	Flame and Moth development and Care and Maintenance at other sites
10/05/2018	-	-	-	4.534	-2.66	-8.08	56.46	0	1.152	27.27	4.243	300.3	Flame and Moth development and Care and Maintenance at other sites
10/07/2018	-	-	-	0.935	-3.467	-7.314	53.84	0	2.261	71.17	6.703	274.3	Flame and Moth development and Care and Maintenance at other sites
10/08/2018	-	-	-	-2.852	-7.155	-12.41	65.21	0	1.29	319.71	5.106	195.2	Flame and Moth development and Care and Maintenance at other sites
10/24/2018	-	-	-	7.845	3.324	-1.82	79.21	0	1.886	294.78	10.43	316.1	Flame and Moth development and Care and Maintenance at other sites
10/25/2018	-	2.8	2.8	8.01	4.607	0.596	57.76	0	2.915	350.76	10.45	333.2	Flame and Moth development and Care and Maintenance at other sites
10/26/2018	2.8	2.8	2.8	7.011	3.262	0.086	63.37	0	1.397	301.93	7.762	322.1	Flame and Moth development and Care and Maintenance at other sites
10/30/2018	2.8	5.6	2.8	-2.415	-6.82	-9.65	79.84	0	0.634	63.48	2.45	307.9	Flame and Moth development and Care and Maintenance at other sites
10/31/2018	2.8	-	-	-4.917	-6.713	-9.25	93.6	0	0.599	286.71	4.479	346.8	Flame and Moth development and Care and Maintenance at other sites
11/07/2018	2.8	2.8	2.8	-17.86	-20.26	-22.45	84.3	0	0.352	322.68	2.176	318.3	No mining operations, Care and Maintenance
11/08/2018	2.8	2.8	-	-16.4	-19.66	-22.55	84.8	0	0.285	57.2	1.931	339.9	No mining operations, Care and Maintenance
11/09/2018	-	-	2.8	-9.49	-13.43	-19.61	89.9	0	0.315	292.83	2.744	192.3	No mining operations, Care and Maintenance
11/15/2018	2.8	2.8	14.7	-11.8	-15.51	-20.44	85	0	3.028	51.25	9.79	202	No mining operations, Care and Maintenance
11/18/2018	2.8	-	-	-12.66	-16.45	-20.72	87.6	0	0.403	59.23	2.411	170.1	No mining operations, Care and Maintenance
11/19/2018	-	-	-	-8.42	-11.62	-14.8	91.6	0	0.355	57.13	2.421	212.9	No mining operations, Care and Maintenance
11/21/2018	-	-	-	1.579	0.073	-1.312	96.3	0	0.439	n/a	3.41	122.6	No mining operations, Care and Maintenance
11/22/2018	-	-	-	-0.254	-2.923	-4.954	97.3	0	0	n/a	0	0	No mining operations, Care and Maintenance
11/23/2018	-	-	-	-4.941	-7.187	-9.83	95.7	0	0	n/a	0	0	No mining operations, Care and Maintenance
11/28/2018	-	-	-	2.828	0.677	-3.581	82	0	1.781	319.7	9.01	320.6	No mining operations, Care and Maintenance
11/30/2018	-	-	-	-3.325	-4.106	-5.694	96.9	0	0.292	279.51	2.558	356.1	No mining operations, Care and Maintenance
12/04/2018	-	-	-	-11.74	-16.04	-19.83	88.4	0	0.409	325.94	3.998	344.2	No mining operations, Care and Maintenance
12/07/2018	-	-	-	-9.47	-15.19	-19.61	89	0	0.351	39.55	2.577	258	No mining operations, Care and Maintenance
12/10/2018	-	-	-	2.125	0.859	-0.496	67.85	0	3.919	296.62	13.45	327.1	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)	Minimum 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 (°)	Activities at site
12/11/2018	-	-	-	-0.763	-3.102	-9.05	81.9	0	1.903	309.37	7.664	324.2	No mining operations, Care and Maintenance
12/12/2018	-	-	-	-0.763	-3.102	-9.05	81.9	0	1.903	359.61	7.664	319.6	No mining operations, Care and Maintenance
12/13/2018	-	-	-	-8.48	-11.5	-14.15	90.5	0	0.897	7.13	3.322	275.6	No mining operations, Care and Maintenance
12/14/2018	-	-	-	-10.96	-14.18	-17.34	88.5	0	0.796	338.86	3.695	241.4	No mining operations, Care and Maintenance
12/18/2018	-	5.7	2.8	-1.576	-3.757	-5.72	71.46	0	1.025	1.31	4.753	14.58	No mining operations, Care and Maintenance
12/26/2018	-	6.8	6.7	-24.57	-26.82	-27.92	77.75	0	0.321	49.67	2.372	209.7	No mining operations, Care and Maintenance
12/27/2018	7.9	6.9		-21.66	-23.42	-25.06	81.1	0	0.378	54.69	2.656	290.7	No mining operations, Care and Maintenance
12/28/2018	2.8	-	7.8	-14.64	-18.92	-22.93	85.5	0	0.265	359.5	2.597	237.8	No mining operations, Care and Maintenance
12/30/2018	2.8	-	-	-11.95	-16.35	-20.83	87.5	0	0.539	350.96	2.421	282.1	No mining operations, Care and Maintenance
01/10/2019	8.3	6.7	7.4	-24.49	-26.870833	-30.48	77.954583	0	0.1952917	247.125	2.156	355.8	No mining operations, Care and Maintenance
01/15/2019	-	7.8	7.6	-11.24	-12.59	-13.97	90.983333	0	0.0002917	9.125	0.372	219	No mining operations, Care and Maintenance
01/17/2019	7.6	7.1	6.5	-7.955	-8.7972917	-9.78	93.833333	0	0	0	0	0	No mining operations, Care and Maintenance
01/22/2019	7.8	8.3	-	-19.68	-23.188333	-27.11	81.6	0	0	0	0	0	No mining operations, Care and Maintenance
01/24/2019	-	-	-	-14.15	-17.783333	-19.34	86.291667	0	0	0	0	0	No mining operations, Care and Maintenance
01/25/2019	-	-	-	-7.034	-10.310083	-14.29	92.570833	0	0	0	0	0	No mining operations, Care and Maintenance
01/29/2019	-	-	-	-9.4	-13.645417	-16.68	90.083333	0	0.2775833	201.10417	2.342	330.2	No mining operations, Care and Maintenance
01/30/2019	-	-	-	-8.95	-13.7325	-19.7	86.863333	0	1.542625	163.5	6.399	237.3	No mining operations, Care and Maintenance
01/31/2019	-	-	-	-20.23	-23.748333	-26.83	72.5925	0	1.8998333	225.05833	5.723	264.8	No mining operations, Care and Maintenance
02/07/2019	-	-	-	-18.34	-20.36	-22.9	84.316667	0	0.3640833	248.46667	2.029	330.2	No mining operations, Care and Maintenance
02/08/2019	-	-	-	-15.76	-18.39	-20.57	85.941667	0	0.4845	239.89167	3.116	332.5	No mining operations, Care and Maintenance
02/21/2019	-	-	-	-14.18	-16.91875	-18.97	82.025	0	1.6579167	213.69167	5.909	286.5	No mining operations, Care and Maintenance
02/22/2019	-	-	-	-14.46	-19.284583	-22.41	73.145	0	1.3306667	221.35417	4.978	284	No mining operations, Care and Maintenance
02/23/2019	-	-	-	-18.04	-21.610833	-25.14	77.709167	0	0.998	231.96808	3.263	350	No mining operations, Care and Maintenance
02/25/2019	-	-	-	-12.6	-17.096667	-19.21	78.645417	0	0.6980417	242.25833	2.773	295.4	No mining operations, Care and Maintenance
02/26/2019	2.8	2.8	12.9	-9.67	-14.59	-17.76	78.19625	0	0.5995	227.91708	2.499	336.4	No mining operations, Care and Maintenance
02/27/2019	2.8	2.8	2.8	-7.037	-12.0065	-15.11	78.8	0	0.54175	233.21667	2.303	333.4	No mining operations, Care and Maintenance
02/28/2019	2.8	2.8	16.2	-6.324	-11.318083	-14.63	82.065833	0	0.5989167	221.4125	3.518	323.4	No mining operations, Care and Maintenance
03/05/2019	-	2.8	6.2	-10.06	-16.270417	-20.19	65.374167	0	0.9472083	224.21583	3.636	281.4	No mining operations, Care and Maintenance
03/06/2019	-	2.8	2.8	-8.03	-14.920417	-19.1	57.405833	0	0.8925	226.77917	3.489	294.4	No mining operations, Care and Maintenance
03/07/2019	-	2.8	2.8	-8.78	-14.665	-18.59	61.572083	0	1.197875	239.28333	3.322	297.3	No mining operations, Care and Maintenance
03/09/2019	2.8	-	-	-5.692	-11.172625	-16.56	64.7425	0	1.0441667	223.09583	4.577	275.8	No mining operations, Care and Maintenance
03/12/2019	2.8	-	-	2.254	-3.563875	-6.527	69.5725	0	1.170125	212.84292	4.302	333.9	No mining operations, Care and Maintenance
03/13/2019	2.8	-	-	1.848	-4.1465	-9.98	61.662083	0	1.9938333	297.51667	8.93	339.6	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)	Minimum 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 (°)	Activities at site
03/14/2019	-	-	-	3.302	-1.0593333	-4.462	59.0575	0	2.267	270.82375	8.36	359.7	No mining operations, Care and Maintenance
03/19/2019	-	-	-	10.84	6.23775	3.674	53.148333	0	3.2378333	308.1475	11.77	359.4	No mining operations, Care and Maintenance
03/27/2019	-	-	-	5.028	-0.1060417	-4.954	70.095833	0	1.2450833	216.0175	5.498	310.9	No mining operations, Care and Maintenance
04/02/2019	-	-	-	1.565	-2.1739583	-8.45	58.46125	0	2.5897917	258.53333	9.16	281.8	No mining operations, Care and Maintenance
04/04/2019	-	-	-	-4.519	-12.570708	-19.91	39.09375	0	1.4576667	231.20667	6.909	357.8	No mining operations, Care and Maintenance
04/09/2019	-	-	-	7.235	3.2065	-2.077	47.27125	0	1.5754167	270.42333	7.997	354.7	No mining operations, Care and Maintenance
04/11/2019	-	-	-	9.18	3.6364583	-1.373	42.927083	0	2.0464583	314.29583	8.23	350.4	No mining operations, Care and Maintenance
04/17/2019	-	-	-	8.96	1.47825	-4.434	60.352083	0	1.448125	246.592	8.05	334	No mining operations, Care and Maintenance
04/18/2019	-	-	-	5.594	2.8286667	0.351	70.36	0	1.7514583	248.90783	7.801	356.7	No mining operations, Care and Maintenance
04/19/2019	2.8	2.8	-	7.499	2.229375	-1.674	60.086667	0.438	2.2655417	256.18425	6.831	357	No mining operations, Care and Maintenance
04/20/2019	2.8	8.7	2.8	6.688	0.3529583	-5.158	56.128333	0.292	1.8405417	238.09813	6.948	358.5	No mining operations, Care and Maintenance
04/24/2019	-	-	2.8	0.96	-2.3745833	-4.882	75.500833	1.314	1.810625	141.10846	8.35	353.3	No mining operations, Care and Maintenance
04/25/2019	-	2.8	-	0.827	-3.3629583	-6.81	63.35125	0.73	1.6343333	185.6375	5.41	260.9	No mining operations, Care and Maintenance
04/30/2019	-	-	2.8	9.15	3.99175	-2.512	33.269167	0	2.079625	212.77083	8.35	293.8	No mining operations, Care and Maintenance
05/01/2019	6.1	2.8	2.8	8.81	5.1976667	1.7	33.942917	0	2.950375	197.1625	11.64	282.3	No mining operations, Care and Maintenance
05/07/2019	2.8	2.8	2.8	15.15	8.326	0.134	53.544167	0.73	1.8167917	186.5975	9.89	358.8	No mining operations, Care and Maintenance
05/08/2019	-	-	2.8	17.65	11.291292	7.342	48.362083	0.292	2.948125	290.48279	10.3	359.3	No mining operations, Care and Maintenance
05/09/2019	-	2.8	-	12.17	8.3606667	3.331	50.143333	0.438	2.3521667	146.60946	8.81	359.7	No mining operations, Care and Maintenance
05/14/2019	2.8	-	-	16.28	10.916792	5.083	28.129583	1.022	1.602	244.70833	6.801	316.1	No mining operations, Care and Maintenance
05/18/2019	-	-	-	10.95	7.726375	3.783	73.019167	0.876	0.9894583	193.77708	4.92	355.6	No mining operations, Care and Maintenance
05/21/2019	-	-	-	21.25	16.726667	11.5	31.793333	0	1.3025	249.77083	6.556	321.8	No mining operations, Care and Maintenance
05/23/2019	-	-	-	21.29	13.983083	7.437	44.230417	0	1.5660417	232.92208	7.654	333.1	No mining operations, Care and Maintenance
06/04/2019	-	-	-	13.42	9.1040417	3.934	47.038333	0	2.0071667	186.85	6.517	272.9	No mining operations, Care and Maintenance
06/06/2019	-	-	-	15.9	10.5805	6.499	60.962917	0.146	1.8304167	186.63458	8.67	358	No mining operations, Care and Maintenance
06/18/2019	-	-	-	19.38	14.562083	10.12	60.11375	0	1.9239583	187.60333	7.046	323.3	No mining operations, Care and Maintenance
06/20/2019	-	-	-	22.07	15.650458	6.039	38.10625	0	1.7247917	211.00833	6.38	301.7	No mining operations, Care and Maintenance
06/25/2019	-	-	-	19.23	15.17625	11.19	49.425	0	1.9577083	187.475	10.52	358.6	No mining operations, Care and Maintenance
06/28/2019	-	-	-	20.08	16.84125	14.1	41.730417	0	1.1234167	159.46521	5.116	353.6	No mining operations, Care and Maintenance
06/29/2019	23.5	26	23.2	25.09	18.688333	12.53	52.956667	0.584	2.162	182.87583	11.17	303.1	No mining operations, Care and Maintenance
07/03/2019	-	-	-	22.18	16.4325	9.6	39.99375	0	2.0287917	171.47417	7.272	295.4	No mining operations, Care and Maintenance
07/04/2019	-	-	-	19.89	15.685417	11.1	67.605	1.168	1.4183333	206.125	8.1	287.9	No mining operations, Care and Maintenance
07/09/2019	-	-	-	21.46	15.446667	8.28	42.47625	0	1.8640417	202.63333	6.703	282.3	No mining operations, Care and Maintenance
07/11/2019	-	-	-	19.66	13.620833	10.8	77.20125	7.878	1.231375	200.51458	10.68	350.3	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)	Minimum 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 (°)	Activities at site
07/16/2019	-	-	-	20	14.81875	9.61	64.736667	0	1.535875	207.88333	6.556	343.7	No mining operations, Care and Maintenance
07/19/2019	-	-	-	22.76	16.9775	9.6	54.395417	0	1.6537083	198.15479	7.438	291.4	No mining operations, Care and Maintenance
07/21/2019	-	49.4	15.1	22.43	17.079583	11.22	56.63125	0	1.4669167	218.42917	5.537	293	No mining operations, Care and Maintenance
07/26/2019	2.8	9.3	-	17.67	12.588542	7.242	64.055833	0	1.5309583	203.3425	5.606	305.3	No mining operations, Care and Maintenance
07/30/2019	2.8	2.8	2.8	18.77	12.2425	8.25	71.22875	0	1.050375	179.00021	8.38	346.9	No mining operations, Care and Maintenance
07/31/2019	9.6	-	6.4	18.56	12.505958	7.046	69.404583	0	1.209	185.44542	6.801	356.4	No mining operations, Care and Maintenance
08/01/2019	-	-	-	18.99	11.8195	7.009	74.107917	2.918	1.3897083	170.79096	9.81	360	No mining operations, Care and Maintenance
08/06/2019	-	-	-	18.23	11.948542	7.721	74.810833	4.085	1.9889167	188.18792	10.98	351.5	No mining operations, Care and Maintenance
08/08/2019	-	-	-	14.8	8.9951667	3.894	51.977917	0	2.298125	177.25417	6.733	278.4	No mining operations, Care and Maintenance
08/15/2019	-	-	-	15.56	11.80875	9.01	57.177917	0	3.489625	105.67208	9.86	191.5	No mining operations, Care and Maintenance
08/16/2019	-	-	-	8.92	7.2039583	4.712	83.785	4.085	1.2287917	154.37913	6.194	358.1	No mining operations, Care and Maintenance
08/21/2019	-	-	-	11.3	6.3369167	2.046	58.40375	1.022	1.3667083	168.94704	11.95	355.1	No mining operations, Care and Maintenance
08/22/2019	2.8	2.8	2.8	12.61	4.8290417	-2.778	66.035417	0.146	1.1984583	175.18404	5.762	356.7	No mining operations, Care and Maintenance
08/27/2019	2.8	7.9	6.1	16.63	8.0976667	0.956	61.71875	0	1.8894583	145.95	6.88	294.9	No mining operations, Care and Maintenance
08/28/2019	2.8	7.2	-	15.27	8.4204167	1.319	61.025417	0	1.5641667	171.44496	6.145	358.6	No mining operations, Care and Maintenance
08/30/2019	-	-	9.7	16.84	9.61075	2.711	61.901667	0	1.4691667	188.22288	5.811	331.6	No mining operations, Care and Maintenance
09/03/2019	-	-	-	15.1	9.7930417	4.93	74.101667	0.73	1.2398333	212.31038	7.781	358.8	No mining operations, Care and Maintenance
09/04/2019	-	-	-	13.89	8.2975	2.692	69.731667	7.733	1.7697083	194.24917	6.478	345.7	No mining operations, Care and Maintenance
09/05/2019	-	-	-	16.13	9.2464167	4.274	63.152917	0	1.4312917	220.3025	5.165	349.3	No mining operations, Care and Maintenance
09/10/2019	-	-	-	17.37	12.047458	5.63	37.353333	0.292	1.5765	288.17133	8.77	347.7	No mining operations, Care and Maintenance
09/12/2019	-	-	-	17.19	10.657208	5.053	49.517083	0	1.249875	261.56538	6.233	359.6	No mining operations, Care and Maintenance
09/17/2019	-	-	-	9.26	7.0395	4.661	89.8175	0.584	0.9508333	237.06346	5.9	359.3	No mining operations, Care and Maintenance
09/24/2019	2.8	2.8	2.8	9.91	2.3374167	-2.25	71.894167	0.2	1.297125	215.505	3.969	353.2	No mining operations, Care and Maintenance
09/25/2019	2.8	2.8	5.8	6.485	2.208125	-0.156	81.61	0	0.854875	230.82917	4.028	338.1	No mining operations, Care and Maintenance
09/27/2019	11.8	2.8	2.8	4.932	-1.192125	-5.692	64.195	0.1	1.4185417	208.22838	6.399	345.5	No mining operations, Care and Maintenance
10/02/2019	-	-	-	9.26	6.436375	0.814	69.362083	0	1.595125	247.36342	7.762	352.9	No mining operations, Care and Maintenance
10/03/2019	-	-	-	5.661	0.994625	-1.64	86.135	0.1	1.1206667	225.27467	4.528	350.3	No mining operations, Care and Maintenance
10/11/2019	-	-	-	2.553	0.7659167	-0.261	88.97375	0	0.744875	195.32208	6.429	352	No mining operations, Care and Maintenance
10/15/2019	-	-	-	-6.956	-11.732792	-15.44	87.225	0	0.9325	214.34792	5.606	313.7	No mining operations, Care and Maintenance
10/17/2019	-	-	-	-0.439	-3.159375	-4.712	88.31625	0	0.768375	190.22333	4.753	236.4	No mining operations, Care and Maintenance
10/22/2019	-	-	-	-0.99	-3.0847917	-4.71	90.366667	0	0.9287083	263.80125	4.351	359.4	No mining operations, Care and Maintenance
10/23/2019	2.8	2.8	--	-2.434	-5.4782083	-9.16	91.502083	0	1.0247917	185.88083	4.645	355.7	No mining operations, Care and Maintenance
10/24/2019	-	2.8	2.8	-1.507	-3.947875	-6.706	94.9625	0	0.7789167	255.38333	4.057	356.8	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)	Minimum 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 (°)	Activities at site
10/25/2019	2.8	2.8	2.8	-0.251	-5.0031667	-7.436	91.15125	0	0.9845	307.90833	3.018	357.1	No mining operations, Care and Maintenance
10/29/2019	2.8	-	2.8	0.805	-1.5016667	-3.723	98.325	0	0.3535833	281.89583	2.675	359.4	No mining operations, Care and Maintenance
10/31/2019	2.8	-	-	-2.423	-4.637875	-6.819	95.854167	0	0.9265417	324.06667	3.303	356.2	No mining operations, Care and Maintenance
11/06/2019	-	-	-	-15.09	-19.339583	-23.77	83.854167	0	0.4052917	208.6	3.028	284.5	No mining operations, Care and Maintenance
11/07/2019	-	-	-	-9.33	-12.31875	-15.22	89.166667	0	1.0908333	195.7875	7.801	230	No mining operations, Care and Maintenance
11/12/2019	-	-	-	-14.1	-16.155417	-18.05	84.416667	0	0.4606667	218.5	5.547	359.6	No mining operations, Care and Maintenance
11/14/2019	-	-	-	-15.61	-17.3225	-19.02	84.432917	0	0.9014167	189.09167	5.743	219.3	No mining operations, Care and Maintenance
11/19/2019	-	-	-	-10.96	-12.917917	-15.25	90.404167	0	0.5944167	240.11704	3.45	355	No mining operations, Care and Maintenance
11/20/2019	-	-	-	-2.919	-6.0040833	-10.41	95.545833	0	0.7957083	149.55833	3.577	238.7	No mining operations, Care and Maintenance
11/21/2019	2.8	-	-	-1.681	-3.0399167	-6.409	97.679167	0	0	0	0	0	No mining operations, Care and Maintenance
11/26/2019	2.8	2.8	-	-12.69	-13.5875	-14.6	89.970833	0	0.3112083	228.93333	2.46	355	No mining operations, Care and Maintenance
11/27/2019	2.8	2.8	2.8	-14.66	-16.97125	-18.73	87.154167	0	0.6095	266.90417	3.048	302.2	No mining operations, Care and Maintenance
11/28/2019	-	2.8	-	-12.54	-14.649167	-17.01	89.066667	0	0.5100833	224.95417	3.293	326.8	No mining operations, Care and Maintenance
11/29/2019	-	-	2.8	-8.82	-10.654167	-13.46	92.2375	0	0.2555833	144.31667	3.361	333	No mining operations, Care and Maintenance
12/03/2019	-	-	-	-10.87	-14.077083	-18.56	89.058333	0	2.2453333	207.9625	8.25	237.7	No mining operations, Care and Maintenance
12/10/2019	-	-	-	-7.679	-10.990417	-15.5	92.104167	0	0.3032917	239.47917	2.666	308	No mining operations, Care and Maintenance
12/12/2019	-	-	-	-6.312	-9.3657083	-12.85	88.459167	0	0.8474167	277.5125	6.35	344	No mining operations, Care and Maintenance
12/13/2019	-	-	-	-10.78	-11.064167	-11.5	89.566667	0	0.3549167	233.65417	2.558	343.6	No mining operations, Care and Maintenance
12/18/2019	-	-	-	-20.14	-25.299583	-28.69	79.55125	0	0.308625	199.96779	2.871	258.1	No mining operations, Care and Maintenance
12/19/2019	-	-	-	-19.08	-21.23375	-25.53	83.280417	0	0.6272083	206.08333	3.185	230.6	No mining operations, Care and Maintenance
12/24/2019	2.8	2.8	10.4	-10.93	-13.299583	-15.11	90.175	0	0.229375	258.10417	1.999	341.1	No mining operations, Care and Maintenance
12/25/2019	5.6	2.8	2.8	-4.349	-7.2547917	-13.49	93.745833	0	1.2015833	198.74183	8.42	351.3	No mining operations, Care and Maintenance
12/27/2019	-	5.7	2.8	-19.77	-24.405417	-27.26	80.615	0	1.4315833	208.92083	5.233	262	No mining operations, Care and Maintenance

* Starting October 15, 2013, total precipitation is reported rather than total rain
Note: - indicates no data recorded
Note: n/a = not applicable/not available

ATTACHMENT A2

AVERAGE PM_{10} AND $PM_{2.5}$ RESULTS (24-HOUR), AUG. 2015 – DEC. 2019

Table A-2 Average PM_{10} and $PM_{2.5}$ Results (24-Hour), August 2015 – December 2019

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-Aug-2015	-	2.8	-	2.8	-	2.8	19-Mar-2016	2.8	-	2.8	-	2.8	-	30-Aug-2016	-	2.8	-	2.8	-	9.0
18-Aug-2015	-	6.5	-	6.5	-	2.8	21-Mar-2016	-	2.8	-	2.8	-	2.8	31-Aug-2016	-	2.8	-	2.8	-	2.8
20-Aug-2015	-	6.5	-	6.5	-	2.8	23-Mar-2016	-	2.8	-	2.8	-	2.8	12-Sep-2016	-	2.8	-	2.8	-	2.8
22-Aug-2015	2.8	-	2.8	-	2.8	-	28-Mar-2016	-	2.8	-	2.8	-	2.8	14-Sep-2016	-	2.8	-	2.8	-	2.8
23-Aug-2015	7.8	-	7.8	-	2.8	-	15-Apr-2016	-	2.8	-	2.8	-	2.8	21-Sep-2016	-	2.8	-	2.8	-	2.8
24-Aug-2015	14.6	-	14.6	-	5.8	-	16-Apr-2016	-	2.8	-	2.8	-	2.8	23-Sep-2016	2.8	-	2.8	-	2.8	-
05-Sep-2015	2.8	-	2.8	-	2.8	-	18-Apr-2016	-	2.8	-	2.8	-	2.8	24-Sep-2016	2.8	-	2.8	-	2.8	-
06-Sep-2015	2.8	-	2.8	-	2.8	-	25-Apr-2016	2.8	-	2.8	-	2.8	-	25-Sep-2016	2.8	-	2.8	-	2.8	-
09-Sep-2015	2.8	-	2.8	-	2.8	-	26-Apr-2016	2.8	-	2.8	-	2.8	-	03-Oct-2016	-	-	-	-	2.8	-
11-Sep-2015	-	2.8	-	2.8	-	2.8	29-Apr-2016	2.8	-	2.8	-	8.2	-	23-Oct-2016	-	2.8	-	2.8	-	2.8
12-Sep-2015	-	-	-	-	-	2.8	15-May-2016	2.8	-	2.8	-	2.8	-	27-Oct-2016	-	2.8	-	2.8	-	2.8
14-Sep-2015	-	-	-	-	-	2.8	16-May-2016	2.8	-	2.8	-	2.8	-	28-Oct-2016	-	2.8	-	2.8	-	2.8
20-Nov-2015	-	2.8	-	2.8	-	-	18-May-2016	2.8	-	2.8	-	2.8	-	29-Oct-2016	2.8	-	2.8	-	2.8	-
21-Nov-2015	-	2.8	-	2.8	-	-	19-May-2016	-	2.8	-	2.8	-	2.8	30-Oct-2016	2.8	-	2.8	-		-
24-Nov-2015	-	2.8	-	2.8	-	-	21-May-2016	-	2.8	-	2.8	-	2.8	31-Oct-2016	2.8	-	2.8	-	2.8	-
25-Nov-2015	2.8	-	2.8	-	2.8	-	22-May-2016	-	2.8	-	2.8	-	2.8	04-Nov-2016	2.8	-	2.8	-	2.8	-
09-Jan-2016	-	2.8	-	2.8	-	2.8	20-Jun-2016	2.8	-	2.8	-	2.8	-	05-Nov-2016	2.8	-	2.8	-	2.8	-
10-Jan-2016	-	2.8	-	2.8	-	6.2	22-Jun-2016	2.8	-	2.8	-	2.8	-	25-Nov-2016	2.8	-	2.8	-	2.8	-
16-Jan-2016	-	2.8	-	2.8	-	2.8	26-Jun-2016	2.8	-	2.8	-	2.8	-	30-Nov-2016	-	6.0	-	6.0	-	2.8
17-Jan-2016	2.8	-	2.8	-	2.8	-	27-Jun-2016	-	5.6	-	5.6	-	2.8	01-Dec-2016	-	2.8	-	2.8	-	2.8
18-Jan-2016	2.8	-	2.8	-	2.8	-	29-Jun-2016	-	13.8	-	13.8	-	13.6	02-Dec-2016	-	2.8	-	2.8	-	2.8
19-Jan-2016	2.8	-	2.8	-	2.8	-	15-Jul-2016	-	17.4	-	17.4	-	12.1	18-Dec-2016	-	2.8	-	2.8	-	10.0
13-Feb-2016	2.8	-	2.8	-	6.4	-	17-Jul-2016	-	10.1	-	10.1	-	12.2	20-Dec-2016	-	8.3	-	8.3	-	6.2
14-Feb-2016	2.8	-	2.8	-	2.8	-	18-Jul-2016	-	2.8	-	2.8	-	2.8	21-Dec-2016	-	2.8	-	2.8	-	2.8
15-Feb-2016	2.8	-	2.8	-	2.8	-	25-Jul-2016	2.8	-	2.8	-	2.8	-	31-Dec-2016	2.8	-	2.8	-	2.8	-
22-Feb-2016	-	2.8	-	2.8	-	2.8	26-Jul-2016	2.8	-	2.8	-	2.8	-	01-Jan-2017	2.8	-	2.8	-	2.8	-
23-Feb-2016	-	2.8	-	2.8	-	2.8	27-Jul-2016	2.8	-	2.8	-	2.8	-	02-Jan-2017	2.8	-	2.8	-	2.8	-
25-Feb-2016	-	2.8	-	2.8	-	2.8	13-Aug-2016	2.8	-	2.8	-	2.8	-	15-Jan-2017	11.0	-	11.0	-	11.4	-
17-Mar-2016	2.8	-	2.8	-	2.8	-	14-Aug-2016	2.8	-	2.8	-	2.8	-	19-Jan-2017	6.1	-	6.1	-	11.0	-
18-Mar-2016	2.8	-	2.8	-	2.8	-	15-Aug-2016	2.8	-	2.8	-	2.8	-	23-Jan-2017	5.8	-	5.8	-	11.8	-

Table A-2 Average PM_{10} and $PM_{2.5}$ Results (24-Hour), August 2015 – December 2019 (continued)

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)
25-Jan-2017	-	6.4	-	6.4	-	5.7	08-Jun-2017	-	-	-	-	-	-	12-Oct-2017	2.8	-	2.8	-	2.8	-
26-Jan-2017	-	2.8	-	2.8	-	6.2	09-Jun-2017	-	-	-	-	-	2.8	13-Oct-2017	2.8	-	2.8	-	2.8	-
27-Jan-2017	-	8.2	-	8.2	-	7.2	13-Jun-2017	-	-	-	-	-	2.8	18-Oct-2017	-	-	-	-	-	2.8
20-Feb-2017	2.8	-	2.8	-		-	14-Jun-2017	2.8	-	2.8	-	-	2.8	19-Oct-2017	-	2.8	-	2.8	-	
22-Feb-2017	2.8	-	2.8	-	2.8	-	15-Jun-2017	6.2	-	6.2	-	-	-	24-Oct-2017	-	2.8	-	2.8	-	2.8
23-Feb-2017	2.8	-	2.8	-	2.8	-	16-Jun-2017	14.2	-	14.2	-	-	-	26-Oct-2017	-	-	-	-	-	2.8
24-Feb-2017	-	2.8	-	2.8	2.8	-	20-Jun-2017	-	-	-	-	-	-	02-Nov-2017	-	-	-	-	7.2	-
25-Feb-2017	-	2.8	-	2.8	-	2.8	23-Jun-2017	-	-	-	-	7.9	-	14-Nov-2017	-	-	-	-	2.8	-
26-Feb-2017	-	2.8	-	2.8	-	2.8	27-Jun-2017	-	-	-	-	6.2	-	16-Nov-2017	-	-	-	-	2.8	-
17-Mar-2017	-	6.2	-	6.2	-	-	28-Jun-2017	-	-	-	-	2.8	-	17-Nov-2017	-	-	-	-	-	2.8
18-Mar-2017	-	2.8	-	2.8	-	-	04-Jul-2017	2.8	-	2.8	-	6.0	-	23-Nov-2017	-	2.8	-	2.8	-	-
19-Mar-2017	-	2.8	-	2.8	-	-	05-Jul-2017	6.1	-	6.1	-	5.6	-	24-Nov-2017	-	-	-	-	-	8.3
21-Mar-2017	2.8	-	2.8	-	-	-	07-Jul-2017	2.8	-	2.8	-	2.8	-	28-Nov-2017	-	5.6	-	5.6	-	7.1
22-Mar-2017	2.8	-	2.8	-	-	-	11-Jul-2017	-	2.8	-	2.8	-	2.8	30-Nov-2017	-	7.5	-	7.5	-	-
23-Mar-2017	2.8	-	2.8	-	-	-	12-Jul-2017	-	2.8	-	2.8	-	7.9	05-Dec-2017	-	2.8	-	2.8	-	-
21-Apr-2017	2.8	-	2.8	-	-	-	14-Jul-2017	-	7.9	-	7.9	-		07-Dec-2017	-	2.8	-	2.8	-	-
23-Apr-2017	2.8	-	2.8	-	-	-	09-Aug-2017	13.9	-	13.9	-	11.1	-	12-Dec-2017	-	6.5	-	6.5	-	-
24-Apr-2017	2.8	-	2.8	-	-	-	11-Aug-2017	15.1	-	15.1	-	9.6	-	13-Dec-2017	-	-	-	-	-	2.8
25-Apr-2017	-	2.8	-	2.8	-	-	15-Aug-2017	6.7	-	6.7	-	2.8	-	15-Dec-2017	-	-	-	-	-	7.1
28-Apr-2017	-	6.0	-	6.0	-	-	16-Aug-2017	-	2.8	-	2.8	-	2.8	19-Dec-2017	-	-	-	-	-	6.5
29-Apr-2017	-	2.8	-	2.8	-	-	22-Aug-2017	-	2.8	-	2.8	-	2.8	20-Dec-2017	2.8	-	2.8	-	2.8	-
12-May-2017	-	2.8	-	2.8	-	-	23-Aug-2017	-	2.8	-	2.8	-	2.8	24-Dec-2017	-	-	-	-	8.9	-
17-May-2017	-	2.8	-	2.8	-	-	01-Sep-2017	-	2.8	-	2.8	-	8.5	28-Dec-2017	-	-	-	-	6.5	-
18-May-2017	-	2.8	-	2.8	-	-	05-Sep-2017	-	5.7	-	5.7	-	8.3	29-Dec-2017	2.8	-	2.8	-		-
19-May-2017	2.8	-	2.8	-	-	-	06-Sep-2017	-	2.8	-	2.8	-	8.7	02-Jan-2018	2.8	-	2.8	-	11.2	-
23-May-2017	2.8	-	2.8	-	-	-	08-Sep-2017	9.2	-	9.2	-	6.9	-	03-Jan-2018	2.8	-	2.8	-	2.8	-
24-May-2017	2.8	-	2.8	-	-	-	15-Sep-2017	-	-	-	-	2.8	-	04-Jan-2018	2.8	-	2.8	-	2.8	-
02-Jun-2017	-	2.8	-	2.8	-	-	16-Sep-2017	7.8	-	7.8	-	-	-	11-Jan-2018	-	2.8	-	2.8	-	5.6
06-Jun-2017	-	2.8	-	2.8	-	-	19-Sep-2017	9.2	-	9.2	-	5.8	-	18-Jan-2018	-	2.8	-	2.8	-	2.8
07-Jun-2017	-	2.8	-	2.8	-	-	10-Oct-2017	2.8	-	2.8	-	2.8	-	23-Jan-2018	-	2.8	-	2.8	-	2.8

Table A-2 Average PM_{10} and $PM_{2.5}$ Results (24-Hour), August 2015 – December 2019 (continued)

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)
31-Jan-2018	-	-	-	-	-	-	13-Jun-2018	2.8	-	2.8	-	2.8	-	10-Sep-2018	-	2.8	-	2.8	-	8.5
14-Feb-2018	-	-	-	-	-	-	14-Jun-2018	-	-	-	-	2.8	-	11-Sep-2018	-	2.8	-	2.8	-	2.8
15-Feb-2018	2.8	-	2.8	-	2.8	-	19-Jun-2018	7.9	-	7.9	-	-	6.1	12-Sep-2018	-	2.8	-	2.8	-	6.8
20-Feb-2018	2.8	-	2.8	-	2.8	-	20-Jun-2018	-	2.8		2.8	-	10.1	02-Oct-2018	-	-	-	-	-	7.1
21-Feb-2018	2.8	-	2.8	-	2.8	-	21-Jun-2018	-	-	-	-	-	2.8	03-Oct-2018	-	15.1	-	15.1	-	6.7
22-Feb-2018	-	2.8	-	2.8	-	10.1	26-Jun-2018	-	7.2	-	7.2	-	-	05-Oct-2018	-	15.4	-	15.4	-	10.1
23-Feb-2018	-	2.8	-	2.8	-	2.8	03-Jul-2018	-	2.8	-	2.8	-	2.8	07-Oct-2018	-	14.2	-	14.2	2.8	-
27-Feb-2018	-	2.8	-	2.8	-	12.4	04-Jul-2018	-	2.8	-	2.8	-	2.8	08-Oct-2018	16.4	-	16.4	-	10.1	-
01-Mar-2018	-	2.8	-	2.8	-	2.8	06-Jul-2018	-	2.8	-	2.8	-	2.8	24-Oct-2018	2.8	-	2.8	-	2.8	-
02-Mar-2018	-	2.8	-	2.8	-	2.8	10-Jul-2018	2.8	-	2.8	-	2.8	-	25-Oct-2018	2.8	-	2.8	-	-	-
06-Mar-2018	-	2.8	-	2.8	-	2.8	11-Jul-2018	2.8	-	2.8	-	2.8	-	16-Nov-2018	-	-	-	-	8.9	-
08-Mar-2018	2.8	-	2.8	-	6.0	-	12-Jul-2018	2.8	-	2.8	-	2.8	-	18-Nov-2018	-	-	-	-	2.8	-
13-Mar-2018	2.8	-	2.8	-	2.8	-	13-Jul-2018	-	-	-	-	2.8	-	19-Nov-2018	2.8	-	2.8	-	2.8	-
15-Mar-2018	2.8	-	2.8	-	2.8	-	17-Jul-2018	-	-	-	-	-	-	21-Nov-2018	2.8	-	2.8	-	-	2.8
10-Apr-2018	-	-	-	-	2.8	-	18-Jul-2018	-	-	-	-	-	-	22-Nov-2018	2.8	-	2.8	-	-	2.8
11-Apr-2018	-	-	-	-	2.8	-	24-Jul-2018	-	2.8	-	2.8	-	-	23-Nov-2018	-	2.8	-	2.8	-	5.8
12-Apr-2018	2.8	-	2.8	-	2.8	-	26-Jul-2018	-	2.8	-	2.8	-	-	28-Nov-2018	-	2.8	-	2.8	-	-
17-Apr-2018	2.8	-	2.8	-	-	2.8	27-Jul-2018	-	2.8	-	2.8	-	-	30-Nov-2018	-	2.8	-	2.8	-	-
19-Apr-2018	2.8	-	2.8	-	-	2.8	01-Aug-2018	-	2.8	-	2.8	-	-	04-Dec-2018	-	2.8	-	2.8	-	2.8
20-Apr-2018	-	6.2	-	6.2	-	-	02-Aug-2018	-	-	-	-	-	2.8	06-Dec-2018	-	-	-	-	-	2.8
24-Apr-2018	-	2.8	-	2.8	-	-	04-Aug-2018	2.8	-	2.8	-	2.8	-	07-Dec-2018	-	2.8	-	2.8	-	-
26-Apr-2018	-	2.8	-	2.8	-	2.8	06-Aug-2018	-	-	-	-	2.8	-	10-Dec-2018	-	2.8	-	2.8	-	2.8
01-May-2018	-	5.7	-	5.7	-	2.8	07-Aug-2018	2.8	-	2.8	-	2.8	-	12-Dec-2018	-	2.8	-	2.8	-	-
03-May-2018	-	2.8	-	2.8	-	2.8	08-Aug-2018	-	-	-	-	-	2.8	12-Dec-2018	6.7	-	6.7	-	-	-
08-May-2018	-	2.8	-	2.8	-	2.8	17-Aug-2018	2.8	-	2.8	-	-	2.8	13-Dec-2018	2.8	-	2.8	-	9.0	-
09-May-2018	6.4		6.4		-	-	21-Aug-2018	-	2.8	-	2.8	-	-	14-Dec-2018	2.8	-	2.8	-	8.2	-
10-May-2018	-	-	-	-	7.1	-	22-Aug-2018	-	2.8	-	2.8	-	-	26-Dec-2018	7.2	-	7.2	-	6.1	-
15-May-2018	2.8	-	2.8	-	6.8	-	06-Sep-2018	2.8	-	2.8	-	2.8	-	22-Jan-2019	2.8	-	2.8	-	6.0	-
22-May-2018	5.7	-	5.7	-	2.8	-	07-Sep-2018	2.8	-	2.8	-	2.8	-	24-Jan-2019	5.8	-	5.8	-	2.8	-
11-Jun-2018	2.8	-	2.8	-	2.8	-	09-Sep-2018	2.8	-	2.8	-	2.8	-	25-Jan-2019	2.8	-	2.8	-	6.1	-

Table A-2 Average PM_{10} and $PM_{2.5}$ Results (24-Hour), August 2015 – December 2019 (continued)

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)
29-Jan-2019	-	2.8	-	2.8	-	2.8	18-May-2019	2.8	-	2.8	-	2.8	-	03-Sep-2019	-	6.4	-	6.4	-	5.8
30-Jan-2019	-	2.8	-	2.8	-	8.2	21-May-2019	12.5	-	12.5	-	-	21.2	04-Sep-2019	-	2.8	-	2.8	-	2.8
31-Jan-2019	-	2.8	-	2.8	-	2.8	23-May-2019	19.7	-	19.7	-	-	2.8	05-Sep-2019	-	5.8	-	5.8	-	-
07-Feb-2019	-	2.8	-	2.8	-	2.8	28-May-2019	-	-	-	-	-	2.8	06-Sep-2019	-	-	-	-	-	2.8
08-Feb-2019	-	2.8	-	2.8	-	2.8	04-Jun-2019	-	2.8	-	2.8	-	2.8	10-Sep-2019	46.0	-	46.0	-	18.6	-
21-Feb-2019	-	5.7	-	5.7	-	2.8	06-Jun-2019	-	2.8	-	2.8	-	2.8	12-Sep-2019	2.8	-	2.8	-	16.9	-
22-Feb-2019	2.8	-	2.8	-	6.5	-	18-Jun-2019	-	2.8	-	2.8	-	2.8	17-Sep-2019	6.1	-	6.1	-	2.8	-
23-Feb-2019	2.8	-	2.8	-	2.8	-	20-Jun-2019	2.8	-	2.8	-	2.8	-	02-Oct-2019	-	2.8	-	2.8	-	-
25-Feb-2019	7.6	-	7.6	-	6.8	-	25-Jun-2019	5.6	-	5.6	-	22.5	-	03-Oct-2019	-	6.8	-	6.8	-	6.0
26-Feb-2019	-	-	-	-	-	-	28-Jun-2019	2.8	-	2.8	-	10.6	-	11-Oct-2019	-	2.8	-	2.8	-	2.8
27-Feb-2019	-	-	-	-	-	-	29-Jun-2019	-	-	-	-	-	-	15-Oct-2019	2.8	-	2.8	-	-	2.8
28-Feb-2019	-	-	-	-	-	-	03-Jul-2019	-	7.4	-	7.4	-	10.0	17-Oct-2019	2.8	-	2.8	-	2.8	-
09-Mar-2019	-	-	-	-	8.3	-	04-Jul-2019	-	2.8	-	2.8	-	-	22-Oct-2019	11.7	-	11.7	-	11.9	-
12-Mar-2019	-	-	-	-	2.8	-	05-Jul-2019	-	-	-	-	-	2.8	23-Oct-2019	-	-	-	-	2.8	-
13-Mar-2019	-	-	-	-	2.8	-	09-Jul-2019	-	**28.2**	-	**28.2**	-	14.0	06-Nov-2019	-	2.8	-	2.8	-	2.8
14-Mar-2019	2.8	-	2.8	-	-	2.8	11-Jul-2019	36.2	-	36.2	-	-	11.9	07-Nov-2019	-	2.8	-	2.8	-	2.8
19-Mar-2019	2.8	-	2.8	-	-	7.4	16-Jul-2019	9.3	-	9.3	-	-	-	12-Nov-2019	-	2.8	-	2.8	-	2.8
27-Mar-2019	2.8	-	2.8	-	-	6.2	17-Jul-2019	-	-	-	-	-	6.1	14-Nov-2019	2.8	-	2.8	-	2.8	-
02-Apr-2019	-	2.8	-	2.8	-	2.8	18-Jul-2019	-	-	-	-	-	8.1	19-Nov-2019	10.7	-	10.7	-	2.8	-
04-Apr-2019	-	2.8	-	2.8	-	2.8	19-Jul-2019	36.5	-	36.5	-	-	-	20-Nov-2019	11.2	-	11.2	-	-	-
09-Apr-2019	-	7.1	-	7.1	-	-	21-Jul-2019	13.1	-	13.1	-	-	-	21-Nov-2019	-	-	-	-	2.8	-
10-Apr-2019	-	-	-	-	-	2.8	01-Aug-2019	-	2.8	-	2.8	-	2.8	26-Nov-2019	-	-	-	-	2.8	-
11-Apr-2019	2.8	-	2.8	-	11.2	-	06-Aug-2019	-	2.8	-	2.8	-	2.8	03-Dec-2019	-	2.8	-	2.8	-	2.8
16-Apr-2019	-	-	-	-	2.8	-	08-Aug-2019	-	2.8	-	2.8	-	-	10-Dec-2019	-	2.8	-	2.8	-	2.8
17-Apr-2019	2.8	-	2.8	-	-	-	13-Aug-2019	-	-	-	-	-	2.8	12-Dec-2019	-	2.8	-	2.8	-	2.8
18-Apr-2019	2.8	-	2.8	-	-	-	15-Aug-2019	2.8	-	2.8	-	2.8	-	13-Dec-2019	2.8	-	2.8	-	6.9	-
19-Apr-2019	-	-	-	-	2.8	-	16-Aug-2019	2.8	-	2.8	-	2.8	-	18-Dec-2019	2.8	-	2.8	-	7.6	-
20-Apr-2019	-	-	-	-	-	-	21-Aug-2019	2.8	-	2.8	-	2.8	-	19-Dec-2019	2.8	-	2.8	-	2.8	-
10-May-2019	-	-	-	-	2.8	-	22-Aug-2019	-	-	-	-	-	-							
14-May-2019	-	-	-	-	2.8	-	27-Aug-2019	-	-	-	-	-	-							

Note: - indicates not applicable

ATTACHMENT A3

METAL CONCENTRATIONS (24-HOUR), TSP-1, AUG. 2012 -DEC. 2019

Table A-3 Metal Concentrations (24-Hour), TSP-1, August 2012 – December 2019

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-Aug-12	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.486	0.0208	0.03472	0.035	0.554	0.17361	0.061	0.045	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.7	0.05556	0.014	0.021	0.1181	0.035
27-Sep-12	0.667	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	1.722	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0389	0.035
23-Oct-12	0.653	0.13889	0.05556	0.0222	0.00556	0.021	0.013889	1.153	0.0208	0.03472	0.035	2.528	1.08333 O	0.308	0.301	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.6	0.05556	0.014	0.021	0.5583	0.035
15-Dec-12	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0208	0.03472	0.035	0.194	0.13889	0.021	0.052	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0944	0.035
14-Jan-13	0.403	0.13889	0.05556	0.0097	0.00556	0.021	0.013889	2.069	0.0208	0.03472	0.035	0.815	0.05556	0.217	0.026	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.875	0.00736	0.6	0.17361	0.014	0.021	0.1958	0.035
16-Jan-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.444	0.0208	0.03472	0.035	0.126	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0389	0.035
23-Mar-13	0.292	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	1.347	0.0208	0.03472	0.035	0.318	0.05556	0.072	0.034	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0431	0.035
24-Mar-13	0.139	0.13889	0.05556	0.0192	0.00556	0.021	0.013889	0.597	0.0208	0.03472	0.035	0.293	0.05556	0.094	0.066	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.417	0.00208	0.1	0.05556	0.014	0.021	0.0667	0.035
25-Mar-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0569	0.03472	0.035	0.181	0.05556	0.058	0.021	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0389	0.035
26-Mar-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0208	0.03472	0.035	0.168	0.05556	0.057	0.019	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.05	0.035
10-Apr-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0431	0.03472	0.035	0.272	0.05556	0.082	0.017	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0347	0.035
13-Apr-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.306	0.0528	0.03472	0.035	0.465	0.05556	0.106	0.022	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0375	0.035
15-Apr-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0472	0.03472	0.035	0.169	0.05556	0.061	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
16-Apr-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0208	0.03472	0.035	0.107	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-May-13	5.292	0.13889	0.05556	0.0094	0.00556	0.264	0.013889	8.722	0.0486	0.03472	0.035	0.312	0.05556	0.222	0.013	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.583	0.01708	0.3	0.05556	0.014	0.021	0.0792	0.035
16-Jun-13	5.236	0.13889	0.05556	0.0118	0.00556	0.264	0.013889	8.597	0.0764	0.03472	0.035	0.879	0.22361	0.211	0.083	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.722	0.01639	0.3	0.05556	0.014	0.021	0.1639	0.035
18-Jun-13	0.861	0.13889	0.05556	0.0188	0.00556	0.021	0.013889	1.417	0.075	0.03472	0.035	2.153	0.79444 O	0.318	0.218	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.569	0.00458	0.7	0.05556	0.042	0.021	0.3819	0.035
21-Jun-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.319	0.0681	0.03472	0.035	0.372	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.431	0.00208	0.1	0.05556	0.014	0.021	0.0583	0.035
24-Jun-13	0.139	0.13889	0.05556	0.0185	0.00556	0.021	0.013889	0.139	0.1028	0.03472	0.035	0.45	0.05556	0.021	0.018	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.444	0.00208	0.1	0.05556	0.014	0.021	0.0319	0.035
19-Jul-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1278	0.03472	0.035	0.419	0.05556	0.021	0.017	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0319	0.035
20-Jul-13	0.139	0.13889	0.05556	0.0046	0.00556	0.021	0.013889	0.444	0.1	0.03472	0.035	1.367	0.05556	0.096	0.175	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0958	0.035
21-Jul-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1056	0.03472	0.035	0.322	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
22-Jul-13	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1194	0.03472	0.035	0.493	0.05556	0.021	0.032	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0514	0.035

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-Aug-13	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0778	0.03472	0.035	0.383	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0292	0.035
23-Aug-13	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0528	0.03472	0.035	0.194	0.05556	0.054	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Aug-13	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0875	0.03472	0.035	0.388	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Aug-13	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0458	0.03472	0.035	0.208	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Sep-13	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0958	0.03472	0.035	0.319	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Sep-13	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0861	0.03472	0.035	0.435	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Sep-13	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0833	0.03472	0.035	0.351	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Sep-13	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0875	0.03472	0.035	0.672	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Oct-13	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0958	0.03472	0.035	0.36	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Oct-13	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1153	0.03472	0.035	0.269	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Oct-13	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1028	0.03472	0.035	0.331	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Oct-13	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0972	0.03472	0.035	0.308	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Nov-13	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0861	0.03472	0.035	0.308	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Nov-13	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1042	0.03472	0.035	0.358	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Nov-13	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0833	0.03472	0.035	0.361	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
01-Dec-13	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0847	0.03472	0.035	0.417	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Jan-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0986	0.03472	0.035	0.378	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.75	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Jan-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0764	0.03472	0.035	0.335	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.5	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Jan-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0889	0.03472	0.035	0.322	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	3.875	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Jan-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0792	0.03472	0.035	0.342	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	2.736	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
01-Feb-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.075	0.03472	0.035	0.312	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Feb-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1153	0.03472	0.035	0.294	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0319	0.035
03-Feb-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.075	0.03472	0.035	0.308	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Feb-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1069	0.03472	0.035	0.368	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
05-Mar-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0903	0.03472	0.035	0.193	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0569	0.035
06-Mar-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0792	0.03472	0.035	0.218	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0403	0.035

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
07-Mar-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0986	0.03472	0.035	0.319	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Mar-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0889	0.03472	0.035	0.231	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Apr-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0806	0.03472	0.035	0.253	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Apr-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0528	0.03472	0.035	0.232	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Apr-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0708	0.03472	0.035	0.276	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.167	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Apr-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0889	0.03472	0.035	0.21	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.792	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
11-May-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0861	0.03472	0.035	0.472	0.05556	0.047	0.02	0.03472	0.03472	0.208	0.694	0.03472	3.583	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0389	0.035
12-May-14	0.861	0.13889	0.05556	0.0121	0.00056	0.05	0.013889	1.847	0.0736	0.03472	0.035	0.478	0.05556	0.078	0.012	0.03472	0.03472	0.208	0.694	0.03472	2.694	0.02083	0.208	0.01639	0.1	0.05556	0.014	0.021	0.0389	0.035
13-May-14	0.667	0.13889	0.05556	0.009	0.00056	0.021	0.013889	1.403	0.0861	0.03472	0.035	0.411	0.05556	0.068	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.583	0.02083	0.208	0.01208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-May-14	0.139	0.13889	0.05556	0.0056	0.00056	0.021	0.013889	1.319	0.0958	0.03472	0.035	0.556	0.05556	0.429	0.012	0.03472	0.03472	0.208	0.694	0.03472	3.764	0.02083	0.431	0.00208	0.3	0.05556	0.014	0.021	0.0736	0.035
26-Jun-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0944	0.03472	0.035	0.338	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.431	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Jun-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0736	0.03472	0.035	0.344	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jun-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0861	0.03472	0.035	0.413	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.708	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Jun-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0722	0.03472	0.035	0.328	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
08-Jul-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1389	0.03472	0.035	0.397	0.05556	0.021	0.017	0.03472	0.03472	0.208	0.694	0.03472	0.458	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Jul-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0764	0.03472	0.035	0.351	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Jul-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1139	0.03472	0.035	0.308	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jul-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0806	0.03472	0.035	0.368	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0292	0.035
22-Aug-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0792	0.03472	0.035	0.333	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Aug-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1181	0.03472	0.035	0.365	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Aug-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0667	0.03472	0.035	0.204	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Aug-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0875	0.03472	0.035	0.293	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Sep-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1111	0.03472	0.035	0.319	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.444	0.02083	0.583	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Sep-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0903	0.03472	0.035	0.347	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.431	0.02083	0.542	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
24-Sep-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0819	0.03472	0.035	0.308	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.514	0.00208	0.5	0.05556	0.014	0.021	0.0139	0.035
27-Sep-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1	0.03472	0.035	0.369	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.528	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

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-Oct-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0708	0.03472	0.035	0.211	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.958	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Oct-14	0.306	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.075	0.03472	0.035	0.307	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Oct-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0861	0.03472	0.035	0.292	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Oct-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1042	0.03472	0.035	0.338	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Nov-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1264	0.03472	0.035	0.41	0.05556	0.021	0.02	0.03472	0.03472	0.208	0.694	0.03472	0.764	0.02083	0.889	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Nov-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1083	0.03472	0.035	0.386	0.05556	0.021	0.014	0.03472	0.03472	0.208	0.694	0.03472	0.931	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Nov-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1	0.03472	0.035	0.424	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.833	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Nov-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0861	0.03472	0.035	0.344	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.333	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Dec-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0986	0.03472	0.035	0.246	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.125	0.02083	1.458	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Dec-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1347	0.03472	0.035	0.338	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.028	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Dec-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0694	0.03472	0.035	0.321	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.19306	0.014	0.021	0.0139	0.035
17-Dec-14	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0764	0.03472	0.035	0.457	0.05556	0.021	0.031	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
10-Jan-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1208	0.03472	0.035	0.389	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.472	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
11-Jan-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0958	0.03472	0.035	0.36	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Jan-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0792	0.03472	0.035	0.411	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Jan-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0542	0.03472	0.035	0.054	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.458	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Feb-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0625	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Feb-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0542	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Feb-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1028	0.03472	0.035	0.343	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Feb-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0569	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Mar-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0597	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.847	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Mar-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0639	0.03472	0.035	0.128	0.05556	0.043	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Mar-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0625	0.03472	0.035	0.051	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.542	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Mar-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0694	0.03472	0.035	0.043	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Apr-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.0736	0.03472	0.035	0.344	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Apr-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.013889	0.139	0.1014	0.03472	0.035	0.464	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

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
04-Apr-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.075	0.03472	0.035	0.31	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Apr-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0639	0.03472	0.035	0.05	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-May-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.292	0.05	0.03472	0.035	0.326	0.05556	0.075	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0139	0.035
26-May-15	0.139	0.13889	0.05556	0.0042	0.00056	0.021	0.01389	0.292	0.0667	0.03472	0.035	0.314	0.05556	0.071	0.023	0.03472	0.03472	0.208	0.694	0.03472	0.458	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0292	0.035
27-May-15	0.444	0.13889	0.05556	0.0049	0.00056	0.021	0.01389	1.139	0.0208	0.03472	0.035	0.24	0.05556	0.122	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.02264	0.3	0.05556	0.014	0.021	0.0139	0.035
28-May-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.431	0.0597	0.03472	0.035	0.431	0.05556	0.089	0.023	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00528	0.3	0.05556	0.014	0.021	0.0139	0.035
16-Jun-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0569	0.03472	0.035	0.2	0.05556	0.064	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Jun-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0528	0.03472	0.035	0.212	0.05556	0.064	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.681	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Jun-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0528	0.03472	0.035	0.221	0.05556	0.057	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.931	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
01-Jul-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0431	0.03472	0.035	0.108	0.05556	0.05	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
08-Jul-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0472	0.03472	0.035	0.021	0.05556	0.051	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	2.444	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
11-Jul-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0486	0.03472	0.035	0.09	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0486	0.035
20-Jul-15	0.139	0.13889	0.05556	0.0042	0.00056	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.112	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Aug-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0458	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Aug-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0611	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Aug-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.05	0.03472	0.035	0.21	0.05556	0.049	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Aug-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0528	0.03472	0.035	0.239	0.05556	0.06	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Sep-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Oct-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0917	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
21-Oct-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0722	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0417	0.035
13-Nov-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0778	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Nov-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0681	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0347	0.035
16-Nov-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0542	0.03472	0.035	0.021	0.05556	0.021	0.011	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Nov-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0639	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Nov-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0667	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Dec-15	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0778	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

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-Dec-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0819	0.03472	0.035	0.046	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Dec-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0736	0.03472	0.035	0.044	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Dec-15	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0528	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Jan-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0625	0.03472	0.035	0.079	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Jan-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0653	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
08-Jan-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0639	0.03472	0.035	0.093	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0347	0.035
09-Jan-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0569	0.03472	0.035	0.21	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
10-Jan-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0694	0.03472	0.035	0.067	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Feb-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0694	0.03472	0.035	0.056	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Feb-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0597	0.03472	0.035	0.053	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Feb-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0597	0.03472	0.035	0.071	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Mar-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Mar-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0528	0.03472	0.035	0.051	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Mar-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0681	0.03472	0.035	0.083	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Apr-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Apr-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.542	0.1097	0.03472	0.035	0.079	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00806	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Apr-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1014	0.03472	0.035	0.061	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00486	0.1	0.05556	0.014	0.021	0.0139	0.035
23-May-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1069	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00597	0.1	0.05556	0.014	0.021	0.0139	0.035
25-May-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1014	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.931	0.01111	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Jun-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0958	0.03472	0.035	0.072	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00597	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Jun-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0681	0.03472	0.035	0.176	0.05556	0.021	0.026	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Jun-16	0.306	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.694	0.0653	0.03472	0.035	0.224	0.05556	0.082	0.013	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00556	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Jul-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1264	0.03472	0.035	0.072	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00903	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jul-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1167	0.03472	0.035	0.069	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00486	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Jul-16	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1097	0.03472	0.035	0.05	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00486	0.1	0.05556	0.014	0.021	0.0139	0.035
09-Aug-16	0.036	0.00035	0.00035	0.001	0.00035	0.021	0.00007	0.542	0.1247	0.00035	0.006	0.078	0.00274	0.043	0.007	0.00021	0.0019	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00236	-	0.00035	0.014	0.014	0.0076	0.003

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
10-Aug-16	0.029	0.00035	0.00035	0.0008	0.00035	0.021	0.00007	0.444	0.1092	0.00035	0.001	0.021	0.00106	0.021	0.002	0.00021	0.00144	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00399	-	0.00035	0.014	0.014	0.0035	0.003
11-Aug-16	0.047	0.00035	0.00035	0.0012	0.00035	0.021	0.00007	0.528	0.1335	0.00035	0.001	0.047	0.00092	0.042	0.001	0.00021	0.00143	0.056	0.035	0.00035	0.139	0.00014	0.25	0.00538	-	0.00035	0.014	0.014	0.0035	0.003
28-Sep-16	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.389	0.0764	0.03472	0.035	0.056	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.01153	0.1	0.055566	0.014	0.021	0.0139	0.035
29-Sep-16	0.653	0.13889	0.055566	0.0062	0.005566	0.042	0.013889	1.681	0.1	0.03472	0.035	0.086	0.05556	0.126	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.04097	0.1	0.055566	0.014	0.021	0.0139	0.035
30-Sep-16	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.0681	0.03472	0.035	0.051	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.055566	0.014	0.021	0.0139	0.035
05-Oct-16	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.0875	0.03472	0.035	0.147	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00528	0.1	0.055566	0.014	0.021	0.0139	0.035
07-Oct-16	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.0944	0.03472	0.035	0.301	0.05556	0.064	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00944	0.1	0.055566	0.014	0.021	0.0139	0.035
10-Oct-16	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.1069	0.03472	0.035	0.214	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.01569	0.1	0.055566	0.014	0.021	0.0139	0.035
26-Nov-16	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.0847	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.055566	0.014	0.021	0.0139	0.035
27-Nov-16	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.0889	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00625	0.1	0.055566	0.014	0.021	0.0139	0.035
28-Nov-16	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.0736	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.055566	0.014	0.021	0.0139	0.035
27-Dec-16	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.0972	0.03472	0.035	0.062	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.01319	0.1	0.055566	0.014	0.021	0.0139	0.035
29-Dec-16	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.1097	0.03472	0.035	0.053	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00528	0.1	0.055566	0.014	0.021	0.0139	0.035
30-Dec-16	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.1264	0.03472	0.035	0.058	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00597	0.1	0.055566	0.014	0.021	0.0139	0.035
28-Jan-17	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.075	0.03472	0.035	0.133	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.055566	0.014	0.021	0.0139	0.035
29-Jan-17	0.139	0.13889	0.055566	0.0053	0.005566	0.021	0.013889	0.139	0.0861	0.03472	0.035	0.051	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00972	0.1	0.055566	0.014	0.021	0.0139	0.035
30-Jan-17	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.0903	0.03472	0.035	0.125	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00764	0.1	0.055566	0.014	0.021	0.0139	0.035
14-Feb-17	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.0958	0.03472	0.035	0.064	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00806	0.1	0.055566	0.014	0.021	0.0139	0.035
18-Feb-17	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.389	0.0792	0.03472	0.035	0.06	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00764	0.1	0.055566	0.014	0.021	0.0139	0.035
19-Feb-17	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.0806	0.03472	0.035	0.074	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00597	0.1	0.055566	0.014	0.021	0.0139	0.035
25-Mar-17	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.0847	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.055566	0.014	0.021	0.0139	0.035
27-Mar-17	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.0681	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00458	0.1	0.055566	0.014	0.021	0.0139	0.035
28-Mar-17	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.0847	0.03472	0.035	0.043	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00597	0.1	0.055566	0.014	0.021	0.0139	0.035
14-Apr-17	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.139	0.0653	0.03472	0.035	0.147	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.055566	0.014	0.021	0.0139	0.035
18-Apr-17	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.403	0.0917	0.03472	0.035	0.108	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.01319	0.3	0.055566	0.014	0.021	0.0139	0.035
20-Apr-17	0.139	0.13889	0.055566	0.0021	0.005566	0.021	0.013889	0.569	0.0722	0.03472	0.035	0.149	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00806	0.3	0.055566	0.014	0.021	0.0139	0.035

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
25-May-17	0.139	0.13889	0.05556	0.0049	0.00556	0.021	0.013889	0.139	0.0806	0.03472	0.035	0.118	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.417	0.00694	0.1	0.05556	0.014	0.021	0.0139	0.035
26-May-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1153	0.03472	0.035	0.067	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
30-May-17	0.139	0.13889	0.05556	0.0046	0.00556	0.021	0.013889	0.139	0.1167	0.03472	0.035	0.168	0.05556	0.047	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.458	0.00833	0.1	0.05556	0.014	0.021	0.0139	0.035
01-Jun-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0708	0.03472	0.035	0.075	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00736	0.1	0.05556	0.014	0.021	0.0139	0.035
08-Jun-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0847	0.03472	0.035	0.101	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
09-Jun-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1097	0.03472	0.035	0.111	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Jun-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1	0.03472	0.035	0.131	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Jul-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1014	0.03472	0.035	0.069	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Jul-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1	0.03472	0.035	0.222	0.05556	0.043	0.027	0.03472	0.03472	0.208	0.694	0.03472	0.486	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Jul-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1458	0.03472	0.035	0.071	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.431	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Aug-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1181	0.03472	0.035	0.164	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Aug-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0889	0.03472	0.035	0.064	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Aug-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1028	0.03472	0.035	0.232	0.05556	0.021	0.024	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Sep-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.514	0.1125	0.03472	0.035	0.057	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Sep-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.417	0.0875	0.03472	0.035	0.078	0.05556	0.049	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Sep-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.417	0.0944	0.03472	0.035	0.056	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Oct-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0931	0.03472	0.035	0.188	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0708	0.035
05-Oct-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0889	0.03472	0.035	0.078	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Oct-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1028	0.03472	0.035	0.151	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Nov-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0819	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Nov-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.075	0.03472	0.035	0.049	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Nov-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0819	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Dec-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0556	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Dec-17	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.444	0.0639	0.03472	0.035	0.054	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.764	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Dec-17	0.139	0.13889	0.05556	0.0104	0.00556	0.021	0.013889	0.528	0.1097	0.03472	0.035	0.081	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.903	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
31-Jan-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.361	0.0708	0.03472	0.035	0.044	0.05556	0.049	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0139	0.035

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
07-Feb-18	0.139	0.13889	0.05556	0.0047	0.00556	0.021	0.013889	0.514	0.0722	0.03472	0.035	0.069	0.05556	0.043	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0611	0.035
09-Feb-18	0.139	0.13889	0.05556	0.0057	0.00556	0.021	0.013889	0.528	0.1014	0.03472	0.035	0.053	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00431	0.1	0.05556	0.014	0.021	0.0611	0.035
14-Feb-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.542	0.0806	0.03472	0.035	0.058	0.05556	0.042	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Mar-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.347	0.0667	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
20-Mar-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.375	0.0625	0.03472	0.035	0.057	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
21-Mar-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.444	0.0764	0.03472	0.035	0.05	0.05556	0.044	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Apr-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.347	0.1139	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0458	0.035
04-Apr-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.333	0.0875	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Apr-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.389	0.1097	0.03472	0.035	0.042	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0403	0.035
24-May-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.431	0.0833	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0292	0.035
26-May-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.431	0.0819	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0319	0.035
05-Jun-18	0.029	0.00035	0.00035	0.0012	0.00035	0.021	0.00007	0.431	0.0343	0.00035	0.005	0.056	0.00086	0.051	0.002	0.00021	0.00133	0.056	0.035	0.00035	0.139	0.00014	0.208	0.00128	69.4	0.00035	0.014	0.014	0.0035	0.003
06-Jun-18	0.029	0.00035	0.00035	0.0012	0.00035	0.021	0.00007	0.417	0.0672	0.00035	0.001	0.069	0.00181	0.049	0.002	0.00021	0.00035	0.056	0.035	0.00035	0.139	0.00014	0.194	0.00144	69.4	0.00035	0.014	0.014	0.0035	0.003
08-Jun-18	0.057	0.00035	0.00035	0.0008	0.00035	0.021	0.00021	0.361	0.0762	0.00035	0.002	0.085	0.0009	0.047	0.002	0.00021	0.00168	0.056	0.035	0.00035	0.139	0.00014	0.208	0.00083	69.4	0.00035	0.014	0.014	0.0035	0.003
13-Jul-18	0.042	0.00035	0.00035	0.0014	0.00035	0.021	0.00021	0.208	0.0385	0.00035	0.001	0.119	0.01403	0.021	0.006	0.00021	0.00136	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0097	0.003
17-Jul-18	0.046	0.00035	0.00035	0.002	0.00035	0.021	0.00007	0.319	0.0562	0.00035	0.001	0.064	0.0025	0.021	0.002	0.00021	0.00136	0.056	0.035	0.00035	0.139	0.00014	0.167	0.00106	69.4	0.00035	0.014	0.014	0.0074	0.003
18-Jul-18	0.014	0.00035	0.00035	0.0012	0.00035	0.021	0.00007	0.181	0.0454	0.00035	0.001	0.056	0.00103	0.021	0.001	0.00021	0.00119	0.056	0.035	0.00035	0.139	0.00014	0.181	0.00035	69.4	0.00035	0.014	0.014	0.0035	0.003
23-Aug-18	0.047	0.00035	0.00035	0.0044	0.00035	0.021	0.00019	0.139	0.096	0.00035	0.003	0.082	0.00276	0.021	0.004	0.00021	0.00174	0.056	0.074	0.00035	0.139	0.00014	0.222	0.00035	69.4	0.00035	0.014	0.014	0.0081	0.003
25-Aug-18	0.038	0.00035	0.00035	0.0016	0.00035	0.021	0.00015	0.167	0.0739	0.00035	0.003	0.162	0.00147	0.021	0.002	0.00021	0.00168	0.056	0.078	0.00035	0.139	0.00014	0.222	0.00035	69.4	0.00035	0.014	0.014	0.01	0.003
26-Aug-18	0.038	0.00035	0.00035	0.0011	0.00035	0.021	0.00007	0.194	0.0871	0.00035	0.002	0.303	0.00775	0.021	0.003	0.00256	0.00201	0.056	0.035	0.00035	0.139	0.00014	0.208	0.00069	69.4	0.00035	0.014	0.014	0.0087	0.003
02-Sep-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.417	0.0514	0.03472	0.035	0.021	0.05556	0.053	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.625	0.00208	0.1	0.05556	0.014	0.021	0.2681	0.035
03-Sep-18	0.139	0.13889	0.05556	0.0051	0.00556	0.021	0.013889	0.486	0.0431	0.03472	0.035	0.021	0.05556	0.049	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.708	0.00208	0.1	0.05556	0.014	0.021	0.8167	0.035
05-Sep-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	1.139	0.0444	0.03472	0.035	0.021	0.05556	0.064	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.667	0.00208	0.3	0.05556	0.014	0.021	0.3444	0.035
26-Oct-18	0.139	0.13889	0.05556	0.0078	0.00556	0.021	0.013889	0.361	0.0931	0.03472	0.035	0.071	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0972	0.035
30-Oct-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.403	0.0722	0.03472	0.035	0.046	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.07361	0.208	0.02083	0.208	0.00486	0.1	0.05556	0.014	0.021	0.1083	0.035
31-Oct-18	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.347	0.0597	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.07917	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0875	0.035

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
07-Nov-18	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.472	0.0722	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0958	0.035
08-Nov-18	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.417	0.0625	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1208	0.035
15-Nov-18	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.431	0.0708	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0778	0.035
18-Nov-18	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.389	0.075	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0972	0.035
27-Dec-18	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.375	0.0708	0.03472	0.035	0.211	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0458	0.035
28-Dec-18	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.306	0.0583	0.03472	0.035	0.086	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0583	0.035
30-Dec-18	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.361	0.0778	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.681	0.00208	0.1	0.05556	0.014	0.021	0.0556	0.035
10-Jan-19	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0722	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0764	0.035
15-Jan-19	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0625	0.03472	0.035	0.043	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Jan-19	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0986	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Feb-19	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.139	0.0681	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0347	0.035
27-Feb-19	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.431	0.0639	0.03472	0.035	0.093	0.05556	0.047	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0708	0.035
28-Feb-19	0.139	0.13889	0.05556	0.0021	0.00056	0.021	0.01389	0.361	0.075	0.03472	0.035	0.056	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0778	0.035
09-Mar-19	0.032	0.00035	0.00035	0.002	0.00035	0.021	0.00007	0.458	0.0976	0.00035	0.001	0.054	0.00083	0.021	0.002	0.00054	0.00239	0.056	0.035	0.00035	0.139	0.00014	0.194	0.00367	69.4	0.00035	0.014	0.014	0.0261	0.003
12-Mar-19	0.014	0.00035	0.00035	0.0008	0.00035	0.021	0.00007	0.417	0.0593	0.00035	0	0.021	0.00035	0.021	0.001	0.00021	0.00118	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00088	69.4	0.00035	0.014	0.014	0.024	0.003
13-Mar-19	0.031	0.00035	0.00035	0.0017	0.00035	0.021	0.00014	0.472	0.0714	0.00035	0.001	0.053	0.001	0.021	0.001	0.00021	0.00111	0.056	0.035	0.00035	0.139	0.00014	0.181	0.00101	69.4	0.00035	0.014	0.014	0.0269	0.003
19-Apr-19	0.031	0.00035	0.00035	0.0017	0.00035	0.021	0.00072	0.431	0.0561	0.00035	0.001	0.064	0.00079	0.021	0.001	0.00021	0.00121	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00082	69.4	0.00035	0.014	0.014	0.1236	0.003
20-Apr-19	0.014	0.00035	0.00035	0.0012	0.00035	0.021	0.00021	0.444	0.0768	0.00035	0	0.053	0.00157	0.021	0.002	0.00021	0.00104	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00081	69.4	0.00035	0.014	0.014	0.1249	0.003
25-Apr-19	0.014	0.00035	0.00035	0.001	0.00035	0.021	0.00007	0.417	0.0721	0.00035	0.001	0.051	0.00235	0.021	0.001	0.00336	0.00088	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.1285	0.003
01-May-19	0.044	0.00035	0.00117	0.0017	0.00035	0.021	0.00029	0.069	0.0686	0.00035	0.001	0.147	0.01806	0.021	0.013	0.00021	0.00164	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00083	69.4	0.00035	0.014	0.014	0.0132	0.003
07-May-19	0.053	0.00035	0.00035	0.0016	0.00035	0.021	0.00024	0.069	0.0562	0.00035	0.001	0.111	0.01472	0.021	0.003	0.00021	0.001	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00079	69.4	0.00035	0.014	0.014	0.0081	0.003
14-May-19	0.042	0.00035	0.00035	0.0018	0.00035	0.021	0.00038	0.069	0.0776	0.00035	0.001	0.09	0.00303	0.021	0.003	0.00021	0.00114	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00086	69.4	0.00035	0.014	0.014	0.0035	0.003
29-Jun-19	0.081	0.00035	0.00178	0.0033	0.00035	0.021	0.00046	0.542	0.0828	0.00035	0.002	0.274	0.02722	0.071	0.023	0.00021	0.00196	0.056	0.175	0.00035	0.278	0.00049	0.208	0.00118	69.4	0.00035	0.014	0.014	0.0675	0.003
26-Jul-19	0.033	0.00035	0.00035	0.0017	0.00035	0.021	0.00007	0.389	0.0775	0.00035	0.001	0.062	0.00358	0.021	0.003	0.00021	0.00115	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00139	69.4	0.00035	0.014	0.014	0.0439	0.003
30-Jul-19	0.028	0.00035	0.00035	0.0014	0.00035	0.021	0.00017	0.389	0.0867	0.00035	0.001	0.072	0.00336	0.021	0.007	0.00042	0.00132	0.056	0.035	0.00035	0.139	0.00014	0.153	0.00076	69.4	0.00035	0.014	0.014	0.0433	0.003
31-Jul-19	0.039	0.00035	0.00035	0.0015	0.00035	0.021	0.00019	0.431	0.1003	0.00035	0.001	0.133	0.01378	0.021	0.007	0.00021	0.00128	0.056	0.035	0.00035	0.139	0.00014	0.181	0.00085	69.4	0.00035	0.014	0.014	0.0492	0.003

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-Aug-19	0.042	0.00035	0.00035	0.0012	0.00035	0.021	0.00017	0.069	0.0849	0.00035	0.001	0.082	0.00607	0.021	0.003	0.00021	0.00122	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0228	0.003
27-Aug-19	0.038	0.00035	0.00035	0.0013	0.00035	0.021	0.00076	0.069	0.0693	0.00035	0.001	0.135	0.00735	0.021	0.003	0.00021	0.00139	0.056	0.035	0.00035	0.139	0.00014	0.153	0.00035	69.4	0.00035	0.014	0.014	0.0247	0.003
28-Aug-19	0.047	0.00035	0.00035	0.002	0.00035	0.021	0.00022	0.069	0.0761	0.00035	0.015	0.119	0.01611	0.021	0.005	0.00021	0.00307	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0251	0.003
24-Sep-19	0.014	0.00035	0.00035	0.0003	0.00035	0.021	0.00007	0.069	0.0683	0.00035	0.001	0.064	0.00035	0.021	0.001	0.00021	0.00101	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0315	0.003
25-Sep-19	0.014	0.00035	0.00035	0.0008	0.00035	0.021	0.00007	0.069	0.0736	0.00035	0	0.057	0.00111	0.021	0.001	0.00021	0.00118	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0468	0.003
27-Sep-19	0.142	0.00035	0.00076	0.0032	0.00035	0.021	0.00082	0.222	0.0718	0.00035	0.002	0.351	0.03236	0.064	0.013	0.00021	0.00146	0.056	0.071	0.00035	0.139	0.00014	0.139	0.00085	69.4	0.00035	0.014	0.014	0.1472	0.003
23-Oct-19	0.014	0.00035	0.00288	0.0008	0.00035	0.021	0.00067	0.069	0.0622	0.00035	0.002	0.05	0.00071	0.021	0.002	0.00021	0.00104	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.014	0.003
25-Oct-19	0.031	0.00035	0.00703	0.0008	0.00035	0.021	0.00007	0.069	0.0704	0.00035	0.005	0.058	0.00072	0.021	0.002	0.00021	0.00099	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0121	0.003
29-Oct-19	0.028	0.00035	0.00768	0.001	0.00035	0.021	0.00022	0.069	0.0837	0.00035	0.004	0.112	0.00204	0.021	0.003	0.00021	0.00215	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.031	0.003
31-Oct-19	0.039	0.00035	0.01275	0.0015	0.00035	0.021	0.00042	0.486	0.1201	0.00035	0.007	0.096	0.00014	0.021	0.002	0.00021	0.00162	0.056	0.035	0.00035	0.139	0.00014	0.139	0.00071	69.4	0.00035	0.014	0.014	0.0226	0.003
21-Nov-19	0.014	0.00035	0.00035	0.0011	0.00035	0.021	0.00024	0.431	0.0657	0.00035	0.001	0.056	0.00085	0.021	0.001	0.00021	0.00183	0.056	0.035	0.00035	0.139	0.00014	0.153	0.00069	69.4	0.00035	0.014	0.014	0.0328	0.003
26-Nov-19	0.029	0.00035	0.00035	0.0012	0.00035	0.021	0.00021	0.486	0.0718	0.00035	0.001	0.064	0.00035	0.021	0	0.00021	0.00133	0.056	0.035	0.00035	0.139	0.00014	0.181	0.00072	69.4	0.00035	0.014	0.014	0.0421	0.003
27-Nov-19	0.014	0.00035	0.00035	0.0014	0.00035	0.021	0.00022	0.458	0.0692	0.00035	0.002	0.065	0.00121	0.021	0.002	0.00021	0.00149	0.056	0.075	0.00035	0.139	0.00014	0.292	0.00075	69.4	0.00035	0.014	0.014	0.0447	0.003
24-Dec-19	0.014	0.00035	0.00035	0.0012	0.00035	0.021	0.00017	0.472	0.051	0.00035	0.001	0.047	0.00153	0.021	0	0.00021	0.00112	0.056	0.035	0.00035	0.389	0.00014	0.167	0.00079	69.4	0.00035	0.014	0.014	0.0822	0.003
25-Dec-19	0.038	0.00035	0.00275	0.0013	0.00035	0.021	0.00026	0.472	0.054	0.00035	0.002	0.06	0.00219	0.021	0.002	0.00021	0.00169	0.056	0.035	0.00035	0.361	0.00014	0.194	0.00083	69.4	0.00035	0.014	0.014	0.0757	0.003

** Criteria effective on July 1, 2016*

ATTACHMENT A4

METAL CONCENTRATIONS (24-HOUR), TSP-2, AUG. 2012 -DEC. 2019

Table A-4 Metal Concentrations (24-Hour), TSP-2, August 2012 – December 2019

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-Aug-2012	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.439	0.736111 O	0.047	0.033	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.7	0.05556	0.014	0.021	0.1083	0.035
27-Sep-2012	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0389	0.035
15-Dec-2012	0.139	0.13889	0.05556	0.0042	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.533	0.18056	0.076	0.066	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1222	0.035
16-Jan-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0208	0.03472	0.035	0.143	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Mar-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0208	0.03472	0.035	1.431	0.32083	0.089	0.407 O	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.2444	0.035
24-Mar-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.486	0.0208	0.03472	0.035	1.174	0.36111	0.124	0.651 O	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.2778	0.035
25-Mar-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.417	0.0556	0.03472	0.035	1.162	0.36667	0.108	0.39	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.2639	0.035
26-Mar-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0458	0.03472	0.035	0.921	0.15278	0.117	0.29	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.1417	0.035
07-Apr-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.486	0.0208	0.03472	0.035	1.161	0.41667	0.119	0.471 O	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.2944	0.035
10-Apr-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0431	0.03472	0.035	0.439	0.05556	0.081	0.049	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0694	0.035
13-Apr-2013	0.306	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0444	0.03472	0.035	0.199	0.05556	0.081	0.017	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0139	0.035
15-Apr-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0472	0.03472	0.035	0.268	0.05556	0.079	0.025	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
16-Apr-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0431	0.03472	0.035	0.165	0.05556	0.065	0.012	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
17-Jun-2013	0.361	0.13889	0.05556	0.0087	0.00556	0.021	0.01389	0.708	0.0208	0.03472	0.035	0.232	0.05556	0.053	0.016	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Jun-2013	1.583	0.13889	0.05556	0.0053	0.00556	0.071	0.01389	2.569	0.1222	0.03472	0.035	0.825	0.13333	0.094	0.078	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.542	0.00486	0.1	0.05556	0.014	0.021	0.0958	0.035
21-Jun-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0889	0.03472	0.035	0.432	0.05556	0.021	0.014	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.472	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Jun-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.361	0.0542	0.03472	0.035	0.282	0.05556	0.072	0.017	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
28-Jun-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.5	0.0542	0.03472	0.035	0.414	0.05556	0.082	0.046	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0708	0.035
19-Jul-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1167	0.03472	0.035	0.526	0.05556	0.021	0.027	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0389	0.035

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-Jul-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0653	0.03472	0.035	0.381	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
21-Jul-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0958	0.03472	0.035	0.5	0.05556	0.021	0.052	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0292	0.035
22-Jul-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.292	0.0944	0.03472	0.035	1.122	0.05556	0.071	0.134	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0917	0.035
22-Aug-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0944	0.03472	0.035	0.314	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0278	0.035
25-Aug-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.05	0.03472	0.035	0.185	0.05556	0.047	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Aug-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0736	0.03472	0.035	0.496	0.05556	0.021	0.012	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0458	0.035
28-Aug-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0708	0.03472	0.035	0.496	0.05556	0.021	0.046	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1222	0.035
31-Aug-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0569	0.03472	0.035	0.2	0.05556	0.047	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
21-Sep-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0972	0.03472	0.035	0.347	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Sep-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1139	0.03472	0.035	0.424	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Sep-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1264	0.03472	0.035	0.479	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Sep-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.036111 O	0.139	0.0861	0.03472	0.035	0.338	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0472	0.035
30-Sep-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0694	0.03472	0.035	0.45	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Oct-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0764	0.03472	0.035	0.326	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Oct-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0958	0.03472	0.035	0.303	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Oct-2013	0.292	0.13889	0.05556	0.0021	0.00556	0.078	0.013889	0.667	0.1236	0.03472	0.035	0.311	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.01361	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Oct-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.075	0.03472	0.035	0.268	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Nov-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0833	0.03472	0.035	0.538	0.05556	0.021	0.042	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0417	0.035
29-Nov-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0694	0.03472	0.035	0.361	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Nov-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0792	0.03472	0.035	0.372	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
01-Dec-2013	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0958	0.03472	0.035	0.362	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Jan-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0792	0.03472	0.035	0.314	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.458	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

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
04-Jan-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1083	0.03472	0.035	0.611	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.833	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Jan-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0903	0.03472	0.035	0.361	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.542	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0542	0.035
06-Jan-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0694	0.03472	0.035	0.371	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.861	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0375	0.035
01-Feb-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0819	0.03472	0.035	0.281	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Feb-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1014	0.03472	0.035	0.381	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Feb-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1208	0.03472	0.035	0.321	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Feb-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0792	0.03472	0.035	0.39	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Mar-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1056	0.03472	0.035	0.325	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0292	0.035
06-Mar-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0903	0.03472	0.035	0.351	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0486	0.035
07-Mar-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0819	0.03472	0.035	0.276	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Mar-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0833	0.03472	0.035	0.267	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.597	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
12-Apr-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0861	0.03472	0.035	0.239	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
13-Apr-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1139	0.03472	0.035	0.301	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.625	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0139	0.035
14-Apr-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0861	0.03472	0.035	0.315	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	2.236	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0319	0.035
15-Apr-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.075	0.03472	0.035	0.186	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.944	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
11-May-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0806	0.03472	0.035	0.376	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	5.028	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
12-May-2014	1.625	0.13889	0.05556	0.0222	0.00556	0.099	0.01389	3.472	0.0889	0.03472	0.035	0.506	0.05556	0.112	0.013	0.03472	0.03472	0.208	0.694	0.03472	1.736	0.02083	0.417	0.03167	0.3	0.05556	0.014	0.021	0.0403	0.035
13-May-2014	0.139	0.13889	0.05556	0.0046	0.00556	0.021	0.01389	0.569	0.0903	0.03472	0.035	0.426	0.05556	0.056	0.014	0.03472	0.03472	0.208	0.694	0.03472	3.75	0.02083	0.208	0.00458	0.1	0.05556	0.014	0.021	0.0292	0.035
29-May-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0708	0.03472	0.035	0.489	0.05556	0.021	0.011	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Jun-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0792	0.03472	0.035	0.408	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.736	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Jun-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1042	0.03472	0.035	0.389	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.736	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jun-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0778	0.03472	0.035	0.326	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

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
30-Jun-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1194	0.03472	0.035	0.365	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
08-Jul-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1139	0.03472	0.035	0.378	0.05556	0.021	0.013	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Jul-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0861	0.03472	0.035	0.34	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Jul-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0958	0.03472	0.035	0.354	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jul-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1264	0.03472	0.035	0.431	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
22-Aug-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1319	0.03472	0.035	0.317	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.028	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Aug-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0708	0.03472	0.035	0.331	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	2.722	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Aug-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1069	0.03472	0.035	0.335	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Aug-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0931	0.03472	0.035	0.315	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Sep-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1014	0.03472	0.035	0.35	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.472	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Sep-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0792	0.03472	0.035	0.358	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.458	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Sep-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1056	0.03472	0.035	0.338	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.486	0.020833	0.208	0.00208	0.6	0.05556	0.014	0.021	0.0139	0.035
27-Sep-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1	0.03472	0.035	0.354	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.458	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Oct-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0694	0.03472	0.035	0.242	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	2.167	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Oct-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0875	0.03472	0.035	0.239	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Oct-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0903	0.03472	0.035	0.386	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Oct-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0542	0.03472	0.035	0.161	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
22-Nov-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1319	0.03472	0.035	0.353	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.611	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Nov-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1153	0.03472	0.035	0.339	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.833	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-Nov-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1042	0.03472	0.035	0.258	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.458	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Dec-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0944	0.03472	0.035	0.362	0.05556	0.021	0.017	0.03472	0.03472	0.208	0.694	0.03472	1.167	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Dec-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1139	0.03472	0.035	0.414	0.05556	0.021	0.043	0.03472	0.03472	0.208	0.694	0.03472	1.361	0.020833	0.917	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

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
14-Dec-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0958	0.03472	0.035	0.378	0.05556	0.021	0.021	0.03472	0.03472	0.208	0.694	0.03472	0.833	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Dec-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1264	0.03472	0.035	0.381	0.05556	0.021	0.02	0.03472	0.03472	0.208	0.694	0.03472	0.931	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
10-Jan-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1097	0.03472	0.035	0.342	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.444	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
11-Jan-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0819	0.03472	0.035	0.281	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Jan-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0611	0.03472	0.035	0.262	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0417	0.035
15-Jan-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0611	0.03472	0.035	0.333	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0278	0.035
12-Feb-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0653	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.75	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Feb-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0569	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Feb-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0583	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Feb-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.075	0.03472	0.035	0.304	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Mar-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0625	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.014	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Mar-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0694	0.03472	0.035	0.137	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Mar-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0542	0.03472	0.035	0.075	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Mar-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0597	0.03472	0.035	0.05	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Apr-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0958	0.03472	0.035	0.357	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Apr-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1042	0.03472	0.035	0.281	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Apr-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0833	0.03472	0.035	0.306	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Apr-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0486	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-May-2015	0.139	0.13889	0.05556	0.0476	0.00556	0.021	0.01389	0.611	0.0556	0.03472	0.035	1.015	0.05556	0.167	0.117	0.03472	0.03472	0.208	0.694	0.03472	0.444	0.02083	0.208	0.00208	0.6	0.05556	0.014	0.021	0.0694	0.035
26-May-2015	0.139	0.13889	0.05556	0.0062	0.00556	0.021	0.01389	0.625	0.05	0.03472	0.035	0.96	0.05556	0.186	0.101	0.03472	0.03472	0.208	0.694	0.03472	0.556	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0639	0.035
27-May-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0431	0.03472	0.035	0.353	0.05556	0.065	0.018	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0139	0.035
28-May-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0431	0.03472	0.035	0.347	0.05556	0.075	0.023	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

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
16-Jun-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0708	0.03472	0.035	0.238	0.05556	0.061	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Jun-2015	0.139	0.13889	0.05556	0.0083	0.00556	0.021	0.013889	0.139	0.0611	0.03472	0.035	0.179	0.05556	0.064	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.5	0.020803	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
18-Jun-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0597	0.03472	0.035	0.197	0.05556	0.056	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
01-Jul-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0542	0.03472	0.035	0.071	0.05556	0.044	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
08-Jul-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0639	0.03472	0.035	0.346	0.05556	0.056	0.066	0.03472	0.03472	0.208	0.694	0.03472	-	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
11-Jul-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0208	0.03472	0.035	0.161	0.05556	0.062	0.02	0.03472	0.03472	0.208	0.694	0.03472	-	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0417	0.035
20-Jul-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.020803	1.111	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Aug-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0514	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Aug-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Aug-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0208	0.03472	0.035	0.081	0.05556	0.043	0.015	0.03472	0.03472	0.208	0.694	0.03472	-	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Aug-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0542	0.03472	0.035	0.147	0.05556	0.047	0.016	0.03472	0.03472	0.208	0.694	0.03472	-	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Sep-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0514	0.03472	0.035	0.115	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Oct-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0972	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
21-Oct-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.040280	0.139	0.0986	0.03472	0.035	0.111	0.05556	0.054	0.014	0.03472	0.03472	0.208	0.694	0.03472	-	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0333	0.035
13-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0556	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0736	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0208	0.03472	0.035	0.088	0.05556	0.053	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0653	0.03472	0.035	0.069	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	-	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0722	0.035
12-Mar-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0778	0.03472	0.035	0.172	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1347	0.035
14-Mar-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0653	0.03472	0.035	0.103	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Mar-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0653	0.03472	0.035	0.068	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020803	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0292	0.035

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
19-Apr-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0514	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Apr-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.528	0.0917	0.03472	0.035	0.079	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00764	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Apr-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0986	0.03472	0.035	0.075	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00556	0.1	0.05556	0.014	0.021	0.0139	0.035
23-May-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.075	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00528	0.1	0.05556	0.014	0.021	0.0139	0.035
25-May-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1111	0.03472	0.035	0.049	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00458	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Jun-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1042	0.03472	0.035	0.082	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00528	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Jun-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0764	0.03472	0.035	0.142	0.05556	0.042	0.026	0.03472	0.03472	0.208	0.694	0.03472	0.778	0.020833	0.208	0.00736	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Jun-2016	0.472	0.13889	0.05556	0.0062	0.00556	0.021	0.013889	1.292	0.0806	0.03472	0.035	0.543	0.15694	0.193	0.204	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.01014	0.3	0.05556	0.014	0.021	0.1111	0.035
28-Jul-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0778	0.03472	0.035	0.103	0.05556	0.021	0.014	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jul-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1194	0.03472	0.035	0.074	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00625	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Jul-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1125	0.03472	0.035	0.074	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00694	0.1	0.05556	0.014	0.021	0.0139	0.035
09-Aug-2016	0.031	0.00035	0.00035	0.0011	0.00035	0.021	0.00015	0.5	0.131	0.00035	0.002	0.021	0.00247	0.021	0.004	0.00021	0.00131	0.056	0.035	0.00035	0.139	0.00014	0.069	0.003	-	0.00035	0.014	0.014	0.0035	0.003
10-Aug-2016	0.014	0.00035	0.00035	0.001	0.00035	0.021	0.00007	0.444	0.1215	0.00035	0.001	0.021	0.00086	0.021	0.001	0.00021	0.00129	0.056	0.035	0.00035	0.139	0.00014	0.069	0.0025	-	0.00035	0.014	0.014	0.0035	0.003
11-Aug-2016	0.032	0.00035	0.001	0.001	0.00035	0.021	0.00007	0.528	0.1168	0.00035	0.002	0.078	0.00349	0.021	0.002	0.00021	0.00131	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00863	-	0.00035	0.014	0.014	0.0035	0.003
28-Sep-2016	0.139	0.13889	0.05556	0.0062	0.00556	0.021	0.013889	0.139	0.0986	0.03472	0.035	0.108	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00667	0.1	0.05556	0.014	0.021	0.0292	0.035
29-Sep-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0931	0.03472	0.035	0.114	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00486	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Sep-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.333	0.0986	0.03472	0.035	0.097	0.05556	0.051	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00458	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Oct-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0986	0.03472	0.035	0.386	0.05556	0.065	0.058	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0403	0.035
27-Oct-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1139	0.03472	0.035	0.044	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Nov-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.486	0.1278	0.03472	0.035	0.061	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00417	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Nov-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.278	0.0903	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00486	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Nov-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0722	0.03472	0.035	0.05	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

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
27-Dec-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0931	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Dec-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1083	0.03472	0.035	0.062	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00556	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Dec-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0958	0.03472	0.035	0.082	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00486	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Jan-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0861	0.03472	0.035	0.044	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00458	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jan-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0694	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00625	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Jan-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1194	0.03472	0.035	0.185	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00667	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Feb-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0917	0.03472	0.035	0.06	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	1.125	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Feb-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0903	0.03472	0.035	0.124	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Feb-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0819	0.03472	0.035	0.072	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00625	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Feb-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0792	0.03472	0.035	0.068	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Mar-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1028	0.03472	0.035	0.185	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00458	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Mar-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0694	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Mar-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.292	0.0917	0.03472	0.035	0.26	0.05556	0.021	0.025	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.02361	0.1	0.05556	0.014	0.021	0.1486	0.035
14-Apr-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.611	0.1014	0.03472	0.035	0.089	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00764	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Apr-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.375	0.125	0.03472	0.035	0.458	0.05556	0.086	0.03	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00875	0.3	0.05556	0.014	0.021	0.0417	0.035
20-Apr-2017	0.139	0.13889	0.05556	0.0042	0.00556	0.021	0.013889	0.347	0.1111	0.03472	0.035	0.349	0.05556	0.081	0.029	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.417	0.00972	0.1	0.05556	0.014	0.021	0.0319	0.035
25-May-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.458	0.0736	0.03472	0.035	0.107	0.05556	0.064	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.431	0.00667	0.1	0.05556	0.014	0.021	0.0139	0.035
26-May-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1208	0.03472	0.035	0.071	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
30-May-2017	0.139	0.13889	0.05556	0.0042	0.00556	0.021	0.013889	0.403	0.0861	0.03472	0.035	0.643	0.05556	0.129	0.078	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00556	0.1	0.05556	0.014	0.021	0.0597	0.035
01-Jun-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0972	0.03472	0.035	0.124	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00486	0.1	0.05556	0.014	0.021	0.0139	0.035
08-Jun-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0986	0.03472	0.035	0.133	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0361	0.035
09-Jun-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.319	0.1111	0.03472	0.035	0.162	0.05556	0.047	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

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-Jun-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.306	0.1306	0.03472	0.035	0.547	0.05556	0.065	0.04	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Jul-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1125	0.03472	0.035	1.058	0.05556	0.021	0.022	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Jul-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0819	0.03472	0.035	0.236	0.05556	0.054	0.026	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Jul-2017	0.139	0.13889	0.05556	0.0042	0.00556	0.021	0.013889	0.431	0.0819	0.03472	0.035	0.608	0.05556	0.144	0.088	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0542	0.035
09-Aug-2017	0.653	0.13889	0.05556	0.0201	0.00556	0.021	0.013889	1.278	0.0764	0.03472	0.035	2.778	0.36944	0.468	0.404O	0.03472	0.03472	0.208	0.694	0.03472	1.097	0.020833	0.208	0.00486	0.6	0.05556	0.032	0.021	0.2764	0.035
11-Aug-2017	0.139	0.13889	0.05556	0.0087	0.00556	0.021	0.013889	0.514	0.0597	0.03472	0.035	1.046	0.1625	0.167	0.164	0.03472	0.03472	0.208	0.694	0.03472	0.556	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1153	0.035
15-Aug-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1	0.03472	0.035	0.15	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Sep-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.472	0.1014	0.03472	0.035	0.05	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Sep-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.444	0.1056	0.03472	0.035	0.054	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Sep-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.444	0.1458	0.03472	0.035	0.086	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Oct-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1153	0.03472	0.035	0.082	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Oct-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.417	0.1181	0.03472	0.035	0.076	0.05556	0.175	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Oct-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1167	0.03472	0.035	0.092	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Nov-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0889	0.03472	0.035	0.058	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Dec-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.444	0.0986	0.03472	0.035	0.074	0.05556	0.043	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Dec-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.528	0.0847	0.03472	0.035	0.068	0.05556	0.043	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.431	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Dec-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.486	0.0625	0.03472	0.035	0.062	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0597	0.035
04-Jan-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.431	0.0736	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
31-Jan-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0639	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Feb-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.5	0.0764	0.03472	0.035	0.044	0.16111	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0403	0.035
09-Feb-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.431	0.0986	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Feb-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.431	0.0792	0.03472	0.035	0.049	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

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
16-Mar-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.486	0.0833	0.03472	0.035	0.069	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0556	0.035
20-Mar-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0597	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
21-Mar-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0611	0.03472	0.035	0.056	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Apr-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.333	0.1069	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
04-Apr-2018	0.139	0.13889	0.05556	0.0064	0.00556	0.021	0.01389	0.333	0.0694	0.03472	0.035	0.047	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Apr-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.361	0.0764	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-May-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.075	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0333	0.035
27-May-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.389	0.0889	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0417	0.035
26-Jul-2018	0.276	0.00174	0.01044	0.0077	0.00035	0.021	0.00143	0.736	0.0717	0.00035	0.008	1.206	0.17083	0.215	0.135	0.00021	0.00236	0.056	0.118	0.00035	0.361	0.00136	0.208	0.00257	69.4	0.00035	0.014	0.014	0.1008	0.003
27-Jul-2018	0.111	0.00078	0.00365	0.0032	0.00035	0.021	0.0005	0.306	0.0435	0.00035	0.003	0.465	0.06083	0.072	0.053	0.00021	0.00281	0.056	0.035	0.00035	0.139	0.00058	0.181	0.00099	69.4	0.00035	0.014	0.014	0.0404	0.003
31-Jul-2018	0.11	0.00035	0.00294	0.003	0.00035	0.021	0.00046	0.333	0.0471	0.00035	0.002	0.415	0.04208	0.075	0.036	0.00021	0.00165	0.056	0.074	0.00035	0.139	0.00029	0.236	0.00097	69.4	0.00035	0.014	0.014	0.0347	0.003
21-Aug-2018	0.108	0.00082	0.00446	0.0026	0.00035	0.021	0.00056	0.431	0.0401	0.00035	0.003	0.494	0.07111	0.085	0.068	0.00021	0.00243	0.056	0.035	0.00035	0.347	0.00046	0.194	0.00133	69.4	0.00035	0.014	0.014	0.0658	0.003
22-Aug-2018	0.04	0.00035	0.00035	0.0009	0.00035	0.021	0.00024	0.139	0.0715	0.00035	0.002	0.088	0.00429	0.021	0.008	0.00021	0.00161	0.056	0.035	0.00035	0.139	0.00014	0.181	0.00035	69.4	0.00035	0.014	0.014	0.0271	0.003
23-Aug-2018	0.056	0.00035	0.00035	0.0012	0.00035	0.021	0.00007	0.222	0.0421	0.00035	0.002	0.076	0.00379	0.021	0.006	0.00021	0.0016	0.056	0.097	0.00035	0.139	0.00014	0.347	0.00035	69.4	0.00035	0.014	0.014	0.0097	0.003
02-Sep-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.431	0.0208	0.03472	0.035	0.021	0.05556	0.051	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.528	0.00208	0.1	0.05556	0.014	0.021	0.1028	0.035
03-Sep-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	1.083	0.0486	0.03472	0.035	0.103	0.05556	0.15	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.514	0.00208	0.1	0.05556	0.014	0.021	0.1139	0.035
05-Sep-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.403	0.0444	0.03472	0.035	0.042	0.05556	0.049	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.5	0.00208	0.1	0.05556	0.014	0.021	0.1319	0.035
25-Oct-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.361	0.0514	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1694	0.035
26-Oct-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0889	0.03472	0.035	0.112	0.05556	0.043	0.014	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1556	0.035
30-Oct-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.403	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1208	0.035
07-Nov-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.417	0.075	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0944	0.035
08-Nov-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.458	0.05	0.03472	0.035	0.021	0.05556	0.021	0.013	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.1278	0.035

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-Nov-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.403	0.0778	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1458	0.035
18-Dec-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.361	0.0736	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0722	0.035
26-Dec-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0833	0.03472	0.035	0.418	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Dec-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0792	0.03472	0.035	0.057	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
10-Jan-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0611	0.03472	0.035	0.061	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.9	0.05556	0.014	0.021	0.4819	0.035
15-Jan-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0667	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Jan-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0667	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.3	0.05556	0.014	0.021	0.1375	0.035
22-Jan-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0736	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0403	0.035
26-Feb-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.361	0.0681	0.03472	0.035	0.054	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0694	0.035
27-Feb-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.375	0.0625	0.03472	0.035	0.043	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0694	0.035
28-Feb-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.361	0.0792	0.03472	0.035	0.051	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0736	0.035
05-Mar-2019	0.014	0.00035	0.00035	0.0011	0.00035	0.021	0.00007	0.472	0.0793	0.00035	0.001	0.043	0.00074	0.021	0.001	0.00021	0.00112	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00075	69.4	0.00035	0.014	0.014	0.2333	0.003
06-Mar-2019	0.014	0.00035	0.00035	0.0018	0.00035	0.021	0.00019	0.5	0.0942	0.00035	0.001	0.064	0.00786	0.044	0.001	0.00069	0.00119	0.056	0.035	0.00035	0.139	0.00014	0.194	0.001	69.4	0.00035	0.014	0.014	0.1083	0.003
07-Mar-2019	0.014	0.00035	0.00035	0.0012	0.00035	0.021	0.00018	0.5	0.0671	0.00035	0.001	0.047	0.00035	0.042	0.001	0.00058	0.00126	0.056	0.035	0.00035	0.139	0.00014	0.167	0.00097	69.4	0.00035	0.014	0.014	0.0703	0.003
19-Apr-2019	0.038	0.00035	0.00035	0.0022	0.00035	0.021	0.00007	0.486	0.0594	0.00035	0.001	0.075	0.0044	0.044	0.003	0.00021	0.00082	0.056	0.035	0.00035	0.139	0.00014	0.069	0.0011	69.4	0.00035	0.014	0.014	0.1417	0.003
20-Apr-2019	0.061	0.00035	0.00072	0.0018	0.00035	0.021	0.00147	0.5	0.0714	0.00035	0.004	0.193	0.02847	0.058	0.009	0.00021	0.00212	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00115	69.4	0.00035	0.014	0.014	0.1778	0.003
25-Apr-2019	0.04	0.00035	0.00035	0.0016	0.00035	0.021	0.00025	0.444	0.0674	0.00035	0.002	0.085	0.00221	0.021	0.002	0.00021	0.0015	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00096	69.4	0.00035	0.014	0.014	0.2333	0.003
01-May-2019	0.014	0.00035	0.00035	0.0003	0.00035	0.021	0.00031	0.069	0.0775	0.00035	0	0.053	0.0011	0.021	0.001	0.00021	0.00125	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0035	0.003
07-May-2019	0.16	0.00119	0.00632	0.0045	0.00035	0.021	0.00093	0.417	0.1149	0.00035	0.004	0.633	0.10278	0.11	0.086	0.00021	0.00188	0.056	0.035	0.00035	0.139	0.00082	0.194	0.00164	69.4	0.00035	0.014	0.014	0.0676	0.003
09-May-2019	0.043	0.00035	0.00128	0.0016	0.00035	0.021	0.00021	0.069	0.0622	0.00035	0.001	0.075	0.00662	0.021	0.002	0.00021	0.00106	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00076	69.4	0.00035	0.014	0.014	0.0035	0.003
29-Jun-2019	0.122	0.00035	0.00222	0.0048	0.00035	0.021	0.00042	0.611	0.0825	0.00035	0.004	0.385	0.02625	0.089	0.034	0.00046	0.00225	0.056	0.203	0.00035	0.139	0.00014	0.25	0.0014	69.4	0.00035	0.014	0.014	0.0689	0.003
21-Jul-2019	0.121	0.00035	0.00299	0.0079	0.00035	0.021	0.00072	0.736	0.0826	0.00035	0.002	0.497	0.04069	0.115	0.048	0.00021	0.00181	0.056	0.308	0.00035	0.306	0.00014	0.181	0.00171	69.4	0.00035	0.014	0.014	0.0915	0.003

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-Jul-2019	0.028	0.00035	0.00035	0.0013	0.00035	0.021	0.00018	0.444	0.0785	0.00035	0.001	0.106	0.00624	0.021	0.006	0.00021	0.00122	0.056	0.035	0.00035	0.139	0.00014	0.153	0.0009	69.4	0.00035	0.014	0.014	0.0478	0.003
30-Jul-2019	0.014	0.00035	0.00035	0.0009	0.00035	0.021	0.00007	0.361	0.0797	0.00035	0	0.061	0.00256	0.021	0.003	0.00021	0.00131	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00075	69.4	0.00035	0.014	0.014	0.0401	0.003
22-Aug-2019	0.043	0.00035	0.001	0.0016	0.00035	0.021	0.00086	0.069	0.0751	0.00035	0.001	0.146	0.01528	0.021	0.013	0.00021	0.00139	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00089	69.4	0.00035	0.014	0.014	0.0318	0.003
27-Aug-2019	0.097	0.00035	0.00275	0.0032	0.00035	0.021	0.0005	0.236	0.0894	0.00035	0.002	0.39	0.04917	0.081	0.037	0.00021	0.00118	0.056	0.035	0.00035	0.458	0.00036	0.139	0.00099	69.4	0.00035	0.014	0.014	0.0479	0.003
28-Aug-2019	0.062	0.00035	0.00122	0.0019	0.00035	0.021	0.00026	0.139	0.0696	0.00035	0.006	0.193	0.01764	0.021	0.027	0.00021	0.00143	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00072	69.4	0.00035	0.014	0.014	0.0608	0.003
24-Sep-2019	0.032	0.00035	0.00035	0.0007	0.00035	0.021	0.00007	0.069	0.1889	0.00147	0.006	0.688	0.00253	0.021	0.072	0.00247	0.06417	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.2931	0.003
25-Sep-2019	0.014	0.00035	0.00035	0.0003	0.00035	0.021	0.00021	0.069	0.0756	0.00035	0.001	0.057	0.00103	0.021	0	0.00021	0.00132	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0226	0.003
27-Sep-2019	0.014	0.00089	0.00035	0.001	0.00035	0.021	0.00007	0.069	0.0715	0.00035	0.001	0.067	0.0024	0.021	0.002	0.00021	0.00151	0.056	0.165	0.00035	0.139	0.00014	0.306	0.00071	69.4	0.00035	0.014	0.014	0.3583	0.003
23-Oct-2019	0.014	0.00035	0.00328	0.0012	0.00035	0.021	0.00007	0.069	0.0778	0.00035	0.002	0.064	0.00106	0.021	0.001	0.00021	0.00132	0.056	0.035	0.00035	0.139	0.00014	0.167	0.00035	69.4	0.00035	0.014	0.014	0.021	0.003
24-Oct-2019	0.014	0.00035	0.00347	0.0003	0.00035	0.021	0.00007	0.069	0.0717	0.00035	0.004	0.062	0.00124	0.021	0.001	0.00021	0.00147	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0325	0.003
25-Oct-2019	0.038	0.00035	0.01165	0.0013	0.00035	0.021	0.00076	0.194	0.0724	0.00035	0.007	0.104	0.00408	0.021	0.002	0.00021	0.002	0.056	0.035	0.00035	0.139	0.00014	0.194	0.00081	69.4	0.00035	0.014	0.014	0.1019	0.003
26-Nov-2019	0.014	0.00035	0.00035	0.0013	0.00035	0.021	0.00044	0.486	0.0669	0.00035	0.001	0.062	0.00099	0.021	0.001	0.00021	0.00104	0.056	0.035	0.00035	0.139	0.00014	0.264	0.00078	69.4	0.00035	0.014	0.014	0.0892	0.003
27-Nov-2019	0.014	0.00035	0.00035	0.0003	0.00035	0.021	0.00047	0.403	0.065	0.00035	0.001	0.075	0.002	0.021	0.005	0.00021	0.00097	0.056	0.035	0.00035	0.139	0.00014	0.153	0.00035	69.4	0.00035	0.014	0.014	0.0646	0.003
28-Nov-2019	0.014	0.00035	0.00035	0.001	0.00035	0.021	0.00028	0.486	0.0521	0.00035	0.001	0.044	0.00076	0.021	0.001	0.00021	0.00108	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00081	69.4	0.00035	0.014	0.014	0.0511	0.003
24-Dec-2019	0.029	0.00035	0.00035	0.0015	0.00035	0.021	0.00007	0.431	0.0508	0.00035	0.001	0.049	0.00118	0.021	0.001	0.00021	0.00147	0.056	0.035	0.00035	0.139	0.00014	0.222	0.00086	69.4	0.00035	0.014	0.014	0.0746	0.003
25-Dec-2019	0.014	0.00035	0.00035	0.0011	0.00035	0.021	0.00017	0.417	0.065	0.00035	0.001	0.054	0.00258	0.021	0.003	0.00021	0.00286	0.056	0.035	0.00035	0.139	0.00014	0.208	0.00076	69.4	0.00035	0.014	0.014	0.0807	0.003
27-Dec-2019	0.014	0.00035	0.00035	0.0009	0.00035	0.021	0.00035	0.319	0.0578	0.00035	0.001	0.049	0.00228	0.071	0.002	0.00021	0.00179	0.056	0.035	0.00035	0.292	0.00014	0.347	0.00101	69.4	0.00035	0.014	0.014	0.0676	0.003

** Criteria effective on July 1, 2016*

ATTACHMENT A5

METAL CONCENTRATIONS (24-HOUR), TSP-3, DECEMBER. 2014 -2018

Table A-5 Metal Concentrations (24-Hour), TSP-3, December 2014 – December 2019

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	
12-Dec-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.306	0.0958	0.03472	0.035	0.367	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.472	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Dec-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.319	0.0972	0.03472	0.035	0.315	0.05556	0.021	0.021	0.03472	0.03472	0.208	0.694	0.03472	1.097	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Dec-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1028	0.03472	0.035	0.272	0.05556	0.021	0.014	0.03472	0.03472	0.208	0.694	0.03472	0.611	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Dec-2014	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0986	0.03472	0.035	0.339	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	1.569	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Jan-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0806	0.03472	0.035	0.351	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Jan-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0528	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Jan-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0764	0.03472	0.035	0.065	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.569	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Jan-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0611	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Feb-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0597	0.03472	0.035	0.043	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Feb-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.064	0.01389	0.431	0.0903	0.03472	0.035	0.325	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.542	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Feb-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.306	0.0681	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Feb-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.292	0.1306	0.03472	0.035	0.046	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.972	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Mar-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0569	0.03472	0.035	0.054	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Mar-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0569	0.03472	0.035	0.147	0.05556	0.050	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Mar-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0542	0.03472	0.035	0.054	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.472	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Mar-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0556	0.03472	0.035	0.062	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.833	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Apr-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0972	0.03472	0.035	0.317	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Apr-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1014	0.03472	0.035	0.289	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Apr-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0944	0.03472	0.035	0.332	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

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
05-Apr-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1181	0.03472	0.035	0.433	0.05556	0.021	0.024	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
21-May-2015	2.583	0.13889	0.05556	0.0212	0.00556	0.218	0.013889	6.417	0.0208	0.03472	0.035	0.247	0.05556	0.510	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.15139	0.1	0.05556	0.014	0.021	0.0514	0.035
22-May-2015	2.097	0.13889	0.05556	0.0178	0.00556	0.165	0.013889	5.083	0.0208	0.03472	0.035	0.238	0.05556	0.421	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.12014	0.1	0.05556	0.014	0.021	0.0403	0.035
23-May-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0500	0.03472	0.035	0.274	0.05556	0.071	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
24-May-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.417	0.0500	0.03472	0.035	0.332	0.05556	0.106	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.0139	0.035
16-Jun-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0472	0.03472	0.035	0.214	0.05556	0.075	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Jun-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.333	0.0486	0.03472	0.035	0.228	0.05556	0.082	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
18-Jun-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.306	0.0569	0.03472	0.035	0.157	0.05556	0.049	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
01-Jul-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0597	0.03472	0.035	0.128	0.05556	0.057	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
08-Jul-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0528	0.03472	0.035	0.082	0.05556	0.050	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
11-Jul-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0208	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Jul-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0417	0.03472	0.035	0.254	0.05556	0.071	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Aug-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0514	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.472	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Aug-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0431	0.03472	0.035	0.119	0.05556	0.047	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Aug-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0417	0.03472	0.035	0.311	0.05556	0.060	0.070	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Oct-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0542	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
21-Oct-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0778	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0736	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0556	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0514	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Nov-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0708	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.02083	0.458	0.00208	0.1	0.05556	0.014	0.021	0.0292	0.035
16-Dec-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0500	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

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-Dec-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0639	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Dec-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0472	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Dec-2015	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.292	0.0806	0.03472	0.035	0.344	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Jan-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0639	0.03472	0.035	0.067	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0403	0.035
06-Jan-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0722	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Jan-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0736	0.03472	0.035	0.051	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
09-Jan-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.375	0.0694	0.03472	0.035	0.136	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
10-Jan-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.583	0.0458	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472		0.020833	0.208	0.00417	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Feb-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0847	0.03472	0.035	0.064	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Feb-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0611	0.03472	0.035	0.053	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Feb-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0778	0.03472	0.035	0.051	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Mar-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0694	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Mar-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0681	0.03472	0.035	0.065	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Mar-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0736	0.03472	0.035	0.065	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Apr-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0792	0.03472	0.035	0.101	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-Apr-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0861	0.03472	0.035	0.081	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00736	0.1	0.05556	0.014	0.021	0.0139	0.035
24-Apr-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0778	0.03472	0.035	0.056	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.986	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
23-May-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0806	0.03472	0.035	0.049	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
25-May-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0708	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
13-Jun-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0792	0.03472	0.035	0.060	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Jun-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0778	0.03472	0.035	0.046	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00417	0.1	0.05556	0.014	0.021	0.0139	0.035
19-Jun-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.528	0.0875	0.03472	0.035	0.165	0.05556	0.069	0.012	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00417	0.1	0.05556	0.014	0.021	0.0139	0.035

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-Jul-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0972	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00458	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jul-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0736	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00694	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Jul-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1042	0.03472	0.035	0.043	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00556	0.1	0.05556	0.014	0.021	0.0139	0.035
09-Aug-2016	0.082	0.00035	0.00035	0.0015	0.00035	0.021	0.00036	0.542	0.1021	0.00035	0.003	0.201	0.00526	0.046	0.007	0.00021	0.00299	0.056	0.193	0.00035	0.139	0.00014	0.319	0.00329		0.00035	0.014	0.014	0.0092	0.003
10-Aug-2016	0.014	0.00035	0.00035	0.0009	0.00035	0.021	0.00015	0.514	0.0928	0.00035	0.001	0.021	0.00092	0.021	0.005	0.00147	0.00089	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00258		0.00035	0.014	0.014	0.0035	0.003
11-Aug-2016	0.014	0.00035	0.00035	0.0009	0.00035	0.021	0.00014	0.556	0.1211	0.00035	0.026	0.021	0.00128	0.046	0.001	0.00021	0.00167	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00200		0.00185	0.014	0.014	0.0153	0.003
28-Sep-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0778	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Sep-2016	1.833	0.13889	0.05556	0.0153	0.00556	0.124	0.013889	4.333	0.0861	0.03472	0.035	0.071	0.05556	0.353	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.11639	0.1	0.05556	0.014	0.021	0.0389	0.035
30-Sep-2016	2.778	0.13889	0.05556	0.0236	0.00556	0.189	0.013889	6.181	0.0958	0.03472	0.035	0.249	0.05556	0.553	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.17500	0.1	0.05556	0.014	0.021	0.0542	0.035
05-Oct-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1111	0.03472	0.035	0.272	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00528	0.1	0.05556	0.014	0.021	0.0403	0.035
07-Oct-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1083	0.03472	0.035	0.167	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00667	0.1	0.05556	0.014	0.021	0.0306	0.035
10-Oct-2016	0.139	0.13889	0.05556	0.0062	0.00556	0.021	0.013889	0.319	0.1069	0.03472	0.035	0.514	0.05556	0.115	0.026	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1444	0.035
26-Nov-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1167	0.03472	0.035	0.044	0.05556	0.021	0.024	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00417	0.1	0.05556	0.014	0.021	0.0139	0.035
27-Nov-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0875	0.03472	0.035	0.051	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00625	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Nov-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0778	0.03472	0.035	0.104	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.01042	0.1	0.05556	0.014	0.021	0.0500	0.035
27-Dec-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0931	0.03472	0.035	0.071	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Dec-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1111	0.03472	0.035	0.068	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00458	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Dec-2016	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.1181	0.03472	0.035	0.089	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00528	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Jan-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0861	0.03472	0.035	0.072	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00458	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Jan-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0764	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00556	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Jan-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0889	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00486	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Feb-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.013889	0.139	0.0778	0.03472	0.035	0.085	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.020833	0.208	0.00528	0.1	0.05556	0.014	0.021	0.0139	0.035

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
19-Feb-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0750	0.03472	0.035	0.153	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00764	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Feb-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0972	0.03472	0.035	0.129	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00764	0.1	0.05556	0.014	0.021	0.0139	0.035
15-Jun-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0889	0.03472	0.035	0.075	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Jun-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0847	0.03472	0.035	0.082	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Jun-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1319	0.03472	0.035	0.247	0.05556	0.047	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
18-Jul-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0819	0.03472	0.035	0.068	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.431	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Jul-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0903	0.03472	0.035	0.068	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
21-Jul-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0917	0.03472	0.035	0.057	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.458	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
02-Aug-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0708	0.03472	0.035	0.139	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
04-Aug-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1583	0.03472	0.035	0.192	0.05556	0.021	0.012	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Aug-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1167	0.03472	0.035	0.232	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Sep-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.444	0.1069	0.03472	0.035	0.069	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Sep-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.361	0.0764	0.03472	0.035	0.042	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
29-Sep-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.472	0.1458	0.03472	0.035	0.074	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Oct-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1431	0.03472	0.035	0.125	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Oct-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1306	0.03472	0.035	0.072	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
06-Oct-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.1153	0.03472	0.035	0.067	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
30-Nov-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0889	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Dec-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.458	0.0792	0.03472	0.035	0.060	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
07-Dec-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.500	0.0847	0.03472	0.035	0.071	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.694	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
12-Dec-2017	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.472	0.0972	0.03472	0.035	0.082	0.05556	0.046	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.569	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
31-Jan-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0792	0.03472	0.035	0.044	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.514	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035

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
07-Feb-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.389	0.0764	0.03472	0.035	0.061	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
10-Feb-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.403	0.0875	0.03472	0.035	0.068	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
14-Feb-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.472	0.0917	0.03472	0.035	0.049	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
16-Mar-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.417	0.0819	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
20-Mar-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.389	0.0750	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0431	0.035
21-Mar-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.389	0.0847	0.03472	0.035	0.047	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
03-Apr-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.389	0.0681	0.03472	0.035	0.076	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.3	0.05556	0.014	0.021	0.0139	0.035
04-Apr-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.347	0.0583	0.03472	0.035	0.047	0.05556	0.042	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
05-Apr-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0708	0.03472	0.035	0.074	0.05556	0.043	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
24-May-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0972	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-May-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.472	0.0889	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0306	0.035
27-May-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0750	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
05-Jun-2018	0.143	0.00035	0.00035	0.0014	0.00035	0.021	0.00151	0.458	0.0733	0.00035	0.002	0.056	0.00083	0.121	0.002	0.00046	0.00160	0.056	0.035	0.00035	0.139	0.00014	0.250	0.00085	69.4	0.00035	0.014	0.014	0.0107	0.003
06-Jun-2018	0.047	0.00035	0.00035	0.0011	0.00035	0.021	0.00007	0.417	0.0403	0.00035	0.001	0.076	0.00035	0.049	0.002	0.00021	0.00192	0.056	0.035	0.00035	0.139	0.00014	0.250	0.00225	69.4	0.00035	0.014	0.014	0.0035	0.003
08-Jun-2018	0.071	0.00035	0.00035	0.0010	0.00035	0.021	0.00007	0.417	0.0785	0.00035	0.003	0.056	0.00035	0.076	0.002	0.00021	0.00153	0.056	0.035	0.00035	0.139	0.00014	0.292	0.00121	69.4	0.00035	0.014	0.014	0.0075	0.003
17-Jul-2018	0.061	0.00035	0.00035	0.0015	0.00035	0.021	0.00014	0.222	0.0507	0.00035	0.010	0.058	0.00318	0.021	0.009	0.00021	0.00115	0.056	0.171	0.00035	0.139	0.00014	0.306	0.00035	69.4	0.00035	0.014	0.014	0.0111	0.003
18-Jul-2018	0.038	0.00035	0.00035	0.0067	0.00035	0.021	0.00007	0.264	0.0340	0.00035	0.001	0.143	0.00082	0.021	0.003	0.00021	0.00131	0.056	0.035	0.00035	0.292	0.00014	0.194	0.00089	69.4	0.00035	0.014	0.014	0.0072	0.003
24-Jul-2018	0.067	0.00035	0.00035	0.0018	0.00035	0.021	0.00007	0.264	0.0378	0.00035	0.002	0.165	0.00481	0.049	0.005	0.00021	0.00171	0.056	0.035	0.00035	0.139	0.00014	0.306	0.00082	69.4	0.00035	0.014	0.014	0.0035	0.003
18-Aug-2018	0.047	0.00035	0.00035	0.0019	0.00035	0.021	0.00007	0.222	0.0351	0.00035	0.001	0.075	0.00115	0.021	0.002	0.00021	0.00125	0.056	0.035	0.00035	0.139	0.00014	0.181	0.00088	69.4	0.00035	0.014	0.014	0.0083	0.003
20-Aug-2018	0.061	0.00035	0.00035	0.0030	0.00035	0.021	0.00007	0.250	0.0508	0.00035	0.003	0.112	0.00107	0.021	0.002	0.00021	0.00206	0.056	0.035	0.00035	0.139	0.00014	0.236	0.00083	69.4	0.00035	0.014	0.014	0.0035	0.003
21-Aug-2018	0.054	0.00035	0.00035	0.0014	0.00035	0.021	0.00018	0.208	0.0408	0.00035	0.002	0.094	0.00132	0.021	0.002	0.00021	0.00257	0.056	0.035	0.00035	0.139	0.00014	0.222	0.00035	69.4	0.00035	0.014	0.014	0.0035	0.003
02-Sep-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0208	0.03472	0.035	0.021	0.05556	0.050	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.431	0.00208	0.1	0.05556	0.014	0.021	0.0875	0.035

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
03-Sep-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.403	0.0472	0.03472	0.035	0.021	0.05556	0.050	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.472	0.00208	0.1	0.05556	0.014	0.021	0.1319	0.035
05-Sep-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.375	0.0444	0.03472	0.035	0.021	0.05556	0.047	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.472	0.00208	0.1	0.05556	0.014	0.021	0.0611	0.035
25-Oct-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.347	0.0722	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0972	0.035
26-Oct-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.417	0.0764	0.03472	0.035	0.106	0.05556	0.051	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1861	0.035
30-Oct-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.389	0.0528	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1722	0.035
07-Nov-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.500	0.0667	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0944	0.035
09-Nov-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.472	0.0750	0.03472	0.035	0.021	0.05556	0.050	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	1.472	0.00208	0.3	0.05556	0.014	0.021	0.1208	0.035
15-Nov-2018	0.139	0.13889	0.05556	0.0049	0.00556	0.021	0.01389	0.486	0.0875	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.1764	0.035
18-Dec-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0736	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.500	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
26-Dec-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0750	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
28-Dec-2018	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0861	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
10-Jan-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0653	0.03472	0.035	0.021	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0625	0.035
15-Jan-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0597	0.03472	0.035	0.044	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0139	0.035
17-Jan-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.139	0.0833	0.03472	0.035	0.099	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.1	0.05556	0.014	0.021	0.0361	0.035
26-Feb-2019	0.033	0.00035	0.00035	0.0012	0.00035	0.021	0.03181 O	0.389	0.0768	0.00035	0.001	0.240	0.00100	0.021	0.002	0.00021	0.00132	0.056	0.035	0.00035	0.208	0.00014	0.069	0.00106	0.3	0.00035	0.014	0.014	0.0735	0.003
27-Feb-2019	0.139	0.13889	0.05556	0.0021	0.00556	0.021	0.01389	0.347	0.0750	0.03472	0.035	0.050	0.05556	0.021	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	0.4	0.05556	0.014	0.021	0.2306	0.035
28-Feb-2019	0.139	0.13889	0.05556	0.0053	0.00556	0.021	0.01389	0.472	0.0903	0.03472	0.035	0.143	0.05556	0.054	0.006	0.03472	0.03472	0.208	0.694	0.03472	0.208	0.02083	0.208	0.00208	1.0	0.05556	0.014	0.021	0.6472	0.035
05-Mar-2019	0.028	0.00035	0.00035	0.0014	0.00035	0.021	0.00017	0.444	0.0782	0.00035	0.001	0.053	0.00083	0.043	0.001	0.00021	0.00100	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00086	69.4	0.00035	0.014	0.014	0.0392	0.003
06-Mar-2019	0.029	0.00035	0.00035	0.0011	0.00035	0.021	0.00039	0.417	0.0774	0.00035	0.001	0.046	0.00247	0.021	0.002	0.00021	0.00164	0.056	0.074	0.00035	0.139	0.00014	0.139	0.00114	69.4	0.00088	0.014	0.014	0.0368	0.003
07-Mar-2019	0.014	0.00035	0.00035	0.0011	0.00035	0.021	0.00026	0.486	0.0768	0.00035	0.001	0.051	0.00140	0.044	0.001	0.00021	0.00136	0.056	0.200	0.00035	0.139	0.00014	0.375	0.00133	69.4	0.00035	0.014	0.014	0.0375	0.003
20-Apr-2019	0.046	0.00035	0.00035	0.0014	0.00035	0.021	0.00974	0.542	0.0864	0.00035	0.001	0.175	0.00168	0.051	0.002	0.00021	0.00108	0.056	0.035	0.00035	0.139	0.00014	0.389	0.00099	69.4	0.00035	0.014	0.014	0.4514	0.003
24-Apr-2019	0.014	0.00035	0.00035	0.0022	0.00035	0.021	0.00007	0.514	0.0646	0.00035	0.000	0.068	0.00099	0.021	0.005	0.00053	0.00186	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00094	69.4	0.00035	0.014	0.014	0.1279	0.003

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
30-Apr-2019	0.036	0.00035	0.00035	0.0018	0.00035	0.021	0.00014	0.528	0.0631	0.00035	0.000	0.054	0.00125	0.050	0.003	0.00043	0.00085	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00093	69.4	0.00035	0.014	0.014	0.1265	0.003
01-May-2019	0.036	0.00035	0.00035	0.0034	0.00035	0.021	0.00015	0.069	0.0668	0.00035	0.001	0.064	0.00035	0.021	0.001	0.00021	0.00106	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00079	69.4	0.00035	0.014	0.014	0.0035	0.003
08-May-2019	0.049	0.00035	0.00035	0.0014	0.00035	0.021	0.00028	0.139	0.0769	0.00035	0.001	0.089	0.00083	0.021	0.002	0.00021	0.00106	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00083	69.4	0.00035	0.014	0.014	0.0076	0.003
09-May-2019	0.040	0.00035	0.00035	0.0009	0.00035	0.021	0.00007	0.139	0.0771	0.00035	0.001	0.062	0.00071	0.021	0.002	0.00021	0.00104	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0035	0.003
29-Jun-2019	0.060	0.00035	0.00035	0.0022	0.00035	0.021	0.00146	0.472	0.0808	0.00035	0.002	0.124	0.00183	0.047	0.005	0.00042	0.00239	0.056	0.207	0.00035	0.139	0.00014	0.361	0.00107	69.4	0.00035	0.014	0.014	0.0560	0.003
21-Jul-2019	0.014	0.00035	0.00035	0.0021	0.00035	0.021	0.00051	0.486	0.0793	0.00035	0.001	0.089	0.00161	0.044	0.006	0.00104	0.00174	0.056	0.110	0.00035	0.139	0.00014	0.139	0.00079	69.4	0.00035	0.014	0.014	0.0569	0.003
30-Jul-2019	0.014	0.00035	0.00035	0.0008	0.00035	0.021	0.00007	0.347	0.0747	0.00035	0.001	0.021	0.00035	0.021	0.000	0.00021	0.00142	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00075	69.4	0.00035	0.014	0.014	0.0756	0.003
31-Jul-2019	0.014	0.00035	0.00035	0.0011	0.00035	0.021	0.00007	0.444	0.0935	0.00035	0.001	0.060	0.00086	0.021	0.001	0.00021	0.00124	0.056	0.035	0.00035	0.139	0.00014	0.208	0.00035	69.4	0.00035	0.014	0.014	0.0511	0.003
22-Aug-2019	0.039	0.00035	0.00035	0.0013	0.00035	0.021	0.00007	0.194	0.0901	0.00035	0.001	0.090	0.00175	0.021	0.001	0.00021	0.00150	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00083	69.4	0.00035	0.014	0.014	0.0228	0.003
27-Aug-2019	0.050	0.00035	0.00035	0.0016	0.00035	0.021	0.00018	0.069	0.0746	0.00035	0.001	0.104	0.00139	0.021	0.002	0.00021	0.00162	0.056	0.035	0.00035	0.139	0.00014	0.181	0.00035	69.4	0.00035	0.014	0.014	0.0226	0.003
30-Aug-2019	0.064	0.00035	0.00035	0.0017	0.00035	0.021	0.00017	0.069	0.0865	0.00035	0.002	0.125	0.00379	0.021	0.004	0.00021	0.00132	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0283	0.003
24-Sep-2019	0.014	0.00035	0.00035	0.0003	0.00035	0.021	0.00018	0.069	0.0665	0.00035	0.001	0.043	0.00076	0.021	0.000	0.00021	0.00146	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0228	0.003
25-Sep-2019	0.014	0.00035	0.00035	0.0003	0.00035	0.021	0.00014	0.069	0.0750	0.00035	0.001	0.071	0.00215	0.021	0.002	0.00021	0.00157	0.056	0.035	0.00035	0.139	0.00014	0.139	0.00035	69.4	0.00035	0.014	0.014	0.0226	0.003
27-Sep-2019	0.036	0.00035	0.00088	0.0011	0.00035	0.021	0.00019	0.069	0.0599	0.00035	0.001	0.088	0.00157	0.021	0.002	0.00021	0.00101	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0262	0.003
24-Oct-2019	0.032	0.00035	0.00117	0.0012	0.00035	0.021	0.00007	0.069	0.0722	0.00035	0.007	0.060	0.00035	0.021	0.001	0.00021	0.00129	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.3500	0.003
25-Oct-2019	0.033	0.00035	0.00635	0.0003	0.00035	0.021	0.00007	0.069	0.0785	0.00035	0.004	0.060	0.00468	0.021	0.002	0.00021	0.00122	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.0469	0.003
29-Oct-2019	0.028	0.00035	0.00768	0.0007	0.00035	0.021	0.00007	0.069	0.0779	0.00035	0.004	0.054	0.00074	0.021	0.002	0.00021	0.00167	0.056	0.035	0.00035	0.139	0.00014	0.069	0.00035	69.4	0.00035	0.014	0.014	0.1299	0.003
27-Nov-2019	0.014	0.00035	0.00035	0.0009	0.00035	0.021	0.00021	0.417	0.0640	0.00035	0.002	0.043	0.00035	0.021	0.000	0.00042	0.00107	0.056	0.035	0.00035	0.139	0.00014	0.194	0.00086	69.4	0.00035	0.014	0.014	0.0462	0.003
29-Nov-2019	0.014	0.00035	0.00035	0.0010	0.00035	0.021	0.00051	0.458	0.0482	0.00035	0.003	0.060	0.00035	0.021	0.001	0.00062	0.00085	0.056	0.035	0.00035	0.139	0.00014	0.139	0.00035	69.4	0.00035	0.014	0.014	0.0462	0.003
24-Dec-2019	0.036	0.00035	0.00035	0.0014	0.00035	0.021	0.01286	0.514	0.0525	0.00035	0.002	0.076	0.00222	0.021	0.004	0.00021	0.00267	0.056	0.035	0.00035	0.444	0.00014	0.167	0.00072	69.4	0.00035	0.014	0.014	0.0761	0.003
25-Dec-2019	0.040	0.00035	0.00035	0.0012	0.00035	0.021	0.00028	0.403	0.0569	0.00035	0.002	0.075	0.00200	0.021	0.002	0.00021	0.00235	0.056	0.035	0.00035	0.431	0.00014	0.139	0.00075	69.4	0.00035	0.014	0.014	0.0654	0.003
27-Dec-2019	0.014	0.00035	0.00035	0.0011	0.00035	0.021	0.00076	0.444	0.0654	0.00035	0.001	0.021	0.00035	0.050	0.001	0.00021	0.00108	0.056	0.035	0.00035	0.403	0.00014	0.194	0.00090	69.4	0.00035	0.014	0.014	0.0643	0.003

** Criteria effective on July 1, 2016*

APPENDIX B

STATISTICAL TESTS RESULTS

	Non-parametric	Median		
Parameter	**Kruskal-Wallis p-value**	**TSP-1**	**TSP-2**	**TSP-3**
Al	0.03531	0.139	0.139	0.139
Sb	0.02735	0.13889	0.13889	0.13889
As	0.01805	0.05556	0.05556	0.05556
Ba	0.04261	0.0021	0.0021	0.0021
Be	0.03291	0.00556	0.00556	0.00556
B	0.37	0.021	0.021	0.021
Cd	NA	NA	NA	NA
Ca	0.261	0.139	0.139	0.139
Cr	0.3477	0.0764	0.0792	0.0764
Co	0.03175	0.03472	0.03472	0.03472
Cu	0.03235	0.035	0.035	0.035
Fe	**1.092e-11**	0.1075	0.1615	0.0640
Pb	NA	NA	NA	NA
Mg	0.08118	0.021	0.021	0.021
Mn	NA	NA	NA	NA
Mo	0.04205	0.03472	0.03472	0.03472
Ni	0.02389	0.03472	0.03472	0.03472
P	0.03291	0.208	0.208	0.208
K	0.03457	0.694	0.694	0.694
Se	0.02725	0.03472	0.03472	0.03472
Si	0.04183	0.208	0.208	0.208
Ag	0.02549	0.02083	0.02083	0.02083
Na	0.7215	0.208	0.208	0.208
Sr	0.2056	0.00208	0.00208	0.00208
S	0.4431	0.1	0.1	0.1
Sn	0.03129	0.05556	0.05556	0.05556
Ti	0.7195	0.014	0.014	0.014
V	0.03291	0.021	0.021	0.021
Zn	**0.003633**	0.0139	0.0139	0.0139
Zr	0.03291	0.035	0.035	0.035

Bold values p<<0.05