



 enison Mines

Wheeler River Project

Final Environmental
Impact Statement

November 2024

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**PEOPLE, PARTNERSHIPS
AND PASSION.**

Appendix 6-D
Baseline Air Quality Monitoring Report:
Denison Mines – Wheeler River Project

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1.0 INTRODUCTION

Independent Environmental Consultants (IEC) was retained by Denison Mines Corp. (Denison) to assist in the completion of a baseline air quality monitoring program in support of the Environmental Impact Statement (EIS) for the Wheeler River Project (the Project). The Project site is located approximately 35 km north of Cameco's Key Lake uranium operation and approximately 4 km west of Highway 914. Denison is proposing to apply an innovative approach to uranium mining called In-Situ Recovery (ISR), which is used extensively internationally but has yet to be used in Canada. This approach eliminates the need for large open pits, shafts, and underground mine workings that are the norm for uranium mining in Canada to-date.

The scope of the baseline air monitoring program was developed with consideration to the potential Project-environment interactions that may exist during the construction, operation, decommissioning, and closure of the Project site, and the contaminants of potential concern (COPCs) that may be associated with these activities. Based on the description of the Project site and processes from the Pre-Feasibility Study [1], the projected activities during the various Project stages that have the potential to impact air quality include the following:

- Site preparation and earthworks activities during construction,
- Construction activity associated with building the access road and other mine site roads,
- Construction activity associated with building infrastructure,
- Increased road traffic on Highway 914 (construction crews, site personnel, deliveries, yellowcake shipping, etc.),
- Air traffic to/from the new airstrip,
- Operation of mobile equipment on-site (mining equipment, haul trucks, light-duty trucks, etc.),
- Operation of the standby diesel power generating station,
- Drilling activities in the ISR wellfield,
- Fugitive dust from unpaved roads, windblown dust,
- Radon emissions from ISR wellfield operations,
- Emissions from the ISR plant operations,
- Building demolition, and
- Re-grading and re-vegetation of site.

This report outlines the regulatory context of the baseline program in relation to the broader Environmental Assessment (EA) process, rationale for the selection of COPCs, measurement methodologies for each COPC inclusive of quality assurance and quality control (QA/QC) procedures, and the results of the air quality baseline monitoring program. The report is concluded with key observations from the monitoring program.

2.0 REGULATORY CONTEXT

The baseline air quality monitoring program is intended to support the development of an eventual EA for the Wheeler River Project, by establishing the existing air quality conditions prior to the construction and operation of the Project. As the baseline work will form the basis of the EA work pertaining to air quality (i.e., assessment of air quality impacts), it is important to consider the requirements of the EA process for the assessment of air quality in the scoping of the baseline program. As the Project is a proposed uranium mining operation, an EA will be required that will need to meet both Federal and Provincial EA processes.

2.1 PROVINCIAL REQUIREMENTS

The Provincial EA process is overseen by the Saskatchewan Ministry of Environment (SkMOE). As the baseline program involves measurements of air quality parameters, the SkMOE air quality monitoring guidance and requirements as outlined in its 2012 publication *Air Monitoring Guideline for Saskatchewan* [2] (the *Monitoring Guideline*) were followed in the development of the baseline program. This document outlines relevant information, such as permissible instrumentation and siting requirements that facilities are required to follow when completing ambient air monitoring in Saskatchewan. The Monitoring Guideline also includes SkMOE ambient air quality criteria; however, it should be noted that these criteria are not the most current and have been superseded by those in the Saskatchewan Environmental Quality Standard (SEQS) [3]. The Saskatchewan Ambient Air Quality Standards (SAAQS) are summarized in Table 20 of the SEQS, and the Saskatchewan Environmental Code identifies in Division E.1.2 that these standards must be met for industrial sources, including mine sites [4]. As such, the Project would need to be able to demonstrate compliance with the SAAQS in the impact assessment supporting the Provincial EA. These criteria identify the contaminants of interest to the SkMOE that should be considered for relevance during the baseline work. Not all of the contaminants listed in Table 20 of the SEQS are relevant to the Project and proposed operations; those that are relevant are summarized in Table 1.

Table 1: Saskatchewan Ambient Air Quality Standards

Pollutant	Average Concentration for Applicable Time Period ($\mu\text{g}/\text{m}^3$)				
	1-hr	8-hr	24-hr	30-day	Annual
Particulate Matter (PM _{2.5})			28 ^[1]		10
Particulate Matter (PM ₁₀)			50		
Total Suspended Particulates (TSP)			100		60 ^[2]
Nitrogen dioxide	300 (159 ppb)		200 (106 ppb)		45 ^[3] (24 ppb)
Sulphur dioxide	450 (172 ppb)		125 (48 ppb)		20 ^[3] (8 ppb)

Pollutant	Average Concentration for Applicable Time Period ($\mu\text{g}/\text{m}^3$)				
	1-hr	8-hr	24-hr	30-day	Annual
Carbon monoxide	15,000 (13,000 ppb)	6,000 (5,000 ppb)			
Notes:					
[1] The 3-year average of the annual 98th percentile of the daily 24-hour average concentrations.					
[2] Geometric means					
[3] Arithmetic means					

While carbon monoxide is relevant to the Project (as it is a combustion product, and there are a number of proposed combustion sources associated with operations), it is not measurable without access to power.

2.2 FEDERAL REQUIREMENTS

As the Project is a proposed uranium mining operation, a Federal EA will be triggered under the Canadian Environmental Assessment Act (CEAA), with the Canadian Nuclear Safety Commission (CNSC) acting as the lead agency. As a result, the baseline assessment framework has been developed to align with Federal standards and guidance. The Project will be expected to demonstrate compliance with the Canadian Ambient Air Quality Standards (CAAQS), and the monitoring program will be expected to include other ambient atmospheric parameters of interest to the CNSC, such as radon and gamma. The CAAQS have been developed by the Canadian Council of Ministers of the Environment (CCME) [5], and have been adopted federally by Environment and Climate Change Canada (ECCC), and are presented in Table 2.

Table 2: Canadian Ambient Air Quality Standards

Pollutant	Averaging Time	Numerical Value		
		2015	2020	2025
Fine particulate matter ($\text{PM}_{2.5}$)	24-hr ^[1]	28 $\mu\text{g}/\text{m}^3$	27 $\mu\text{g}/\text{m}^3$	
	Annual ^[2]	10 $\mu\text{g}/\text{m}^3$	8.8 $\mu\text{g}/\text{m}^3$	
Sulphur dioxide (SO_2)	1-hr ^[4]		183.4 $\mu\text{g}/\text{m}^3$ (70 ppb)	170.3 $\mu\text{g}/\text{m}^3$ (65 ppb)
	Annual ^[5]		13.1 $\mu\text{g}/\text{m}^3$ (5 ppb)	10.5 $\mu\text{g}/\text{m}^3$ (4 ppb)
Nitrogen dioxide (NO_2)	1-hr ^[6]		112.8 $\mu\text{g}/\text{m}^3$ (60 ppb)	79 $\mu\text{g}/\text{m}^3$ (42 ppb)
	Annual ^[5]		32.0 $\mu\text{g}/\text{m}^3$ (17 ppb)	22.6 $\mu\text{g}/\text{m}^3$ (12 ppb)
Notes:				
[1] 3-year average of the annual 98 th percentile of the daily 24-hr average concentrations				
[2] 3-year average of the annual average of all 1-hr concentrations				
[3] 3-year average of the annual 4 th highest of the daily maximum 8-hr concentrations				
[4] 3-year average of the annual 99 th percentile of the daily maximum 1-hr average concentrations				
[5] the average over a single year of all 1-hr average concentrations				
[6] 3-year average of the annual 98 th percentile of the daily maximum 1-hr average concentrations				

2.3 ADDITIONAL GUIDANCE

Particulate matter of less than 10 micron (PM₁₀) was identified as a COPC for the Project and included in the monitoring program. However, there is no annual provincial or federal limit currently in force. The WHO provides an annual standard for PM₁₀ of 20 µg/m³ [6] which will be used for comparative purposes in the assessment. In addition, when updating the provincial air quality standards from what is published in the SkMOE Monitoring Guideline to the current SAAQS, the standard for settleable particulates was removed. The standard for settleable particulates was formerly 2.0 mg/cm²/30-days [2] and has been included in this assessment for comparison to the measured levels.

3.0 SAMPLING METHODOLOGIES

Sampling methodologies were selected with consideration to the regulatory context, project setting, contaminant of concern, and industry standard practice. Section 2.3 of the SkMOE Monitoring Guideline identifies that analyzers “used for an ambient air monitoring program within the province must satisfy the requirements of the US EPA equivalent reference methods for ambient air monitoring” [2]. As a result of this requirement, the U.S. EPA *List of Designated Reference and Equivalent Methods* [7] was referenced when scoping the program to select equipment that would be acceptable to the SkMOE. Many of the instruments included in the U.S. EPA list are dependent upon access to a dedicated AC power supply and temperature-controlled enclosure. As the site is currently in the exploration phase, there is insufficient access to power to operate such equipment. It should be noted that the SkMOE does acknowledge that access to power may be a limiting factor for some projects and identifies in section 2.6 of the Monitoring Guideline that sampling using passive means is acceptable for such circumstances [2]. As such, where U.S. EPA reference or equivalent methods were either not available or not feasible, passive methods were considered.

3.1 SETTLEABLE PARTICULATES (DUSTFALL)

3.1.1 Equipment and Operation

Section 2.6 of the SkMOE Monitoring Guideline indicates that sampling using passive means is acceptable for areas where there is no access to power [2]. Dustfall was included in the baseline air quality monitoring program as it provided a cost-effective means to provide robust spatial coverage for particulate monitoring, and the resulting data on the dust deposition rate is of use to other EA disciplines such as the Human Health Risk Assessment (HHRA) component.

The dustfall monitoring procedure applied at the site was based on ASTM Standard D1739:1998 [8] and procedures from the British Columbia Environmental Lab Manual [9], with supplies and analysis being provided by ALS Environmental (ALS). Samples of dustfall are collected in open-topped polymer containers, which are inserted to a stand-mounted holder equipped with a wind shield and bird ring. The dustfall containers provided by ALS feature a tight-fitting screw lid, which is removed at the time of exposure and re-fitted at the time of retrieval. At the time of deployment, a 50% isopropanol solution is added as an anti-freezing agent and algae inhibitor. The containers are then placed in the holders and left open to the atmosphere for a period of 30 days (+/- 2 days) to collect settling particles. The field protocol outlines that periodic checks should be completed where possible to ensure that there is always some liquid in the container (to assist with entrainment of dust), and if not, to add deionized water to the container. At the end of the exposure period, the samples are resealed

by fixing the screw lid in place. Field sheets are used to keep track of the sample location, the start and end dates, and the amount of liquids added to the container. The full field protocol and an example field sheet is provided in Appendix A.

3.1.2 Siting

Siting criteria are provided in ASTM Standard D1739:1998, which outlines that there should be no structures higher than 1 m within 20 m of the container (or objects within 20 m should be less than 30° from the horizontal at the container top), and that the container should be approximately 2 m above the ground [8]. These criteria are similar those from the Monitoring Guideline, which for passive equipment outlines that the height above ground should be between 1-3 m, and the elevation angle should be less than 30° from the sample inlet to the top of any obstacle [2]. Monitoring was completed at six (6) locations at the Project site (see Figure 1).

3.1.3 Sampling Schedule

The SkMOE criterion for settleable particulates is presented in terms of a deposition rate on a 30-day basis (2.0 mg/cm²/30-days). The ASTM Standard outlines that the canister should be exposed to the atmosphere for a period of 30 days, +/- 2 days. This requirement appears in the field protocol, provided in Appendix A. The dustfall sample schedule that was followed in support of this study is summarized in Table 3.

Table 3: Dustfall Sampling Schedule (2018-2021)

Year	Round	Deployed	Retrieved	Average Exposure Period (days)
2018/2019	2019-1	October 2018	January 2019	113
	2019-2	January 2019	May 2019	110
2020	2020-1	July	August	34.9
	2020-2	August	September/October	34.1
	2020-3	September/October	November	33.6
2021	2021-1	June	July	32.0
	2021-2	July	August	38.0
	2021-3	August	September	35.4
	2021-4	September	October	30.5

NOTES:

[1] All results were prorated to a daily average exposure period by ALS. These were prorated to a period of 30 days for this report, in order to compare the results to the SkMOE standard. The results of the program are discussed in section 4.2.

3.1.4 Calibration and QA/QC

As the dustfall sampling is a passive method, there are no calibration requirements. A number of QA/QC procedures were written into the field protocol to ensure sample integrity. The following general approaches were applied:

- sample containers were kept sealed until the moment of deployment in the field,

- duplicate samples were collected at each site, to account for the possibility of a compromised sample,
- an algae inhibiting solution (50% isopropanol) was added to the container upon deployment to avoid sample contamination due to algae build-up,
- detailed field notes were maintained by the technicians to track the exact deployment and retrieval dates and times, location IDs, and any relevant observations,
- upon retrieval, the container lids were firmly screwed into place. Prior to shipping, the lids were taped to ensure they would not loosen during shipping, and
- the field technicians did not attempt to remove any debris from the canisters upon collection – the field technicians only contacted the external surface of the containers.

3.2 NITROGEN OXIDES AND SULPHUR DIOXIDE

3.2.1 *Equipment and Operation*

A passive sampling system developed by Bureau Veritas Laboratories (BVL) was used for the measurement of nitrogen dioxide and sulphur dioxide in ambient air. While the passive method is not a recognized U.S. EPA reference or equivalent method for NO₂ or SO₂, the SkMOE Monitoring Guideline does allow for the use of passive systems in areas where there is limited access to power [2]. The U.S. EPA Reference and Equivalent methods for NO₂ and SO₂ each require a continuous power source to operate and are generally rack-mounted systems that are intended to operate in an indoor, temperature-controlled environment, with a sample inlet extending out of the shelter and sample air being drawn via an electric pump. Such a system is not feasible for operation at this stage of the Project development, and so passive samplers were used to estimate the existing baseline condition.

The BVL Passive Air Sampling System (PASS) consists of a domed rain shelter with three slots on the underside for the installation of cartridges that are specially treated for the collection of various air contaminants. Cartridges for NO₂ and SO₂ were applied in this program. The cartridges are provided by BVL in sealed containers and are deployed simply by unsealing the cartridge in the field and installing it to the rain shelter. The cartridges are then exposed to the atmosphere for the approximately 30 days. Upon completion of the sample period, the cartridges are collected from the rain shelters and re-sealed in the sample containers. A field monitoring protocol for the passive samplers was developed by IEC and provided to the field team with IEC providing remote support. The field protocol is provided in Appendix A.

3.2.2 *Siting*

As noted previously, the SkMOE outlines siting criteria for static monitors in Section 2.2.2 of the Monitoring Guideline. These criteria include a sampler height above ground of between 1-3 m, and an elevation angle of less than 30° from the sampler inlet to the top of any nearby obstacle [2]. This matches exactly with the siting

criteria recommended by BVL for its sampling system. Monitoring was completed at two (2) locations, as shown in Figure 1.

3.2.3 Sampling Schedule

The exposure period recommended by BVL for the passive samplers is 30 days. The sample schedule that was followed in support of this study is summarized in Table 4.

Table 4: Passive Gaseous Compound Sampling Schedule (2019-2021)

Year	Round	Deployed	Retrieved	Average Exposure Period (days)
2019	2019-1	August	September	34.9
	2019-2	September	October	26.0
	2019-3	October	November	23.0
2020	2020-1	July	August	33.6
	2020-2	August	September/October	35.1
	2020-3	September/October	November	31.9
2021	2021-1	June	July	32.1
	2021-2	July	August	38.0
	2021-3	August	September	34.8
	2021-4	September	October	30.9

3.2.4 Calibration and QA/AC

The selected sampling method is a passive system, and so there are no equipment calibration requirements; however, there are a number of QA/AC measures that need to be observed to maintain sample integrity. These procedures are included in the field protocol that is provided for the sampling system in Appendix A. In general, the practices employed to ensure sample integrity included the following:

- duplicate samples were collected at each site, to account for the possibility of a compromised sample,
- samplers were kept in the sealed plastic bags and storage tins until the moment of deployment in the field,
- samplers were handled carefully by the field technicians, touching only the rim of the sampler and not the diffusion barrier,
- field technicians kept field notes to track the deployment and retrieval dates, sampler IDs, sample locations, and any relevant observations,
- technician field notes were used to ensure that the samplers were returned to the containers matching the sample ID for the sample location,
- upon retrieval, the samplers were returned to the associated plastic bag and sealed, prior to returning them to the metal container,

- the metal containers containing the retrieved samples were sealed with Teflon tape, to avoid contamination, and
- blank samples for each contaminant were requested from BVL for each round of sampling and returned to the lab with the collected samples.

3.3 EXTERNAL GAMMA

Gamma is not included in the list of standards from the SkMOE or ECCC; however, due to the nature of the operation (uranium mining) and oversight by the CNSC during the EA stage, it was recommended that the baseline monitoring program include the establishment of baseline gamma conditions. This would allow for the tracking of levels as the Project moves through its life-cycle.

3.3.1 Equipment and Operation

Gamma is measured using dosimeters, which were provided by the supplier with an environmental enclosure (a waterproof plastic pouch) for ease of set-up (i.e., can attach to a vertical surface such as a tree or post). The dosimeters are then exposed to the atmosphere for a period of approximately 90 days. The dosimeters used in this program were InLight® dosimeters developed by Landauer. The InLight® dosimeter provides results using optically stimulated luminescence (OSL) technology. The dosimeter has a window that opens to aluminum, copper and plastic filters, and an aluminum oxide detector slide. After the exposure period, the analysis of the dosimeter involves using OSL technology, whereby an LED array is used to stimulate the aluminum oxide detectors, and the emitted light is detected and measured by a photomultiplier tube (PMT). The amount of light measured by the PMT is directly proportional to the radiation dose. The minimum detectable dose of gamma radiation is 1 µSv (0.1 mrem) for photons with energies above 15 keV.

Each shipment of dosimeters is provided with two control dosimeters. The dosimeters begin detecting radiation as soon as they are shipped from the lab, and so the control dosimeters provide necessary information on the radiation doses received during the shipment and deployment/retrieval activities. As per the protocol provided in Appendix A, the “transit control” dosimeter is to be returned to Landauer immediately (as soon as possible) upon arriving at the field site. This is used to calculate the dose received during shipping. The “deploy control” is brought to each of the monitoring locations, but not deployed. After the dosimeters that are being exposed at the sample locations are installed, the “deploy control” is stored in a safe place at the work site until the exposure period is over. At that point, the “deploy control” is taken along for the removal of the exposed dosimeters, and all dosimeters are returned to Landauer for analysis. The “deploy control” represents the conditions leading up to and following the exposure period. The results from the exposed dosimeters are adjusted based on the “transit control” and “deploy control” results, to provide a net exposure.

3.3.2 Siting

The gamma dosimeters were positioned at two locations at the site, with one positioned upwind and one positioned downwind of the approximate area where Project activities are expected to occur. The monitoring locations were co-located with other monitoring equipment (Radon1 and Radon10). Refer to Figure 1 for the positions of the gamma monitoring locations.

3.3.3 Sampling Schedule

As noted above, the dosimeters for measurement of external gamma are generally exposed to the atmosphere for a period of approximately 90 days. The sampling schedule for the external gamma monitoring campaigns completed in support of this project are summarized in Table 5.

Table 5: Passive Gaseous Compound Sampling Schedule (2019-2021)

Year	Round	Deployed	Retrieved	Average Exposure Period (days)
2019	2019-1	September	November	50
2020	2020-1	July	November	102
2021	2021-1	February/March	June	100
	2021-2	June	September	105

3.3.4 Calibration and QA/QC

The selected sampling method is a passive system, and so there are no equipment calibration requirements; however, there are a number of QA/QC measures that need to be observed to maintain sample integrity. These procedures are included in the field protocol that is provided for the sampling system in Appendix A. In general, the practices employed to ensure sample integrity included the following:

- samplers were kept sealed until the moment of deployment in the field,
- field technicians kept field notes to track the deployment and retrieval dates, sampler IDs, sample locations, and any relevant observations, and
- control samples (deploy and travel) were provided by the laboratory for each round of sampling and returned to the laboratory as instructed (transit control returned upon receipt, deploy control returned with samplers).

3.4 RADON

Radon is not included in the list of standards from the SkMOC or ECCC; however, due to the nature of the proposed operation, Denison has been completing regular radon monitoring since 2016 at the Wheeler River site. The continued operation of this network of samplers will allow for the tracking of levels as the Project moves through its life-cycle.

3.4.1 Equipment and Operation

Radon in an outdoor ambient setting is typically collected using passive long-term radon detectors. For this program, the detectors were RapiDOS® alpha-track detectors from Radonova. In these systems, the detector is installed in a weather-protective casing that is then attached to a post or other vertical mount (e.g., tree), and exposed to the ambient air for three (3) months (90 days). Within the detector, alpha particles released during radon decay collide with a CR-39 chip, which leaves a track in the chip. The tracks are chemically etched and counted in the laboratory to determine the radon dose received in the detector, and to calculate a

concentration in ambient air. Upon retrieval, the passive sampler is returned to the laboratory for analysis, along with the field and travel blanks supplied by the manufacturer, per the manufacturer instructions.

3.4.2 Siting

Radon monitoring at the Wheeler River Project site commenced in 2016 at ten stations around the site. As shown in Figure 1, the radon monitors are located upwind of the site (i.e., to the north-west) and continue through the site to the south-east. The radon detectors were installed at eye-level, within canisters that are designed by the manufacturer of the detectors for outdoor installation. Two canisters, each holding one detector were installed at each site, in order to help ensure that a radon result is obtained for each location during each campaign in the event that one of the detectors is compromised.

3.4.3 Sampling Schedule

The radon samplers were generally deployed for periods of 1 to 3 months. A summary the deploy and retrieval dates for each sampling campaign, as well as the number of exposure days included in each campaign, is provided in Table 6.

Table 6: Radon Sampling Schedule

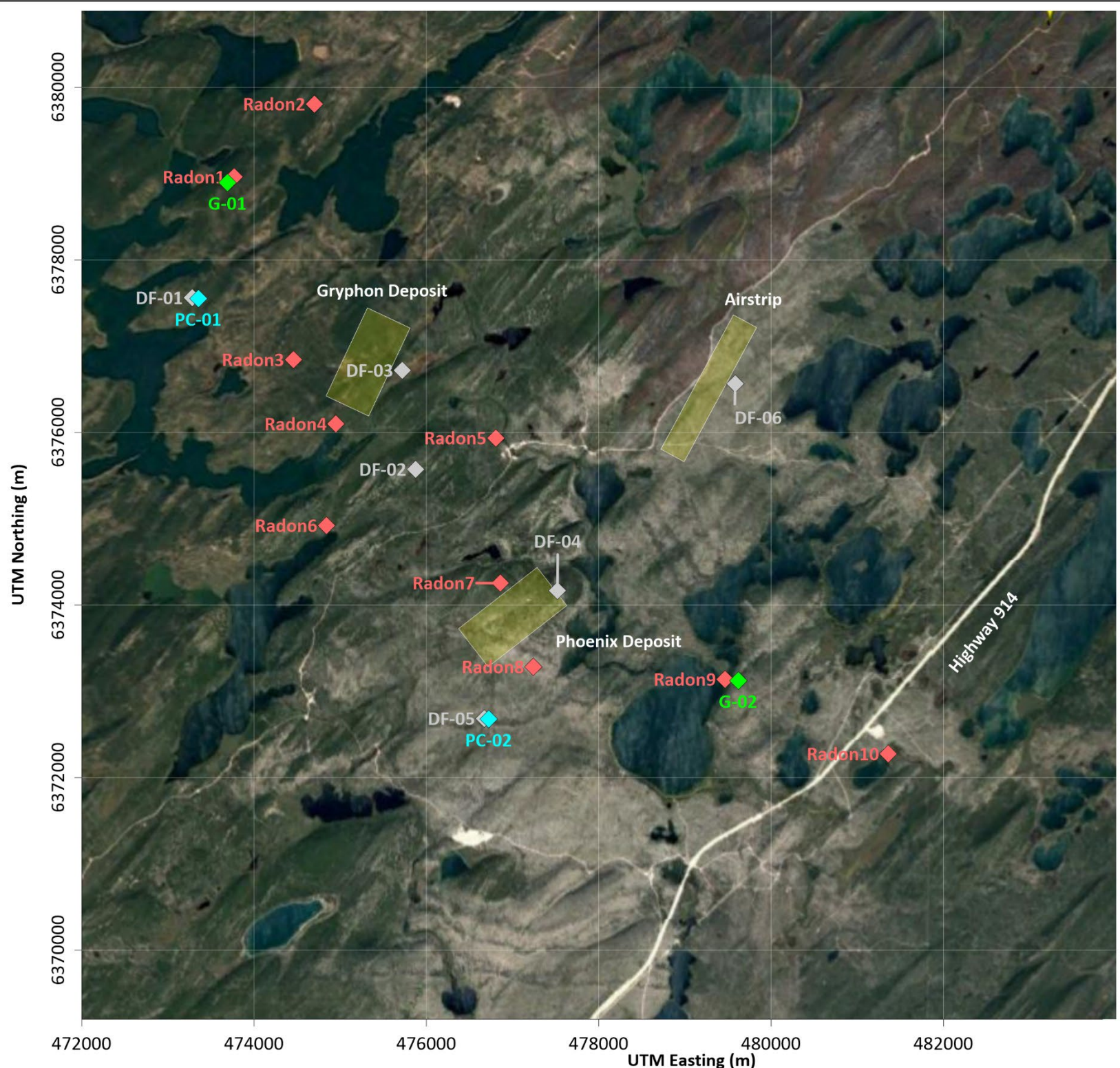
Year	Campaign	Deployed	Retrieved	Average Exposure Period (days)
2016	2016-1	September	January (2017)	123
2017	2017-1	January	June	133
	2017-2	June	August	80
	2017-3	August	January (2018)	144
2018	2018-1	January	March	64
	2018-2	March	July	112
	2018-3	July	September	52
	2018-4	October	January (2019)	112
2019	2019-1	January	May	109
	2019-2	May	September	136
	2019-3	September	February (2020)	132
2020	2020-1	February	July	170
	2020-2	July	November	103
	2020-3	November	February (2021)	106
2021	2021-1	June	September	105

3.4.4 Calibration and QA/AC





The selected sampling method is a passive system, and so there are no equipment calibration requirements; however, there are a number of QA/AC measures that need to be observed to maintain sample integrity. These

procedures are included in the field protocol that is provided for the sampling system in Appendix A. In general, the practices employed to ensure sample integrity included the following:

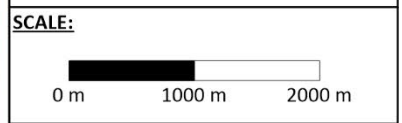
- samplers were kept in the sealed radon-proof bags until the moment of deployment in the field,
- field technicians kept field notes to track the deployment and retrieval dates, sampler IDs, sample locations, and any relevant observations, and
- transit control samples were provided by the laboratory for each round of sampling and returned to the laboratory with the collected samples.



LEGEND:

-  Dustfall Monitor
-  Passive NO2/SO2 Monitor
-  Gamma Monitor
-  Radon Monitor

NOTES:



REVISIONS:

No.	Date	By	Revision

REFERENCE:
 Basemap: Google Earth
 UTM Zone 13, WGS84



Denison Mines
Air Quality Monitoring Locations
 Wheeler River Project

Drawn By: NZS	Approved By: PLK	Figure No.: 1
Date: Feb. 2022	Project No.: SX18-0064	

4.0 RESULTS AND DISCUSSION

The sample media collected as discussed throughout section 3.0 were provided to accredited laboratories for analysis. The laboratory certificates of analysis were used in conjunction with the data collected in the field to derive air concentrations for comparison to the criteria presented in Section 0. The results are discussed in the following sections.

4.1 SETTLEABLE PARTICULATES (DUSTFALL)

As described in section 3.1, deposition of settleable particulates were measured using dustfall jars. The laboratory analysis determines the total dustfall loading (mg) that was collected in each jar, and uses the surface area of the jar, and information on the deployment period to calculate the dustfall deposition rate in mg/dm²/day in accordance with the B.C. Environmental Lab Manual [9]. The dustfall is reported in terms of “fixed”, “volatile”, and “total”, with the “total” dustfall representing the water soluble and insoluble material collected in the container, the “fixed” dustfall representing only the inorganic component of the total, and “volatile” representing the organic component of the total. Summary information for the data set is provided in Table 7, which includes the results for total dustfall only. It should be noted that samples were collected in duplicate at each location, and the results in Table 7 include both of the co-located samples (e.g., 14 samples collected at DF-01 represent two samples for each of the seven campaigns). The detailed results, including fixed, volatile, and total dustfall for each campaign are provided in Appendix B, and the laboratory Certificates of Analysis (CofA) are provided in Appendix C.

Table 7: Summary of Settleable Particulate Monitoring Results

Parameter	Unit	Monitoring Location					
		DF-01	DF-02	DF-03	DF-04	DF-05	DF-06
n	--	18	18	18	18	18	16
n<DL	--	9	7	10	5	6	5
average detectable	mg/cm ² /30-day	0.16	0.17	0.09	0.10	0.18	0.08
maximum	mg/cm ² /30-day	0.56	0.91	0.14	0.26	0.77	0.17
minimum	mg/cm ² /30-day	0.03	0.03	0.03	0.03	0.03	0.03
average	mg/cm ² /30-day	0.10	0.12	0.06	0.08	0.13	0.06
SkMOE AAQC	mg/cm²/30-day	2	2	2	2	2	2

As would be expected in a natural, undisturbed environment, the average and maximum levels of settleable particulate are well below the SkMOE criteria of 2 mg/cm²/30-days. The maximum dustfall amount from the various campaigns was 0.91 mg/cm²/30-days, which was collected at DF-02A in the summer of 2021 (July-August). This value represents approximately 46% of the SkMOE standard for settleable particulates. The next highest value of 0.77 mg/cm²/30-days (39% of the SkMOE standard) was measured during the same period at location DF-05A.

The predominant wind direction at the site is from the north-west, making DF-01 the upwind monitoring location, and the rest of the monitors downwind at various locations throughout the site. The results in Table X indicate that the average levels of settleable particulates at DF-01 were not the lowest amongst the various locations; however, it should be noted that the averages are being influenced by a sample collected at DF-01A in October 2021 which was 0.56 mg/cm²/30-days. The paired sample at this location had a result that was an order of magnitude lower, at 0.054 mg/cm²/30-days. If this result is excluded from the summaries, then the weighted average (i.e., including non-detectable results at the detection limit) was 0.06 mg/cm²/30-days, which is the same as the averages at DF-03 and DF-06 (both located at the north end of the site). As such, 0.06 mg/cm²/30-days may be considered an average baseline level for the area.

A metals analysis was completed on the dustfall samples collected in the September 2021 and October 2021 campaigns. The complete results of the metals analysis are provided in Appendix B, and the certificates of analysis from the laboratory are provided in Appendix C. Most of the metals that were included in the analysis were not present at detectable levels. The metals that were generally detectable in one or both campaigns included aluminum, barium, calcium, copper, iron, lead, magnesium, manganese, phosphorous, potassium, silicon, sodium, strontium, and uranium. There are no SAAQS or CAAQS for metals in dustfall. A summary of the detectable metals that are also to be represented as COPC in the Air Quality effects assessment is provided as a percentage by mass of the fixed (i.e., insoluble) dustfall in Table 8.

Table 8: Summary of Metals Composition in Fixed Dustfall

Parameter	Composition (%)											
	Arsenic (As)	Cadmium (Cd)*	Chromium (Cr)*	Cobalt (Co)*	Copper (Cu)	Lead (Pb)	Molybdenum (Mo)	Nickel (Ni)*	Selenium (Se)*	Uranium (U)	Vanadium (V)*	Zinc (Zn)
average	0.0015%	0.0006%	0.0057%	0.0012%	0.0136%	0.0013%	0.0058%	0.0057%	0.0115%	0.0004%	0.0115%	0.042%
maximum	0.0015%	0.0007%	0.0072%	0.0015%	0.0359%	0.0018%	0.0100%	0.0072%	0.0145%	0.0012%	0.0145%	0.056%

Notes:

*metal was not detectable in any sample; composition percentages based on the detection limit for the sample and were calculated only for samples where there was detectable fixed dustfall

4.2 NITROGEN OXIDES AND SULPHUR DIOXIDE

As discussed in section 3.2, baseline concentrations of NO₂ and SO₂ in the study area were assessed at two locations using passive samplers. The laboratory uses meteorological data, information on the deployment period to report, and the submitted blank samples, to provide air concentration data directly in the certificates of analysis. The air concentrations represent the average concentration for the deployment period, and so are not directly comparable to the criteria identified in section 0. To facilitate a comparison of the measured levels to the criteria, a conservative approach to adjusting the averaging period¹ was applied to the data. Summary information for the data set is provided in Table 9, Table 10, while detailed results are provided in Appendix B. Certificates of analysis from the laboratory are provided in Appendix C. The results show that the existing levels of NO₂ and SO₂ are well below the applicable criteria, as would be expected for this remote location.

Table 9: Summary of NO₂ and SO₂ Monitoring Results at PC-01

Parameter	NO ₂ Concentration (µg/m ³)				SO ₂ Concentration (µg/m ³)			
	Period	Annual	24-hr	1-hr	MP	Annual	24-hr	1-hr
Average monitoring period	32.0 days							
n	20				18			
n<DL	18				10			
average detectable	0.28	0.15	0.76	1.8	0.33	0.17	0.88	2.1
maximum detectable	0.38	0.19	0.99	2.4	0.52	0.27	1.4	3.4
minimum	0.19	0.09	0.45	1.1	0.26	0.12	0.63	1.5
weighted average	0.20	0.10	0.52	1.3	0.29	0.15	0.77	1.9
SAAQS	-	45	200	300	-	20	125	450
CAAQS (2025)	-	22.6	-	79	-	10.5	-	170.3

¹ Ontario Regulation 419/05 [12] provides the following method for scaling average concentrations for different time averaging periods:

$$C_0 = C_1 * \left(\frac{t_1}{t_0}\right)^{0.28} ; \text{ where } C_0 \text{ and } C_1 \text{ are the air concentrations at time } t_0 \text{ and } t_1, \text{ respectively.}$$

Table 10: Summary of NO₂ and SO₂ Monitoring Results at PC-02

Parameter	NO ₂ Concentration (µg/m ³)				SO ₂ Concentration (µg/m ³)			
	Period	Annual	24-hr	1-hr	MP	Annual	24-hr	1-hr
Average monitoring period	31.2 days							
n	20				20			
n<DL	18				17			
average detectable	0.28	0.13	0.67	1.6	0.52	0.27	1.4	3.5
maximum detectable	0.38	0.17	0.90	2.2	0.79	0.39	2.1	5.0
minimum	0.19	0.09	0.45	1.1	0.26	0.12	0.63	1.5
weighted average	0.20	0.10	0.51	1.3	0.30	0.15	0.79	1.9
SAAQS	-	45	200	300	-	20	125	450
CAAQS (2025)	-	22.6	-	79	-	10.5	-	170.3

The average detectable concentrations disregard any sample results that were below the detection limit, whereas the weighted average includes the non-detects, which were included in the average at the detection limit. It should be reiterated that these projected concentrations are averages from the measured values, which are considered monthly averages. For instance, the projected 1-hour concentration of NO₂ from the highest measured monthly average at Foran-P3 is 2.2 µg/m³; however, actual hourly concentrations of NO₂ would have fluctuated about this level to some degree over the course of the measurement period. This comparison is simply intended to demonstrate how average conditions compare to the SAAQS and CAAQS, and these tables show that the measured results are well below both the SAAQS and CAAQS.

4.3 EXTERNAL GAMMA

As discussed in Section 3.2, long-term baseline gamma doses were assessed at two locations using dosimeters. It should be reiterated that the gamma dose is not measured directly from the dosimeter, as the dosimeters register gamma during transportation from the laboratory to the site and continue to register gamma on the return shipment back to the laboratory after sampling. Control samples are used to calculate a net dose from the gross dosage that the dosimeter deployed in the field registered. The results of the external gamma monitoring program are provided in Table 11. It should be noted that the adjustment from a gross dose to a net dose resulted in negative values in some instances. This would indicate that the baseline gamma at the Project site is very low.

Table 11: Summary of External Gamma Monitoring

Location ID	Start Date	End Date	Exposure Days	Exposure (mSv)	
				Gross	Net
G-01	2019-09-25	2019-11-14	50	0.252	0.008
	2020-07-25	2020-11-03	101	Destroyed in field	
	2021-03-11	2021-06-08	89	0.469	-0.139
	2021-06-08	2021-09-21	105	0.31	-0.129
G-02	2019-09-26	2019-11-14	49	0.22	-0.024
	2020-07-24	2020-11-03	102	0.218	-0.098
	2021-02-17	2021-06-08	111	0.289	-0.06
	2021-06-08	2021-09-22	106	0.242	-0.197

4.4 RADON

Monitoring of baseline levels of radon have been occurring at the Wheeler River site since 2016, using alpha-track etch monitors, at ten locations around the site as shown in Figure 1. A statistical summary of the data collected at each of the locations is provided in Table 12. The full monitoring results for each station are provided in Appendix B, with certificates of analysis from the laboratory provided in Appendix C.

Table 12: Statistical Summary of Radon Monitoring Data (2016-2021)

Location	n	n<DL	Average Detectable (Bq/m ³)	Max Detectable (Bq/m ³)	Minimum (Bq/m ³)	Weighted Average (Bq/m ³)	Detectable Range (Bq/m ³)
Radon 1	26	17	4.8 ± 3.3	9 ± 3	< 3	5.0	0 to 13
Radon 2	26	17	4.7 ± 3.0	8 ± 3	< 3	4.8	0 to 11
Radon 3	32	17	4.6 ± 2.8	9 ± 3	< 2	4.6	0 to 12
Radon 4	31	17	3.9 ± 2.9	10 ± 3	< 3	4.4	0 to 13
Radon 5	30	13	5.1 ± 2.8	12 ± 4	< 3	5.2	0 to 15
Radon 6	32	18	5.9 ± 3.1	19 ± 4	< 3	5.1	0 to 23
Radon 7	32	18	6.2 ± 3.1	19 ± 4	< 3	5.7	0 to 23
Radon 8	32	21	4.0 ± 3.2	5 ± 5	< 3	4.3	0 to 10
Radon 9	31	22	5.0 ± 3.1	9 ± 4	< 3	4.5	0 to 13
Radon 10	30	16	3.8 ± 2.8	6 ± 3	< 3	3.9	0 to 9

The maximum radon levels at the monitoring locations ranged from 9 Bq/m³ at Radon 10 to 23 Bq/m³ at Radon 6 and Radon 7. These maximums account for uncertainty measures from the laboratory (e.g., the maximum result at Radon 10 was reported by the laboratory as 6 ± 3 Bq/m³ and reported in Table 12 as 9 Bq/m³). Radon locations 6 and 7 (where the maximum concentrations were measured) are each located towards the west side of the site, between the Phoenix and Gryphon deposits, while location 10 (where the lowest concentration was measured) is located furthest to the south-east of the site, next to Highway 914. With the exception of locations 6 and 7, the maximum radon concentrations ranged from 9 to 15 Bq/m³. In the CNSC *Regulatory Oversight Report for Uranium Mines and Mills in Canada: 2016* [10], it is stated that the regional baseline in northern Saskatchewan is less than 7.4 Bq/m³ to 25 Bq/m³. All results from the baseline monitoring program are within this range.

5.0 CONCLUSIONS

Denison is proposing to develop a uranium mine at the Wheeler River property in northern Saskatchewan, which would utilize an ISR process for extracting uranium from the ore body and thereby eliminate the need for open pits, shafts and underground workings, and tailings storage that are associated with other uranium mines in the area. The Wheeler River Project site is located approximately 35 km north of Cameco's Key Lake uranium operation and approximately 4 km west of Highway 914. In preparation for the development of an EIS, Denison has been completing baseline air monitoring at the Project site since 2016. To-date, the program has included measurement of radon, dustfall, trace gases (NO₂ and SO₂), and external gamma. The results of the measurements indicate that the baseline levels of the COPC of interest are well below the provincial and federal air quality criteria that have been adopted for comparison and are within ranges that would be expected in an undeveloped remote site. The measured baseline concentrations will be used in conjunction with the predictive modelling of future impacts associated with the project, being completed in support of the EIS for the Project.

6.0 REFERENCES

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- [6] World Health Organization, "WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide, Global Update 2005, Summary of Risk Assessment," WHO, Geneva, 2005.
- [7] United States Environmental Protection Agency, "List of Designated Reference and Equivalent Methods," 15 December 2018. [Online]. Available: <http://www.epa.gov/ttn/amtic/criteria.html>. [Accessed 5 March 2019].
- [8] ASTM International, "Standard Test Method for Collection and Measurement of Dustfall (Settleable Particulate Matter) Designation D1739-98," ASTM, 1998.
- [9] Province of British Columbia Ministry of Environment, "British Columbia Environmental Laboratory Manual," BC MOE, 2015.
- [10] Canadian Nuclear Safety Commission (CNSC), "Regulatory Oversight Report for Uranium Mines and Mills in Canada: 2016," CNSC, Ottawa, 2018.
- [11] Government of Ontario, *O.Reg. 419/05: Air Pollution - Local Air Quality*, 2005.
- [12] Canadian Nuclear Safety Commission, "Nuclear Safety and Control Act, Radiation Protection Regulations," Minister of Justice, Ottawa, 2000.

Appendix A:

Field Protocols

1. Purpose

The Wheeler River Project Atmospheric Dustfall Monitoring Procedure has been developed to meet the following objectives:

- To establish baseline atmospheric dustfall conditions in the Project area;
- To determine the extent and magnitude of atmospheric dustfall at selected locations representative of short-term Project activities as well as predict long-term impacts; and
- To determine seasonal variations in dustfall among selected sampling locations.

2. Applicable To

- Environment Manager
- Project Geologists
- Environmental Consultants
- Field Technicians

3. General Information

It is anticipated that the largest amount of fugitive dust emissions (particulate matter) generated by Project activities will be associated with vehicle transportation along site access roads (e.g., the Gryphon Mine Access Road) and the Main Wheeler River Site Access Road. However, dust emissions are also anticipated to be generated by various mining activities/ equipment at point-source locations (e.g., mine ventilation equipment, drilling and construction activities). The Wheeler River Atmospheric Dustfall Monitoring Program has been developed to collect pre-development atmospheric dustfall baseline conditions, as well as ongoing conditions as they may be influenced throughout various mine lifecycle stages (e.g., construction and operational activities).

4. Information on Current Set-Up

Dustfall stations were established in October 2018. Each sampling station includes two dustfall sampling stands approximately 20 - 50 feet apart. This will allow for sampling in duplicate at each station. Each dustfall stand is constructed of a steel hollow post (~ 2 m) and terminal bowl shaped holder for the dust collection vessel (refer to Figure 1). The terminal bowl is topped with bird spikes (zip ties) to prevent birds from perching, as well as contamination by bird fecal matter. Stands were installed at each location by driving approx. 12 inches of the steel stand post into the ground, and then stabilizing the stand with guywires (galvanized aircraft cable (1/16")) attached to fence stakes also pounded into the ground.

Each station was constructed such that the top of each sample container is a minimum of 2.4 m above ground surface, and installed such that all obstructions are less than 30° above the horizontal where possible (Figure 2).

Dust collection vessels (canisters) are provided by the laboratory. They contain deionized water plus algicide in summer, and deionized water plus alcohol in winter. Canisters are placed in the holder and left out for a 3 to 6 month sampling window. At completion of the monitoring period, canisters are collected and shipped to an accredited laboratory for analysis of total, fixed and volatile insoluble particulate matter.

5. Sampling Equipment

- Site-specific personal protective equipment;
- Canister lids labelled with stand IDs and previous sampling date/time;

- Camera;
- GPS;
- Field book and blank laboratory Chain of Custody (CoC);
- Laboratory-prepared dustfall collection canisters with algacide or alcohol;
- Permanent black labelling marker (e.g., Sharpie);
- Bags to store lids; and
- Cable cutters, hammer, cable clamps, and other tools for making repairs to stands as required.



Figure 1 – Dustfall Sampling Stand

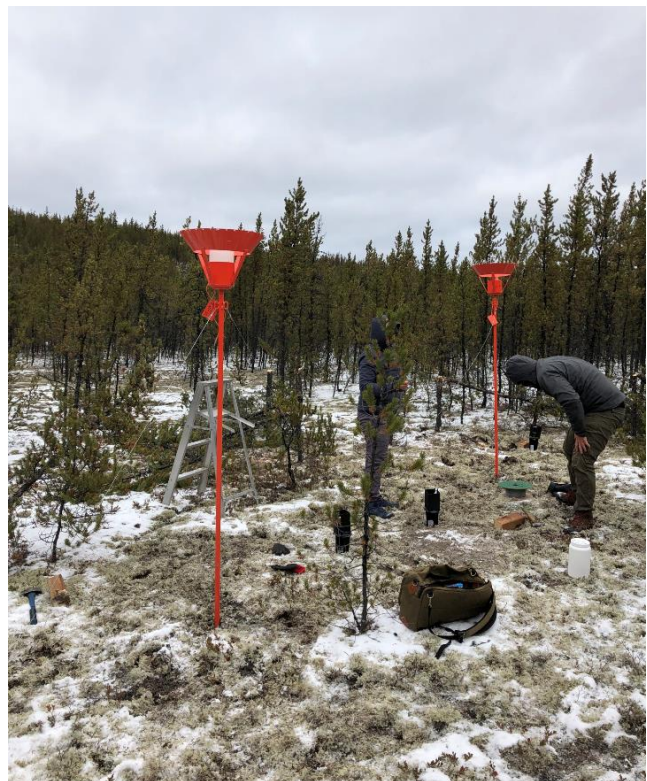


Figure 2 – Setting-up the Dustfall Stands

6. Methodology

Passive dustfall monitoring methods are used to quantify deposition rates of fugitive dust emissions originating from various mine activities (e.g., ore transport corridors, mine ventilation) throughout the various mine lifecycle stages (e.g., construction, operation and decommissioning).

Dustfall Monitoring Locations

Six baseline atmospheric dustfall sampling stations were established in October 2018. To the greatest extent possible, sample site locations were selected based on the following criteria:

- Low-lying (away from crests or ridge lines, etc.) areas to allow for dust collection as a result of gravity settling;

- Open areas (e.g. areas recent impacted by forest fire or meadows) with trees and other obstructions (e.g., buildings) that are less than 30° above horizontal viewed from the site location;
- Co-located near passive ambient radon monitoring stations to facilitate change out of both monitors during the same sampling campaign; and
- Accessible via all-terrain vehicle or snowmobile.

Table 1 provides sample station locations and descriptions. Figure 3 shows the location of dustfall sampling stations.

Table 1 – Dustfall Sampling Stations

Dustfall Station ID	Location UTM Coordinates	Description
DF-01	0473864 m E 6378112 m N	Reference station approx. 2.5 km northwest (upwind of prevailing winds) of the Wheeler River Project Study Area
DF-02	0475527 m E 6375928 m N	0.5 km east (downwind) of the Gryphon Mine Access Road
DF-03	0475722 m E 6376721 m N	0.75 km east (downwind) of proposed Gryphon Mine activities (e.g., mine ventilation infrastructure, haul roads, production shaft)
DF-04	0477521 m E 6374168 m N	0.5 km east of proposed Phoenix ISR activities (adjacent to Lake LA-5)
DF-05	0476638 m E 6372046 m N	0.5 km east of the midway point of the Main Wheeler River Access Road
DF-06	0479583 m E 6376566 m N	0.5 km east of proposed airstrip, adjacent to lake

Monitoring Procedure

Each sample station consists of two dustfall stands with laboratory-provided canisters containing a liquid solution (de-ionized water with algaecide for summer months and deionized water with alcohol for winter months) that is open to the air for approximately three to six months (to align with Radon Monitoring Program). Each canister is placed in the holding cup approximately two meters above the ground surface (refer to Figures 1 and 2). The dustfall sample canisters are to be collected and replaced at the end each sampling period, capped, and dropped off at ALS lab in Saskatoon (or shipped to ALS Environmental Laboratory in Burnaby, BC) for analysis of total, fixed and volatile insoluble particulate matter.

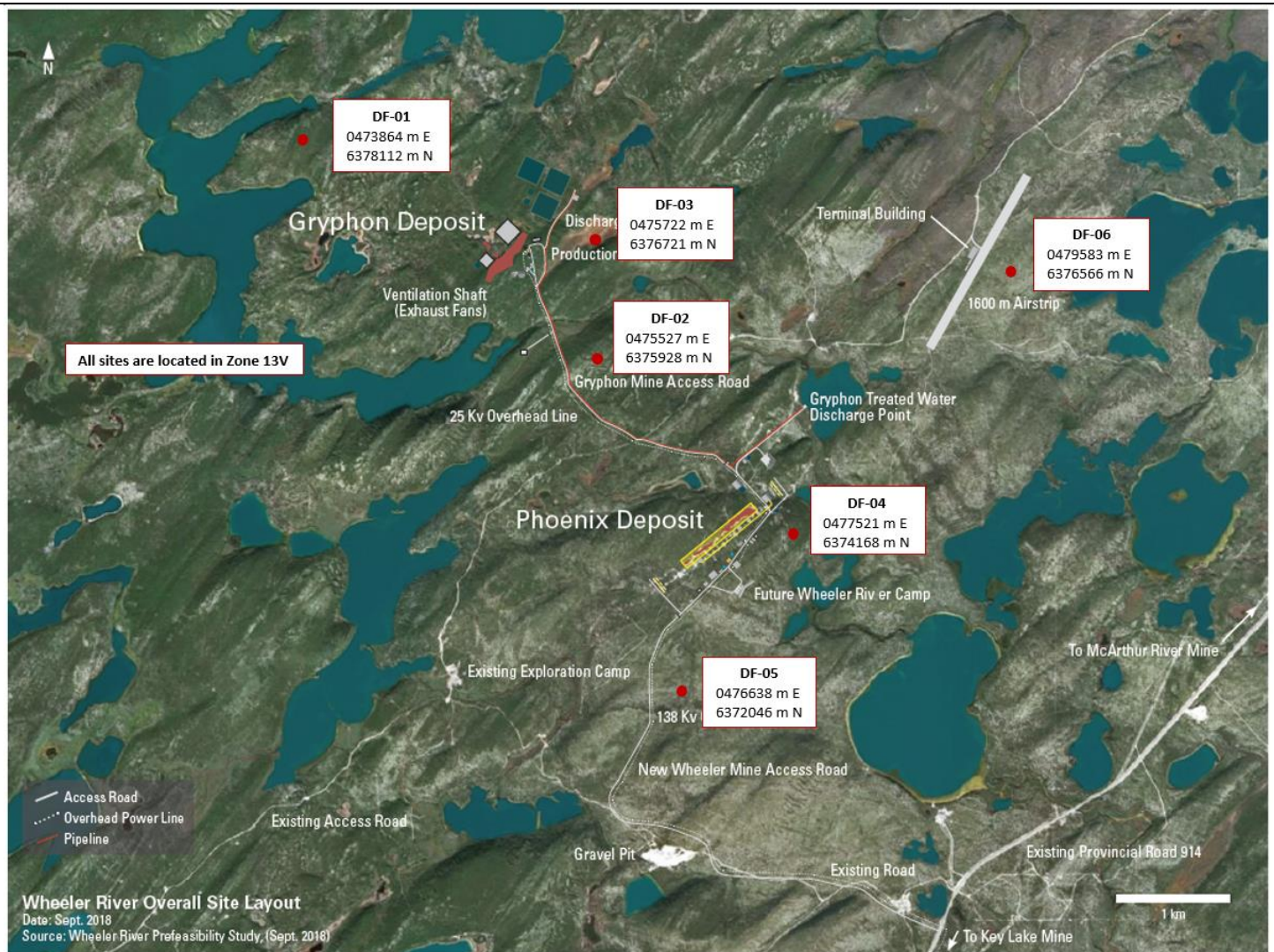


Figure 3 – Dustfall Sampling Locations

The following steps outline the process for changing out dustfall canisters:

1. Order 14 new dustfall canisters prior to each sampling campaign and have them shipped to site.
2. Upon arrival at each sampling location, make note of any unusual condition(s) of the dustfall stand, or of the surrounding area (e.g., evidence of wildlife, human tampering, equipment operating in proximity, etc.);
3. Select the corresponding canister lid, which will be labelled with the stand ID (e.g., DF-01) and the date/time of the previous collection event.
4. Record the date/time of the sampling event on the lid. The lid will now have the date and time when the canister was deployed as well as the date/time during when it was collected.
5. Place the lid on the canister. Ensure that it is secured tightly to avoid leakage during transport.
6. Remove the canister from the stand holding cup and place it in a cooler.

-
7. Retrieve a new prepared canister and label the lid with the stand ID (e.g., DF-01) and the date/time.
 8. Remove the lid before placing the prepared canister in the stand holder.
 9. Place the lid in a plastic bag and store on-site until it is time to change out the canister. Before placing the lid in the bag, wipe or rinse the interior of the lid so that remnant alcohol is not introduced into the plastic bag. If alcohol is in the bag, it may remove information written on the lid in permanent marker.
 10. Upon returning from sampling, prepare the laboratory Chain of Custody (CoC) provided in Attachment A.
 11. Place the lids that were removed from the deployed canisters in a safe location where they can be easily retrieved for the next collection event.
 12. Ensure collected canisters are accurately labelled in accordance with the laboratory CoC. Select analysis of total, fixed and volatile insoluble particulate matter.
 13. Package cooler(s) containing collected canisters for laboratory shipment.
 14. Drop off coolers at ALS Environmental Laboratory in Saskatoon (819 58 Street East, Saskatoon SK S7K 6X5) or ship coolers to ALS in BC (8081 Lougheed Highway, Burnaby BC V5A 1W9).

7. Closing

Laboratory analytical results are compared to the Canadian Ambient Air Quality Objectives (CAAQOs). Additionally, future results will be reviewed to evaluate concentrations generated by mine activities in comparison to background levels and reference sites. Finally, by using wind direction and speed data available through localized climate data, the effect of wind on dustfall deposition originating from fugitive emissions sources can be further investigated.

8. Attachment

ALS Laboratory Chain of Custody Form.

Excel version of ALS CoC is also available on their website under 'Downloads' section

<https://www.alsglobal.com/locations/americas/north-america/canada/saskatchewan/saskatoon-environmental>

Principles of Operation

A passive (or diffusive) sampler is a device which is capable of taking samples of gas or vapor pollutants from air at a rate controlled by a physical process such as diffusion through a static air layer or permeation through a membrane. However, it does not involve the active movement of the air through the sampler.

The Bureau Veritas (formerly Maxxam) Passive Air Sampling System (PASS) was developed with the support of *Alberta Environment* (AENV, formerly named *Alberta Environmental Protection*, or AEP), *Alberta Innovates* (formerly named *Alberta Research Council*, or ARC), *Clean Air Strategic Alliance of Alberta* (CASA) and the *National Research Council of Canada* (NRC). It was designed for downward-facing installation and has been validated under extreme weather conditions. It has a durable, all-season top cover (to shelter against rain, snow and wildlife) and the user can install up to three samplers per shelter. The unit itself can be secured to any support system with strapping or hose clamps.

Required Equipment: Passive Air Sampling System (PASS)

A sampling unit consists of one (1) rain shelter and three (3) passive samplers (one for SO₂, NO_x, and NO₂), as shown in Figure 1. The tools required for monitoring are provided in the subsequent table.

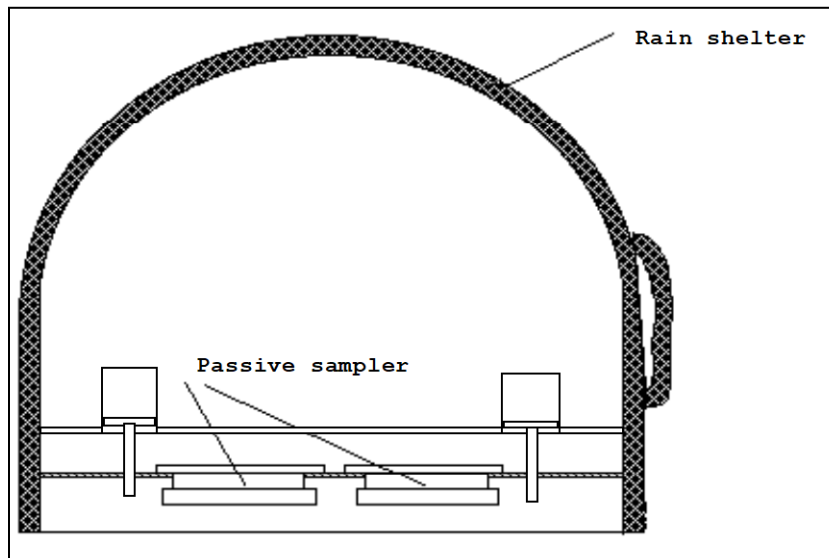


Figure 1: Cross Section of Rain Shelter

Sample Deployment	Sample Retrieval
Rain shelter	Metal containers for deployed passive samplers (incl. plastic caps and plastic bags)
Passive samplers	Latex or nitrile gloves
Hose clamps or zip ties	Teflon tape
Screwdriver (for hose clamps)	Field binder
Latex or nitrile gloves	Digital camera
Field binder	
Digital camera	

Installing passive samplers

Each rain shelter will house one (1) SO₂ passive sampler, one (1) NO_x passive sampler, and one (1) NO₂ passive sampler. To install the PASS, complete the following steps:

1. Find a suitable location or supporting structure that can be used to secure the rain shelter using hose clamps (or similar) so that the underside of the rain shelter faces down towards the ground (see Figure 2). The bottom of the rain shelter should measure 1-3 meters above the ground (see Figure 3).



Figure 2: Rain Shelter In Place

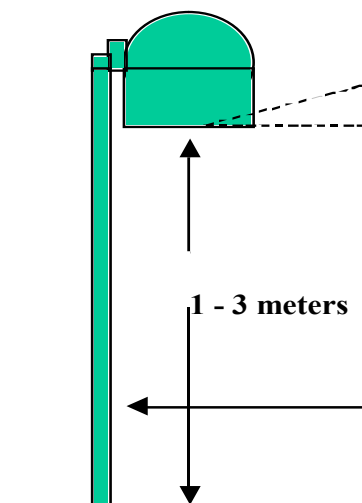


Figure 3: Height Above Ground

NOTE: Monitoring locations should not be close to roadways. The distance between the monitoring location and the roadway should be more than 10 m. The monitoring site should be located away from nearby obstructions such as buildings, trees, etc. The ideal monitoring site should be more than 20 m from the nearest tree canopy (drip line), and the top of the nearest obstruction should be less than 30° from a horizontal plane at the sampler inlet.

2. Using latex or nitrile gloves, remove one of the passive samplers from its protective metal container and the resealable plastic bag (Figure 4). Store the plastic bag inside of the container for future re-use. When handling a passive sampler:

IMPORTANT: Do not touch the diffusion barrier (the white centre); hold the sampler by the plastic edge (see Figure 4). Do not let the passive sampler contact the ground.

Carefully remove the protective plastic cap on the passive sampler. Keep the plastic cap with the metal protective container also.



Figure 4 – Passive Sampler Re-Sealable Bag and Metal Container

3. Holding the passive sampler with the coloured side facing toward the ground, push up any of the three buttons on the rain shelter and slide the sampler towards the centre of the rain shelter (see Figure 5). Make sure that the button falls back down after the passive sampler has moved to the centre.



Figure 5 – Installation of Passive Samplers

4. Record the exposure starting date and time of day on the field sampling sheet provided.
5. Repeat steps 2-4 for the remaining two (2) passive samplers.

IMPORTANT: Do not open passive samplers labelled "Blank". Keep stored until the others are to be sent for analysis.

Removing passive samplers

1. Record the exposure end date and time of day on the field sampling sheet provided. The total exposure time should be about 30 days \pm 2 days.
2. Holding the edge of a passive sampler, slide it away from the centre of the rain shelter to remove it.
3. Find the corresponding metal container for the passive sampler (ensure that the colour coding is followed). Place the plastic cap back on the passive sampler and put it back into the plastic bag. Finally, place into the protective metal container and seal the container with Teflon tape to preserve sample integrity.
4. Fill out a Bureau Veritas chain of custody form for all samples, and forward all passive samplers, including those labelled "Blank" to the lab. Samples should be sent to the lab as soon as possible after retrieval.

Storing unexposed passive samplers

1. Passive samplers that are not installed/exposed can be stored at room temperature for no longer than one month OR in a refrigerator at 4°C for no longer than 3 months.

Passive Sampling Rate Calculation

1. The sampling rates for the passive media depend on many factors such as temperature, relative humidity, wind direction, wind speed, sampler structure, and collection media. An equation, which accounts for variations in temperature, relative humidity, and wind speed, is used by the lab to calculate sampling rates.

NOTE: These sampling rate calculations will be completed by Bureau Veritas, which may contact the sender in order to request on-site meteorological data.

Principles of Operation

The Landauer InLight low level dosimeter measures environmental radiation from high energy photons (X and gamma rays; energies >15 keV) and beta particles (energies >500 keV). For X and gamma rays, the dosimeter has a minimum detectable dose of 0.1 mrem (1 μ Sv). The dosimeter is built on an assembly that includes a case with copper and plastic filters and an aluminum oxide detector slide with four positions. The dosimeters are contained within a plastic weather-proof sleeve and marked with a unique serial number and barcode. The dosimeters operate passively (i.e., they do not involve the active movement of the air through the dosimeter) and are fully compliant with ANSI N545-1977, NRC Regulatory Guide 4.13 and HPS Draft Standard N13.29 specifications.

Required Equipment: Landauer InLight low level dosimeter(s)

A sampling unit consists of one (1) or more dosimeters suitable for field sampling and two (2) control dosimeters. Landauer ships multiple dosimeters together in packages. Within the package, each dosimeter is contained within its own protective sleeve and each sleeve is marked with a unique serial number that should be recorded to track chain of custody.

The two control dosimeters are integral to the measurement campaign and care must be taken to treat them appropriately. Photographs of the dosimeters and controls are provided in Figure 1. The tools required for deploying the dosimeters are listed in the subsequent table.



Figure 1: Dosimeter Package and Contents

Denison Mines Corp. <i>Wheeler River Uranium Project</i>	2019 Baseline Ambient Air Monitoring Program <i>Low Level Dosimetry Procedure</i>
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Sample Deployment	Sample Retrieval
Field dosimeter(s) Transit control dosimeter Deploy control dosimeter Duct tape or zip ties Field binder Digital camera	Field dosimeter(s) Knife or cutters Field binder Digital camera

Installing passive samplers

To deploy the dosimeters, complete the following steps:

1. In an appropriate staging area at the field site (e.g., environmental trailer), open the package containing the dosimeters. Identify the control dosimeters, which are marked and should be employed as follows:
 - The control dosimeter marked “**transit control**” should be sent back to Landauer immediately. This control dosimeter is used to characterize the amount of radiation absorbed by the dosimeters during travel to/from the field site.
 - The second control dosimeter marked “**deploy control**” should be kept in a safe location at the field site for the duration of the sampling but should not be deployed in the field. Once the field sampling is completed and the other dosimeters are collected, the deploy control dosimeter should be packaged with the dosimeters and all the dosimeters should be sent back to Landauer together.
2. Find a suitable location or supporting structure that can be used to securely affix the field dosimeter. For convenience, the dosimeter can be co-located with the Radon samplers.
3. Taking care not to puncture or damage the protective case on the dosimeter, use a zip tie or duct tape (or other secure mounting method) to securely affix the field dosimeter to the mounting point.
4. Record the serial number, exposure starting date and time of day on the field sampling sheet provided. Take a digital photograph of the deployed dosimeter once it is securely affixed.
5. Repeat steps 2-4 for the remaining dosimeters.

IMPORTANT: Do not deploy dosimeters labelled “Control”. Follow the procedure outlined in Step #1.

Removing passive samplers

1. Record the serial number, exposure end date and time of day on the field sampling sheet provided. The total exposure time should be about 90 days \pm 2 days.
2. Taking care not to puncture or damage the protective case on the dosimeter, use a knife or cutters to cut the zip tie or duct tape that was used to affix the field dosimeter to the mounting point.
3. Fill out a chain of custody form for all dosimeters and repackage the dosimeters for return shipment. Forward all dosimeters, including those marked "deploy control" that have been safely set aside, back to the Landauer lab for analysis. Dosimeters should be sent to the lab as soon as possible after retrieval.

Purpose:

This procedure describes the steps to deploy, take down, and change passive radon detectors which are used to monitor ambient radon gas (Rn-222).

Applicable To:

- Environment Manager
- Project Geologists
- Environmental Consultants

General Information:

- Rapidos are high-sensitivity radon detectors. The Rapido high-sensitivity radon detectors will be referred to as *detectors* in this procedure.
- The detectors are small, black, plastic, puck-shaped devices. They are received in individual radon-resistant bags. DO NOT open the bags until the detectors are at their monitoring station and are ready to be deployed. The measurement of radon begins when the radon-proof bag is opened. Do not use a detector that has been exposed to atmospheric conditions. Do not worry about mishandling the detectors or trying to avoid touching certain areas: the CR39 chip is protected inside of the actual device.
- The detectors can be deployed (i.e., left outside in the protective canister) for 1 to 3 months. This is when they will be measuring ambient radon for the Wheeler River baseline program. At the end of the monitoring period, the detectors will be taken down and sent to Landauer for analysis.
- On the bottom of each detectors is a unique serial number.
- Protective canisters were installed at eye-level on tree trunks. The canisters can be reused over and over again with new detectors. The canisters can house one or two radon detectors and protect the detectors from rain, debris, etc.



Equipment Required:

- Detectors
- Protective canisters (will require new ones when setting up any new stations, otherwise reuse the canisters already mounted to trees)
- Outdoor assembly kits
- Spare zip ties
- Spare wing nuts
- A field book to record notes
- GPS
- Landauer detector and commission information form (or information from form transcribed into field notebook)
- Camera
- Transit control detectors (required at take down only)

Information on Current Set-Up:

Twenty (20) protective canisters were set-up in September 2016 at the monitoring stations shown in Figure 1 and described in Table 1. Photos 1-10 have a few images of the stations. There are ten (10) monitoring stations: Radon-1 to Radon-10. At each station, two canisters were deployed within 2m of one another; i.e., each station has an A and B canister, e.g. Radon-4A and Radon-4B. This set-up provides duplicate radon readings at the same station. We decided to use separate canisters (and deploy one detector per canister) since one of the risks with this equipment is that bears and other animals have been known to chew on and destroy the plastic canisters. It was strategic to have two canisters at each station, with one detector per canister to minimize potential detector loss if a canister at a station gets destroyed. Having duplicate readings at each station will help to ensure we are successful in collecting radon data at each station during each monitoring period.

Procedure for Initial Set-Up:

If any new stations are required, the following steps should be followed:

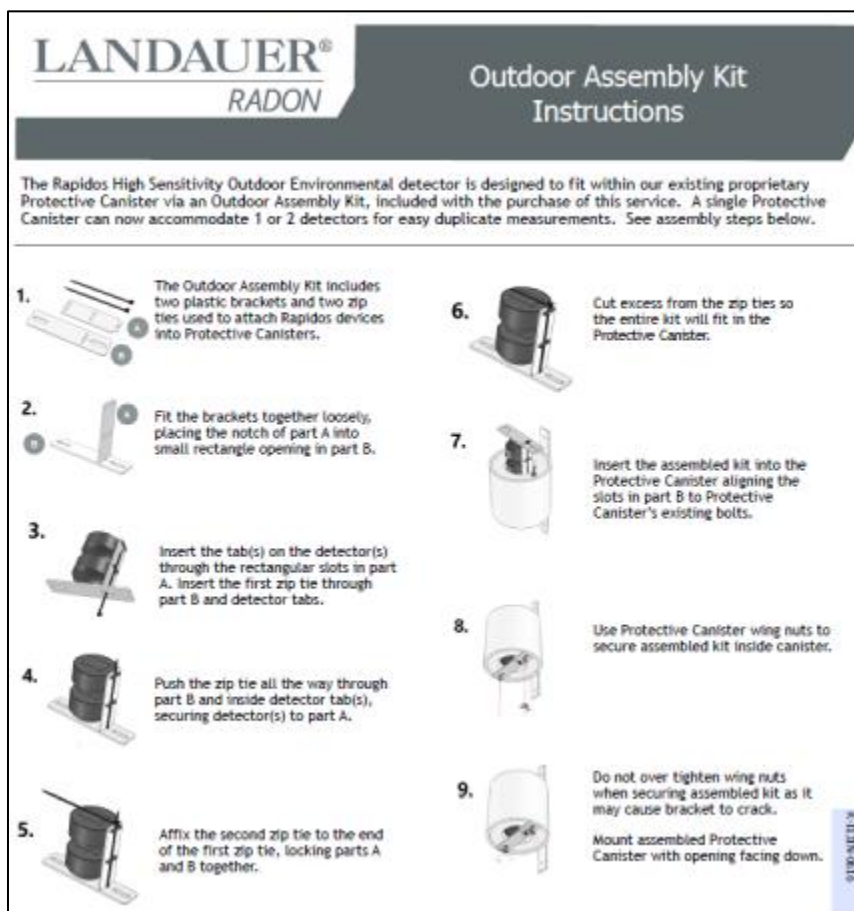
- 1) Attach the protective canister to a tree at eye-height using the equipment in the boxes. Important: the opening of the canister faces down.
- 2) Write the monitoring station number on the outside of the canister in large font in permanent marker so it is clearly visible, e.g. Radon-11A or Radon-11B.
- 3) Use a handheld GPS to get the UTM coordinates for each canister station. Record the UTM coordinates in a field notebook.

Procedure for passive radon monitoring

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- 4) Put **one detector inside each canister**
 - a) Take the detector out of the radon-resistant bag
 - b) Record the serial number and the corresponding monitoring station number in the field notebook
 - c) Record the start date and time - month, day, year, hour, minute
 - d) Use the outdoor assembly kit (two plastic brackets and two zip ties provided in the boxes) to attach a detector into the canister (note: we are only putting one detector in each canister, although the instructions show the option of having two detectors per canister):



- 5) Record any additional notes, for instance: description of location (side of hill, flat area, heavily forested area), any nearby activity (e.g. drilling), detector number, start date/time, any comments on the detector or canister. These notes will help us interpret any unusual results.
- 6) Take a photograph of the final set-up of each monitoring station. Record the photo number in the field book or make sure the monitoring station number on the outside of the canister is visible in the photo.
- 7) Plan to leave the detectors up for three (3) months.

Procedure for Take-Down:

The detectors can be taken down after approximately three (3) months of monitoring ambient radon concentrations.

- 1) The canister stays on the tree and can be reused. The detector is the only thing that needs to be removed.
- 2) Disassemble and separate detectors from the outdoor assembly kit by cutting the zip tie.
- 3) Return only the detectors, not the assembly kit or protective canister to Landauer. Like the canister, the plastic brackets from the outdoor assembly kit can also be reused.
- 4) Write the take-down date and time (month, day, year, hour, minute) in the field book. Double check the serial number on the detector removed with the serial number in the field book for the particular location. The numbers must match.
- 5) A number of transit control detectors are enclosed in the boxes. The transit control kit detectors should remain in their radon proof bags until the detectors are taken down (i.e., the end of the measurement period). Upon retrieving the detectors from the canisters, open the Transit Control Kit detector bags and keep them with the field detectors, returning them all to the laboratory.
 - a) Please record the numbers of the transit controls. The transit control numbers need to be entered online with the commission management information.
- 6) Transit control detectors allow us to accurately measure the radon level present at the monitoring station during the deployment period and not any radon exposure experienced during travel from site to the laboratory.
- 7) If deploying a new detector, record the replacement detector serial number in the field book for the appropriate location. Write the date of the replacement detector in the field book.
- 8) Shipping:
 - a) Make sure the transit control detectors are opened (i.e., no longer in their radon-proof bags) and included with the detectors retrieved from the field. Package all the detectors together in as small a box as possible to minimize detectors shifting during transit.
 - b) Use FedEx to ship the detectors with the transit controls to: Landauer Radon Inc., 900 Oakmont Lane, Suite 207, Westmont, IL USA 60559.
 - c) Note on the return duties form that the detectors are being returned to USA for analysis. This may help alleviate some of the duty/tax rate. Use the harmonization code: 903010.
- 9) The cost for analysis was paid when the detectors were purchased.
- 10) Prior to shipping, enter the detector and commission information, comments, start/end times, transit control numbers, etc. online at: www.radonline.com

Ordering New Detectors:

Denison's current account is set up to order new detectors 'on-demand.' Phone Landauer customer service (ph. 1-800-528-8327) and place an order for 20 high sensitivity RapiDOS detectors and 1 transit control kit. Denison's account number at Landauer is 18460.

Records:

- Electronic copy of all field notes – scanned and PDFd, saved on the G drive (G:\Project Development\Wheeler River\EH&S\Atmospheric Environment\Radon Monitoring)
- Copy of commission information

References:

- *Landauer RapiDOS information sheet (attached)*
- *Landauer Outdoor Assembly Kit Instructions (attached)*
- *Blank commission form (attached)*

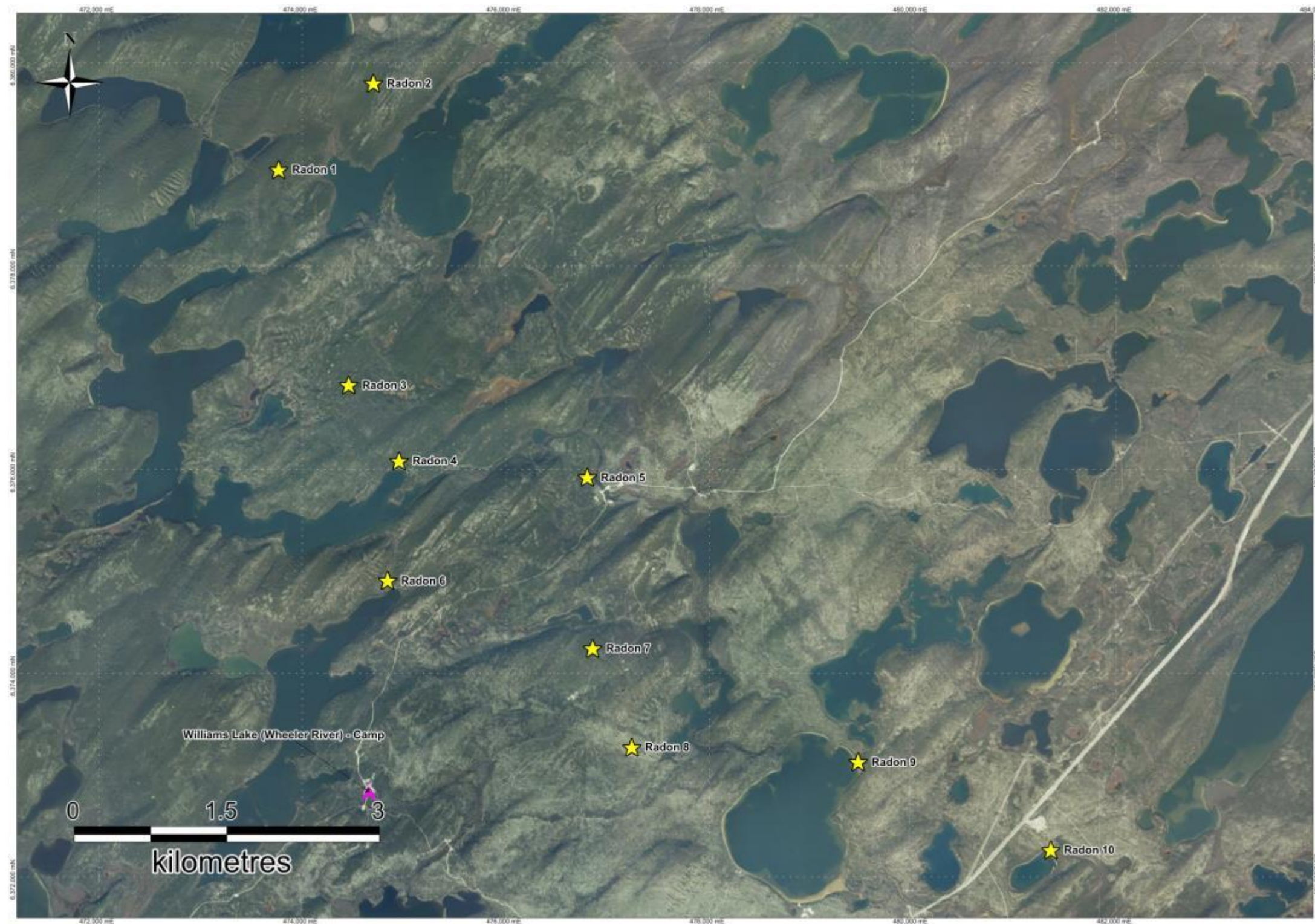


Figure 1: Location of Wheeler River Project radon monitoring stations, Radon 1 to Radon 10

Table 1: Description of radon monitoring stations established in September 2016.

Detector Station	GPS marked locations as installed September 2016. +/- 3m		Elevation from GPS +/- 6m	Location description	Access
	Easting	Northing	(m asl)		
Radon 1	473770	6378961	550	Forest on small hill. Middle of forest.	Old forest road. A truck might be able to drive here in the winter or any 4x4 small vehicle in summer. Good access but far from Gryphon.
Radon 2	474702	6379807	518	Thick forest along an old trail, on a small hill and some 1km or more from a lake.	The last 0.5km is overgrown and rough with tall shrubs, 4x4 quad only or walk.
Radon 3	474457	6376843	532	Thick forest of small trees. The tree cover is slightly more sparse at the site chosen. This is about 200m short of the planned coordinates because of difficult access.	Walking trail only for few 100's m from end of drill roads that end currently at WR-666 drill site. The trail is flagged with red tape.
Radon 4	474951	6376099	529	One of the roads at Gryphon deposit drilling sites. Nearest former drill site is about 50m away.	Follow road to Gryphon past the creek bridge, then up hill and to the left toward the drill supply area, but turn left and down toward the lake before that. There are many old drill pads in that area.
Radon 5	476804	6375936	513	In thick forest but near edge of open mossy meadow with small trees near a small lake (~100m away).	Main road from Wheeler Camp, until a small bridge on a creek. Before the bridge, on West side (left), a small rough path starts from the main road. After the trail ends, one needs to follow the lake shore. One can drive by truck and then walk 300m.
Radon 6	474841	6374922	534	The site is near a road to Gryphon deposit drill area, near a bend in road, below a small hill. The forest has larger trees at this spot and is more open.	This is along the main road to Gryphon drilling area. Easy truck access.
Radon 7	476857	6374255	546	This site is in the middle of forest, along an old seismic line. In September 2016 there was a drill rig set up about few 100's m away drilling one of the SRK holes. The drill pad is not heard or visible from this spot.	The best access is from the Phoenix drill sites, along one small road, and then along a seismic line. 4x4 quad only or walk. It is at least 100m from the road.
Radon 8	477240	6373284	518	Sparse forest below a hill W of Phoenix deposit.	From the main road to Phoenix deposit, there is a smaller road that leads to near this site. Part of the road is steep and eroded so a truck might not make it. After the road, there is no trail, only tracks of 4x4, but it is an easy walking distance and forest is very open.
Radon 9	479466	6373139	500	At end of trail on narrow peninsula between two lakes.	Access is from main road from Key Lake, then past a bridge on Icelander river and along road following the power line, and two more roads into the forest. The furthest trail ends at this spot.
Radon 10	481359	6372275	502	Sparse forest about 50m from small lake, between small road and lake shore.	E side of main road between McArthur and Key Lake, along a small trail, north of the Icelander River bridge. Access road is beside gravel pile, and the site is to the left between road and lake. Can drive a truck near to this site.

Note: UTM coordinates (meters), Zone 13, NAD 83

Photo 1: Station Radon 1 as set-up in September 2016



Photo 2: Station Radon 2 as set-up in September 2016



Photo 3: Station Radon 3 as set-up in September 2016



Photo 4: Station Radon 4 as set-up in September 2016



Photo 5: Station Radon 5 as set-up in September 2016



Photo 6: Station Radon 6 as set-up in September 2016



Photo 7: Station Radon 7 as set-up in September 2016



Photo 8: Station Radon 8 as set-up in September 2016



Photo 9: Station Radon 9 as set-up in September 2016



Photo 10: Station Radon 10 as set-up in September 2016



ATTACHMENTS

- Landauer RapiDOS information sheet

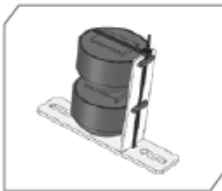
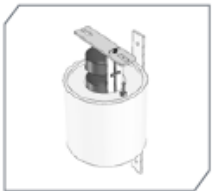
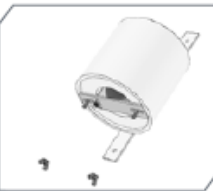
LANDAUER[®]

RADON

RapiDOS


A High-Sensitivity Detector

RapiDOS High Sensitivity Detectors offer the opportunity to measure very low concentrations of radon gas—for example in connection with environmental outdoor measurements, mining and prospecting for uranium. The detectors are also suitable for surveys of houses and buildings in areas where a very low radon concentration is indicated.

Alpha track detector for low concentrations

- Detector consists of a film element located within a pod made from a special antistatic plastic
- Radon enters into the detector by diffusion - non thoron sensitive
- Analysis is performed using a state-of-the-art image scanner
- Transit control detectors allow the accurate measurement of only the radon level present at the survey site
- Additional specially designed Protective Cannister is available for outdoor applications



Technical Specifications

Detector Application	High Sensitivity Detector
Lowest Detection Limit (Bq/m ³)	10 Bqm ³ at 1 month measurement 5 Bqm ³ at 2 month measurement 4 Bqm ³ at 3 month measurement or longer
Normal Exposure Duration	1 - 3 months
Uncertainty (%)	15% at 224 kBq/h/m ³ (3 month at 10 Bq/m ³)
Basis of Uncertainty	1 sd
Detector Sensitivity (tracks cm ⁻² kBq ⁻¹ h ⁻¹ m ⁻³)	4.4
Typical Background (kBq/h/m ³)	4
Standard Deviation on Background (kBq h m ⁻³)	1
Detector Diameter (mm)	58 (63.5 with hanger)
Detector Height (mm)	40 (43 with clip)
Detector Holder Type	Closed, with filter
Detector Holder Design	RapiDOS own, black
Detector Holder Antistatic Measures	Conducting holder
Detector Material	CR39/PADC

LANDAUER[®]
RADON
 The global leader in radon measurement

LANDAUER RADON is a pioneer in radon detection, having manufactured and analyzed alpha track detectors for more than 30 years. Our devices are used globally by a broad spectrum of users including scientifically astute, industry-leading practitioners. LANDAUER RADON'S measurement methods are accredited by SWEDAC (Swedish Board of Accreditation and Conformity Assessment) to the ISO 17025 standard using the measurement protocols of the EPA (Environmental Protection Agency), HPA (Health Protection Agency, UK) and SSM (Swedish Radiation Protection Institute). LANDAUER RADON'S laboratory is accredited by NRPP (National Radon Proficiency Program) and C-NRPP (Canadian National Radon Proficiency Program).

Corporate Office: 900 Oakmont Lane, Suite 207 Westmont, IL 60559 www.landauerradon.com T: 331 814 2200 F: 331 814 2214 help@landauerradon.com

Procedure for passive radon monitoring

Date: January 17, 2017


Procedure version: 2

- Landauer Outdoor Assembly Kit Instructions


Outdoor Assembly Kit Instructions

The RapiDOS High Sensitivity Outdoor Environmental detector is designed to fit within our existing proprietary Protective Canister via an Outdoor Assembly Kit, included with the purchase of this service. A single Protective Canister can now accommodate 1 or 2 detectors for easy duplicate measurements. See assembly steps below.


1.




The Outdoor Assembly Kit includes two plastic brackets and two zip ties used to attach RapiDOS devices into Protective Canisters.
2.




Fit the brackets together loosely, placing the notch of part A into small rectangle opening in part B.
3.



Insert the tab(s) on the detector(s) through the rectangular slots in part A. Insert the first zip tie through part B and detector tabs.
4.




Push the zip tie all the way through part B and inside detector tab(s), securing detector(s) to part A.
5.




Affix the second zip tie to the end of the first zip tie, locking parts A and B together.


6.




Cut excess from the zip ties so the entire kit will fit in the Protective Canister.
7.



Insert the assembled kit into the Protective Canister aligning the slots in part B to Protective Canister's existing bolts.
8.



Use Protective Canister wing nuts to secure assembled kit inside canister.
9.



Do not over tighten wing nuts when securing assembled kit as it may cause bracket to crack.
Mount assembled Protective Canister with opening facing down.

R-11EN-0616

When returning detectors for analysis, disassemble and separate detectors from kit by cutting the zip tie. Return only the detectors, not the Assembly Kit or Protective Canister. Like the canister, the plastic brackets can be reused.

Return Detectors To:
Landauer Radon, Inc.
900 Oakmont Lane Suite 207
Westmont, IL 60559

For more information contact our Customer Service department at 331.814.2200 or customerservice@landauerradon.com.

Procedure for passive radon monitoring

Date: January 17, 2017

Procedure version: 2

Blank commission form

FILL IN DETECTOR AND COMMISSION INFORMATION <small>Please note the time format used is International Standard.</small>										Rapidos [®] High-Sensitivity Test Data													
Fill in detector number	Start Date/Time				End Date/Time				+	Location	Detector comment	Location type											
(bottom of the detector)	M	M	D	D	Y	Y	H	H	M	M	M	M	D	D	Y	Y	H	H	M	M			
1																							
2																							
3																							
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5																							
6																							
7																							
8																							
9																							
10																							

<p>FILL IN THE COMMISSION ADDRESS</p> <p>Commission number: <input type="text" value="4645989"/></p> <p>Site:</p> <p>Address:</p> <p>.....</p> <p>City:</p> <p>State:</p> <p>Postal code:</p> <p>Building id:</p>	<p>FILL IN THE TRANSIT CONTROL DETECTORS</p> <p>1 <input type="text"/></p> <p>2 <input type="text"/></p> <p>3 <input type="text"/></p>	<p>Use this character</p> <p>0= Out-door</p> <p>1= In-door</p> <p>2= Under ground</p>
<p>If the measurement was performed by a certified measurement specialist, certification license no:</p> <p>Test data given by (signature):</p> <p>Printed name: <input type="text"/></p>		

Appendix B:

Detailed Result Summary Tables



Summary of Dustfall Results at All Locations

Sample ID	Lab ID	Lab Report	Start			End			Days	Particulates (mg/dm ² .day)								
			Date	Time	Timestamp	Date	Time	Timestamp		Total		Fixed		Volatile				
										Result	DL	Result	DL	Result	DL			
DF-01A	L2225060-1	L2225060	02-Oct-18	13:55	2018-10-02 13:55	22-Jan-19	12:20	2019-01-22 12:20	111.9	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-01B	L2225060-2		02-Oct-18	13:55	2018-10-02 13:55	22-Jan-19	12:15	2019-01-22 12:15	111.9	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-02A	L2225060-3		02-Oct-18	13:55	2018-10-02 13:55	22-Jan-19	15:55	2019-01-22 15:55	112.1	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-02B	L2225060-4		02-Oct-18	13:55	2018-10-02 13:55	22-Jan-19	15:50	2019-01-22 15:50	112.1	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-03A	L2225060-5		02-Oct-18	13:55	2018-10-02 13:55	22-Jan-19	13:30	2019-01-22 13:30	112.0	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-03B	L2225060-6		02-Oct-18	13:55	2018-10-02 13:55	22-Jan-19	13:25	2019-01-22 13:25	112.0	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-04A	L2225060-7		02-Oct-18	13:55	2018-10-02 13:55	23-Jan-19	12:30	2019-01-23 12:30	112.9	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-04B	L2225060-8		02-Oct-18	13:55	2018-10-02 13:55	23-Jan-19	12:35	2019-01-23 12:35	112.9	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-05A	L2225060-9		02-Oct-18	13:55	2018-10-02 13:55	24-Jan-19	11:15	2019-01-24 11:15	113.9	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-05B	L2225060-10		02-Oct-18	13:55	2018-10-02 13:55	24-Jan-19	11:20	2019-01-24 11:20	113.9	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-01A	L2274915-1	L2274915	22-Jan-19	12:20	2019-01-22 12:20	12-May-19	9:40	2019-05-12 9:40	109.9	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-01B	L2274915-2		22-Jan-19	12:15	2019-01-22 12:15	12-May-19	9:45	2019-05-12 9:45	109.9	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-02A	L2274915-3		22-Jan-19	15:55	2019-01-22 15:55	12-May-19	11:40	2019-05-12 11:40	109.8	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-02B	L2274915-4		22-Jan-19	15:50	2019-01-22 15:50	12-May-19	11:45	2019-05-12 11:45	109.8	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-03A	L2274915-5		22-Jan-19	13:30	2019-01-22 13:30	12-May-19	10:20	2019-05-12 10:20	109.9	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-03B	L2274915-6		22-Jan-19	13:25	2019-01-22 13:25	12-May-19	10:25	2019-05-12 10:25	109.9	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-04A	L2274915-7		23-Jan-19	12:30	2019-01-23 12:30	12-May-19	15:00	2019-05-12 15:00	109.1	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-04B	L2274915-8		23-Jan-19	12:35	2019-01-23 12:35	12-May-19	15:05	2019-05-12 15:05	109.1	<	0.14	0.1	<	0.1	0.1	<	0.12	0.1
DF-05A	L2274915-9		24-Jan-19	11:15	2019-01-24 11:15	13-May-19	9:30	2019-05-13 9:30	108.9	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-05B	L2274915-10		24-Jan-19	11:20	2019-01-24 11:20	13-May-19	9:35	2019-05-13 9:35	108.9	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-06A	L2274915-11		02-Oct-18	13:55	2018-10-02 13:55	12-May-19	14:00	2019-05-12 14:00	222.0	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-06B	L2274915-12		02-Oct-18	13:55	2018-10-02 13:55	12-May-19	14:05	2019-05-12 14:05	222.0	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-01A	L2496899-1	L2496899	25-Jul-20	16:20	2020-07-25 16:20	28-Aug-20	10:34	2020-08-28 10:34	33.8	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-01B	L2496899-2		25-Jul-20	16:20	2020-07-25 16:20	28-Aug-20	10:34	2020-08-28 10:34	33.8	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-02A	L2496899-3		24-Jul-20	12:10	2020-07-24 12:10	28-Aug-20	9:34	2020-08-28 9:34	34.9	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-02B	L2496899-4		24-Jul-20	12:10	2020-07-24 12:10	28-Aug-20	9:34	2020-08-28 9:34	34.9	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-03A	L2496899-5		24-Jul-20	12:30	2020-07-24 12:30	28-Aug-20	10:04	2020-08-28 10:04	34.9	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-03B	L2496899-6		24-Jul-20	12:30	2020-07-24 12:30	28-Aug-20	10:02	2020-08-28 10:02	34.9	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-04A	L2496899-7		23-Jul-20	17:30	2020-07-23 17:30	28-Aug-20	15:50	2020-08-28 15:50	35.9	<	0.15	0.1	<	0.1	0.1	<	0.11	0.1
DF-04B	L2496899-8		23-Jul-20	17:30	2020-07-23 17:30	28-Aug-20	15:50	2020-08-28 15:50	35.9	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-05A	L2496899-9		23-Jul-20	15:55	2020-07-23 15:55	28-Aug-20	15:09	2020-08-28 15:09	36.0	<	0.18	0.1	<	0.1	0.1	<	0.11	0.1
DF-05B	L2496899-10		23-Jul-20	16:15	2020-07-23 16:15	28-Aug-20	15:09	2020-08-28 15:09	36.0	<	0.3	0.1	<	0.11	0.1	<	0.2	0.1
DF-06A	L2496899-11		25-Jul-20	10:20	2020-07-25 10:20	28-Aug-20	13:57	2020-08-28 13:57	34.2	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-06B	L2496899-12		25-Jul-20	10:20	2020-07-25 10:20	28-Aug-20	13:57	2020-08-28 13:57	34.2	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-01A	L2514481-1	L2514481	28-Aug-20	10:34	2020-08-28 10:34	02-Oct-20	14:00	2020-10-02 14:00	35.1	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-01B	L2514481-2		28-Aug-20	10:34	2020-08-28 10:34	02-Oct-20	14:00	2020-10-02 14:00	35.1	<	0.1	0.1	<	0.1	0.1	<	0.1	0.1
DF-02A	L2514481-3		28-Aug-20	9:34	2020-08-28 9:34	02-Oct-20	15:15	2020-10-02 15:15	35.2	<	0.12	0.1	<	0.1	0.1	<	0.1	0.1



Summary of Dustfall Results at All Locations

Sample ID	Lab ID	Lab Report	Start			End			Days	Particulates (mg/dm ² .day)					
			Date	Time	Timestamp	Date	Time	Timestamp		Total		Fixed		Volatile	
										Result	DL	Result	DL	Result	DL
DF-02B	L2514481-4		28-Aug-20	9:34	2020-08-28 9:34	02-Oct-20	15:15	2020-10-02 15:15	35.2	0.12	0.1	< 0.1	0.1	< 0.1	0.1
DF-03A	L2514481-5		28-Aug-20	10:04	2020-08-28 10:04	02-Oct-20	14:40	2020-10-02 14:40	35.2	< 0.1	0.1	< 0.1	0.1	< 0.1	0.1
DF-03B	L2514481-6		28-Aug-20	10:02	2020-08-28 10:02	02-Oct-20	14:40	2020-10-02 14:40	35.2	< 0.1	0.1	< 0.1	0.1	< 0.1	0.1
DF-04A	L2514481-7		28-Aug-20	15:50	2020-08-28 15:50	30-Sep-20	15:30	2020-09-30 15:30	33.0	0.12	0.1	< 0.1	0.1	< 0.1	0.1
DF-04B	L2514481-8		28-Aug-20	15:50	2020-08-28 15:50	30-Sep-20	15:30	2020-09-30 15:30	33.0	0.25	0.1	< 0.1	0.1	0.19	0.1
DF-05A	L2514481-9		28-Aug-20	15:09	2020-08-28 15:09	30-Sep-20	15:08	2020-09-30 15:08	33.0	0.14	0.1	< 0.1	0.1	< 0.1	0.1
DF-05B	L2514481-10		28-Aug-20	15:09	2020-08-28 15:09	30-Sep-20	15:08	2020-09-30 15:08	33.0	0.2	0.1	< 0.1	0.1	0.13	0.1
DF-06A	L2514481-11		28-Aug-20	13:57	2020-08-28 13:57	30-Sep-20	14:15	2020-09-30 14:15	33.0	0.12	0.1	< 0.1	0.1	< 0.1	0.1
DF-06B	L2514481-12		28-Aug-20	13:57	2020-08-28 13:57	30-Sep-20	14:15	2020-09-30 14:15	33.0	0.15	0.1	< 0.1	0.1	0.1	0.1
DF-01A	L2527762-1	L2527762	02-Oct-20	14:00	2020-10-02 14:00	03-Nov-20	11:30	2020-11-03 11:30	31.9	0.47	0.1	< 0.1	0.1	0.41	0.1
DF-01B	L2527762-2		02-Oct-20	14:00	2020-10-02 14:00	03-Nov-20	11:30	2020-11-03 11:30	31.9	0.66	0.1	< 0.1	0.1	0.6	0.1
DF-02A	L2527762-3		02-Oct-20	15:15	2020-10-02 15:15	03-Nov-20	13:40	2020-11-03 13:40	31.9	0.28	0.1	< 0.1	0.1	0.26	0.1
DF-02B	L2527762-4		02-Oct-20	15:15	2020-10-02 15:15	03-Nov-20	13:40	2020-11-03 13:40	31.9	0.18	0.1	< 0.1	0.1	0.16	0.1
DF-03A	L2527762-5		02-Oct-20	14:40	2020-10-02 14:40	03-Nov-20	12:30	2020-11-03 12:30	31.9	0.18	0.1	< 0.1	0.1	0.16	0.1
DF-03B	L2527762-6		02-Oct-20	14:40	2020-10-02 14:40	03-Nov-20	12:30	2020-11-03 12:30	31.9	0.17	0.1	< 0.1	0.1	0.14	0.1
DF-04A	L2527762-7		30-Sep-20	15:30	2020-09-30 15:30	04-Nov-20	13:00	2020-11-04 13:00	34.9	0.17	0.1	< 0.1	0.1	0.12	0.1
DF-04B	L2527762-8		30-Sep-20	15:30	2020-09-30 15:30	04-Nov-20	13:00	2020-11-04 13:00	34.9	0.15	0.1	< 0.1	0.1	0.1	0.1
DF-05A	L2527762-9		30-Sep-20	15:08	2020-09-30 15:08	04-Nov-20	14:00	2020-11-04 14:00	35.0	0.12	0.1	< 0.1	0.1	< 0.1	0.1
DF-05B	L2527762-10		30-Sep-20	15:08	2020-09-30 15:08	04-Nov-20	14:00	2020-11-04 14:00	35.0	0.28	0.1	< 0.1	0.1	0.22	0.1
DF-06A	L2527762-11		30-Sep-20	14:15	2020-09-30 14:15	05-Nov-20	9:30	2020-11-05 9:30	35.8	0.12	0.1	< 0.1	0.1	0.1	0.1
DF-06B	L2527762-12		30-Sep-20	14:15	2020-09-30 14:15	05-Nov-20	9:30	2020-11-05 9:30	35.8	0.1	0.1	< 0.1	0.1	< 0.1	0.1
DF-01A	L2613303-1	L2613303	08-Jun-21	10:15	2021-06-08 10:15	10-Jul-21	13:50	2021-07-10 13:50	32.1	0.63	0.1	< 0.1	0.1	0.54	0.1
DF-01B	L2613303-2		08-Jun-21	10:15	2021-06-08 10:15	10-Jul-21	13:50	2021-07-10 13:50	32.1	0.56	0.1	< 0.1	0.1	0.48	0.1
DF-02A	L2613303-3		08-Jun-21	12:00	2021-06-08 12:00	10-Jul-21	13:05	2021-07-10 13:05	32.0	0.77	0.1	0.14	0.1	0.63	0.1
DF-02B	L2613303-4		08-Jun-21	12:00	2021-06-08 12:00	10-Jul-21	13:05	2021-07-10 13:05	32.0	0.42	0.1	< 0.1	0.1	0.33	0.1
DF-03A	L2613303-5		08-Jun-21	10:55	2021-06-08 10:55	10-Jul-21	13:20	2021-07-10 13:20	32.1	0.42	0.1	< 0.1	0.1	0.32	0.1
DF-03B	L2613303-6		08-Jun-21	10:55	2021-06-08 10:55	10-Jul-21	13:20	2021-07-10 13:20	32.1	0.46	0.1	< 0.1	0.1	0.39	0.1
DF-04A	L2613303-7		08-Jun-21	9:10	2021-06-08 9:10	10-Jul-21	9:55	2021-07-10 9:55	32.0	0.82	0.1	0.14	0.1	0.69	0.1
DF-04B	L2613303-8		08-Jun-21	9:10	2021-06-08 9:10	10-Jul-21	9:55	2021-07-10 9:55	32.0	0.86	0.1	0.11	0.1	0.75	0.1
DF-05A	L2613303-9		08-Jun-21	9:35	2021-06-08 9:35	10-Jul-21	9:20	2021-07-10 9:20	32.0	0.49	0.1	< 0.1	0.1	0.40	0.1
DF-05B	L2613303-10		08-Jun-21	9:35	2021-06-08 9:35	10-Jul-21	9:20	2021-07-10 9:20	32.0	0.44	0.1	< 0.1	0.1	0.36	0.1
DF-06A	L2613303-11		08-Jun-21	14:30	2021-06-08 14:30	10-Jul-21	8:15	2021-07-10 8:15	31.7	0.51	0.1	< 0.1	0.1	0.42	0.1
DF-06B	L2613303-12		08-Jun-21	14:30	2021-06-08 14:30	10-Jul-21	8:15	2021-07-10 8:15	31.7	0.4	0.1	< 0.1	0.1	0.32	0.1
DF-01A	L2629159-1	L2629159	10-Jul-21	13:50	2021-07-10 13:50	17-Aug-21	14:50	2021-08-17 14:50	38.0	0.21	0.1	< 0.1	0.1	0.15	0.1
DF-01B	L2629159-2		10-Jul-21	13:50	2021-07-10 13:50	17-Aug-21	14:50	2021-08-17 14:50	38.0	0.17	0.1	< 0.1	0.1	0.12	0.1
DF-02A	L2629159-3		10-Jul-21	13:05	2021-07-10 13:05	17-Aug-21	13:20	2021-08-17 13:20	38.0	3.03	0.1	0.42	0.1	2.61	0.1
DF-02B	L2629159-4		10-Jul-21	13:05	2021-07-10 13:05	17-Aug-21	13:20	2021-08-17 13:20	38.0	0.39	0.1	0.12	0.1	0.27	0.1



Summary of Dustfall Results at All Locations

Sample ID	Lab ID	Lab Report	Start			End			Days	Particulates (mg/dm ² .day)					
			Date	Time	Timestamp	Date	Time	Timestamp		Total		Fixed		Volatile	
										Result	DL	Result	DL	Result	DL
DF-03A	L2629159-5		10-Jul-21	13:20	2021-07-10 13:20	17-Aug-21	14:20	2021-08-17 14:20	38.0	0.29	0.1	0.11	0.1	0.19	0.1
DF-03B	L2629159-6		10-Jul-21	13:20	2021-07-10 13:20	17-Aug-21	14:20	2021-08-17 14:20	38.0	0.2	0.1	0.1	0.1	< 0.1	0.1
DF-04A	L2629159-7		10-Jul-21	9:55	2021-07-10 9:55	17-Aug-21	10:30	2021-08-17 10:30	38.0	0.38	0.1	0.17	0.1	0.22	0.1
DF-04B	L2629159-8		10-Jul-21	9:55	2021-07-10 9:55	17-Aug-21	10:30	2021-08-17 10:30	38.0	0.59	0.1	0.23	0.1	0.36	0.1
DF-05A	L2629159-9		10-Jul-21	9:20	2021-07-10 9:20	17-Aug-21	10:00	2021-08-17 10:00	38.0	2.58	0.1	0.52	0.1	2.06	0.1
DF-05B	L2629159-10		10-Jul-21	9:20	2021-07-10 9:20	17-Aug-21	10:00	2021-08-17 10:00	38.0	1.61	0.1	0.42	0.1	1.19	0.1
DF-06A	L2629159-11		10-Jul-21	8:15	2021-07-10 8:15	17-Aug-21	9:00	2021-08-17 9:00	38.0	0.58	0.1	0.2	0.1	0.38	0.1
DF-06B	L2629159-12		10-Jul-21	8:15	2021-07-10 8:15	17-Aug-21	9:00	2021-08-17 9:00	38.0	0.46	0.1	0.16	0.1	0.3	0.1
DF-01A	L2643294-1	L2643294	17-Aug-21	14:50	2021-08-17 14:50	21-Sep-21	10:45	2021-09-21 10:45	34.8	0.11	0.1	< 0.1	0.1	< 0.1	0.1
DF-01B	L2643294-2		17-Aug-21	14:50	2021-08-17 14:50	21-Sep-21	10:45	2021-09-21 10:45	34.8	< 0.1	0.1	< 0.1	0.1	< 0.1	0.1
DF-02A	L2643294-3		17-Aug-21	13:20	2021-08-17 13:20	21-Sep-21	11:55	2021-09-21 11:55	34.9	0.14	0.1	< 0.1	0.1	0.14	0.1
DF-02B	L2643294-4		17-Aug-21	13:20	2021-08-17 13:20	21-Sep-21	11:55	2021-09-21 11:55	34.9	< 0.1	0.1	< 0.1	0.1	< 0.1	0.1
DF-03A	L2643294-5		17-Aug-21	14:20	2021-08-17 14:20	21-Sep-21	9:30	2021-09-21 9:30	34.8	< 0.1	0.1	< 0.1	0.1	< 0.1	0.1
DF-03B	L2643294-6		17-Aug-21	14:20	2021-08-17 14:20	21-Sep-21	9:30	2021-09-21 9:30	34.8	< 0.1	0.1	< 0.1	0.1	< 0.1	0.1
DF-04A	L2643294-7		17-Aug-21	10:30	2021-08-17 10:30	22-Sep-21	11:25	2021-09-22 11:25	36.0	< 0.1	0.1	< 0.1	0.1	< 0.1	0.1
DF-04B	L2643294-8		17-Aug-21	10:30	2021-08-17 10:30	22-Sep-21	11:25	2021-09-22 11:25	36.0	0.1	0.1	< 0.1	0.1	< 0.1	0.1
DF-05A	L2643294-9		17-Aug-21	10:00	2021-08-17 10:00	22-Sep-21	10:55	2021-09-22 10:55	36.0	< 0.1	0.1	< 0.1	0.1	< 0.1	0.1
DF-05B	L2643294-10		17-Aug-21	10:00	2021-08-17 10:00	22-Sep-21	10:55	2021-09-22 10:55	36.0	< 0.1	0.1	< 0.1	0.1	< 0.1	0.1
DF-06A	L2643294-11		17-Aug-21	9:00	2021-08-17 9:00	22-Sep-21	8:25	2021-09-22 8:25	36.0	< 0.1	0.1	< 0.1	0.1	< 0.1	0.1
DF-06B	L2643294-12		17-Aug-21	9:00	2021-08-17 9:00	22-Sep-21	8:25	2021-09-22 8:25	36.0	0.12	0.1	< 0.1	0.1	< 0.1	0.1
DF-01A	L2655042-1		L2655042	21-Sep-21	10:45	2021-09-21 10:45	22-Oct-21	8:35	2021-10-22 8:35	30.9	1.88	0.1	0.22	0.1	1.66
DF-01B	L2655042-2	21-Sep-21		10:45	2021-09-21 10:45	22-Oct-21	8:35	2021-10-22 8:35	30.9	0.18	0.1	0.11	0.1	< 0.1	0.1
DF-02A	L2655042-3	21-Sep-21		11:55	2021-09-21 11:55	22-Oct-21	8:00	2021-10-22 8:00	30.8	0.45	0.1	0.12	0.1	0.32	0.1
DF-02B	L2655042-4	21-Sep-21		11:55	2021-09-21 11:55	22-Oct-21	8:00	2021-10-22 8:00	30.8	0.3	0.1	0.15	0.1	0.16	0.1
DF-03A	L2655042-5	21-Sep-21		9:30	2021-09-21 9:30	22-Oct-21	8:15	2021-10-22 8:15	30.9	0.34	0.1	0.13	0.1	0.21	0.1
DF-03B	L2655042-6	21-Sep-21		9:30	2021-09-21 9:30	22-Oct-21	8:15	2021-10-22 8:15	30.9	0.46	0.1	0.13	0.1	0.33	0.1
DF-04A	L2655042-7	22-Sep-21		11:25	2021-09-22 11:25	22-Oct-21	13:35	2021-10-22 13:35	30.1	0.25	0.1	0.12	0.1	0.13	0.1
DF-04B	L2655042-8	22-Sep-21		11:25	2021-09-22 11:25	22-Oct-21	13:35	2021-10-22 13:35	30.1	0.23	0.1	< 0.1	0.1	0.16	0.1
DF-05A	L2655042-9	22-Sep-21		10:55	2021-09-22 10:55	22-Oct-21	13:15	2021-10-22 13:15	30.1	0.5	0.1	0.11	0.1	0.39	0.1
DF-05B	L2655042-10	22-Sep-21		10:55	2021-09-22 10:55	22-Oct-21	13:15	2021-10-22 13:15	30.1	0.31	0.1	0.11	0.1	0.2	0.1
DF-06A	L2655042-11	22-Sep-21		8:25	2021-09-22 8:25	22-Oct-21	10:05	2021-10-22 10:05	30.1	0.21	0.1	< 0.1	0.1	0.12	0.1
DF-06B	L2655042-12	22-Sep-21		8:25	2021-09-22 8:25	22-Oct-21	10:05	2021-10-22 10:05	30.1	0.16	0.1	< 0.1	0.1	0.12	0.1

Summary of Dustfall Metals Results

Sample ID	Start			End			Days	Metals (mg/dm2.day)															
	Date	Time	Timestamp	Date	Time	Timestamp		Aluminum (Al)	Antimony (Sb)	Arsenic (As)	Barium (Ba)	Beryllium (Be)	Bismuth (Bi)	Boron (B)	Cadmium (Cd)	Calcium (Ca)	Chromium (Cr)	Cobalt (Co)	Copper (Cu)	Iron (Fe)	Lead (Pb)	Lithium (Li)	Magnesium (Mg)
DF-01A	17-Aug-21	14:50	2021-08-17 14:50	21-Sep-21	10:45	2021-09-21 10:45	34.8	2.99E-04	< 2.80E-06	< 2.80E-06	1.20E-05	< 1.40E-05	< 1.40E-05	< 2.80E-04	< 1.40E-06	2.51E-03	< 1.40E-05	< 2.80E-06	< 1.40E-05	< 8.40E-04	< 1.40E-06	< 1.40E-04	6.30E-04
DF-01B	17-Aug-21	14:50	2021-08-17 14:50	21-Sep-21	10:45	2021-09-21 10:45	34.8	2.08E-04	< 2.90E-06	< 2.90E-06	1.15E-05	< 1.50E-05	< 1.50E-05	< 2.90E-04	< 1.50E-06	2.34E-03	< 1.50E-05	< 2.90E-06	< 2.90E-05	1.14E-03	< 1.50E-06	< 1.50E-04	6.90E-04
DF-02A	17-Aug-21	13:20	2021-08-17 13:20	21-Sep-21	11:55	2021-09-21 11:55	34.9	2.49E-04	< 2.70E-06	< 2.70E-06	1.44E-05	< 1.40E-05	< 1.40E-05	< 2.70E-04	< 1.40E-06	2.48E-03	< 1.40E-05	< 2.70E-06	< 1.40E-05	< 8.20E-04	< 1.40E-06	< 1.40E-04	6.70E-04
DF-02B	17-Aug-21	13:20	2021-08-17 13:20	21-Sep-21	11:55	2021-09-21 11:55	34.9	1.68E-04	< 2.90E-06	< 2.90E-06	9.00E-06	< 1.40E-05	< 1.40E-05	< 2.90E-04	< 1.40E-06	2.20E-03	< 1.40E-05	< 2.90E-06	< 1.40E-05	< 8.70E-04	< 1.40E-06	< 1.40E-04	5.00E-04
DF-03A	17-Aug-21	14:20	2021-08-17 14:20	21-Sep-21	9:30	2021-09-21 9:30	34.8	2.25E-04	< 2.40E-06	< 2.40E-06	1.08E-05	< 1.20E-05	< 1.20E-05	< 2.40E-04	< 1.20E-06	2.37E-03	< 1.20E-05	< 2.40E-06	< 2.40E-05	< 7.10E-04	< 1.20E-06	< 1.20E-04	5.20E-04
DF-03B	17-Aug-21	14:20	2021-08-17 14:20	21-Sep-21	9:30	2021-09-21 9:30	34.8	2.14E-04	< 2.50E-06	< 2.50E-06	1.09E-05	< 1.30E-05	< 1.30E-05	< 2.50E-04	< 1.30E-06	2.30E-03	< 1.30E-05	< 2.50E-06	< 1.30E-05	< 7.60E-04	< 1.30E-06	< 1.30E-04	6.20E-04
DF-04A	17-Aug-21	10:30	2021-08-17 10:30	22-Sep-21	11:25	2021-09-22 11:25	36.0	2.85E-04	< 3.00E-06	< 3.00E-06	1.10E-05	< 1.50E-05	< 1.50E-05	< 3.00E-04	< 1.50E-06	2.73E-03	< 1.50E-05	< 3.00E-06	< 1.50E-05	< 8.90E-04	< 1.50E-06	< 1.50E-04	7.70E-04
DF-04B	17-Aug-21	10:30	2021-08-17 10:30	22-Sep-21	11:25	2021-09-22 11:25	36.0	3.50E-04	< 2.90E-06	< 2.90E-06	1.08E-05	< 1.40E-05	< 1.40E-05	< 2.90E-04	< 1.40E-06	2.32E-03	< 1.40E-05	< 2.90E-06	< 1.40E-05	< 8.60E-04	< 1.40E-06	< 1.40E-04	6.80E-04
DF-05A	17-Aug-21	10:00	2021-08-17 10:00	22-Sep-21	10:55	2021-09-22 10:55	36.0	2.54E-04	< 2.30E-06	< 2.30E-06	9.40E-06	< 1.20E-05	< 1.20E-05	< 2.30E-04	< 1.20E-06	2.41E-03	< 1.20E-05	< 2.30E-06	< 2.30E-05	< 6.90E-04	< 1.20E-06	< 1.20E-04	5.60E-04
DF-05B	17-Aug-21	10:00	2021-08-17 10:00	22-Sep-21	10:55	2021-09-22 10:55	36.0	2.40E-04	< 2.50E-06	< 2.50E-06	1.07E-05	< 1.30E-05	< 1.30E-05	< 2.50E-04	< 1.30E-06	2.24E-03	< 1.30E-05	< 2.50E-06	< 2.50E-05	< 7.50E-04	< 1.30E-06	< 1.30E-04	4.70E-04
DF-06A	17-Aug-21	9:00	2021-08-17 9:00	22-Sep-21	8:25	2021-09-22 8:25	36.0	2.65E-04	< 2.30E-06	< 2.30E-06	1.13E-05	< 1.10E-05	< 1.10E-05	< 2.30E-04	< 1.10E-06	2.50E-03	< 1.10E-05	< 2.30E-06	< 1.10E-05	< 6.80E-04	< 1.10E-06	< 1.10E-04	6.00E-04
DF-06B	17-Aug-21	9:00	2021-08-17 9:00	22-Sep-21	8:25	2021-09-22 8:25	36.0	2.22E-04	< 2.30E-06	< 2.30E-06	9.30E-06	< 1.20E-05	< 1.20E-05	< 2.30E-04	< 1.20E-06	2.30E-03	< 1.20E-05	< 2.30E-06	< 1.20E-05	< 6.90E-04	< 1.20E-06	< 1.20E-04	6.70E-04
DF-01A	21-Sep-21	10:45	2021-09-21 10:45	22-Oct-21	8:35	2021-10-22 8:35	30.9	2.09E-03	< 1.70E-06	< 1.70E-06	4.96E-05	< 8.40E-06	< 8.40E-06	< 1.70E-04	< 8.40E-07	1.07E-02	< 8.40E-06	< 1.70E-06	7.90E-05	2.55E-03	2.86E-06	< 8.40E-05	3.33E-03
DF-01B	21-Sep-21	10:45	2021-09-21 10:45	22-Oct-21	8:35	2021-10-22 8:35	30.9	1.64E-03	< 1.40E-06	1.60E-06	4.20E-05	< 7.00E-06	< 7.00E-06	< 1.40E-04	< 7.00E-07	1.03E-02	< 7.00E-06	< 1.40E-06	7.00E-06	1.96E-03	1.82E-06	< 7.00E-05	3.25E-03
DF-02A	21-Sep-21	11:55	2021-09-21 11:55	22-Oct-21	8:00	2021-10-22 8:00	30.8	1.24E-03	< 1.40E-06	< 1.40E-06	4.97E-05	< 7.00E-06	< 7.00E-06	< 1.40E-04	< 7.00E-07	1.57E-02	< 7.00E-06	< 1.40E-06	1.32E-05	1.50E-03	1.49E-06	< 7.00E-05	4.21E-03
DF-02B	21-Sep-21	11:55	2021-09-21 11:55	22-Oct-21	8:00	2021-10-22 8:00	30.8	1.16E-03	< 1.30E-06	< 1.30E-06	3.80E-05	< 6.40E-06	< 6.40E-06	< 1.30E-04	< 6.40E-07	1.40E-02	< 6.40E-06	< 1.30E-06	2.67E-05	1.44E-03	2.72E-06	< 6.40E-05	3.89E-03
DF-03A	21-Sep-21	9:30	2021-09-21 9:30	22-Oct-21	8:15	2021-10-22 8:15	30.9	8.40E-04	< 1.60E-06	< 1.60E-06	3.86E-05	< 7.90E-06	< 7.90E-06	< 1.60E-04	< 7.90E-07	1.66E-02	< 7.90E-06	< 1.60E-06	9.80E-06	1.13E-03	1.46E-06	< 7.90E-05	4.53E-03
DF-03B	21-Sep-21	9:30	2021-09-21 9:30	22-Oct-21	8:15	2021-10-22 8:15	30.9	8.02E-04	< 1.50E-06	< 1.50E-06	4.28E-05	< 7.30E-06	< 7.30E-06	< 1.50E-04	< 7.30E-07	1.88E-02	< 7.30E-06	< 1.50E-06	1.01E-05	1.01E-03	1.12E-06	< 7.30E-05	5.21E-03
DF-04A	22-Sep-21	11:25	2021-09-22 11:25	22-Oct-21	13:35	2021-10-22 13:35	30.1	1.40E-03	< 1.40E-06	< 1.40E-06	3.35E-05	< 7.00E-06	< 7.00E-06	< 1.40E-04	< 7.00E-07	9.92E-03	< 7.00E-06	< 1.40E-06	7.30E-06	1.63E-03	1.64E-06	< 7.00E-05	3.04E-03
DF-04B	22-Sep-21	11:25	2021-09-22 11:25	22-Oct-21	13:35	2021-10-22 13:35	30.1	8.55E-04	< 1.50E-06	< 1.50E-06	3.57E-05	< 7.60E-06	< 7.60E-06	< 1.50E-04	< 7.60E-07	9.72E-03	< 7.60E-06	< 1.50E-06	< 7.60E-06	9.50E-04	1.15E-06	< 7.60E-05	2.84E-03
DF-05A	22-Sep-21	10:55	2021-09-22 10:55	22-Oct-21	13:15	2021-10-22 13:15	30.1	1.14E-03	< 1.60E-06	< 1.60E-06	3.50E-05	< 7.90E-06	< 7.90E-06	< 1.60E-04	< 7.90E-07	1.46E-02	< 7.90E-06	< 1.60E-06	1.85E-05	1.27E-03	1.37E-06	< 7.90E-05	4.68E-03
DF-05B	22-Sep-21	10:55	2021-09-22 10:55	22-Oct-21	13:15	2021-10-22 13:15	30.1	8.42E-04	< 1.40E-06	< 1.40E-06	3.86E-05	< 7.00E-06	< 7.00E-06	< 1.40E-04	< 7.00E-07	1.16E-02	< 7.00E-06	< 1.40E-06	2.24E-05	9.80E-04	1.59E-06	< 7.00E-05	3.74E-03
DF-06A	22-Sep-21	8:25	2021-09-22 8:25	22-Oct-21	10:05	2021-10-22 10:05	30.1	9.04E-04	< 1.30E-06	< 1.30E-06	4.78E-05	< 6.70E-06	< 6.70E-06	< 1.30E-04	< 6.70E-07	8.98E-03	< 6.70E-06	< 1.30E-06	6.70E-06	1.26E-03	1.30E-06	< 6.70E-05	2.74E-03
DF-06B	22-Sep-21	8:25	2021-09-22 8:25	22-Oct-21	10:05	2021-10-22 10:05	30.1	6.91E-04	2.10E-06	< 1.40E-06	2.86E-05	< 7.00E-06	< 7.00E-06	< 1.40E-04	< 7.00E-07	8.68E-03	< 7.00E-06	< 1.40E-06	< 7.00E-06	9.00E-04	1.08E-06	< 7.00E-05	2.68E-03

Summary of Dustfall Metals Results

Sample ID	Start			End			Days	Metals (mg/dm2.day)															
	Date	Time	Timestamp	Date	Time	Timestamp		Manganese (Mn)	Molybdenum (Mo)	Nickel (Ni)	Phosphorus (P)	Potassium (K)	Selenium (Se)	Silicon (Si)	Silver (Ag)	Sodium (Na)	Strontium (Sr)	Thallium (Tl)	Tin (Sn)	Titanium (Ti)	Uranium (U)	Vanadium (V)	Zinc (Zn)
DF-01A	17-Aug-21	14:50	2021-08-17 14:50	21-Sep-21	10:45	2021-09-21 10:45	34.8	5.12E-05	< 1.40E-06	< 1.40E-05	< 1.40E-03	1.70E-03	< 2.80E-05	< 1.40E-03	< 2.80E-07	< 1.40E-03	5.80E-06	< 2.80E-06	< 2.80E-06	< 2.80E-04	< 2.80E-07	< 2.80E-05	< 8.40E-05
DF-01B	17-Aug-21	14:50	2021-08-17 14:50	21-Sep-21	10:45	2021-09-21 10:45	34.8	6.13E-05	1.50E-06	< 1.50E-05	< 1.50E-03	2.10E-03	< 2.90E-05	< 1.50E-03	< 2.90E-07	< 1.50E-03	6.10E-06	< 2.90E-06	< 2.90E-06	< 2.90E-04	< 2.90E-07	< 2.90E-05	< 8.80E-05
DF-02A	17-Aug-21	13:20	2021-08-17 13:20	21-Sep-21	11:55	2021-09-21 11:55	34.9	1.09E-04	< 1.40E-06	< 1.40E-05	< 1.40E-03	2.40E-03	< 2.70E-05	< 1.40E-03	< 2.70E-07	< 1.40E-03	7.90E-06	< 2.70E-06	< 2.70E-06	< 2.70E-04	< 2.70E-07	< 2.70E-05	< 8.20E-05
DF-02B	17-Aug-21	13:20	2021-08-17 13:20	21-Sep-21	11:55	2021-09-21 11:55	34.9	4.89E-05	< 1.40E-06	< 1.40E-05	< 1.40E-03	2.60E-03	< 2.90E-05	< 1.40E-03	< 2.90E-07	< 1.40E-03	4.90E-06	< 2.90E-06	< 2.90E-06	< 2.90E-04	< 2.90E-07	< 2.90E-05	< 8.70E-05
DF-03A	17-Aug-21	14:20	2021-08-17 14:20	21-Sep-21	9:30	2021-09-21 9:30	34.8	4.58E-05	< 1.20E-06	< 1.20E-05	< 1.20E-03	< 1.20E-03	< 2.40E-05	< 1.20E-03	< 2.40E-07	< 1.20E-03	5.20E-06	< 2.40E-06	< 2.40E-06	< 2.40E-04	< 2.40E-07	< 2.40E-05	< 7.10E-05
DF-03B	17-Aug-21	14:20	2021-08-17 14:20	21-Sep-21	9:30	2021-09-21 9:30	34.8	4.95E-05	< 1.30E-06	< 1.30E-05	1.50E-03	1.30E-03	< 2.50E-05	< 1.30E-03	< 2.50E-07	< 1.30E-03	6.30E-06	< 2.50E-06	< 2.50E-06	< 2.50E-04	< 2.50E-07	< 2.50E-05	< 7.60E-05
DF-04A	17-Aug-21	10:30	2021-08-17 10:30	22-Sep-21	11:25	2021-09-22 11:25	36.0	6.26E-05	< 1.50E-06	< 1.50E-05	< 1.50E-03	1.90E-03	< 3.00E-05	< 1.50E-03	< 3.00E-07	< 1.50E-03	6.30E-06	< 3.00E-06	< 3.00E-06	< 3.00E-04	< 3.00E-07	< 3.00E-05	< 8.90E-05
DF-04B	17-Aug-21	10:30	2021-08-17 10:30	22-Sep-21	11:25	2021-09-22 11:25	36.0	6.96E-05	< 1.40E-06	< 1.40E-05	2.10E-03	3.90E-03	< 2.90E-05	< 1.40E-03	< 2.90E-07	< 1.40E-03	6.40E-06	< 2.90E-06	< 2.90E-06	< 2.90E-04	5.40E-07	< 2.90E-05	< 8.60E-05
DF-05A	17-Aug-21	10:00	2021-08-17 10:00	22-Sep-21	10:55	2021-09-22 10:55	36.0	4.33E-05	< 1.20E-06	< 1.20E-05	< 1.20E-03	1.40E-03	< 2.30E-05	< 1.20E-03	< 2.30E-07	< 1.20E-03	6.90E-06	< 2.30E-06	< 2.30E-06	< 2.30E-04	< 2.30E-07	< 2.30E-05	< 6.90E-05
DF-05B	17-Aug-21	10:00	2021-08-17 10:00	22-Sep-21	10:55	2021-09-22 10:55	36.0	4.72E-05	< 1.30E-06	< 1.30E-05	< 1.30E-03	< 1.30E-03	< 2.50E-05	< 1.30E-03	< 2.50E-07	< 1.30E-03	5.00E-06	< 2.50E-06	< 2.50E-06	< 2.50E-04	< 2.50E-07	< 2.50E-05	< 7.50E-05
DF-06A	17-Aug-21	9:00	2021-08-17 9:00	22-Sep-21	8:25	2021-09-22 8:25	36.0	5.01E-05	< 1.10E-06	< 1.10E-05	1.30E-03	2.10E-03	< 2.30E-05	< 1.10E-03	< 2.30E-07	< 1.10E-03	5.50E-06	< 2.30E-06	< 2.30E-06	< 2.30E-04	< 2.30E-07	< 2.30E-05	< 6.80E-05
DF-06B	17-Aug-21	9:00	2021-08-17 9:00	22-Sep-21	8:25	2021-09-22 8:25	36.0	8.83E-05	< 1.20E-06	< 1.20E-05	2.60E-03	3.90E-03	< 2.30E-05	< 1.20E-03	< 2.30E-07	< 1.20E-03	5.20E-06	< 2.30E-06	< 2.30E-06	< 2.30E-04	< 2.30E-07	< 2.30E-05	< 6.90E-05
DF-01A	21-Sep-21	10:45	2021-09-21 10:45	22-Oct-21	8:35	2021-10-22 8:35	30.9	1.61E-04	< 8.40E-07	< 8.40E-06	1.65E-03	2.62E-03	< 1.70E-05	4.73E-03	< 5.10E-07	2.79E-03	2.77E-05	< 1.70E-06	< 1.70E-06	< 1.70E-04	2.20E-07	< 1.70E-05	< 5.10E-05
DF-01B	21-Sep-21	10:45	2021-09-21 10:45	22-Oct-21	8:35	2021-10-22 8:35	30.9	1.47E-04	< 7.00E-07	< 7.00E-06	1.33E-03	2.59E-03	< 1.40E-05	3.43E-03	< 2.80E-07	2.47E-03	2.82E-05	< 1.40E-06	< 1.40E-06	< 1.40E-04	1.40E-07	< 1.40E-05	< 4.20E-05
DF-02A	21-Sep-21	11:55	2021-09-21 11:55	22-Oct-21	8:00	2021-10-22 8:00	30.8	2.49E-04	< 7.00E-07	< 7.00E-06	7.72E-03	6.29E-03	< 1.40E-05	2.77E-03	< 2.80E-07	2.95E-03	1.11E-04	< 1.40E-06	< 1.40E-06	< 1.40E-04	< 1.40E-07	< 1.40E-05	6.70E-05
DF-02B	21-Sep-21	11:55	2021-09-21 11:55	22-Oct-21	8:00	2021-10-22 8:00	30.8	1.11E-04	< 6.40E-07	< 6.40E-06	6.04E-03	4.91E-03	< 1.30E-05	3.08E-03	< 2.60E-07	2.67E-03	7.28E-05	< 1.30E-06	< 1.30E-06	< 1.30E-04	< 1.30E-07	< 1.30E-05	4.10E-05
DF-03A	21-Sep-21	9:30	2021-09-21 9:30	22-Oct-21	8:15	2021-10-22 8:15	30.9	1.07E-04	< 7.90E-07	< 7.90E-06	1.07E-02	7.56E-03	< 1.60E-05	1.65E-03	< 3.10E-07	3.83E-03	1.27E-04	< 1.60E-06	< 1.60E-06	< 1.60E-04	< 1.60E-07	< 1.60E-05	< 4.70E-05
DF-03B	21-Sep-21	9:30	2021-09-21 9:30	22-Oct-21	8:15	2021-10-22 8:15	30.9	9.26E-05	< 7.30E-07	< 7.30E-06	1.59E-02	1.07E-02	< 1.50E-05	1.94E-03	< 1.50E-07	4.87E-03	1.99E-04	< 1.50E-06	< 1.50E-06	< 1.50E-04	< 1.50E-07	< 1.50E-05	< 4.40E-05
DF-04A	22-Sep-21	11:25	2021-09-22 11:25	22-Oct-21	13:35	2021-10-22 13:35	30.1	9.99E-05	< 7.00E-07	< 7.00E-06	3.83E-03	4.31E-03	< 1.40E-05	3.90E-03	< 1.40E-07	2.25E-03	3.76E-05	< 1.40E-06	< 1.40E-06	< 1.40E-04	1.45E-06	< 1.40E-05	< 4.20E-05
DF-04B	22-Sep-21	11:25	2021-09-22 11:25	22-Oct-21	13:35	2021-10-22 13:35	30.1	7.66E-05	< 7.60E-07	< 7.60E-06	3.67E-03	3.37E-03	< 1.50E-05	1.91E-03	< 1.50E-07	2.12E-03	3.07E-05	< 1.50E-06	< 1.50E-06	< 1.50E-04	3.00E-07	< 1.50E-05	< 4.50E-05
DF-05A	22-Sep-21	10:55	2021-09-22 10:55	22-Oct-21	13:15	2021-10-22 13:15	30.1	1.06E-04	1.10E-05	< 7.90E-06	1.29E-02	1.17E-02	< 1.60E-05	2.53E-03	< 1.60E-07	4.52E-03	1.04E-04	< 1.60E-06	< 1.60E-06	< 1.60E-04	< 1.60E-07	< 1.60E-05	< 4.70E-05
DF-05B	22-Sep-21	10:55	2021-09-22 10:55	22-Oct-21	13:15	2021-10-22 13:15	30.1	1.34E-04	< 7.00E-07	< 7.00E-06	7.27E-03	7.92E-03	< 1.40E-05	1.88E-03	< 1.40E-07	4.09E-03	4.94E-05	< 1.40E-06	< 1.40E-06	< 1.40E-04	< 1.40E-07	< 1.40E-05	4.60E-05
DF-06A	22-Sep-21	8:25	2021-09-22 8:25	22-Oct-21	10:05	2021-10-22 10:05	30.1	8.86E-05	< 6.70E-07	< 6.70E-06	3.14E-03	3.59E-03	< 1.30E-05	2.13E-03	< 1.30E-07	2.43E-03	2.19E-05	< 1.30E-06	< 1.30E-06	< 1.30E-04	1.50E-07	< 1.30E-05	< 4.00E-05
DF-06B	22-Sep-21	8:25	2021-09-22 8:25	22-Oct-21	10:05	2021-10-22 10:05	30.1	7.47E-05	< 7.00E-07	< 7.00E-06	2.97E-03	3.72E-03	< 1.40E-05	1.59E-03	< 1.40E-07	2.28E-03	2.12E-05	< 1.40E-06	< 1.40E-06	< 1.40E-04	< 1.40E-07	< 1.40E-05	< 4.20E-05



Summary of Dustfall Results at All Locations

Sample ID	BV Labs ID	Start			End			Days	NO ₂ (ppb)		SO ₂ (ppb)		NO ₂ (µg/m3)		SO ₂ (µg/m3)	
		Date	Time	Timestamp	Date	Time	Timestamp		Results	RDL	Results	RDL	Results	RDL	Results	RDL
PC-01A	WQ7292	22-Aug-19	15:30	2019-08-22 15:30	26-Sep-19	12:10	2019-09-26 12:10	34.9	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-01B	WQ7293	22-Aug-19	15:30	2019-08-22 15:30	26-Sep-19	12:10	2019-09-26 12:10	34.9	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-02A	WQ7294	22-Aug-19	14:00	2019-08-22 14:00	26-Sep-19	8:30	2019-09-26 8:30	34.8	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-02B	WQ7295	22-Aug-19	14:00	2019-08-22 14:00	26-Sep-19	8:30	2019-09-26 8:30	34.8	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-01A	WU5855	26-Sep-19	12:10	2019-09-26 12:10	22-Oct-19	11:25	2019-10-22 11:25	26.0	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-01B	WU5856	26-Sep-19	12:15	2019-09-26 12:15	22-Oct-19	11:25	2019-10-22 11:25	26.0	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-02A	WU5857	26-Sep-19	8:45	2019-09-26 8:45	23-Oct-19	8:30	2019-10-23 8:30	27.0	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-02B	WU5858	26-Sep-19	8:42	2019-09-26 8:42	23-Oct-19	8:30	2019-10-23 8:30	27.0	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-01A	WY7556	22-Oct-19	11:25	2019-10-22 11:25	14-Nov-19	11:00	2019-11-14 11:00	23.0	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-01B	WY7557	22-Oct-19	11:25	2019-10-22 11:25	14-Nov-19	11:00	2019-11-14 11:00	23.0	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-02A	WY7558	23-Oct-19	8:30	2019-10-23 8:30	14-Nov-19	15:35	2019-11-14 15:35	22.3	0.2	0.1	< 0.1	0.1	0.38	0.19	< 0.26	0.26
PC-02B	WY7559	23-Oct-19	8:30	2019-10-23 8:30	14-Nov-19	15:35	2019-11-14 15:35	22.3	0.1	0.1	< 0.1	0.1	0.19	0.19	< 0.26	0.26
PC-01A	YJ4049	25-Jul-20	20:10	2020-07-25 20:10	28-Aug-20	10:45	2020-08-28 10:45	33.6	< 0.1	0.1	0.1	0.1	< 0.19	0.19	0.26	0.26
PC-01B	YJ4050	25-Jul-20	20:10	2020-07-25 20:10	28-Aug-20	10:45	2020-08-28 10:45	33.6	< 0.1	0.1	0.1	0.1	< 0.19	0.19	0.26	0.26
PC-02A	YJ4051	03-Aug-20	16:15	2020-08-03 16:15	28-Aug-20	15:15	2020-08-28 15:15	25.0	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-02B	YJ4052	03-Aug-20	16:15	2020-08-03 16:15	28-Aug-20	15:15	2020-08-28 15:15	25.0	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-01A	YP8078	28-Aug-20	10:45	2020-08-28 10:45	02-Oct-20	14:00	2020-10-02 14:00	35.1	< 0.1	0.1	DAMAGED	0.1	< 0.19	0.19	DAMAGED	0.26
PC-01B	YP8079	28-Aug-20	10:45	2020-08-28 10:45	02-Oct-20	14:00	2020-10-02 14:00	35.1	< 0.1	0.1	DAMAGED	0.1	< 0.19	0.19	DAMAGED	0.26
PC-02A	YP8080	28-Aug-20	15:15	2020-08-28 15:15	30-Sep-20	15:08	2020-09-30 15:08	33.0	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-02B	YP8081	28-Aug-20	15:15	2020-08-28 15:15	30-Sep-20	15:08	2020-09-30 15:08	33.0	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-01A	YV7760	02-Oct-20	14:00	2020-10-02 14:00	03-Nov-20	11:30	2020-11-03 11:30	31.9	< 0.1	0.1	0.1	0.1	< 0.19	0.19	0.26	0.26
PC-01B	YV7761	02-Oct-20	14:00	2020-10-02 14:00	03-Nov-20	11:30	2020-11-03 11:30	31.9	0.2	0.1	0.2	0.1	0.38	0.19	0.52	0.26
PC-02A	YV7762	30-Sep-20	15:08	2020-09-30 15:08	04-Nov-20	14:00	2020-11-04 14:00	35.0	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-02B	YV7763	30-Sep-20	15:08	2020-09-30 15:08	04-Nov-20	14:00	2020-11-04 14:00	35.0	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-01A	ABP974	08-Jun-21	10:15	2021-06-08 10:15	10-Jul-21	13:50	2021-07-10 13:50	32.1	< 0.1	0.1	0.2	0.1	< 0.19	0.19	0.52	0.26
PC-01B	ABP975	08-Jun-21	10:15	2021-06-08 10:15	10-Jul-21	13:50	2021-07-10 13:50	32.1	< 0.1	0.1	0.1	0.1	< 0.19	0.19	0.26	0.26
PC-02A	ABP976	09-Jun-21	9:35	2021-06-09 9:35	10-Jul-21	9:20	2021-07-10 9:20	31.0	< 0.1	0.1	0.3	0.1	< 0.19	0.19	0.79	0.26
PC-02B	ABP977	09-Jun-21	9:35	2021-06-09 9:35	10-Jul-21	9:20	2021-07-10 9:20	31.0	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-01A	AEK149	10-Jul-21	13:50	2021-07-10 13:50	17-Aug-21	14:50	2021-08-17 14:50	38.0	0.1	0.1	0.1	0.1	0.19	0.19	0.26	0.26
PC-01B	AEK150	10-Jul-21	13:50	2021-07-10 13:50	17-Aug-21	14:50	2021-08-17 14:50	38.0	< 0.1	0.1	0.1	0.1	< 0.19	0.19	0.26	0.26
PC-02A	AEK151	10-Jul-21	9:20	2021-07-10 9:20	17-Aug-21	10:00	2021-08-17 10:00	38.0	< 0.1	0.1	0.1	0.1	< 0.19	0.19	0.26	0.26
PC-02B	AEK152	10-Jul-21	9:20	2021-07-10 9:20	17-Aug-21	10:00	2021-08-17 10:00	38.0	< 0.1	0.1	0.2	0.1	< 0.19	0.19	0.52	0.26
PC-01A	AGX507	17-Aug-21	14:50	2021-08-17 14:50	21-Sep-21	10:50	2021-09-21 10:50	34.8	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-01B	AGX508	17-Aug-21	14:50	2021-08-17 14:50	21-Sep-21	10:50	2021-09-21 10:50	34.8	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-02A	AGX509	17-Aug-21	10:00	2021-08-17 10:00	22-Sep-21	11:00	2021-09-22 11:00	36.0	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-02B	AGX510	17-Aug-21	10:00	2021-08-17 10:00	22-Sep-21	11:00	2021-09-22 11:00	36.0	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-01A	AJP416	21-Sep-21	10:50	2021-09-21 10:50	22-Oct-21	8:35	2021-10-22 8:35	30.9	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26



Summary of Dustfall Results at All Locations

Sample ID	BV Labs ID	Start			End			Days	NO ₂ (ppb)		SO ₂ (ppb)		NO ₂ (µg/m ³)		SO ₂ (µg/m ³)	
		Date	Time	Timestamp	Date	Time	Timestamp		Results	RDL	Results	RDL	Results	RDL	Results	RDL
PC-01B	AJP417	21-Sep-21	10:50	2021-09-21 10:50	22-Oct-21	8:35	2021-10-22 8:35	30.9	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-02A	AJP418	22-Sep-21	11:00	2021-09-22 11:00	22-Oct-21	13:15	2021-10-22 13:15	30.1	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26
PC-02B	AJP419	22-Sep-21	11:00	2021-09-22 11:00	22-Oct-21	13:15	2021-10-22 13:15	30.1	< 0.1	0.1	< 0.1	0.1	< 0.19	0.19	< 0.26	0.26



Summary of Gamma Reports (Landauer)

Report Date	Dosimeter Receipt	Monitoring Period		Location ID	Client ID	Dosimeter S/N	Exposure (Dose mSv)		Inception Date	Field Sheets					
		From	To				Gross	Net		Sample ID	Start Date	Start Time	End Date	End Time	
2019-12-04	2019-11-21	2019-08-25	2020-08-24	-	Transit control	EX00054148R	-	-	Jul-18		Shipped with below dosimeters				
				00003	Area Monitor 3	EX00061653R	0.252	0.008	Oct-18	G-01	2019-09-25	12:10	2019-11-14	11:10	
		00004	Area Monitor 4	EX00051359N	0.22	-0.024	Oct-18	G-02	2019-09-26	10:04	2019-11-14	14:50			
		2019-06-01	2020-05-31	-	Deploy control	EX000248102	-	-	Jul-18		Shipped with above dosimeters				
2020-10-23	2020-10-21	2020-10-05	2021-10-04	-	Transit control	EX00086459A	-	-	Jul-18						
2020-12-01	2020-11-21	2020-07-20	2021-07-19	-	Deploy control dose	EX00061362Y	0.316	-	Jul-18						
				00008	Area Monitor 8	EX00064099K				G-01	2020-07-25	15:10	Destroyed in field		
				00007	Area Monitor 7	EX00071155V	0.218	-0.098	Jul-20	G-02	2020-07-24	16:10	03-Nov-20	16:10	
					Deploy control dose	EX00080477I	0.349	-							
					Area Monitor 1	EX000205524	0.469	-0.139		G-01	2021-03-11	10:00	2021-06-08	9:50	
					Area Monitor 2	EX00051638L	0.289	-0.06		G-02	2021-02-17	13:00	2021-06-08	15:50	
2021-10-18	2021-10-13	2021-05-01	2022-04-30	-	Deploy control dose	EX00023020I	0.439	-	Oct-20						
				00021	Area Monitor 1	EX000026508	0.31	-0.129	May-21	G-01	2021-06-08	9:50	2021-09-21	9:55	
				00022	Area Monitor 2	EX00086517G	0.242	-0.197	May-21	G-02	2021-06-08	15:50	2021-09-22	10:00	



Summary of Radon Sampling (2016-2021)

Detector	Detector Check No.	Detector/ Check ID	Location	Location ID	Start Date	Stop Date	Days Sampled	Radon conc. Rounded (Bq/m3)
314919	314919-2	3149192	Radon 1A	Radon1A	2016-09-24	2017-01-27	125	< 3
970682	970682-1	9706821	Radon 1B	Radon1B	2016-09-24	2017-01-27	125	6 ± 2
575188	575188-8	5751888	Radon 2A	Radon2A	2016-09-24	2017-01-27	125	< 3
582429	582429-7	5824297	Radon 3A	Radon3A	2016-09-24	2017-01-25	123	4 ± 2
769560	769560-4	7695604	Radon 3B	Radon3B	2016-09-24	2017-01-25	123	3 ± 3
548755	548755-8	5487558	Radon 4A	Radon4A	2016-09-25	2017-01-25	122	3 ± 3
346551	346551-5	3465515	Radon 4B	Radon4B	2016-09-25	2017-01-25	122	3 ± 3
975561	975561-2	9755612	Radon 5A	Radon5A	2016-09-26	2017-01-28	124	< 3
748416	748416-5	7484165	Radon 5B	Radon5B	2016-09-26	2017-01-28	124	< 3
441650	441650-9	4416509	Radon 6A	Radon6A	2016-09-25	2017-01-25	122	6 ± 3
996809	996809-0	9968090	Radon 6B	Radon6B	2016-09-25	2017-01-25	122	< 3
969893	969893-7	9698937	Radon 7A	Radon7A	2016-09-26	2017-01-25	121	4 ± 3
975850	975850-9	9758509	Radon 7B	Radon7B	2016-09-26	2017-01-25	121	< 3
642724	642724-9	6427249	Radon 8A	Radon8A	2016-09-26	2017-01-25	121	3 ± 3
383553	383553-5	3835535	Radon 8B	Radon8B	2016-09-26	2017-01-25	121	3 ± 2
334012	334012-2	3340122	Radon 9A	Radon9A	2016-09-26	2017-01-28	124	3 ± 2
536455	536455-9	5364559	Radon 9B	Radon9B	2016-09-26	2017-01-28	124	< 3
159276	159276-5	1592765	Radon 10A	Radon10A	2016-09-27	2017-01-25	120	5 ± 3
373050	373050-4	3730504	Radon 10B	Radon10B	2016-09-27	2017-01-25	120	3 ± 3
328723	328723-2	3287232	Radon 1	Radon1A	27-01-2017	12-06-2017	136	5 ± 2
327210	327210-1	3272101	Radon 1	Radon1B	27-01-2017	12-06-2017	136	< 3
326445	326445-4	3264454	Radon 2	Radon2A	27-01-2017	12-06-2017	136	< 3
327356	327356-2	3273562	Radon 2	Radon2B	27-01-2017	12-06-2017	136	< 3
327338	327338-0	3273380	Radon 3	Radon3A	25-01-2017	06-06-2017	132	4 ± 2
328610	328610-1	3286101	Radon 3	Radon3B	25-01-2017	06-06-2017	132	3 ± 2
327658	327658-1	3276581	Radon 4	Radon4A	25-01-2017	06-06-2017	132	3 ± 2
328231	328231-6	3282316	Radon 4	Radon4B	25-01-2017	06-06-2017	132	< 3
328355	328355-3	3283553	Radon 5	Radon5A	28-01-2017	06-06-2017	129	3 ± 2
327382	327382-8	3273828	Radon 5	Radon5B	28-01-2017	06-06-2017	129	3 ± 2
326438	326438-9	3264389	Radon 6	Radon6A	25-01-2017	06-06-2017	132	3 ± 2
327076	327076-6	3270766	Radon 6	Radon6B	25-01-2017	06-06-2017	132	4 ± 2
328533	328533-5	3285335	Radon 7	Radon7A	25-01-2017	06-06-2017	132	< 3
327721	327721-7	3277217	Radon 7	Radon7B	25-01-2017	06-06-2017	132	3 ± 2
327519	327519-5	3275195	Radon 8	Radon8A	25-01-2017	06-06-2017	132	< 3
327374	327374-5	3273745	Radon 8	Radon8B	25-01-2017	06-06-2017	132	< 3
326718	326718-4	3267184	Radon 9	Radon9A	25-01-2017	06-06-2017	132	< 3
327167	327167-3	3271673	Radon 9	Radon9B	25-01-2017	06-06-2017	132	< 3
326734	326734-1	3267341	Radon 10	Radon10A	25-01-2017	06-06-2017	132	3 ± 2
326676	326676-4	3266764	Radon 10	Radon10B	25-01-2017	06-06-2017	132	3 ± 2
631010	631010-6	6310106	Radon 1	Radon1A	2017-06-12	2017-08-26	75	7 ± 6
656823	656823-2	6568232	Radon 1	Radon1B	2017-06-12	2017-08-26	75	< 7



Summary of Radon Sampling (2016-2021)

Detector	Detector Check No.	Detector/ Check ID	Location	Location ID	Start Date	Stop Date	Days Sampled	Radon conc. Rounded (Bq/m3)
523339	523339-0	5233390	Radon 2	Radon2A	2017-06-12	2017-08-26	75	< 7
746692	746692-3	7466923	Radon 2	Radon2B	2017-06-12	2017-08-26	75	< 7
519145	519145-7	5191457	Radon 3	Radon3A	2017-06-06	2017-08-26	81	< 6
610676	610676-9	6106769	Radon 3	Radon3B	2017-06-06	2017-08-26	81	< 6
768462	768462-4	7684624	Radon 4	Radon4A	2017-06-06	2017-08-26	81	< 4
206806	206806-2	2068062	Radon 4	Radon4B	2017-06-06	2017-08-26	81	< 7
671098	671098-2	6710982	Radon 5	Radon5A	2017-06-06	2017-08-26	81	< 7
178627	178627-6	1786276	Radon 5	Radon5B	2017-06-06	2017-08-26	81	< 7
318816	318816-6	3188166	Radon 6	Radon6A	2017-06-06	2017-08-26	81	< 7
713115	713115-4	7131154	Radon 6	Radon6B	2017-06-06	2017-08-26	81	< 7
206854	206854-2	2068542	Radon 7	Radon7A	2017-06-06	2017-08-26	81	< 7
415406	415406-8	4154068	Radon 7	Radon7B	2017-06-06	2017-08-26	81	< 7
184216	184216-0	1842160	Radon 8	Radon8A	2017-06-06	2017-08-26	81	< 6
388350	388350-1	3883501	Radon 8	Radon8B	2017-06-06	2017-08-26	81	< 3
211128	211128-4	2111284	Radon 9	Radon9A	2017-06-06	2017-08-26	81	< 7
792116	792116-6	7921166	Radon 10	Radon10A	2017-06-06	2017-08-26	81	< 6
228364	228364-6	2283646	Radon 10	Radon10B	2017-06-06	2017-08-26	81	< 6
597946	597946-3	5979463	Radon 1	Radon1A	2017-08-26	2018-01-17	144	3 ± 3
630266	630266-5	6302665	Radon 1	Radon1B	2017-08-26	2018-01-17	144	9 ± 3
219889	219889-3	2198893	Radon 2	Radon2A	2017-08-26	2018-01-17	144	5 ± 3
251164	251164-0	2511640	Radon 2	Radon2B	2017-08-26	2018-01-17	144	5 ± 3
251160	251160-8	2511608	Radon 3	Radon3A	2017-08-26	2018-01-17	144	5 ± 3
173571	173571-1	1735711	Radon 3	Radon3B	2017-08-26	2018-01-17	144	3 ± 3
771018	771018-9	7710189	Radon 4	Radon4A	2017-08-26	2018-01-17	144	4 ± 3
148017	148017-7	1480177	Radon 4	Radon4B	2017-08-26	2018-01-17	144	3 ± 3
168902	168902-5	1689025	Radon 5	Radon5A	2017-08-26	2018-01-17	144	5 ± 3
233073	233073-6	2330736	Radon 5	Radon5B	2017-08-26	2018-01-17	144	10 ± 3
219678	219678-0	2196780	Radon 6	Radon6A	2017-08-26	2018-01-17	144	3 ± 3
219768	219768-9	2197689	Radon 6	Radon6B	2017-08-26	2018-01-17	144	3 ± 3
330747	330747-7	3307477	Radon 7	Radon7A	2017-08-26	2018-01-17	144	4 ± 3
372417	372417-6	3724176	Radon 7	Radon7B	2017-08-26	2018-01-17	144	4 ± 3
174702	174702-1	1747021	Radon 8	Radon8A	2017-08-26	2018-01-17	144	4 ± 3
564339	564339-0	5643390	Radon 8	Radon8B	2017-08-26	2018-01-17	144	5 ± 3
728740	728740-2	7287402	Radon 9	Radon9A	2017-08-26	2018-01-17	144	3 ± 3
627381	627381-7	6273817	Radon 9	Radon9B	2017-08-26	2018-01-17	144	4 ± 3
227202	227202-9	2272029	Radon 10	Radon10A	2017-08-26	2018-01-17	144	5 ± 3
592211	592211-7	5922117	RADON 1	Radon1A	2018-01-17	2018-03-23	65	< 11
738373	738373-0	7383730	RADON 1	Radon1B	2018-01-17	2018-03-23	65	< 11
570451	570451-5	5704515	RADON 2	Radon2A	2018-01-17	2018-03-23	65	< 11
631448	631448-8	6314488	RADON 2	Radon2B	2018-01-17	2018-03-23	65	< 11
546632	546632-1	5466321	RADON 3	Radon3A	2018-01-19	2018-03-23	63	< 11



Summary of Radon Sampling (2016-2021)

Detector	Detector Check No.	Detector/ Check ID	Location	Location ID	Start Date	Stop Date	Days Sampled	Radon conc. Rounded (Bq/m3)
628209	628209-9	6282099	RADON 3	Radon3B	2018-01-19	2018-03-23	63	< 11
931236	931236-4	9312364	RADON 4	Radon4A	2018-01-17	2018-03-23	65	< 11
965810	965810-5	9658105	RADON 4	Radon4B	2018-01-19	2018-03-23	63	< 11
965335	965335-3	9653353	RADON 5	Radon5A	2018-01-17	2018-03-23	65	< 11
931302	931302-4	9313024	RADON 5	Radon5B	2018-01-17	2018-03-23	65	< 11
632099	632099-8	6320998	RADON 6	Radon6A	2018-01-17	2018-03-23	65	< 6
965480	965480-7	9654807	RADON 6	Radon6B	2018-01-17	2018-03-23	65	< 11
628669	628669-4	6286694	RADON 7	Radon7A	2018-01-17	2018-03-23	65	< 11
628783	628783-3	6287833	RADON 7	Radon7B	2018-01-17	2018-03-23	65	< 11
594425	594425-1	5944251	RADON 8	Radon8A	2018-01-19	2018-03-23	63	< 6
594915	594915-1	5949151	RADON 8	Radon8B	2018-01-19	2018-03-23	63	< 11
546617	546617-2	5466172	RADON 9	Radon9A	2018-01-19	2018-03-23	63	< 11
576162	576162-2	5761622	RADON 9	Radon9B	2018-01-19	2018-03-23	63	9 ± 4
594930	594930-0	5949300	RADON 10	Radon10A	2018-01-19	2018-03-23	63	< 6
615494	615494-2	6154942	RADON 1	Radon1A	2018-03-23	2018-07-13	112	< 3
614573	614573-4	6145734	RADON 1	Radon1B	2018-03-23	2018-07-13	112	3 ± 3
615514	615514-7	6155147	RADON 2	Radon2A	2018-03-23	2018-07-13	112	< 3
277949	277949-4	2779494	RADON 2	Radon2B	2018-03-23	2018-07-13	112	< 3
615266	615266-4	6152664	RADON 3	Radon3A	2018-03-23	2018-07-13	112	< 3
277887	277887-6	2778876	RADON 3	Radon3B	2018-03-23	2018-07-13	112	< 3
604811	604811-0	6048110	RADON 4	Radon4A	2018-03-23	2018-07-13	112	< 3
615565	615565-9	6155659	RADON 4	Radon4B	2018-03-23	2018-07-13	112	< 3
604370	604370-7	6043707	RADON 5	Radon5A	2018-03-23	2018-07-13	112	4 ± 3
606121	606121-2	6061212	RADON 6	Radon6A	2018-03-23	2018-07-13	112	3 ± 3
607838	607838-0	6078380	RADON 6	Radon6B	2018-03-23	2018-07-13	112	< 3
606135	606135-2	6061352	RADON 7	Radon7A	2018-03-23	2018-07-13	112	< 3
615439	615439-7	6154397	RADON 7	Radon7B	2018-03-23	2018-07-13	112	< 3
278256	278256-3	2782563	RADON 8	Radon8A	2018-03-23	2018-07-13	112	< 3
612673	612673-4	6126734	RADON 8	Radon8B	2018-03-23	2018-07-13	112	< 3
615438	615438-9	6154389	RADON 9	Radon9A	2018-03-23	2018-07-13	112	< 3
606176	606176-6	6061766	RADON 9	Radon9B	2018-03-23	2018-07-13	112	< 3
608479	608479-2	6084792	RADON 10	Radon10A	2018-03-23	2018-07-13	112	< 3
606156	606156-8	6061568	RADON 10	Radon10B	2018-03-23	2018-07-13	112	< 3
534464	534464-3	5344643	RADON 1	Radon1A	2018-07-13	2018-09-03	52	< 6
532939	532939-6	5329396	RADON 1	Radon1B	2018-07-13	2018-09-03	52	< 5
534764	534764-6	5347646	RADON 2	Radon2A	2018-07-13	2018-09-03	52	< 5
534656	534656-4	5346564	RADON 2	Radon2B	2018-07-13	2018-09-03	52	< 4
534792	534792-7	5347927	RADON 3	Radon3A	2018-07-13	2018-09-03	52	< 4
532576	532576-6	5325766	RADON 3	Radon3B	2018-07-13	2018-09-03	52	< 4
534109	534109-4	5341094	RADON 4	Radon4A	2018-07-13	2018-09-03	52	< 5
535204	535204-2	5352042	RADON 5	Radon5A	2018-07-13	2018-09-03	52	< 5



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534580	534580-6	5345806	RADON 5	Radon5B	2018-07-13	2018-09-03	52	4 ± 3
535516	535516-9	5355169	RADON 6	Radon6A	2018-07-13	2018-09-03	52	< 4
559313	559313-2	5593132	RADON 6	Radon6B	2018-07-13	2018-09-03	52	< 4
535576	535576-3	5355763	RADON 7	Radon7A	2018-07-13	2018-09-03	52	< 6
534289	534289-4	5342894	RADON 7	Radon7B	2018-07-13	2018-09-03	52	< 6
532567	532567-5	5325675	RADON 8	Radon8A	2018-07-13	2018-09-03	52	< 4
533950	533950-2	5339502	RADON 8	Radon8B	2018-07-13	2018-09-03	52	< 6
534044	534044-3	5340443	RADON 9	Radon9A	2018-07-13	2018-09-03	52	< 4
534501	534501-2	5345012	RADON 9	Radon9B	2018-07-13	2018-09-07	56	< 4
534995	534995-6	5349956	RADON 10	Radon10A	2018-07-13	2018-09-03	52	< 5
534955	534955-0	5349550	RADON 10	Radon10B	2018-07-13	2018-09-03	52	4 ± 3
724910	724910-5	7249105	Radon 1-A	Radon1A	2018-10-03	2019-01-22	111	< 3
751311	751311-2	7513112	Radon 1-B	Radon1B	2018-10-03	2019-01-22	111	3 ± 3
563363	563363-1	5633631	Radon 2-A	Radon2A	2018-10-03	2019-01-22	111	< 3
985167	985167-6	9851676	Radon 2-B	Radon2B	2018-10-03	2019-01-22	111	4 ± 3
794085	794085-1	7940851	Radon 3-A	Radon3A	2018-10-03	2019-01-22	111	< 3
233893	233893-7	2338937	Radon 3-B	Radon3B	2018-10-03	2019-01-22	111	3 ± 3
183443	183443-1	1834431	Radon 4-A	Radon4A	2018-10-03	2019-01-23	112	< 3
190992	190992-8	1909928	Radon 4-B	Radon4B	2018-10-03	2019-01-23	112	3 ± 3
168409	168409-1	1684091	Radon 5-A	Radon5A	2018-10-03	2019-01-23	112	4 ± 3
222494	222494-7	2224947	Radon 5-B	Radon5B	2018-10-03	2019-01-23	112	3 ± 3
742701	742701-6	7427016	Radon 6-A	Radon6A	2018-10-03	2019-01-22	111	< 3
667361	667361-0	6673610	Radon 6-B	Radon6B	2018-10-03	2019-01-22	111	3 ± 3
555031	555031-4	5550314	Radon 7-A	Radon7A	2018-10-03	2019-01-23	112	< 3
556395	556395-2	5563952	Radon 7-B	Radon7B	2018-10-03	2019-01-23	112	3 ± 3
979014	979014-8	9790148	Radon 8-A	Radon8A	2018-10-03	2019-01-23	112	< 3
945982	945982-7	9459827	Radon 8-B	Radon8B	2018-10-03	2019-01-23	112	< 3
977289	977289-8	9772898	Radon 9-A	Radon9A	2018-10-03	2019-01-24	113	< 3
594231	594231-3	5942313	Radon 9-B	Radon9B	2018-10-03	2019-01-24	113	< 3
164164	164164-6	1641646	Radon 10-A	Radon10A	2018-10-03	2019-01-24	113	4 ± 3
105056	105056-6	1050566	Radon 10-B	Radon10B	2018-10-03	2019-01-24	113	3 ± 3
143034	143034-7	1430347	Radon-1A	Radon1A	2019-01-22	2019-05-12	110	< 4
142928	142928-1	1429281	Radon-1B	Radon1B	2019-01-22	2019-05-12	110	< 6
335475	335475-0	3354750	Radon-2A	Radon2A	2019-01-22	2019-05-12	110	3 ± 3
209800	209800-2	2098002	Radon-2B	Radon2B	2019-01-22	2019-05-12	110	< 4
129519	129519-5	1295195	Radon-3A	Radon3A	2019-01-22	2019-05-12	110	< 5
143630	143630-2	1436302	Radon-3B	Radon3B	2019-01-22	2019-05-12	110	3 ± 3
377270	377270-4	3772704	Radon-4A	Radon4A	2019-01-23	2019-05-12	109	< 3
377966	377966-7	3779667	Radon-4B	Radon4B	2019-01-23	2019-05-12	109	< 5
128478	128478-5	1284785	Radon-5A	Radon5A	2019-01-23	2019-05-12	109	< 3
334614	334614-5	3346145	Radon-5B	Radon5B	2019-01-23	2019-05-12	109	< 4



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143678	143678-1	1436781	Radon-6A	Radon6A	2019-01-22	2019-05-12	110	< 4
335632	335632-6	3356326	Radon-6B	Radon6B	2019-01-22	2019-05-12	110	< 4
334970	334970-1	3349701	Radon-7A	Radon7A	2019-01-23	2019-05-12	109	< 3
334118	334118-7	3341187	Radon-7B	Radon7B	2019-01-23	2019-05-12	109	4 ± 3
143512	143512-2	1435122	Radon-8A	Radon8A	2019-01-23	2019-05-12	109	< 4
340366	340366-4	3403664	Radon-8B	Radon8B	2019-01-23	2019-05-12	109	3 ± 3
145062	145062-6	1450626	Radon-9A	Radon9A	2019-01-24	2019-05-13	109	< 3
143270	143270-7	1432707	Radon-9B	Radon9B	2019-01-24	2019-05-13	109	< 4
326949	326949-5	3269495	Radon-10A	Radon10A	2019-01-24	2019-05-13	109	3 ± 3
375595	375595-6	3755956	Radon-10B	Radon10B	2019-01-24	2019-05-13	109	< 3
421708	421708-9	4217089	Radon-1A	Radon1A	2019-05-12	2019-09-25	136	< 3
430190	430190-9	4301909	Radon-1B	Radon1B	2019-05-12	2019-09-25	136	< 4
731677	731677-1	7316771	Radon-2A	Radon2A	2019-05-12	2019-09-25	136	6 ± 3
271265	271265-1	2712651	Radon-2B	Radon2B	2019-05-12	2019-09-25	136	3 ± 3
787451	787451-4	7874514	Radon-3A	Radon3A	2019-05-12	2019-09-25	136	6 ± 3
794898	794898-7	7948987	Radon-3B	Radon3B	2019-05-12	2019-09-25	136	3 ± 3
386143	386143-2	3861432	Radon-4A	Radon4A	2019-05-12	2019-09-25	136	< 3
496398	496398-9	4963989	Radon-4B	Radon4B	2019-05-12	2019-09-25	136	3 ± 3
771857	771857-0	7718570	Radon-5A	Radon5A	2019-05-12	2019-09-26	137	12 ± 3
346396	346396-5	3463965	Radon-5B	Radon5B	2019-05-12	2019-09-26	137	5 ± 3
157102	157102-5	1571025	Radon-6A	Radon6A	2019-05-12	2019-09-25	136	5 ± 3
324426	324426-6	3244266	Radon-6B	Radon6B	2019-05-12	2019-09-25	136	< 3
600407	600407-1	6004071	Radon-7A	Radon7A	2019-05-12	2019-09-26	137	19 ± 4
385254	385254-8	3852548	Radon-7B	Radon7B	2019-05-12	2019-09-26	137	12 ± 3
795844	795844-0	7958440	Radon-8A	Radon8A	2019-05-12	2019-09-25	136	3 ± 3
689429	689429-9	6894299	Radon-8B	Radon8B	2019-05-12	2019-09-25	136	4 ± 3
524479	524479-3	5244793	Radon-9A	Radon9A	2019-05-13	2019-09-26	136	6 ± 3
993493	993493-6	9934936	Radon-9B	Radon9B	2019-05-13	2019-09-26	136	7 ± 3
914532	914532-7	9145327	Radon-10A	Radon10A	2019-05-13	2019-09-26	136	3 ± 3
994946	994946-2	9949462	Radon-10B	Radon10B	2019-05-13	2019-09-26	136	5 ± 3
339220	339220-6	3392206	Radon 1-A	Radon1A	2019-09-25	2020-02-06	134	< 4
415534	415534-7	4155347	Radon 1-B	Radon1B	2019-09-25	2020-02-06	134	3 ± 3
945665	945665-8	9456658	Radon 2-A	Radon2A	2019-09-25	2020-02-06	134	4 ± 3
182624	182624-7	1826247	Radon 2-B	Radon2B	2019-09-25	2020-02-06	134	< 4
310857	310857-8	3108578	Radon 3-A	Radon3A	2019-09-25	2020-02-06	134	< 2
382993	382993-4	3829934	Radon 3-B	Radon3B	2019-09-25	2020-02-06	134	3 ± 2
344686	344686-1	3446861	Radon 4-A	Radon4A	2019-09-25	2020-02-06	134	4 ± 3
119649	119649-2	1196492	Radon 4-B	Radon4B	2019-09-25	2020-02-06	134	2 ± 2
467529	467529-4	4675294	Radon 5-A	Radon5A	2019-09-26	2020-02-06	133	3 ± 2
593581	593581-2	5935812	Radon 5-B	Radon5B	2019-09-26	2020-02-06	133	4 ± 2
152891	152891-8	1528918	Radon 6-A	Radon6A	2019-09-25	2020-01-21	118	19 ± 4



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262394	262394-0	2623940	Radon 6-B	Radon6B	2019-09-25	2020-01-21	118	14 ± 4
472921	472921-6	4729216	Radon 7-A	Radon7A	2019-09-26	2020-02-07	134	4 ± 2
197031	197031-8	1970318	Radon 7-B	Radon7B	2019-09-26	2020-02-07	134	3 ± 2
361270	361270-2	3612702	Radon 8-A	Radon8A	2019-09-25	2020-02-07	135	5 ± 3
648339	648339-0	6483390	Radon 8-B	Radon8B	2019-09-25	2020-02-07	135	< 4
451442	451442-8	4514428	Radon 9-A	Radon9A	2019-09-26	2020-02-07	134	< 4
949464	949464-2	9494642	Radon 9-B	Radon9B	2019-09-26	2020-02-07	134	2 ± 2
176973	176973-6	1769736	Radon 10-A	Radon10A	2019-09-26	2020-02-07	134	4 ± 3
774882	774882-5	7748825	Radon 10-B	Radon10B	2019-09-26	2020-02-07	134	2 ± 2
221593	221593-7	2215937	Radon-2A	Radon2A	2020-02-06	2020-07-25	170	4 ± 3
644943	644943-3	6449433	Radon-2B	Radon2B	2020-02-06	2020-07-25	170	8 ± 3
761140	761140-3	7611403	Radon-3A	Radon3A	2020-02-06	2020-07-24	169	9 ± 3
231885	231885-5	2318855	Radon-3B	Radon3B	2020-02-06	2020-07-24	169	5 ± 3
280558	280558-8	2805588	Radon-4A	Radon4A	2020-02-06	2020-07-25	170	5 ± 3
263265	263265-1	2632651	Radon-4B	Radon4B	2020-02-06	2020-07-25	170	10 ± 3
295613	295613-4	2956134	Radon-5A	Radon5A	2020-02-06	2020-07-24	169	9 ± 3
118311	118311-0	1183110	Radon-5B	Radon5B	2020-02-06	2020-07-24	169	4 ± 3
350177	350177-2	3501772	Radon-6A	Radon6A	2020-01-21	2020-07-24	185	5 ± 3
986215	986215-2	9862152	Radon-6B	Radon6B	2020-01-21	2020-07-24	185	7 ± 3
345718	345718-1	3457181	Radon-7A	Radon7A	2020-02-07	2020-07-23	167	6 ± 4
159420	159420-9	1594209	Radon-7B	Radon7B	2020-02-07	2020-07-23	167	7 ± 4
657220	657220-0	6572200	Radon-8A	Radon8A	2020-02-07	2020-07-23	167	5 ± 4
911167	911167-5	9111675	Radon-8B	Radon8B	2020-02-07	2020-07-23	167	< 3
245665	245665-5	2456655	Radon-9A	Radon9A	2020-02-07	2020-07-24	168	< 3
197252	197252-0	1972520	Radon-9B	Radon9B	2020-02-07	2020-07-24	168	4 ± 4
280737	280737-8	2807378	Radon-10A	Radon10A	2020-02-07	2020-07-25	169	< 3
243646	243646-7	2436467	Radon-10B	Radon10B	2020-02-07	2020-07-25	169	6 ± 3
699605	699605-2	6996052	Radon 1A	Radon1A	2020-07-25	2020-11-03	101	< 5
947477	947477-6	9474776	Radon 1B	Radon1B	2020-07-25	2020-11-03	101	< 5
233238	233238-5	2332385	Radon 2A	Radon2A	2020-07-25	2020-11-03	101	< 3
723976	723976-7	7239767	Radon 2B	Radon2B	2020-07-25	2020-11-03	101	< 5
405482	405482-1	4054821	Radon 3A	Radon3A	2020-07-24	2020-11-03	102	< 3
547196	547196-6	5471966	Radon 3B	Radon3B	2020-07-24	2020-11-03	102	3 ± 3
176744	176744-1	1767441	Radon 4A	Radon4A	2020-07-25	2020-11-03	101	< 3
585217	585217-3	5852173	Radon 4B	Radon4B	2020-07-25	2020-11-03	101	3 ± 3
258302	258302-9	2583029	Radon 5B	Radon5B	2020-07-24	2020-11-03	102	< 3
351592	351592-1	3515921	Radon 6A	Radon6A	2020-07-24	2020-11-03	102	< 3
671825	671825-8	6718258	Radon 6B	Radon6B	2020-07-24	2020-11-03	102	3 ± 3
669513	669513-4	6695134	Radon 7A	Radon7A	2020-07-23	2020-11-04	104	< 3
280764	280764-2	2807642	Radon 7B	Radon7B	2020-07-23	2020-11-04	104	< 5
902442	902442-3	9024423	Radon 8A	Radon8A	2020-07-23	2020-11-05	105	< 3



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481604	481604-7	4816047	Radon 8B	Radon8B	2020-07-23	2020-11-05	105	< 3
194347	194347-1	1943471	Radon 9A	Radon9A	2020-07-24	2020-11-05	104	< 5
466645	466645-9	4666459	Radon 9B	Radon9B	2020-07-24	2020-11-05	104	< 3
132460	132460-7	1324607	Radon 10A	Radon10A	2020-07-25	2020-11-05	103	< 3
736361	736361-7	7363617	Radon 10B	Radon10B	2020-07-25	2020-11-05	103	< 3
127659	127659-1	1276591	Radon-3A	Radon3A	2020-11-03	2021-02-18	107	< 7
426440	426440-4	4264404	Radon-3B	Radon3B	2020-11-03	2021-02-18	107	6 ± 4
464408	464408-4	4644084	Radon-4A	Radon4A	2020-11-03	2021-02-18	107	< 7
661183	661183-4	6611834	Radon-4B	Radon4B	2020-11-03	2021-02-18	107	< 6
433299	433299-5	4332995	Radon-5A	Radon5A	2020-11-03	2021-02-18	107	6 ± 4
903490	903490-1	9034901	Radon-5B	Radon5B	2020-11-03	2021-02-18	107	< 7
451091	451091-3	4510913	Radon-6A	Radon6A	2020-11-03	2021-02-18	107	< 5
947547	947547-6	9475476	Radon-6B	Radon6B	2020-11-03	2021-02-18	107	5 ± 4
619196	619196-9	6191969	Radon-7A	Radon7A	2020-11-04	2021-02-17	105	< 5
348529	348529-9	3485299	Radon-7B	Radon7B	2020-11-04	2021-02-17	105	< 7
934585	934585-1	9345851	Radon-8A	Radon8A	2020-11-05	2021-02-17	104	5 ± 5
386101	386101-0	3861010	Radon-8B	Radon8B	2020-11-05	2021-02-17	104	< 7
366585	366585-8	3665858	Radon-9A	Radon9A	2020-11-05	2021-02-17	104	< 7
268862	268862-0	2688620	Radon-9B	Radon9B	2020-11-05	2021-02-17	104	< 6
518308	518308-2	5183082	Radon-10A	Radon10A	2020-11-05	2021-02-17	104	< 5
140816	140816-0	1408160	Radon-10B	Radon10B	2020-11-05	2021-02-17	104	< 5
302048	302048-4	3020484	3-A	Radon3A	2021-02-18	2021-06-08	110	< 5
566682	566682-1	5666821	3-B	Radon3B	2021-02-18	2021-06-08	110	< 3
306998	306998-6	3069986	4-A	Radon4A	2021-02-18	2021-06-08	110	< 3
674800	674800-8	6748008	4-B	Radon4B	2021-02-18	2021-06-08	110	< 3
563882	563882-0	5638820	5-A	Radon5A	2021-02-18	2021-06-08	110	< 3
946452	946452-0	9464520	5-B	Radon5B	2021-02-18	2021-06-08	110	< 3
545221	545221-4	5452214	6-A	Radon6A	2021-02-18	2021-06-08	110	< 3
758401	758401-4	7584014	6-B	Radon6B	2021-02-18	2021-06-08	110	< 3
454518	454518-2	4545182	7-A	Radon7A	2021-02-17	2021-06-09	112	< 5
779887	779887-9	7798879	7-B	Radon7B	2021-02-17	2021-06-09	112	< 5
931677	931677-9	9316779	8-A	Radon8A	2021-02-17	2021-06-09	112	< 3
955607	955607-7	9556077	8-B	Radon8B	2021-02-17	2021-06-09	112	< 5
375675	375675-6	3756756	9-A	Radon9A	2021-02-17	2021-06-08	111	7 ± 4
674719	674719-0	6747190	9-B	Radon9B	2021-02-17	2021-06-08	111	< 5
134411	134411-8	1344118	10-A	Radon10A	2021-02-17	2021-06-08	111	< 3
626137	626137-4	6261374	10-B	Radon10B	2021-02-17	2021-06-08	111	< 3
939709	939709-2	9397092	1A	Radon1A	2021-06-08	2021-09-21	105	< 4
521692	521692-4	5216924	1B	Radon1B	2021-06-08	2021-09-21	105	4 ± 3
280829	280829-3	2808293	2A	Radon2A	2021-06-08	2021-09-21	105	< 4
277051	277051-9	2770519	3A	Radon3A	2021-06-08	2021-09-21	105	< 4



Summary of Radon Sampling (2016-2021)

Detector	Detector Check No.	Detector/ Check ID	Location	Location ID	Start Date	Stop Date	Days Sampled	Radon conc. Rounded (Bq/m3)
148078	148078-9	1480789	3B	Radon3B	2021-06-08	2021-09-21	105	< 5
438812	438812-0	4388120	4A	Radon4A	2021-06-08	2021-09-21	105	4 ± 3
658969	658969-1	6589691	4B	Radon4B	2021-06-08	2021-09-21	105	4 ± 3
767721	767721-4	7677214	5A	Radon5A	2021-06-08	2021-09-21	105	4 ± 3
696374	696374-8	6963748	5B	Radon5B	2021-06-08	2021-09-21	105	4 ± 3
161028	161028-6	1610286	6A	Radon6A	2021-06-08	2021-09-21	105	< 4
416451	416451-3	4164513	6B	Radon6B	2021-06-08	2021-09-21	105	< 4
368371	368371-1	3683711	7A	Radon7A	2021-06-09	2021-09-21	104	7 ± 4
781946	781946-9	7819469	7B	Radon7B	2021-06-09	2021-09-21	104	5 ± 3
226419	226419-0	2264190	8A	Radon8A	2021-06-09	2021-09-21	104	< 6
801195	801195-9	8011959	8B	Radon8B	2021-06-09	2021-09-21	104	4 ± 3
147329	147329-7	1473297	9A	Radon9A	2021-06-08	2021-09-22	106	< 4
749949	749949-4	7499494	9B	Radon9B	2021-06-08	2021-09-22	106	< 5
308375	308375-5	3083755	10A	Radon10A	2021-06-08	2021-09-22	106	< 4
350617	350617-7	3506177	10B	Radon10B	2021-06-08	2021-09-22	106	< 4

Appendix C:

Laboratory Certificates of Analysis



DENISON MINES CORP.
ATTN: Pam Bennett
230 22nd St. East, Suite 200
Saskatoon SK S7K 0E9

Date Received: 25-JAN-19
Report Date: 01-FEB-19 17:22 (MT)
Version: FINAL

Client Phone: 306-652-8201

Certificate of Analysis

Lab Work Order #: L2225060
Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers:
Legal Site Desc:

Heather McKenzie
Account Manager

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ADDRESS: 8081 Lougheed Hwy, Suite 100, Burnaby, BC V5A 1W9 Canada | Phone: +1 604 253 4188 | Fax: +1 604 253 6700
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2225060-1 DF-01-A Sampled By: J. SHAVER on 22-JAN-19 @ 12:20 Matrix:							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Fixed Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Volatile Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
L2225060-2 DF-01-B Sampled By: J. SHAVER on 22-JAN-19 @ 12:15 Matrix:							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Fixed Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Volatile Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
L2225060-3 DF-02-A Sampled By: J. SHAVER on 22-JAN-19 @ 15:55 Matrix:							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Fixed Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Volatile Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
L2225060-4 DF-02-B Sampled By: J. SHAVER on 22-JAN-19 @ 15:50 Matrix:							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Fixed Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Volatile Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
L2225060-5 DF-03-A Sampled By: J. SHAVER on 22-JAN-19 @ 13:30 Matrix:							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Fixed Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Volatile Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
L2225060-6 DF-03-B Sampled By: J. SHAVER on 22-JAN-19 @ 13:25 Matrix:							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Fixed Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Volatile Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
L2225060-7 DF-04-A Sampled By: J. SHAVER on 22-JAN-19 @ 12:30 Matrix:							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2225060-7 DF-04-A Sampled By: J. SHAVER on 22-JAN-19 @ 12:30 Matrix: Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Fixed Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Volatile Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
L2225060-8 DF-04-B Sampled By: J. SHAVER on 22-JAN-19 @ 12:35 Matrix: Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Fixed Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Volatile Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
L2225060-9 DF-05-A Sampled By: J. SHAVER on 24-JAN-19 @ 11:15 Matrix: Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Fixed Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Volatile Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
L2225060-10 DF-05-B Sampled By: J. SHAVER on 24-JAN-19 @ 11:20 Matrix: Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Fixed Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154
Volatile Dustfall	<0.10		0.10	mg/dm2.day		28-JAN-19	R4479154

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
DUSTFALLS-T.DM2-VA	Dustfall	Dustfalls Total+Fixed & Vol (mg/dm2.day)	BCMOE DUSTFALLS

Dustfall analysis is carried out in accordance with procedures published by the B.C. Ministry of Environment Laboratory.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:
GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

*mg/kg - milligrams per kilogram based on dry weight of sample
 mg/kg wwt - milligrams per kilogram based on wet weight of sample
 mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
 mg/L - unit of concentration based on volume, parts per million.
 < - Less than.*

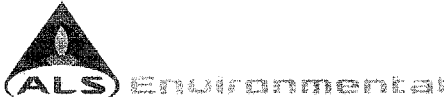
D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Chain of Custody (COC) / Analytical Request Form



L2225060-COFC

COC Number: 17 -

Page 1 of

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To Contact and company name below will appear on the final report		Report Format / Distribution		Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)							
Company:	Denison Mines	Select Report Format:	<input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)	Regular [R] <input checked="" type="checkbox"/> Standard TAT if received by 3 pm - business days - no surcharges apply							
Contact:	Pam Bennett	Quality Control (QC) Report with Report	<input type="checkbox"/> YES <input type="checkbox"/> NO	PRIORITY (Business Days)	4 day [P4-20%] <input type="checkbox"/>		EMERGENCY	1 Business day [E1 - 100%] <input type="checkbox"/>			
Phone:	306-652-8201 x107	<input type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked			3 day [P3-25%] <input type="checkbox"/>			Same Day, Weekend or Statutory holiday [E2 -200%] <input type="checkbox"/>			
Company address below will appear on the final report		Select Distribution:	<input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX		2 day [P2-50%] <input type="checkbox"/>			Same Day, Weekend or Statutory holiday [E2 -200%] <input type="checkbox"/>			
Street:	230 22nd ST East, Suite 200	Email 1 or Fax	pbennett@denisonmines.com	Date and Time Required for all E&P TATs:							
City/Province:	Saskatoon, SK	Email 2		For tests that can not be performed according to the service level selected, you will be contacted.							
Postal Code:	S7K 0E9	Email 3		Analysis Request							
Invoice To		Invoice Distribution		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below							
Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Select Invoice Distribution:	<input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX								
Copy of Invoice with Report <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Email 1 or Fax	dhassell@denisonmines.com								
Company:		Email 2	pbennett@denisonmines.com								
Contact:											
Project Information		Oil and Gas Required Fields (client use)									
ALS Account # / Quote #:	Q70196	AFE/Cost Center:	PO#								
Job #:		Major/Minor Code:	Routing Code:								
PO / AFE:		Requisitioner:									
LSD:		Location:									
ALS Lab Work Order # (lab use only):		ALS Contact:	Kaitlyn Gardner	Sampler:	J.Shaver						
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type					SAMPLES ON HOLD	Sample is hazardous (please provide further details)	NUMBER OF CONTAINERS
	DF-01-A	22-Jan-19	12:20	R							1
	DF-01-B	22-Jan-19	12:15	R							1
	DF-02-A	22-Jan-19	15:55	R							1
	DF-02-B	22-Jan-19	15:50	R							1
	DF-03-A	22-Jan-19	13:30	R							1
	DF-03-B	22-Jan-19	13:25	R							1
	DF-04-A	23-Jan-19	12:30	R							1
	DF-04-B	23-Jan-19	12:35	R							1
	DF-05-A	24-Jan-19	11:15	R							1
	DF-05-B	24-Jan-19	11:20	R							1
Drinking Water (DW) Samples¹ (client use)		Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)			SAMPLE CONDITION AS RECEIVED (lab use only)						
Are samples taken from a Regulated DW System? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					Frozen	<input type="checkbox"/>	SIF Observations	Yes <input type="checkbox"/>	No <input type="checkbox"/>		
Are samples for human consumption/ use? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					Ice Packs	<input checked="" type="checkbox"/>	Ice Cubes	<input type="checkbox"/>	Custody seal intact	Yes <input type="checkbox"/>	No <input type="checkbox"/>
					Cooling Initiated	<input type="checkbox"/>					
					INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C			
					3°						
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)						
Released by:	<i>Dave C</i>	Date:	25/19	Time:	12:15pm	Received by:	ADM	Date:	25-JAN-19	Time:	12:36



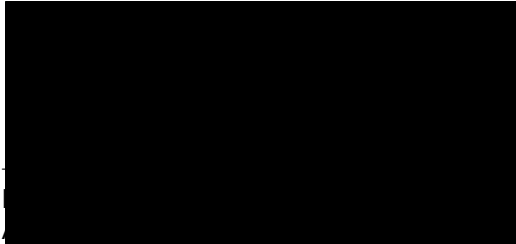
DENISON MINES CORP.
ATTN: Pam Bennett
230 22nd St. East, Suite 200
Saskatoon SK S7K 0E9

Date Received: 16-MAY-19
Report Date: 24-MAY-19 18:09 (MT)
Version: FINAL

Client Phone: 306-652-8201


Certificate of Analysis

Lab Work Order #: L2274915
Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers:
Legal Site Desc:



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ADDRESS: #819-58th St E., Saskatoon, SK S7K 6X5, Canada | Phone: +1 306 668 8370 | Fax: +1 306 668 8383



ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2274915-1 DF-01-A (DEPLOYED JAN 22, 2019 12:20PM) Sampled By: J. SHAVER on 12-MAY-19 @ 09:40 Matrix: WATER							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Fixed Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Volatile Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
L2274915-2 DF-01-B (DEPLOYED JAN 22, 2019 12:15PM) Sampled By: J. SHAVER on 12-MAY-19 @ 09:45 Matrix: WATER							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Fixed Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Volatile Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
L2274915-3 DF-02-A (DEPLOYED JAN 22, 2019 3:55PM) Sampled By: J. SHAVER on 12-MAY-19 @ 11:40 Matrix: WATER							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Fixed Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Volatile Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
L2274915-4 DF-02-B (DEPLOYED JAN 22, 2019 3:50PM) Sampled By: J. SHAVER on 12-MAY-19 @ 11:45 Matrix: WATER							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Fixed Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Volatile Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
L2274915-5 DF-03-A (DEPLOYED JAN 22, 2019 1:30PM) Sampled By: J. SHAVER on 12-MAY-19 @ 10:20 Matrix: WATER							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Fixed Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Volatile Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
L2274915-6 DF-03-B (DEPLOYED JAN 22, 2019 1:25PM) Sampled By: J. SHAVER on 12-MAY-19 @ 10:25 Matrix: WATER							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Fixed Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Volatile Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
L2274915-7 DF-04-A (DEPLOYED JAN 23, 2019 12:30PM) Sampled By: J. SHAVER on 12-MAY-19 @ 15:00 Matrix: WATER							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2274915-7 DF-04-A (DEPLOYED JAN 23, 2019 12:30PM) Sampled By: J. SHAVER on 12-MAY-19 @ 15:00 Matrix: WATER Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Fixed Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Volatile Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
L2274915-8 DF-04-B (DEPLOYED JAN 23, 2019 12:35PM) Sampled By: J. SHAVER on 12-MAY-19 @ 15:05 Matrix: WATER Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	0.14		0.10	mg/dm2.day		22-MAY-19	R4641894
Fixed Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Volatile Dustfall	0.12		0.10	mg/dm2.day		22-MAY-19	R4641894
L2274915-9 DF-05-A (DEPLOYED JAN 24, 2019 11:15AM) Sampled By: J. SHAVER on 13-MAY-19 @ 09:30 Matrix: WATER Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Fixed Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Volatile Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
L2274915-10 DF-05-B (DEPLOYED JAN 24, 2019 11:20AM) Sampled By: J. SHAVER on 13-MAY-19 @ 09:35 Matrix: WATER Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Fixed Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Volatile Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
L2274915-11 DF-06-A (DEPLOYED OCT 2, 2019 1:55PM) Sampled By: J. SHAVER on 12-MAY-19 @ 14:00 Matrix: WATER Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Fixed Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Volatile Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
L2274915-12 DF-06-B (DEPLOYED OCT 2, 2019 1:50PM) Sampled By: J. SHAVER on 12-MAY-19 @ 14:05 Matrix: WATER Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Fixed Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894
Volatile Dustfall	<0.10		0.10	mg/dm2.day		22-MAY-19	R4641894

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
DUSTFALLS-T.DM2-VA	Dustfall	Dustfalls Total+Fixed & Vol (mg/dm2.day)	BCMOE DUSTFALLS
Dustfall analysis is carried out in accordance with procedures published by the B.C. Ministry of Environment Laboratory.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

*mg/kg - milligrams per kilogram based on dry weight of sample
 mg/kg wwt - milligrams per kilogram based on wet weight of sample
 mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
 mg/L - unit of concentration based on volume, parts per million.
 < - Less than.*

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Report To Dana Harris, Denison Mines Corp.
230 22nd St. East, Suite 200

Saskatoon, SK S7K 0E9

Client Phone 306-652-8201

Date Received 31-Aug-2020 15:05

Report Date 12-Sep-2020 19:21

Report Revision 1

Version FINAL

Certificate of Analysis

Lab Work Order # L2496899

Project P.O. # WRE_E0220018

Job Reference

Legal Site Description

C of C Numbers

Case Narrative/Comments

A handwritten signature in black ink that reads "B. Morgan".

Brian Morgan, B.Sc. Hons.
Client Services Manager

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Sample Summary L2496899

Job Reference

Report To Dana Harris, Denison Mines Corp.
Date Received 31-Aug-2020 15:05
Report Date 12-Sep-2020 19:21
Report Version 1

Sample Details

ALS Sample ID	Client Sample ID	Matrix	Date Sampled	Time Sampled	Qualifier
L2496899-1	DF-01A	DUSTFALL	28-Aug-20	10:34	
L2496899-2	DF-01B	DUSTFALL	28-Aug-20	10:34	
L2496899-3	DF-02A	DUSTFALL	28-Aug-20	09:34	
L2496899-4	DF-02B	DUSTFALL	28-Aug-20	09:34	
L2496899-5	DF-03A	DUSTFALL	28-Aug-20	10:04	
L2496899-6	DF-03B	DUSTFALL	28-Aug-20	10:02	
L2496899-7	DF-04A	DUSTFALL	28-Aug-20	15:50	
L2496899-8	DF-04B	DUSTFALL	28-Aug-20	15:50	
L2496899-9	DF-05A	DUSTFALL	28-Aug-20	15:09	
L2496899-10	DF-05B	DUSTFALL	28-Aug-20	15:09	
L2496899-11	DF-06A	DUSTFALL	28-Aug-20	13:57	
L2496899-12	DF-06B	DUSTFALL	28-Aug-20	13:57	

Results Summary L2496899

Job Reference

Report To Dana Harris, Denison Mines Corp.
Date Received 31-Aug-2020 15:05
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Report Version 1

Client Sample ID	DF-01A	DF-01B	DF-02A	DF-02B	DF-03A	DF-03B	DF-04A	DF-04B	DF-05A	DF-05B	DF-06A	DF-06B
Date Sampled	28-Aug-2020	28-Aug-2020	28-Aug-2020	28-Aug-2020	28-Aug-2020	28-Aug-2020	28-Aug-2020	28-Aug-2020	28-Aug-2020	28-Aug-2020	28-Aug-2020	28-Aug-2020
Time Sampled	10:34	10:34	9:34	9:34	10:04	10:02	15:50	15:50	15:09	15:09	13:57	13:57
ALS Sample ID	L2496899-1	L2496899-2	L2496899-3	L2496899-4	L2496899-5	L2496899-6	L2496899-7	L2496899-8	L2496899-9	L2496899-10	L2496899-11	L2496899-12
Parameter	Lowest Detection Limit	Units	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall

Particulates (Dustfall)

Fixed Dustfall	0.10	mg/dm ² .day	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.11	<0.10	<0.10	
Volatile Dustfall	0.10	mg/dm ² .day	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.11	<0.10	0.11	0.20	<0.10	<0.10
Total Dustfall	0.10	mg/dm ² .day	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.15	<0.10	0.18	0.30	<0.10	<0.10

Results of Analysis L2496899

Job Reference

Report To Dana Harris, Denison Mines Corp.
Date Received 31-Aug-2020 15:05
Report Date 12-Sep-2020 19:21
Report Version 1

Parameter	ALS ID	Client Sample ID	ALS Test Code	Results	Detection Limit	Units	Qual	Date Sampled	Time Sampled	Prep Date	Analysis Date	QC Lot	QC Eval	Hold Time Eval	Matrix	Class
Particulates (Dustfall)																
Fixed Dustfall	L2496899-1	DF-01A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	10:34		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2496899-1	DF-01A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	10:34		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Total Dustfall	L2496899-1	DF-01A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	10:34		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2496899-2	DF-01B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	10:34		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2496899-2	DF-01B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	10:34		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Total Dustfall	L2496899-2	DF-01B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	10:34		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2496899-3	DF-02A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	09:34		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2496899-3	DF-02A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	09:34		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Total Dustfall	L2496899-3	DF-02A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	09:34		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2496899-4	DF-02B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	09:34		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2496899-4	DF-02B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	09:34		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Total Dustfall	L2496899-4	DF-02B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	09:34		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2496899-5	DF-03A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	10:04		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2496899-5	DF-03A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	10:04		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Total Dustfall	L2496899-5	DF-03A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	10:04		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2496899-6	DF-03B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	10:02		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2496899-6	DF-03B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	10:02		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Total Dustfall	L2496899-6	DF-03B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	10:02		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2496899-7	DF-04A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	15:50		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2496899-7	DF-04A	DUSTFALLS-T.DM2-VA	0.11	0.10	mg/dm2.day		28-Aug-20	15:50		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Total Dustfall	L2496899-7	DF-04A	DUSTFALLS-T.DM2-VA	0.15	0.10	mg/dm2.day		28-Aug-20	15:50		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2496899-8	DF-04B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	15:50		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2496899-8	DF-04B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	15:50		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Total Dustfall	L2496899-8	DF-04B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	15:50		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2496899-9	DF-05A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	15:09		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2496899-9	DF-05A	DUSTFALLS-T.DM2-VA	0.11	0.10	mg/dm2.day		28-Aug-20	15:09		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Total Dustfall	L2496899-9	DF-05A	DUSTFALLS-T.DM2-VA	0.18	0.10	mg/dm2.day		28-Aug-20	15:09		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2496899-10	DF-05B	DUSTFALLS-T.DM2-VA	0.11	0.10	mg/dm2.day		28-Aug-20	15:09		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2496899-10	DF-05B	DUSTFALLS-T.DM2-VA	0.20	0.10	mg/dm2.day		28-Aug-20	15:09		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Total Dustfall	L2496899-10	DF-05B	DUSTFALLS-T.DM2-VA	0.30	0.10	mg/dm2.day		28-Aug-20	15:09		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2496899-11	DF-06A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	13:57		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2496899-11	DF-06A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	13:57		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Total Dustfall	L2496899-11	DF-06A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	13:57		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2496899-12	DF-06B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	13:57		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2496899-12	DF-06B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	13:57		10-Sep-20	1367890	✓	✓	Dustfall	Particulates
Total Dustfall	L2496899-12	DF-06B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		28-Aug-20	13:57		10-Sep-20	1367890	✓	✓	Dustfall	Particulates

Evaluation Legend

 QC Lot met ALS Data Quality Objectives or Test result met ALS Hold Time Recommendations

Quality Control L2496899

Job Reference
Report To Dana Harris, Denison Mines Corp.
Date Received 31-Aug-2020 15:05
Report Date 12-Sep-2020 19:21
Report Version 1

QC Type	Analyte	QC Lot #	ALS QC ID	Result	Target	Units	%	Limit	Units	Qual	Eval	Matrix	Class
Particulates (Dustfall)													
LCS	Fixed Dustfall	1367890	WG3401721-2	8.14	7.81	mg/dm2.day	104.2	85-115	%	✓		Dustfall	Particulates
LCS	Volatile Dustfall	1367890	WG3401721-2	4.09	4.24	mg/dm2.day	96.4	85-115	%	✓		Dustfall	Particulates
LCS	Total Dustfall	1367890	WG3401721-2	12.2	12.1	mg/dm2.day	101.5	85-115	%	✓		Dustfall	Particulates
MB	Fixed Dustfall	1367890	WG3401721-1	<0.10		mg/dm2.day	-	<0.10	mg/dm2.day	✓		Dustfall	Particulates
MB	Volatile Dustfall	1367890	WG3401721-1	<0.10		mg/dm2.day	-	<0.10	mg/dm2.day	✓		Dustfall	Particulates
MB	Total Dustfall	1367890	WG3401721-1	<0.10		mg/dm2.day	-	<0.10	mg/dm2.day	✓		Dustfall	Particulates

Evaluation Legend
 ✓ QC Lot met ALS Data Quality Objectives

Methodology L2496899

Job Reference
Report To Dana Harris, Denison Mines Corp.
Date Received 31-Aug-2020 15:05
Report Date 12-Sep-2020 19:21
Report Version 1

ALS Test Code	ALS Test Description	Lab Location	Matrix	Method Reference	Methodology Description
Particulates (Dustfall)					
DUSTFALLS-T.DM2-VA	Dustfalls Total+Fixed & Vol (mg/dm2.day)	Vancouver	Dustfall	BCMOE DUSTFALLS	Dustfall analysis is carried out in accordance with procedures published by the B.C. Ministry of Environment Laboratory.



Report To Dana Harris, Denison Mines Corp.
230 22nd St. East, Suite 200

Saskatoon, SK S7K 0E9

Client Phone 306-652-8201

Date Received 8-Oct-2020 16:00
Report Date 19-Oct-2020 18:45
Report Revision 1
Version FINAL

Certificate of Analysis

Lab Work Order # L2514481
Project P.O. # WRE_E0220018
Job Reference
Legal Site Description
C of C Numbers

Case Narrative/Comments

A handwritten signature in black ink that reads "B. Morgan".

Brian Morgan, B.Sc. Hons.
Client Services Manager

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Sample Summary L2514481

Job Reference

Report To Dana Harris, Denison Mines Corp.
Date Received 8-Oct-2020 16:00
Report Date 19-Oct-2020 18:45
Report Version 1

Sample Details

ALS Sample ID	Client Sample ID	Matrix	Date Sampled	Time Sampled	Qualifier
L2514481-1	DF-01A	WATER	02-Oct-20	14:00	
L2514481-2	DF-01B	WATER	02-Oct-20	14:00	
L2514481-3	DF-02A	WATER	02-Oct-20	15:15	
L2514481-4	DF-02B	WATER	02-Oct-20	15:15	
L2514481-5	DF-03A	WATER	02-Oct-20	14:40	
L2514481-6	DF-03B	WATER	02-Oct-20	14:40	
L2514481-7	DF-04A	WATER	30-Sep-20	15:30	
L2514481-8	DF-04B	WATER	30-Sep-20	15:30	
L2514481-9	DF-05A	WATER	30-Sep-20	15:08	
L2514481-10	DF-05B	WATER	30-Sep-20	15:08	
L2514481-11	DF-06A	WATER	30-Sep-20	14:15	
L2514481-12	DF-06B	WATER	30-Sep-20	14:15	

Results Summary L2514481

Job Reference

Report To Dana Harris, Denison Mines Corp.
Date Received 8-Oct-2020 16:00
Report Date 19-Oct-2020 18:45
Report Version 1

Client Sample ID	DF-01A	DF-01B	DF-02A	DF-02B	DF-03A	DF-03B	DF-04A	DF-04B	DF-05A	DF-05B	DF-06A	DF-06B
Date Sampled	2-Oct-2020	2-Oct-2020	2-Oct-2020	2-Oct-2020	2-Oct-2020	2-Oct-2020	30-Sep-2020	30-Sep-2020	30-Sep-2020	30-Sep-2020	30-Sep-2020	30-Sep-2020
Time Sampled	14:00	14:00	15:15	15:15	14:40	14:40	15:30	15:30	15:08	15:08	14:15	14:15
ALS Sample ID	L2514481-1	L2514481-2	L2514481-3	L2514481-4	L2514481-5	L2514481-6	L2514481-7	L2514481-8	L2514481-9	L2514481-10	L2514481-11	L2514481-12
Parameter	Lowest Detection Limit	Units	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall

Particulates (Dustfall)

Fixed Dustfall	0.10	mg/dm2.day	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Volatile Dustfall	0.10	mg/dm2.day	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.19	<0.10	0.13	<0.10	0.10	
Total Dustfall	0.10	mg/dm2.day	<0.10	<0.10	0.12	0.12	<0.10	<0.10	0.12	0.25	0.14	0.20	0.12	0.15

Results of Analysis L2514481

Job Reference

Report To Dana Harris, Denison Mines Corp.
Date Received 8-Oct-2020 16:00
Report Date 19-Oct-2020 18:45
Report Version 1

Parameter	ALS ID	Client Sample ID	ALS Test Code	Results	Detection Limit	Units	Qual	Date Sampled	Time Sampled	Prep Date	Analysis Date	QC Lot	QC Eval	Hold Time Eval	Matrix	Class
Particulates (Dustfall)																
Fixed Dustfall	L2514481-1	DF-01A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		02-Oct-20	14:00		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2514481-1	DF-01A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		02-Oct-20	14:00		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Total Dustfall	L2514481-1	DF-01A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		02-Oct-20	14:00		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2514481-2	DF-01B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		02-Oct-20	14:00		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2514481-2	DF-01B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		02-Oct-20	14:00		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Total Dustfall	L2514481-2	DF-01B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		02-Oct-20	14:00		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2514481-3	DF-02A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		02-Oct-20	15:15		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2514481-3	DF-02A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		02-Oct-20	15:15		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Total Dustfall	L2514481-3	DF-02A	DUSTFALLS-T.DM2-VA	0.12	0.10	mg/dm2.day		02-Oct-20	15:15		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2514481-4	DF-02B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		02-Oct-20	15:15		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2514481-4	DF-02B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		02-Oct-20	15:15		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Total Dustfall	L2514481-4	DF-02B	DUSTFALLS-T.DM2-VA	0.12	0.10	mg/dm2.day		02-Oct-20	15:15		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2514481-5	DF-03A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		02-Oct-20	14:40		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2514481-5	DF-03A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		02-Oct-20	14:40		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Total Dustfall	L2514481-5	DF-03A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		02-Oct-20	14:40		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2514481-6	DF-03B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		02-Oct-20	14:40		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2514481-6	DF-03B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		02-Oct-20	14:40		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Total Dustfall	L2514481-6	DF-03B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		02-Oct-20	14:40		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2514481-7	DF-04A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		30-Sep-20	15:30		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2514481-7	DF-04A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		30-Sep-20	15:30		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Total Dustfall	L2514481-7	DF-04A	DUSTFALLS-T.DM2-VA	0.12	0.10	mg/dm2.day		30-Sep-20	15:30		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2514481-8	DF-04B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		30-Sep-20	15:30		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2514481-8	DF-04B	DUSTFALLS-T.DM2-VA	0.19	0.10	mg/dm2.day		30-Sep-20	15:30		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Total Dustfall	L2514481-8	DF-04B	DUSTFALLS-T.DM2-VA	0.25	0.10	mg/dm2.day		30-Sep-20	15:30		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2514481-9	DF-05A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		30-Sep-20	15:08		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2514481-9	DF-05A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		30-Sep-20	15:08		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Total Dustfall	L2514481-9	DF-05A	DUSTFALLS-T.DM2-VA	0.14	0.10	mg/dm2.day		30-Sep-20	15:08		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2514481-10	DF-05B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		30-Sep-20	15:08		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2514481-10	DF-05B	DUSTFALLS-T.DM2-VA	0.13	0.10	mg/dm2.day		30-Sep-20	15:08		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Total Dustfall	L2514481-10	DF-05B	DUSTFALLS-T.DM2-VA	0.20	0.10	mg/dm2.day		30-Sep-20	15:08		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2514481-11	DF-06A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		30-Sep-20	14:15		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2514481-11	DF-06A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		30-Sep-20	14:15		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Total Dustfall	L2514481-11	DF-06A	DUSTFALLS-T.DM2-VA	0.12	0.10	mg/dm2.day		30-Sep-20	14:15		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2514481-12	DF-06B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		30-Sep-20	14:15		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2514481-12	DF-06B	DUSTFALLS-T.DM2-VA	0.10	0.10	mg/dm2.day		30-Sep-20	14:15		16-Oct-20	1387623	✓	✓	Dustfall	Particulates
Total Dustfall	L2514481-12	DF-06B	DUSTFALLS-T.DM2-VA	0.15	0.10	mg/dm2.day		30-Sep-20	14:15		16-Oct-20	1387623	✓	✓	Dustfall	Particulates

Evaluation Legend

✓ QC Lot met ALS Data Quality Objectives or Test result met ALS Hold Time Recommendations

Quality Control L2514481

Job Reference

Report To Dana Harris, Denison Mines Corp.
Date Received 8-Oct-2020 16:00
Report Date 19-Oct-2020 18:45
Report Version 1

QC Type	Analyte	QC Lot #	ALS QC ID	Result	Target	Units	%	Limit	Units	Qual	Eval	Matrix	Class
Particulates (Dustfall)													
LCS	Fixed Dustfall	1387623	WG3425982-2	8.24	7.81	mg/dm2.day	105.5	85-115	%	✓	Dustfall	Particulates	
LCS	Volatile Dustfall	1387623	WG3425982-2	3.81	4.24	mg/dm2.day	89.8	85-115	%	✓	Dustfall	Particulates	
LCS	Total Dustfall	1387623	WG3425982-2	12.0	12.1	mg/dm2.day	99.99	85-115	%	✓	Dustfall	Particulates	
MB	Fixed Dustfall	1387623	WG3425982-1	<0.10		mg/dm2.day	-	<0.10	mg/dm2.day	✓	Dustfall	Particulates	
MB	Volatile Dustfall	1387623	WG3425982-1	<0.10		mg/dm2.day	-	<0.10	mg/dm2.day	✓	Dustfall	Particulates	
MB	Total Dustfall	1387623	WG3425982-1	<0.10		mg/dm2.day	-	<0.10	mg/dm2.day	✓	Dustfall	Particulates	

Evaluation Legend

✓ QC Lot met ALS Data Quality Objectives

Methodology L2514481

Job Reference
Report To Dana Harris, Denison Mines Corp.
Date Received 8-Oct-2020 16:00
Report Date 19-Oct-2020 18:45
Report Version 1

ALS Test Code	ALS Test Description	Lab Location	Matrix	Method Reference	Methodology Description
Particulates (Dustfall)					
DUSTFALLS-T.DM2-VA	Dustfalls Total+Fixed & Vol (mg/dm2.day)	Vancouver	Dustfall	BCMOE DUSTFALLS	Dustfall analysis is carried out in accordance with procedures published by the B.C. Ministry of Environment Laboratory.



Report To Dana Harris, Denison Mines Corp.
230 22nd St. East, Suite 200

Saskatoon, SK S7K 0E9

Client Phone 306-652-8201

Date Received 10-Nov-2020 08:30
Report Date 20-Nov-2020 07:48
Report Revision 1
Version FINAL

Certificate of Analysis

Lab Work Order # L2527762
Project P.O. #
Job Reference
Legal Site Description
C of C Numbers

Case Narrative/Comments

A handwritten signature in black ink that reads "B. Morgan".

Brian Morgan, B.Sc. Hons.
Client Services Manager

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Sample Summary L2527762

Job Reference

Report To Dana Harris, Denison Mines Corp.
Date Received 10-Nov-2020 8:30
Report Date 20-Nov-2020 7:48
Report Version 1

Sample Details

ALS Sample ID	Client Sample ID	Matrix	Date Sampled	Time Sampled	Qualifier
L2527762-1	DF-01-A	WATER	03-Nov-20	08:00	
L2527762-2	DF-01-B	WATER	03-Nov-20	08:00	
L2527762-3	DF-02-A	WATER	03-Nov-20	08:00	
L2527762-4	DF-02-B	WATER	03-Nov-20	08:00	
L2527762-5	DF-03-A	WATER	03-Nov-20	08:00	
L2527762-6	DF-03-B	WATER	03-Nov-20	08:00	
L2527762-7	DF-04-A	WATER	03-Nov-20	08:00	
L2527762-8	DF-04-B	WATER	03-Nov-20	08:00	
L2527762-9	DF-05-A	WATER	03-Nov-20	08:00	
L2527762-10	DF-05-B	WATER	03-Nov-20	08:00	
L2527762-11	DF-06-A	WATER	03-Nov-20	08:00	
L2527762-12	DF-06-B	WATER	03-Nov-20	08:00	

Results Summary L2527762

Job Reference

Report To Dana Harris, Denison Mines Corp.

Date Received 10-Nov-2020 8:30

Report Date 20-Nov-2020 7:48

Report Version 1

Client Sample ID	DF-01-A	DF-01-B	DF-02-A	DF-02-B	DF-03-A	DF-03-B	DF-04-A	DF-04-B	DF-05-A	DF-05-B	DF-06-A	DF-06-B
Date Sampled	3-Nov-2020	3-Nov-2020	3-Nov-2020	3-Nov-2020	3-Nov-2020	3-Nov-2020	3-Nov-2020	3-Nov-2020	3-Nov-2020	3-Nov-2020	3-Nov-2020	3-Nov-2020
Time Sampled	8:00	8:00	8:00	8:00	8:00	8:00	8:00	8:00	8:00	8:00	8:00	8:00
ALS Sample ID	L2527762-1	L2527762-2	L2527762-3	L2527762-4	L2527762-5	L2527762-6	L2527762-7	L2527762-8	L2527762-9	L2527762-10	L2527762-11	L2527762-12
Parameter	Lowest Detection Limit	Units	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall	Dustfall

Particulates (Dustfall)

Fixed Dustfall	0.10	mg/dm2.day	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Volatile Dustfall	0.10	mg/dm2.day	0.41	0.60	0.26	0.16	0.16	0.14	0.12	0.10	<0.10	0.22	0.10	<0.10
Total Dustfall	0.10	mg/dm2.day	0.47	0.66	0.28	0.18	0.18	0.17	0.17	0.15	0.12	0.28	0.12	0.10

Results of Analysis L2527762

Job Reference

Report To Dana Harris, Denison Mines Corp.
Date Received 10-Nov-2020 8:30
Report Date 20-Nov-2020 7:48
Report Version 1

Parameter	ALS ID	Client Sample ID	ALS Test Code	Results	Detection Limit	Units	Qual	Date Sampled	Time Sampled	Prep Date	Analysis Date	QC Lot	QC Eval	Hold Time Eval	Matrix	Class
Particulates (Dustfall)																
Fixed Dustfall	L2527762-1	DF-01-A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2527762-1	DF-01-A	DUSTFALLS-T.DM2-VA	0.41	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Total Dustfall	L2527762-1	DF-01-A	DUSTFALLS-T.DM2-VA	0.47	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2527762-2	DF-01-B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2527762-2	DF-01-B	DUSTFALLS-T.DM2-VA	0.60	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Total Dustfall	L2527762-2	DF-01-B	DUSTFALLS-T.DM2-VA	0.66	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2527762-3	DF-02-A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2527762-3	DF-02-A	DUSTFALLS-T.DM2-VA	0.26	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Total Dustfall	L2527762-3	DF-02-A	DUSTFALLS-T.DM2-VA	0.28	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2527762-4	DF-02-B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2527762-4	DF-02-B	DUSTFALLS-T.DM2-VA	0.16	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Total Dustfall	L2527762-4	DF-02-B	DUSTFALLS-T.DM2-VA	0.18	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2527762-5	DF-03-A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2527762-5	DF-03-A	DUSTFALLS-T.DM2-VA	0.16	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Total Dustfall	L2527762-5	DF-03-A	DUSTFALLS-T.DM2-VA	0.18	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2527762-6	DF-03-B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2527762-6	DF-03-B	DUSTFALLS-T.DM2-VA	0.14	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Total Dustfall	L2527762-6	DF-03-B	DUSTFALLS-T.DM2-VA	0.17	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2527762-7	DF-04-A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2527762-7	DF-04-A	DUSTFALLS-T.DM2-VA	0.12	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Total Dustfall	L2527762-7	DF-04-A	DUSTFALLS-T.DM2-VA	0.17	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2527762-8	DF-04-B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2527762-8	DF-04-B	DUSTFALLS-T.DM2-VA	0.10	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Total Dustfall	L2527762-8	DF-04-B	DUSTFALLS-T.DM2-VA	0.15	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2527762-9	DF-05-A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2527762-9	DF-05-A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Total Dustfall	L2527762-9	DF-05-A	DUSTFALLS-T.DM2-VA	0.12	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2527762-10	DF-05-B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2527762-10	DF-05-B	DUSTFALLS-T.DM2-VA	0.22	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Total Dustfall	L2527762-10	DF-05-B	DUSTFALLS-T.DM2-VA	0.28	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2527762-11	DF-06-A	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2527762-11	DF-06-A	DUSTFALLS-T.DM2-VA	0.10	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Total Dustfall	L2527762-11	DF-06-A	DUSTFALLS-T.DM2-VA	0.12	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Fixed Dustfall	L2527762-12	DF-06-B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Volatile Dustfall	L2527762-12	DF-06-B	DUSTFALLS-T.DM2-VA	<0.10	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates
Total Dustfall	L2527762-12	DF-06-B	DUSTFALLS-T.DM2-VA	0.10	0.10	mg/dm2.day		03-Nov-20	08:00		17-Nov-20	1404519	✓	✓	Dustfall	Particulates

Evaluation Legend

 QC Lot met ALS Data Quality Objectives or Test result met ALS Hold Time Recommendations

Quality Control L2527762

Job Reference

Report To Dana Harris, Denison Mines Corp.
Date Received 10-Nov-2020 8:30
Report Date 20-Nov-2020 7:48
Report Version 1

QC Type	Analyte	QC Lot #	ALS QC ID	Result	Target	Units	%	Limit	Units	Qual	Eval	Matrix	Class
Particulates (Dustfall)													
LCS	Fixed Dustfall	1404519	WG3446562-2	8.32	7.81	mg/dm2.day	106.5	85-115	%	✓		Dustfall	Particulates
LCS	Volatile Dustfall	1404519	WG3446562-2	4.09	4.24	mg/dm2.day	96.4	85-115	%	✓		Dustfall	Particulates
LCS	Total Dustfall	1404519	WG3446562-2	12.4	12.1	mg/dm2.day	103.0	85-115	%	✓		Dustfall	Particulates
MB	Fixed Dustfall	1404519	WG3446562-1	<0.10		mg/dm2.day	-	<0.10	mg/dm2.day	✓		Dustfall	Particulates
MB	Volatile Dustfall	1404519	WG3446562-1	<0.10		mg/dm2.day	-	<0.10	mg/dm2.day	✓		Dustfall	Particulates
MB	Total Dustfall	1404519	WG3446562-1	<0.10		mg/dm2.day	-	<0.10	mg/dm2.day	✓		Dustfall	Particulates

Evaluation Legend

✓ QC Lot met ALS Data Quality Objectives

Methodology L2527762

Job Reference
Report To Dana Harris, Denison Mines Corp.
Date Received 10-Nov-2020 8:30
Report Date 20-Nov-2020 7:48
Report Version 1

ALS Test Code	ALS Test Description	Lab Location	Matrix	Method Reference	Methodology Description
Particulates (Dustfall)					
DUSTFALLS-T.DM2-VA	Dustfalls Total+Fixed & Vol (mg/dm2.day)	Vancouver	Dustfall	BCMOE DUSTFALLS	Dustfall analysis is carried out in accordance with procedures published by the B.C. Ministry of Environment Laboratory.



Denison Mines Corp.
ATTN: Jenn Skilnick
230 22nd St. East, Suite 200
Saskatoon SK S7K 0E9

Date Received: 23-SEP-21
Report Date: 14-OCT-21 17:32 (MT)
Version: FINAL

Client Phone: 306-652-8201

Certificate of Analysis

Lab Work Order #: L2643294
Project P.O. #: WRE_E0221097
Job Reference:
C of C Numbers:
Legal Site Desc:

Brian Morgan, B.Sc. Hons.
Client Services Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2643294-1 DF-01A AUG17/21 @ 14:50 Sampled By: J. SKILNICK on 21-SEP-21 @ 10:45 Matrix: DUSTFALL							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	0.11		0.10	mg/dm2.day		07-OCT-21	R5617699
Fixed Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Volatile Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000299		0.000084	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Interval			1	days		07-OCT-21	R5612583
Antimony (Sb)-Total	<0.0000028		0.0000028	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Arsenic (As)-Total	<0.0000028		0.0000028	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Barium (Ba)-Total	0.0000120		0.0000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Beryllium (Be)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Bismuth (Bi)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Boron (B)-Total	<0.00028		0.00028	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cadmium (Cd)-Total	<0.0000014		0.0000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Calcium (Ca)-Total	0.00251		0.00056	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Chromium (Cr)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cobalt (Co)-Total	<0.0000028		0.0000028	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Copper (Cu)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lead (Pb)-Total	<0.0000014		0.0000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Iron (Fe)-Total	<0.00084		0.00084	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lithium (Li)-Total	<0.00014		0.00014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Magnesium (Mg)-Total	0.00063		0.00014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Manganese (Mn)-Total	0.0000512		0.0000028	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Molybdenum (Mo)-Total	<0.0000014		0.0000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Nickel (Ni)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Phosphorus (P)-Total	<0.0014		0.0014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Potassium (K)-Total	0.0017		0.0014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Selenium (Se)-Total	<0.000028		0.000028	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silicon (Si)-Total	<0.0014		0.0014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silver (Ag)-Total	<0.00000028		0.0000002	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Sodium (Na)-Total	<0.0014		0.0014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Strontium (Sr)-Total	0.0000058		0.0000028	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Thallium (Tl)-Total	<0.0000028		0.0000028	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Tin (Sn)-Total	<0.0000028		0.0000028	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Titanium (Ti)-Total	<0.00028		0.00028	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Uranium (U)-Total	<0.00000028		0.0000002	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Vanadium (V)-Total	<0.000028		0.000028	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Zinc (Zn)-Total	<0.000084		0.000084	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
L2643294-2 DF-01B AUG17/21 @ 14:50 Sampled By: J. SKILNICK on 21-SEP-21 @ 10:45 Matrix: DUSTFALL							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Fixed Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Volatile Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000208		0.000088	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Interval			1	days		07-OCT-21	R5612583
Antimony (Sb)-Total	<0.0000029		0.0000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2643294-2 DF-01B AUG17/21 @ 14:50 Sampled By: J. SKILNICK on 21-SEP-21 @ 10:45 Matrix: DUSTFALL							
Total Metals in Dustfalls by ICPMS							
Arsenic (As)-Total	<0.000029		0.000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Barium (Ba)-Total	0.0000115		0.000015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Beryllium (Be)-Total	<0.000015		0.000015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Bismuth (Bi)-Total	<0.000015		0.000015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Boron (B)-Total	<0.00029		0.00029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cadmium (Cd)-Total	<0.000015		0.000015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Calcium (Ca)-Total	0.00234		0.00059	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Chromium (Cr)-Total	<0.000015		0.000015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cobalt (Co)-Total	<0.000029		0.000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Copper (Cu)-Total	<0.000029	DLB	0.000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lead (Pb)-Total	<0.000015		0.000015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Iron (Fe)-Total	0.00114		0.00088	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lithium (Li)-Total	<0.00015		0.00015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Magnesium (Mg)-Total	0.00069		0.00015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Manganese (Mn)-Total	0.0000613		0.000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Molybdenum (Mo)-Total	0.0000015		0.000015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Nickel (Ni)-Total	<0.000015		0.000015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Phosphorus (P)-Total	<0.0015		0.0015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Potassium (K)-Total	0.0021		0.0015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Selenium (Se)-Total	<0.000029		0.000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silicon (Si)-Total	<0.0015		0.0015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silver (Ag)-Total	<0.00000029		0.00000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Sodium (Na)-Total	<0.0015		0.0015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Strontium (Sr)-Total	0.0000061		0.000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Thallium (Tl)-Total	<0.0000029		0.000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Tin (Sn)-Total	<0.0000029		0.000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Titanium (Ti)-Total	<0.00029		0.00029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Uranium (U)-Total	<0.00000029		0.00000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Vanadium (V)-Total	<0.000029		0.000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Zinc (Zn)-Total	<0.000088		0.000088	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
L2643294-3 DF-02A AUG17/21 @ 13:20 Sampled By: J. SKILNICK on 21-SEP-21 @ 11:55 Matrix: DUSTFALL							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	0.14		0.10	mg/dm2.day		07-OCT-21	R5617699
Fixed Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Volatile Dustfall	0.14		0.10	mg/dm2.day		07-OCT-21	R5617699
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000249		0.000082	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Interval			1	days		07-OCT-21	R5612583
Antimony (Sb)-Total	<0.0000027		0.0000027	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Arsenic (As)-Total	<0.0000027		0.0000027	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Barium (Ba)-Total	0.0000144		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Beryllium (Be)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Bismuth (Bi)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Boron (B)-Total	<0.00027		0.00027	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cadmium (Cd)-Total	<0.0000014		0.0000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Calcium (Ca)-Total	0.00248		0.00055	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Chromium (Cr)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2643294-3 DF-02A AUG17/21 @ 13:20 Sampled By: J. SKILNICK on 21-SEP-21 @ 11:55 Matrix: DUSTFALL							
Total Metals in Dustfalls by ICPMS							
Cobalt (Co)-Total	<0.000027		0.000027	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Copper (Cu)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lead (Pb)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Iron (Fe)-Total	<0.00082		0.00082	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lithium (Li)-Total	<0.00014		0.00014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Magnesium (Mg)-Total	0.00067		0.00014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Manganese (Mn)-Total	0.000109		0.000027	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Molybdenum (Mo)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Nickel (Ni)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Phosphorus (P)-Total	<0.0014		0.0014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Potassium (K)-Total	0.0024		0.0014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Selenium (Se)-Total	<0.000027		0.000027	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silicon (Si)-Total	<0.0014		0.0014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silver (Ag)-Total	<0.00000027		0.0000002	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
			7				
Sodium (Na)-Total	<0.0014		0.0014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Strontium (Sr)-Total	0.0000079		0.0000027	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Thallium (Tl)-Total	<0.0000027		0.0000027	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Tin (Sn)-Total	<0.0000027		0.0000027	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Titanium (Ti)-Total	<0.00027		0.00027	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Uranium (U)-Total	<0.00000027		0.0000002	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
			7				
Vanadium (V)-Total	<0.000027		0.000027	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Zinc (Zn)-Total	<0.000082		0.000082	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
L2643294-4 DF-02B AUG17/21 @ 13:20 Sampled By: J. SKILNICK on 21-SEP-21 @ 11:55 Matrix: DUSTFALL							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Fixed Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Volatile Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000168		0.000087	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Interval			1	days		07-OCT-21	R5612583
Antimony (Sb)-Total	<0.0000029		0.0000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Arsenic (As)-Total	<0.0000029		0.0000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Barium (Ba)-Total	0.0000090		0.0000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Beryllium (Be)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Bismuth (Bi)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Boron (B)-Total	<0.00029		0.00029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cadmium (Cd)-Total	<0.0000014		0.0000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Calcium (Ca)-Total	0.00220		0.00058	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Chromium (Cr)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cobalt (Co)-Total	<0.0000029		0.0000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Copper (Cu)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lead (Pb)-Total	<0.0000014		0.0000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Iron (Fe)-Total	<0.00087		0.00087	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lithium (Li)-Total	<0.00014		0.00014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Magnesium (Mg)-Total	0.00050		0.00014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Manganese (Mn)-Total	0.0000489		0.0000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Molybdenum (Mo)-Total	<0.0000014		0.0000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2643294-4 DF-02B AUG17/21 @ 13:20 Sampled By: J. SKILNICK on 21-SEP-21 @ 11:55 Matrix: DUSTFALL							
Total Metals in Dustfalls by ICPMS							
Nickel (Ni)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Phosphorus (P)-Total	<0.0014		0.0014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Potassium (K)-Total	0.0026		0.0014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Selenium (Se)-Total	<0.000029		0.000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silicon (Si)-Total	<0.0014		0.0014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silver (Ag)-Total	<0.00000029		0.00000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Sodium (Na)-Total	<0.0014		0.0014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Strontium (Sr)-Total	0.0000049		0.0000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Thallium (Tl)-Total	<0.0000029		0.0000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Tin (Sn)-Total	<0.0000029		0.0000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Titanium (Ti)-Total	<0.00029		0.00029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Uranium (U)-Total	<0.00000029		0.00000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Vanadium (V)-Total	<0.000029		0.000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Zinc (Zn)-Total	<0.000087		0.000087	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
L2643294-5 DF-03A AUG17/21 @ 14:20 Sampled By: J. SKILNICK on 21-SEP-21 @ 09:30 Matrix: DUSTFALL							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Fixed Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Volatile Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000225		0.000071	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Interval			1	days		07-OCT-21	R5612583
Antimony (Sb)-Total	<0.0000024		0.0000024	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Arsenic (As)-Total	<0.0000024		0.0000024	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Barium (Ba)-Total	0.0000108		0.0000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Beryllium (Be)-Total	<0.000012		0.000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Bismuth (Bi)-Total	<0.000012		0.000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Boron (B)-Total	<0.00024		0.00024	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cadmium (Cd)-Total	<0.0000012		0.0000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Calcium (Ca)-Total	0.00237		0.00047	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Chromium (Cr)-Total	<0.000012		0.000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cobalt (Co)-Total	<0.0000024		0.0000024	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Copper (Cu)-Total	<0.000024	DLB	0.000024	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lead (Pb)-Total	<0.0000012		0.0000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Iron (Fe)-Total	<0.00071		0.00071	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lithium (Li)-Total	<0.00012		0.00012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Magnesium (Mg)-Total	0.00052		0.00012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Manganese (Mn)-Total	0.0000458		0.0000024	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Molybdenum (Mo)-Total	<0.0000012		0.0000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Nickel (Ni)-Total	<0.000012		0.000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Phosphorus (P)-Total	<0.0012		0.0012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Potassium (K)-Total	<0.0012		0.0012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Selenium (Se)-Total	<0.000024		0.000024	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silicon (Si)-Total	<0.0012		0.0012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silver (Ag)-Total	<0.00000024		0.00000024	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Sodium (Na)-Total	<0.0012		0.0012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2643294-5 DF-03A AUG17/21 @ 14:20 Sampled By: J. SKILNICK on 21-SEP-21 @ 09:30 Matrix: DUSTFALL							
Total Metals in Dustfalls by ICPMS							
Strontium (Sr)-Total	0.0000052		0.0000024	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Thallium (Tl)-Total	<0.0000024		0.0000024	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Tin (Sn)-Total	<0.0000024		0.0000024	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Titanium (Ti)-Total	<0.00024		0.00024	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Uranium (U)-Total	<0.00000024		0.00000024	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
			4				
Vanadium (V)-Total	<0.000024		0.000024	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Zinc (Zn)-Total	<0.000071		0.000071	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
L2643294-6 DF-03B AUG17/21 @ 14:20 Sampled By: J. SKILNICK on 21-SEP-21 @ 09:30 Matrix: DUSTFALL							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Fixed Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Volatile Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000214		0.000076	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Interval			1	days		07-OCT-21	R5612583
Antimony (Sb)-Total	<0.0000025		0.0000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Arsenic (As)-Total	<0.0000025		0.0000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Barium (Ba)-Total	0.0000109		0.0000013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Beryllium (Be)-Total	<0.000013		0.000013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Bismuth (Bi)-Total	<0.000013		0.000013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Boron (B)-Total	<0.00025		0.00025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cadmium (Cd)-Total	<0.0000013		0.0000013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Calcium (Ca)-Total	0.00230		0.00051	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Chromium (Cr)-Total	<0.000013		0.000013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cobalt (Co)-Total	<0.0000025		0.0000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Copper (Cu)-Total	<0.000013		0.000013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lead (Pb)-Total	<0.0000013		0.0000013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Iron (Fe)-Total	<0.00076		0.00076	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lithium (Li)-Total	<0.00013		0.00013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Magnesium (Mg)-Total	0.00062		0.00013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Manganese (Mn)-Total	0.0000495		0.0000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Molybdenum (Mo)-Total	<0.0000013		0.0000013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Nickel (Ni)-Total	<0.000013		0.000013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Phosphorus (P)-Total	0.0015		0.0013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Potassium (K)-Total	0.0013		0.0013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Selenium (Se)-Total	<0.000025		0.000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silicon (Si)-Total	<0.0013		0.0013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silver (Ag)-Total	<0.00000025		0.00000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
			5				
Sodium (Na)-Total	<0.0013		0.0013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Strontium (Sr)-Total	0.0000063		0.0000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Thallium (Tl)-Total	<0.0000025		0.0000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Tin (Sn)-Total	<0.0000025		0.0000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Titanium (Ti)-Total	<0.00025		0.00025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Uranium (U)-Total	<0.00000025		0.00000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
			5				
Vanadium (V)-Total	<0.000025		0.000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Zinc (Zn)-Total	<0.000076		0.000076	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2643294-6 DF-03B AUG17/21 @ 14:20 Sampled By: J. SKILNICK on 21-SEP-21 @ 09:30 Matrix: DUSTFALL							
L2643294-7 DF-04A AUG17/21 @ 10:30 Sampled By: J. SKILNICK on 21-SEP-21 @ 11:25 Matrix: DUSTFALL							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Fixed Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Volatile Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000285		0.000089	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Interval			1	days		07-OCT-21	R5612583
Antimony (Sb)-Total	<0.0000030		0.0000030	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Arsenic (As)-Total	<0.0000030		0.0000030	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Barium (Ba)-Total	0.0000110		0.0000015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Beryllium (Be)-Total	<0.000015		0.000015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Bismuth (Bi)-Total	<0.000015		0.000015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Boron (B)-Total	<0.00030		0.00030	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cadmium (Cd)-Total	<0.0000015		0.0000015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Calcium (Ca)-Total	0.00273		0.00059	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Chromium (Cr)-Total	<0.000015		0.000015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cobalt (Co)-Total	<0.0000030		0.0000030	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Copper (Cu)-Total	<0.000015		0.000015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lead (Pb)-Total	<0.0000015		0.0000015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Iron (Fe)-Total	<0.00089		0.00089	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lithium (Li)-Total	<0.00015		0.00015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Magnesium (Mg)-Total	0.00077		0.00015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Manganese (Mn)-Total	0.0000626		0.0000030	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Molybdenum (Mo)-Total	<0.0000015		0.0000015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Nickel (Ni)-Total	<0.000015		0.000015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Phosphorus (P)-Total	<0.0015		0.0015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Potassium (K)-Total	0.0019		0.0015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Selenium (Se)-Total	<0.000030		0.000030	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silicon (Si)-Total	<0.0015		0.0015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silver (Ag)-Total	<0.00000030		0.0000003	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Sodium (Na)-Total	<0.0015		0.0015	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Strontium (Sr)-Total	0.0000063		0.0000030	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Thallium (Tl)-Total	<0.0000030		0.0000030	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Tin (Sn)-Total	<0.0000030		0.0000030	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Titanium (Ti)-Total	<0.00030		0.00030	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Uranium (U)-Total	<0.00000030		0.0000003	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Vanadium (V)-Total	<0.000030		0.000030	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Zinc (Zn)-Total	<0.000089		0.000089	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
L2643294-8 DF-04B AUG17/21 @ 10:30 Sampled By: J. SKILNICK on 21-SEP-21 @ 11:25 Matrix: DUSTFALL							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Fixed Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Volatile Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Total Metals in Dustfalls by ICPMS							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2643294-8 DF-04B AUG17/21 @ 10:30 Sampled By: J. SKILNICK on 21-SEP-21 @ 11:25 Matrix: DUSTFALL							
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000350		0.000086	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Interval			1	days		07-OCT-21	R5612583
Antimony (Sb)-Total	<0.0000029		0.0000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Arsenic (As)-Total	<0.0000029		0.0000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Barium (Ba)-Total	0.0000108		0.0000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Beryllium (Be)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Bismuth (Bi)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Boron (B)-Total	<0.00029		0.00029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cadmium (Cd)-Total	<0.0000014		0.0000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Calcium (Ca)-Total	0.00232		0.00057	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Chromium (Cr)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cobalt (Co)-Total	<0.0000029		0.0000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Copper (Cu)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lead (Pb)-Total	<0.0000014		0.0000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Iron (Fe)-Total	<0.00086		0.00086	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lithium (Li)-Total	<0.00014		0.00014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Magnesium (Mg)-Total	0.00068		0.00014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Manganese (Mn)-Total	0.0000696		0.0000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Molybdenum (Mo)-Total	<0.0000014		0.0000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Nickel (Ni)-Total	<0.000014		0.000014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Phosphorus (P)-Total	0.0021		0.0014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Potassium (K)-Total	0.0039		0.0014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Selenium (Se)-Total	<0.000029		0.000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silicon (Si)-Total	<0.0014		0.0014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silver (Ag)-Total	<0.00000029		0.00000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Sodium (Na)-Total	<0.0014		0.0014	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Strontium (Sr)-Total	0.0000064		0.0000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Thallium (Tl)-Total	<0.0000029		0.0000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Tin (Sn)-Total	<0.0000029		0.0000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Titanium (Ti)-Total	<0.00029		0.00029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Uranium (U)-Total	0.00000054		0.00000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Vanadium (V)-Total	<0.000029		0.000029	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Zinc (Zn)-Total	<0.000086		0.000086	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
L2643294-9 DF-05A AUG17/21 @ 10:00 Sampled By: J. SKILNICK on 21-SEP-21 @ 10:55 Matrix: DUSTFALL							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Fixed Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Volatile Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000254		0.000069	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Interval			1	days		07-OCT-21	R5612583
Antimony (Sb)-Total	<0.0000023		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Arsenic (As)-Total	<0.0000023		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Barium (Ba)-Total	0.0000094		0.0000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Beryllium (Be)-Total	<0.000012		0.000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Bismuth (Bi)-Total	<0.000012		0.000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Boron (B)-Total	<0.00023		0.00023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2643294-9 DF-05A AUG17/21 @ 10:00 Sampled By: J. SKILNICK on 21-SEP-21 @ 10:55 Matrix: DUSTFALL							
Total Metals in Dustfalls by ICPMS							
Cadmium (Cd)-Total	<0.0000012		0.0000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Calcium (Ca)-Total	0.00241		0.00046	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Chromium (Cr)-Total	<0.000012		0.000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cobalt (Co)-Total	<0.0000023		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Copper (Cu)-Total	<0.000023	DLB	0.000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lead (Pb)-Total	<0.0000012		0.0000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Iron (Fe)-Total	<0.00069		0.00069	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lithium (Li)-Total	<0.00012		0.00012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Magnesium (Mg)-Total	0.00056		0.00012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Manganese (Mn)-Total	0.0000433		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Molybdenum (Mo)-Total	<0.0000012		0.0000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Nickel (Ni)-Total	<0.000012		0.000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Phosphorus (P)-Total	<0.0012		0.0012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Potassium (K)-Total	0.0014		0.0012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Selenium (Se)-Total	<0.000023		0.000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silicon (Si)-Total	<0.0012		0.0012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silver (Ag)-Total	<0.00000023		0.0000002	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
			3				
Sodium (Na)-Total	<0.0012		0.0012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Strontium (Sr)-Total	0.0000069		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Thallium (Tl)-Total	<0.0000023		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Tin (Sn)-Total	<0.0000023		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Titanium (Ti)-Total	<0.00023		0.00023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Uranium (U)-Total	<0.00000023		0.0000002	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
			3				
Vanadium (V)-Total	<0.000023		0.000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Zinc (Zn)-Total	<0.000069		0.000069	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
L2643294-10 DF-05B AUG17/21 @ 10:00 Sampled By: J. SKILNICK on 21-SEP-21 @ 10:55 Matrix: DUSTFALL							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Fixed Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Volatile Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000240		0.000075	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Interval			1	days		07-OCT-21	R5612583
Antimony (Sb)-Total	<0.0000025		0.0000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Arsenic (As)-Total	<0.0000025		0.0000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Barium (Ba)-Total	0.0000107		0.0000013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Beryllium (Be)-Total	<0.000013		0.000013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Bismuth (Bi)-Total	<0.000013		0.000013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Boron (B)-Total	<0.00025		0.00025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cadmium (Cd)-Total	<0.0000013		0.0000013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Calcium (Ca)-Total	0.00224		0.00050	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Chromium (Cr)-Total	<0.000013		0.000013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cobalt (Co)-Total	<0.0000025		0.0000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Copper (Cu)-Total	<0.000025	DLB	0.000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lead (Pb)-Total	<0.0000013		0.0000013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Iron (Fe)-Total	<0.00075		0.00075	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lithium (Li)-Total	<0.00013		0.00013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2643294-10 DF-05B AUG17/21 @ 10:00 Sampled By: J. SKILNICK on 21-SEP-21 @ 10:55 Matrix: DUSTFALL							
Total Metals in Dustfalls by ICPMS							
Magnesium (Mg)-Total	0.00047		0.00013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Manganese (Mn)-Total	0.0000472		0.0000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Molybdenum (Mo)-Total	<0.0000013		0.0000013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Nickel (Ni)-Total	<0.000013		0.000013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Phosphorus (P)-Total	<0.0013		0.0013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Potassium (K)-Total	<0.0013		0.0013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Selenium (Se)-Total	<0.000025		0.000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silicon (Si)-Total	<0.0013		0.0013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silver (Ag)-Total	<0.00000025		0.00000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Sodium (Na)-Total	<0.0013		0.0013	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Strontium (Sr)-Total	0.0000050		0.0000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Thallium (Tl)-Total	<0.0000025		0.0000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Tin (Sn)-Total	<0.0000025		0.0000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Titanium (Ti)-Total	<0.00025		0.00025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Uranium (U)-Total	<0.00000025		0.00000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Vanadium (V)-Total	<0.000025		0.000025	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Zinc (Zn)-Total	<0.000075		0.000075	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
L2643294-11 DF-06A AUG17/21 @ 9:00 Sampled By: J. SKILNICK on 21-SEP-21 @ 08:25 Matrix: DUSTFALL							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Fixed Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Volatile Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000265		0.000068	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Interval			1	days		07-OCT-21	R5612583
Antimony (Sb)-Total	<0.0000023		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Arsenic (As)-Total	<0.0000023		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Barium (Ba)-Total	0.0000113		0.0000011	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Beryllium (Be)-Total	<0.000011		0.000011	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Bismuth (Bi)-Total	<0.000011		0.000011	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Boron (B)-Total	<0.00023		0.00023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cadmium (Cd)-Total	<0.0000011		0.0000011	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Calcium (Ca)-Total	0.00250		0.00045	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Chromium (Cr)-Total	<0.000011		0.000011	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cobalt (Co)-Total	<0.0000023		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Copper (Cu)-Total	<0.000011		0.000011	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lead (Pb)-Total	<0.0000011		0.0000011	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Iron (Fe)-Total	<0.00068		0.00068	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lithium (Li)-Total	<0.00011		0.00011	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Magnesium (Mg)-Total	0.00060		0.00011	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Manganese (Mn)-Total	0.0000501		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Molybdenum (Mo)-Total	<0.0000011		0.0000011	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Nickel (Ni)-Total	<0.000011		0.000011	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Phosphorus (P)-Total	0.0013		0.0011	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Potassium (K)-Total	0.0021		0.0011	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Selenium (Se)-Total	<0.000023		0.000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silicon (Si)-Total	<0.0011		0.0011	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2643294-11 DF-06A AUG17/21 @ 9:00 Sampled By: J. SKILNICK on 21-SEP-21 @ 08:25 Matrix: DUSTFALL							
Total Metals in Dustfalls by ICPMS							
Silver (Ag)-Total	<0.00000023		0.0000002	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
			3				
Sodium (Na)-Total	<0.0011		0.0011	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Strontium (Sr)-Total	0.0000055		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Thallium (Tl)-Total	<0.0000023		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Tin (Sn)-Total	<0.0000023		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Titanium (Ti)-Total	<0.00023		0.00023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Uranium (U)-Total	<0.00000023		0.0000002	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
			3				
Vanadium (V)-Total	<0.000023		0.000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Zinc (Zn)-Total	<0.000068		0.000068	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
L2643294-12 DF-06B AUG17/21 @ 9:00 Sampled By: J. SKILNICK on 21-SEP-21 @ 08:25 Matrix: DUSTFALL							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	0.12		0.10	mg/dm2.day		07-OCT-21	R5617699
Fixed Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Volatile Dustfall	<0.10		0.10	mg/dm2.day		07-OCT-21	R5617699
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000222		0.000069	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Interval			1	days		07-OCT-21	R5612583
Antimony (Sb)-Total	<0.0000023		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Arsenic (As)-Total	<0.0000023		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Barium (Ba)-Total	0.0000093		0.0000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Beryllium (Be)-Total	<0.000012		0.000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Bismuth (Bi)-Total	<0.000012		0.000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Boron (B)-Total	<0.00023		0.00023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cadmium (Cd)-Total	<0.0000012		0.0000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Calcium (Ca)-Total	0.00230		0.00046	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Chromium (Cr)-Total	<0.000012		0.000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Cobalt (Co)-Total	<0.0000023		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Copper (Cu)-Total	<0.000012		0.000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lead (Pb)-Total	<0.0000012		0.0000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Iron (Fe)-Total	<0.00069		0.00069	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Lithium (Li)-Total	<0.00012		0.00012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Magnesium (Mg)-Total	0.00067		0.00012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Manganese (Mn)-Total	0.0000883		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Molybdenum (Mo)-Total	<0.0000012		0.0000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Nickel (Ni)-Total	<0.000012		0.000012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Phosphorus (P)-Total	0.0026		0.0012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Potassium (K)-Total	0.0039		0.0012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Selenium (Se)-Total	<0.000023		0.000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silicon (Si)-Total	<0.0012		0.0012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Silver (Ag)-Total	<0.00000023		0.0000002	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
			3				
Sodium (Na)-Total	<0.0012		0.0012	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Strontium (Sr)-Total	0.0000052		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Thallium (Tl)-Total	<0.0000023		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Tin (Sn)-Total	<0.0000023		0.0000023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Titanium (Ti)-Total	<0.00023		0.00023	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473
Uranium (U)-Total	<0.00000023		0.0000002	mg/dm2.day	07-OCT-21	11-OCT-21	R5617473

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2643294-12 DF-06B AUG17/21 @ 9:00 Sampled By: J. SKILNICK on 21-SEP-21 @ 08:25 Matrix: DUSTFALL Total Metals in Dustfalls by ICPMS Vanadium (V)-Total Zinc (Zn)-Total	 <0.000023 <0.000069	 	 3 0.000023 0.000069	 mg/dm2.day mg/dm2.day	 07-OCT-21 07-OCT-21	 11-OCT-21 11-OCT-21	 R5617473 R5617473

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
DLB	Detection Limit Raised. Analyte detected at comparable level in Method Blank.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
DUSTFALLS-T.DM2-VA	Dustfall	Dustfalls Total+Fixed & Vol (mg/dm2.day)	BCMOE DUSTFALLS
Dustfall analysis is carried out in accordance with procedures published by the B.C. Ministry of Environment Laboratory.			
MET-DUST(DM2)-MS-VA	Dustfall	Total Metals in Dustfalls by ICPMS	EPA 6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2643294

Report Date: 14-OCT-21

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Client: Denison Mines Corp.
 230 22nd St. East, Suite 200
 Saskatoon SK S7K 0E9

Contact: Jenn Skilnick

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DUSTFALLS-T.DM2-VA		Dustfall						
Batch	R5617699							
WG3633486-2	LCS							
Total Dustfall			97.9		%		85-115	07-OCT-21
Fixed Dustfall			104.4		%		85-115	07-OCT-21
Volatile Dustfall			86.0		%		85-115	07-OCT-21
WG3633486-1	MB							
Total Dustfall			<0.10		mg/dm2.day		0.1	07-OCT-21
Fixed Dustfall			<0.10		mg/dm2.day		0.1	07-OCT-21
Volatile Dustfall			<0.10		mg/dm2.day		0.1	07-OCT-21
MET-DUST(DM2)-MS-VA		Dustfall						
Batch	R5617473							
WG3633001-3	DUP	L2643294-1						
Aluminum (Al)-Total		0.000299	0.000318		mg/dm2.day	6.5	20	11-OCT-21
Antimony (Sb)-Total		<0.0000028	<0.0000028	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Arsenic (As)-Total		<0.0000028	<0.0000028	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Barium (Ba)-Total		0.0000120	0.0000112		mg/dm2.day	6.2	20	11-OCT-21
Beryllium (Be)-Total		<0.000014	<0.000014	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Bismuth (Bi)-Total		<0.000014	<0.000014	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Boron (B)-Total		<0.00028	<0.00028	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Cadmium (Cd)-Total		<0.0000014	<0.0000014	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Calcium (Ca)-Total		0.00251	0.00237		mg/dm2.day	5.9	20	11-OCT-21
Chromium (Cr)-Total		<0.000014	<0.000014	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Cobalt (Co)-Total		<0.0000028	<0.0000028	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Copper (Cu)-Total		<0.000014	<0.000014	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Lead (Pb)-Total		<0.0000014	<0.0000014	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Iron (Fe)-Total		<0.00084	<0.00084	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Lithium (Li)-Total		<0.00014	<0.00014	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Magnesium (Mg)-Total		0.00063	0.00056		mg/dm2.day	11	20	11-OCT-21
Manganese (Mn)-Total		0.0000512	0.0000437		mg/dm2.day	16	20	11-OCT-21
Molybdenum (Mo)-Total		<0.0000014	<0.0000014	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Nickel (Ni)-Total		<0.000014	<0.000014	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Phosphorus (P)-Total		<0.0014	<0.0014	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Potassium (K)-Total		0.0017	0.0016		mg/dm2.day	7.9	20	11-OCT-21
Selenium (Se)-Total		<0.000028	<0.000028	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Silicon (Si)-Total		<0.0014	<0.0014	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Silver (Ag)-Total		<0.00000028	<0.0000002	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21



Quality Control Report

Workorder: L2643294

Report Date: 14-OCT-21

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DUST(DM2)-MS-VA								
	Dustfall							
Batch	R5617473							
WG3633001-3	DUP	L2643294-1						
Sodium (Na)-Total		<0.0014	<0.0014	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Strontium (Sr)-Total		0.0000058	0.0000058		mg/dm2.day	0.2	20	11-OCT-21
Thallium (Tl)-Total		<0.0000028	<0.0000028	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Tin (Sn)-Total		<0.0000028	<0.0000028	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Titanium (Ti)-Total		<0.00028	<0.00028	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Uranium (U)-Total		<0.00000028	<0.00000028	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Vanadium (V)-Total		<0.000028	<0.000028	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
Zinc (Zn)-Total		<0.000084	<0.000084	RPD-NA	mg/dm2.day	N/A	20	11-OCT-21
WG3633001-2	LCS							
Aluminum (Al)-Total			104.5		%		80-120	11-OCT-21
Antimony (Sb)-Total			108.9		%		80-120	11-OCT-21
Arsenic (As)-Total			99.4		%		80-120	11-OCT-21
Barium (Ba)-Total			97.8		%		80-120	11-OCT-21
Beryllium (Be)-Total			107.8		%		80-120	11-OCT-21
Bismuth (Bi)-Total			95.5		%		80-120	11-OCT-21
Boron (B)-Total			99.1		%		80-120	11-OCT-21
Cadmium (Cd)-Total			101.5		%		80-120	11-OCT-21
Calcium (Ca)-Total			106.7		%		80-120	11-OCT-21
Chromium (Cr)-Total			100.8		%		80-120	11-OCT-21
Cobalt (Co)-Total			100.0		%		80-120	11-OCT-21
Copper (Cu)-Total			101.4		%		80-120	11-OCT-21
Lead (Pb)-Total			105.0		%		80-120	11-OCT-21
Iron (Fe)-Total			105.2		%		80-120	11-OCT-21
Lithium (Li)-Total			107.0		%		80-120	11-OCT-21
Magnesium (Mg)-Total			99.1		%		80-120	11-OCT-21
Manganese (Mn)-Total			100.0		%		80-120	11-OCT-21
Molybdenum (Mo)-Total			106.1		%		80-120	11-OCT-21
Nickel (Ni)-Total			102.0		%		80-120	11-OCT-21
Phosphorus (P)-Total			102.1		%		80-120	11-OCT-21
Potassium (K)-Total			103.2		%		80-120	11-OCT-21
Selenium (Se)-Total			111.1		%		80-120	11-OCT-21
Silicon (Si)-Total			106.2		%		80-120	11-OCT-21
Silver (Ag)-Total			100.7		%		80-120	11-OCT-21
Sodium (Na)-Total			103.1		%		80-120	11-OCT-21



Quality Control Report

Workorder: L2643294

Report Date: 14-OCT-21

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DUST(DM2)-MS-VA		Dustfall						
Batch	R5617473							
WG3633001-2 LCS								
Strontium (Sr)-Total			111.9		%		80-120	11-OCT-21
Thallium (Tl)-Total			87.5		%		80-120	11-OCT-21
Tin (Sn)-Total			101.1		%		80-120	11-OCT-21
Titanium (Ti)-Total			96.5		%		80-120	11-OCT-21
Uranium (U)-Total			106.2		%		80-120	11-OCT-21
Vanadium (V)-Total			99.2		%		80-120	11-OCT-21
Zinc (Zn)-Total			106.8		%		80-120	11-OCT-21
WG3633001-1 MB								
Aluminum (Al)-Total			<0.000079		mg/dm2.day		0.000079	11-OCT-21
Antimony (Sb)-Total			<0.0000026		mg/dm2.day		0.0000026	11-OCT-21
Arsenic (As)-Total			<0.0000026		mg/dm2.day		0.0000026	11-OCT-21
Barium (Ba)-Total			<0.0000013		mg/dm2.day		0.0000013	11-OCT-21
Beryllium (Be)-Total			<0.000013		mg/dm2.day		0.000013	11-OCT-21
Bismuth (Bi)-Total			<0.000013		mg/dm2.day		0.000013	11-OCT-21
Boron (B)-Total			<0.00026		mg/dm2.day		0.00026	11-OCT-21
Cadmium (Cd)-Total			<0.0000013		mg/dm2.day		0.0000013	11-OCT-21
Calcium (Ca)-Total			<0.00052		mg/dm2.day		0.00052	11-OCT-21
Chromium (Cr)-Total			<0.000013		mg/dm2.day		0.000013	11-OCT-21
Cobalt (Co)-Total			<0.0000026		mg/dm2.day		0.0000026	11-OCT-21
Copper (Cu)-Total			0.000020	MB-LOR	mg/dm2.day		0.000013	11-OCT-21
Lead (Pb)-Total			<0.0000013		mg/dm2.day		0.0000013	11-OCT-21
Iron (Fe)-Total			<0.00079		mg/dm2.day		0.00079	11-OCT-21
Lithium (Li)-Total			<0.00013		mg/dm2.day		0.00013	11-OCT-21
Magnesium (Mg)-Total			<0.00013		mg/dm2.day		0.00013	11-OCT-21
Manganese (Mn)-Total			0.0000030	B	mg/dm2.day		0.0000026	11-OCT-21
Molybdenum (Mo)-Total			<0.0000013		mg/dm2.day		0.0000013	11-OCT-21
Nickel (Ni)-Total			<0.000013		mg/dm2.day		0.000013	11-OCT-21
Phosphorus (P)-Total			<0.0013		mg/dm2.day		0.0013	11-OCT-21
Potassium (K)-Total			<0.0013		mg/dm2.day		0.0013	11-OCT-21
Selenium (Se)-Total			<0.000026		mg/dm2.day		0.000026	11-OCT-21
Silicon (Si)-Total			<0.0013		mg/dm2.day		0.0013	11-OCT-21
Silver (Ag)-Total			<0.0000002		mg/dm2.day		0.00000026	11-OCT-21
Sodium (Na)-Total			<0.0013		mg/dm2.day		0.0013	11-OCT-21
Strontium (Sr)-Total			<0.0000026		mg/dm2.day		0.0000026	11-OCT-21



Quality Control Report

Workorder: L2643294

Report Date: 14-OCT-21

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DUST(DM2)-MS-VA	Dustfall							
Batch	R5617473							
WG3633001-1 MB								
Thallium (Tl)-Total			<0.0000026		mg/dm2.day		0.0000026	11-OCT-21
Tin (Sn)-Total			<0.0000026		mg/dm2.day		0.0000026	11-OCT-21
Titanium (Ti)-Total			<0.00026		mg/dm2.day		0.00026	11-OCT-21
Uranium (U)-Total			<0.0000002		mg/dm2.day		0.00000026	11-OCT-21
Vanadium (V)-Total			<0.000026		mg/dm2.day		0.000026	11-OCT-21
Zinc (Zn)-Total			<0.000079		mg/dm2.day		0.000079	11-OCT-21

Quality Control Report

Workorder: L2643294

Report Date: 14-OCT-21

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
B	Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Chain of Custody (COC) / Analytical Request Form



COC Number: 17 - 866339

L2643294-COFC

Page of

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To Contact and company name below will appear on the final report		Report Format / Distribution Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL EDD (DIGITAL) Quality Control (QC) Report with Report <input type="checkbox"/> YES NO <input type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked Select Distribution: <input checked="" type="checkbox"/> EMAIL MAIL <input type="checkbox"/> FAX			Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply) Regular [R] <input checked="" type="checkbox"/> Standard TAT if received by 3 pm - business days - no surcharges apply PRIORITY (Business Days) 4 day [P4-20%] <input type="checkbox"/> 3 day [P3-25%] <input type="checkbox"/> 2 day [P2-50%] <input type="checkbox"/> EMERGENCY 1 Business day [E - 100%] Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)]					
Company: Denison Mines Corp. Contact: Jenn Skilnick Phone: 306-281-8305 Company address below will appear on the final report		Email 1 or Fax: jskilnick@denisonmines.com Email 2: Email 3:			Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm For tests that can not be performed according to the service level selected, you will be contacted.					
Invoice To Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Copy of Invoice with Report <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Invoice Distribution Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: payables.saskatoon@denisonmines.com Email 2: dharris@denisonmines.com			Analysis Request Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below					
Project Information ALS Account # / Quote #: Q 84693 Job #: WRE-E0221097 SD:		Oil and Gas Required Fields (client use) AFE/Cost Center: PO# Major/Minor Code: Routing Code: Requisitioner: Location:			NUMBER OF CONTAINERS Total/Fix Vol SAMPLES ON HOLD SUSPECTED HAZARD (see Special Instructions)					
ALS Lab Work Order # (lab use only):		ALS Contact: J. Skilnick Sampler:								
ALS Sample # (lab use only)		Sample Identification and/or Coordinates (This description will appear on the report)			Date (dd-mmm-yy)		Time (hh:mm)		Sample Type	
DF-01A		Aug 17/21 @ 14:50 (start date/time)			21-09-21		10:45		dustfall	
DF-01B		Aug 17/21 @ 14:50			21-09-21		10:45			
DF-02A		Aug 17/21 @ 13:20			21-09-21		11:55			
DF-02B		Aug 17/21 @ 13:20			21-09-21		11:55			
DF-03A		Aug 17/21 @ 14:20			21-09-21		9:30			
DF-03B		Aug 17/21 @ 14:20			21-09-21		9:30			
DF-04A		Aug 17/21 @ 10:30			22-09-21		11:25			
DF-04B		Aug 17/21 @ 10:30			22-09-21		11:25			
DF-05A		Aug 17/21 @ 10:00			22-09-21		10:55			
DF-05B		Aug 17/21 @ 10:00			22-09-21		10:55			
DF-06A		Aug 17/21 @ 9:00			22-09-21		8:25			
DF-06B		Aug 17/21 @ 9:00			22-09-21		8:25			
Drinking Water (DW) Samples¹ (client use) Are samples taken from a Regulated DW System? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Are samples for human consumption/ use? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)			SAMPLE CONDITION AS RECEIVED (lab use only) Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/> Ice Packs <input type="checkbox"/> Ice Cubes <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/> Cooling Initiated <input type="checkbox"/> INITIAL COOLER TEMPERATURES °C: 5.6 FINAL COOLER TEMPERATURES °C:					
SHIPMENT RELEASE (client use) Released by: J. Skilnick Date:		INITIAL SHIPMENT RECEPTION (lab use only) Received by: [Signature] Date: 27-9-21			FINAL SHIPMENT RECEPTION (lab use only) Received by: [Signature] Date: 23 Sep 21					

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2019 FRONT

If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



Denison Mines Corp.
ATTN: Jennifer Skilnick
230 22nd St. East, Suite 200
Saskatoon SK S7K 0E9

Date Received: 25-OCT-21
Report Date: 09-NOV-21 14:55 (MT)
Version: FINAL

Client Phone: 306-652-8201

Certificate of Analysis

Lab Work Order #: L2655042
Project P.O. #: WRE-E0221091
Job Reference:
C of C Numbers:
Legal Site Desc:

Brian Morgan, B.Sc. Hons.
Client Services Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: #819-58th St E., Saskatoon, SK S7K 6X5 Canada | Phone: +1 306 668 8370 | Fax: +1 306 668 8383
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2655042-1 DF-01A 21-SEP-21 @1045							
Sampled By: J. Skilnick on 22-OCT-21 @ 08:35							
Matrix: Dustfall							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	1.88		0.10	mg/dm2.day		02-NOV-21	R5636015
Fixed Dustfall	0.22		0.10	mg/dm2.day		02-NOV-21	R5636015
Volatile Dustfall	1.66		0.10	mg/dm2.day		02-NOV-21	R5636015
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.00209		0.000051	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Interval			1	days		02-NOV-21	R5634144
Antimony (Sb)-Total	<0.0000017		0.0000017	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Arsenic (As)-Total	<0.0000017		0.0000017	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Barium (Ba)-Total	0.0000496		0.0000008	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			4				
Beryllium (Be)-Total	<0.0000084		0.0000084	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Bismuth (Bi)-Total	<0.0000084		0.0000084	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Boron (B)-Total	<0.00017		0.00017	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cadmium (Cd)-Total	<0.00000084		0.0000008	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			4				
Calcium (Ca)-Total	0.0107		0.00034	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Chromium (Cr)-Total	<0.0000084		0.0000084	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cobalt (Co)-Total	<0.0000017		0.0000017	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Copper (Cu)-Total	0.0000790		0.0000084	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lead (Pb)-Total	0.00000286		0.0000008	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			4				
Iron (Fe)-Total	0.00255		0.00051	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lithium (Li)-Total	<0.000084		0.000084	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Magnesium (Mg)-Total	0.00333		0.000084	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Manganese (Mn)-Total	0.000161		0.0000017	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Molybdenum (Mo)-Total	<0.00000084		0.0000008	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			4				
Nickel (Ni)-Total	<0.0000084		0.0000084	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Phosphorus (P)-Total	0.00165		0.00084	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Potassium (K)-Total	0.00262		0.00084	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Selenium (Se)-Total	<0.0000017		0.0000017	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silicon (Si)-Total	0.00473		0.00084	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silver (Ag)-Total	<0.00000051	DLB	0.0000005	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			1				
Sodium (Na)-Total	0.00279		0.00084	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Strontium (Sr)-Total	0.0000277		0.0000017	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Thallium (Tl)-Total	<0.0000017		0.0000017	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Tin (Sn)-Total	<0.0000017		0.0000017	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Titanium (Ti)-Total	<0.00017		0.00017	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Uranium (U)-Total	0.00000022		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			7				
Vanadium (V)-Total	<0.0000017		0.0000017	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Zinc (Zn)-Total	<0.000051		0.000051	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
L2655042-2 DF-01B 21-SEP-21 @1045							
Sampled By: J. Skilnick on 22-OCT-21 @ 08:35							
Matrix: Dustfall							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	0.18		0.10	mg/dm2.day		02-NOV-21	R5636015
Fixed Dustfall	0.11		0.10	mg/dm2.day		02-NOV-21	R5636015
Volatile Dustfall	<0.10		0.10	mg/dm2.day		02-NOV-21	R5636015
Total Metals in Dustfalls by ICPMS							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2655042-2 DF-01B 21-SEP-21 @1045							
Sampled By: J. Skilnick on 22-OCT-21 @ 08:35							
Matrix: Dustfall							
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.00164		0.000042	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Interval			1	days		02-NOV-21	R5634144
Antimony (Sb)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Arsenic (As)-Total	0.0000016		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Barium (Ba)-Total	0.0000420		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Beryllium (Be)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Bismuth (Bi)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Boron (B)-Total	<0.00014		0.00014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cadmium (Cd)-Total	<0.00000070		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Calcium (Ca)-Total	0.0103		0.00028	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Chromium (Cr)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cobalt (Co)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Copper (Cu)-Total	0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lead (Pb)-Total	0.00000182		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Iron (Fe)-Total	0.00196		0.00042	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lithium (Li)-Total	<0.000070		0.000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Magnesium (Mg)-Total	0.00325		0.000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Manganese (Mn)-Total	0.000147		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Molybdenum (Mo)-Total	<0.00000070		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Nickel (Ni)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Phosphorus (P)-Total	0.00133		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Potassium (K)-Total	0.00259		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Selenium (Se)-Total	<0.000014		0.000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silicon (Si)-Total	0.00343		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silver (Ag)-Total	<0.00000028	DLB	0.0000002	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			8				
Sodium (Na)-Total	0.00247		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Strontium (Sr)-Total	0.0000282		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Thallium (Tl)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Tin (Sn)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Titanium (Ti)-Total	<0.00014		0.00014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Uranium (U)-Total	0.00000014		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			4				
Vanadium (V)-Total	<0.000014		0.000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Zinc (Zn)-Total	<0.000042		0.000042	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
L2655042-3 DF-02A 21-SEP-21 @1155							
Sampled By: J. Skilnick on 22-OCT-21 @ 08:00							
Matrix: Dustfall							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	0.45		0.10	mg/dm2.day		02-NOV-21	R5636015
Fixed Dustfall	0.12		0.10	mg/dm2.day		02-NOV-21	R5636015
Volatile Dustfall	0.32		0.10	mg/dm2.day		02-NOV-21	R5636015
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.00124		0.000042	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Interval			1	days		02-NOV-21	R5634144
Antimony (Sb)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Arsenic (As)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Barium (Ba)-Total	0.0000497		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2655042-3 DF-02A 21-SEP-21 @1155 Sampled By: J. Skilnick on 22-OCT-21 @ 08:00 Matrix: Dustfall							
Total Metals in Dustfalls by ICPMS			0				
Beryllium (Be)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Bismuth (Bi)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Boron (B)-Total	<0.00014		0.00014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cadmium (Cd)-Total	<0.00000070		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Calcium (Ca)-Total	0.0157		0.00028	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Chromium (Cr)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cobalt (Co)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Copper (Cu)-Total	0.0000132		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lead (Pb)-Total	0.00000149		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Iron (Fe)-Total	0.00150		0.00042	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lithium (Li)-Total	<0.0000070		0.000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Magnesium (Mg)-Total	0.00421		0.000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Manganese (Mn)-Total	0.000249		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Molybdenum (Mo)-Total	<0.00000070		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Nickel (Ni)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Phosphorus (P)-Total	0.00772		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Potassium (K)-Total	0.00629		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Selenium (Se)-Total	<0.000014		0.000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silicon (Si)-Total	0.00277		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silver (Ag)-Total	<0.00000028	DLB	0.0000002	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			8				
Sodium (Na)-Total	0.00295		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Strontium (Sr)-Total	0.000111		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Thallium (Tl)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Tin (Sn)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Titanium (Ti)-Total	<0.00014		0.00014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Uranium (U)-Total	<0.00000014		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			4				
Vanadium (V)-Total	<0.000014		0.000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Zinc (Zn)-Total	0.000067		0.000042	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
L2655042-4 DF-02B 21-SEP-21 @1155 Sampled By: J. Skilnick on 22-OCT-21 @ 08:00 Matrix: Dustfall							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	0.30		0.10	mg/dm2.day		02-NOV-21	R5636015
Fixed Dustfall	0.15		0.10	mg/dm2.day		02-NOV-21	R5636015
Volatile Dustfall	0.16		0.10	mg/dm2.day		02-NOV-21	R5636015
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.00116		0.000038	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Interval			1	days		02-NOV-21	R5634144
Antimony (Sb)-Total	<0.0000013		0.0000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Arsenic (As)-Total	<0.0000013		0.0000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Barium (Ba)-Total	0.0000380		0.0000006	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			4				
Beryllium (Be)-Total	<0.0000064		0.0000064	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Bismuth (Bi)-Total	<0.0000064		0.0000064	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Boron (B)-Total	<0.00013		0.00013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cadmium (Cd)-Total	<0.00000064		0.0000006	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2655042-4 DF-02B 21-SEP-21 @1155 Sampled By: J. Skilnick on 22-OCT-21 @ 08:00 Matrix: Dustfall							
Total Metals in Dustfalls by ICPMS			4				
Calcium (Ca)-Total	0.0140		0.00026	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Chromium (Cr)-Total	<0.0000064		0.0000064	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cobalt (Co)-Total	<0.0000013		0.0000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Copper (Cu)-Total	0.0000267		0.0000064	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lead (Pb)-Total	0.00000272		0.0000006	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			4				
Iron (Fe)-Total	0.00144		0.00038	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lithium (Li)-Total	<0.000064		0.000064	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Magnesium (Mg)-Total	0.00389		0.000064	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Manganese (Mn)-Total	0.000111		0.0000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Molybdenum (Mo)-Total	<0.00000064		0.0000006	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			4				
Nickel (Ni)-Total	<0.0000064		0.0000064	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Phosphorus (P)-Total	0.00604		0.00064	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Potassium (K)-Total	0.00491		0.00064	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Selenium (Se)-Total	<0.000013		0.000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silicon (Si)-Total	0.00308		0.00064	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silver (Ag)-Total	<0.00000026	DLB	0.0000002	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			6				
Sodium (Na)-Total	0.00267		0.00064	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Strontium (Sr)-Total	0.0000728		0.0000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Thallium (Tl)-Total	<0.0000013		0.0000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Tin (Sn)-Total	<0.0000013		0.0000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Titanium (Ti)-Total	<0.00013		0.00013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Uranium (U)-Total	<0.00000013		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			3				
Vanadium (V)-Total	<0.000013		0.000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Zinc (Zn)-Total	0.000041		0.000038	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
L2655042-5 DF-03A 21-SEP-21 @930 Sampled By: J. Skilnick on 22-OCT-21 @ 08:15 Matrix: Dustfall							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	0.34		0.10	mg/dm2.day		02-NOV-21	R5636015
Fixed Dustfall	0.13		0.10	mg/dm2.day		02-NOV-21	R5636015
Volatile Dustfall	0.21		0.10	mg/dm2.day		02-NOV-21	R5636015
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000840		0.000047	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Interval			1	days		02-NOV-21	R5634144
Antimony (Sb)-Total	<0.0000016		0.0000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Arsenic (As)-Total	<0.0000016		0.0000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Barium (Ba)-Total	0.0000386		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			9				
Beryllium (Be)-Total	<0.0000079		0.0000079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Bismuth (Bi)-Total	<0.0000079		0.0000079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Boron (B)-Total	<0.00016		0.00016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cadmium (Cd)-Total	<0.00000079		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			9				
Calcium (Ca)-Total	0.0166		0.00031	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Chromium (Cr)-Total	<0.0000079		0.0000079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cobalt (Co)-Total	<0.0000016		0.0000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Copper (Cu)-Total	0.0000098		0.0000079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2655042-5 DF-03A 21-SEP-21 @930 Sampled By: J. Skilnick on 22-OCT-21 @ 08:15 Matrix: Dustfall							
Total Metals in Dustfalls by ICPMS							
Lead (Pb)-Total	0.00000146		0.0000007 9	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Iron (Fe)-Total	0.00113		0.00047	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lithium (Li)-Total	<0.000079		0.000079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Magnesium (Mg)-Total	0.00453		0.000079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Manganese (Mn)-Total	0.000107		0.0000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Molybdenum (Mo)-Total	<0.00000079		0.0000007 9	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Nickel (Ni)-Total	<0.0000079		0.0000079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Phosphorus (P)-Total	0.0107		0.00079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Potassium (K)-Total	0.00756		0.00079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Selenium (Se)-Total	<0.000016		0.000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silicon (Si)-Total	0.00165		0.00079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silver (Ag)-Total	<0.00000031	DLB	0.0000003 1	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Sodium (Na)-Total	0.00383		0.00079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Strontium (Sr)-Total	0.000127		0.0000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Thallium (Tl)-Total	<0.0000016		0.0000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Tin (Sn)-Total	<0.0000016		0.0000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Titanium (Ti)-Total	<0.00016		0.00016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Uranium (U)-Total	<0.00000016		0.0000001 6	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Vanadium (V)-Total	<0.000016		0.000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Zinc (Zn)-Total	<0.000047		0.000047	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
L2655042-6 DF-03B 21-SEP-21 @930 Sampled By: J. Skilnick on 22-OCT-21 @ 08:15 Matrix: Dustfall							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	0.46		0.10	mg/dm2.day		02-NOV-21	R5636015
Fixed Dustfall	0.13		0.10	mg/dm2.day		02-NOV-21	R5636015
Volatile Dustfall	0.33		0.10	mg/dm2.day		02-NOV-21	R5636015
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000802		0.000044	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Interval			1	days		02-NOV-21	R5634144
Antimony (Sb)-Total	<0.0000015		0.0000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Arsenic (As)-Total	<0.0000015		0.0000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Barium (Ba)-Total	0.0000428		0.0000007 3	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Beryllium (Be)-Total	<0.0000073		0.0000073	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Bismuth (Bi)-Total	<0.0000073		0.0000073	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Boron (B)-Total	<0.00015		0.00015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cadmium (Cd)-Total	<0.00000073		0.0000007 3	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Calcium (Ca)-Total	0.0188		0.00029	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Chromium (Cr)-Total	<0.0000073		0.0000073	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cobalt (Co)-Total	<0.0000015		0.0000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Copper (Cu)-Total	0.0000101		0.0000073	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lead (Pb)-Total	0.00000112		0.0000007 3	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Iron (Fe)-Total	0.00101		0.00044	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lithium (Li)-Total	<0.000073		0.000073	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Magnesium (Mg)-Total	0.00521		0.000073	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2655042-6 DF-03B 21-SEP-21 @930							
Sampled By: J. Skilnick on 22-OCT-21 @ 08:15							
Matrix: Dustfall							
Total Metals in Dustfalls by ICPMS							
Manganese (Mn)-Total	0.0000926		0.0000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Molybdenum (Mo)-Total	<0.00000073		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			3				
Nickel (Ni)-Total	<0.0000073		0.0000073	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Phosphorus (P)-Total	0.0159		0.00073	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Potassium (K)-Total	0.0107		0.00073	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Selenium (Se)-Total	<0.000015		0.000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silicon (Si)-Total	0.00194		0.00073	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silver (Ag)-Total	<0.00000015		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			5				
Sodium (Na)-Total	0.00487		0.00073	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Strontium (Sr)-Total	0.000199		0.0000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Thallium (Tl)-Total	<0.0000015		0.0000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Tin (Sn)-Total	<0.0000015		0.0000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Titanium (Ti)-Total	<0.00015		0.00015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Uranium (U)-Total	<0.00000015		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			5				
Vanadium (V)-Total	<0.000015		0.000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Zinc (Zn)-Total	<0.000044		0.000044	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
L2655042-7 DF-04A 21-SEP-21 @1125							
Sampled By: J. Skilnick on 22-OCT-21 @ 13:35							
Matrix: Dustfall							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	0.25		0.10	mg/dm2.day		02-NOV-21	R5636015
Fixed Dustfall	0.12		0.10	mg/dm2.day		02-NOV-21	R5636015
Volatile Dustfall	0.13		0.10	mg/dm2.day		02-NOV-21	R5636015
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.00140		0.000042	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Interval			1	days		02-NOV-21	R5634144
Antimony (Sb)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Arsenic (As)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Barium (Ba)-Total	0.0000335		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Beryllium (Be)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Bismuth (Bi)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Boron (B)-Total	<0.00014		0.00014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cadmium (Cd)-Total	<0.00000070		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Calcium (Ca)-Total	0.00992		0.00028	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Chromium (Cr)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cobalt (Co)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Copper (Cu)-Total	0.0000073		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lead (Pb)-Total	0.00000164		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Iron (Fe)-Total	0.00163		0.00042	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lithium (Li)-Total	<0.000070		0.000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Magnesium (Mg)-Total	0.00304		0.000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Manganese (Mn)-Total	0.0000999		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Molybdenum (Mo)-Total	<0.00000070		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Nickel (Ni)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Phosphorus (P)-Total	0.00383		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2655042-7 DF-04A 21-SEP-21 @1125 Sampled By: J. Skilnick on 22-OCT-21 @ 13:35 Matrix: Dustfall							
Total Metals in Dustfalls by ICPMS							
Potassium (K)-Total	0.00431		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Selenium (Se)-Total	<0.000014		0.000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silicon (Si)-Total	0.00390		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silver (Ag)-Total	<0.00000014		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			4				
Sodium (Na)-Total	0.00225		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Strontium (Sr)-Total	0.0000376		0.000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Thallium (Tl)-Total	<0.0000014		0.000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Tin (Sn)-Total	<0.0000014		0.000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Titanium (Ti)-Total	<0.00014		0.00014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Uranium (U)-Total	0.00000145		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			4				
Vanadium (V)-Total	<0.000014		0.000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Zinc (Zn)-Total	<0.000042		0.000042	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
L2655042-8 DF-04B 21-SEP-21 @1125 Sampled By: J. Skilnick on 22-OCT-21 @ 13:35 Matrix: Dustfall							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	0.23		0.10	mg/dm2.day		02-NOV-21	R5636015
Fixed Dustfall	<0.10		0.10	mg/dm2.day		02-NOV-21	R5636015
Volatile Dustfall	0.16		0.10	mg/dm2.day		02-NOV-21	R5636015
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000855		0.000045	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Interval			1	days		02-NOV-21	R5634144
Antimony (Sb)-Total	<0.0000015		0.0000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Arsenic (As)-Total	<0.0000015		0.0000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Barium (Ba)-Total	0.0000357		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			6				
Beryllium (Be)-Total	<0.0000076		0.0000076	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Bismuth (Bi)-Total	<0.0000076		0.0000076	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Boron (B)-Total	<0.00015		0.00015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cadmium (Cd)-Total	<0.00000076		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			6				
Calcium (Ca)-Total	0.00972		0.00030	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Chromium (Cr)-Total	<0.0000076		0.0000076	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cobalt (Co)-Total	<0.0000015		0.0000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Copper (Cu)-Total	<0.0000076		0.0000076	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lead (Pb)-Total	0.00000115		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			6				
Iron (Fe)-Total	0.00095		0.00045	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lithium (Li)-Total	<0.000076		0.000076	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Magnesium (Mg)-Total	0.00284		0.000076	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Manganese (Mn)-Total	0.0000766		0.0000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Molybdenum (Mo)-Total	<0.00000076		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			6				
Nickel (Ni)-Total	<0.0000076		0.0000076	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Phosphorus (P)-Total	0.00367		0.00076	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Potassium (K)-Total	0.00337		0.00076	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Selenium (Se)-Total	<0.000015		0.000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silicon (Si)-Total	0.00191		0.00076	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silver (Ag)-Total	<0.00000015		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			5				

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2655042-8 DF-04B 21-SEP-21 @1125 Sampled By: J. Skilnick on 22-OCT-21 @ 13:35 Matrix: Dustfall							
Total Metals in Dustfalls by ICPMS							
Sodium (Na)-Total	0.00212		0.00076	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Strontium (Sr)-Total	0.0000307		0.0000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Thallium (Tl)-Total	<0.0000015		0.0000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Tin (Sn)-Total	<0.0000015		0.0000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Titanium (Ti)-Total	<0.00015		0.00015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Uranium (U)-Total	0.00000030		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			5				
Vanadium (V)-Total	<0.000015		0.000015	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Zinc (Zn)-Total	<0.000045		0.000045	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
L2655042-9 DF-05A 21-SEP-21 @1055 Sampled By: J. Skilnick on 22-OCT-21 @ 13:15 Matrix: Dustfall							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	0.50		0.10	mg/dm2.day		02-NOV-21	R5636015
Fixed Dustfall	0.11		0.10	mg/dm2.day		02-NOV-21	R5636015
Volatile Dustfall	0.39		0.10	mg/dm2.day		02-NOV-21	R5636015
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.00114		0.000047	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Interval			1	days		02-NOV-21	R5634144
Antimony (Sb)-Total	<0.0000016		0.0000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Arsenic (As)-Total	<0.0000016		0.0000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Barium (Ba)-Total	0.0000350		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			9				
Beryllium (Be)-Total	<0.0000079		0.0000079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Bismuth (Bi)-Total	<0.0000079		0.0000079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Boron (B)-Total	<0.00016		0.00016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cadmium (Cd)-Total	<0.00000079		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			9				
Calcium (Ca)-Total	0.0146		0.00031	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Chromium (Cr)-Total	<0.0000079		0.0000079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cobalt (Co)-Total	<0.0000016		0.0000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Copper (Cu)-Total	0.0000185		0.0000079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lead (Pb)-Total	0.0000137		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			9				
Iron (Fe)-Total	0.00127		0.00047	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lithium (Li)-Total	<0.000079		0.000079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Magnesium (Mg)-Total	0.00468		0.000079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Manganese (Mn)-Total	0.000106		0.0000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Molybdenum (Mo)-Total	0.0000110		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			9				
Nickel (Ni)-Total	<0.0000079		0.0000079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Phosphorus (P)-Total	0.0129		0.00079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Potassium (K)-Total	0.0117		0.00079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Selenium (Se)-Total	<0.000016		0.000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silicon (Si)-Total	0.00253		0.00079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silver (Ag)-Total	<0.00000016		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			6				
Sodium (Na)-Total	0.00452		0.00079	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Strontium (Sr)-Total	0.000104		0.0000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Thallium (Tl)-Total	<0.0000016		0.0000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Tin (Sn)-Total	<0.0000016		0.0000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Titanium (Ti)-Total	<0.00016		0.00016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2655042-9 DF-05A 21-SEP-21 @1055 Sampled By: J. Skilnick on 22-OCT-21 @ 13:15 Matrix: Dustfall							
Total Metals in Dustfalls by ICPMS							
Uranium (U)-Total	<0.00000016		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			6				
Vanadium (V)-Total	<0.000016		0.000016	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Zinc (Zn)-Total	<0.000047		0.000047	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
L2655042-10 DF-05B 21-SEP-21 @1055 Sampled By: J. Skilnick on 22-OCT-21 @ 13:15 Matrix: Dustfall							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	0.31		0.10	mg/dm2.day		02-NOV-21	R5636015
Fixed Dustfall	0.11		0.10	mg/dm2.day		02-NOV-21	R5636015
Volatile Dustfall	0.20		0.10	mg/dm2.day		02-NOV-21	R5636015
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000842		0.000042	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Interval			1	days		02-NOV-21	R5634144
Antimony (Sb)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Arsenic (As)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Barium (Ba)-Total	0.0000386		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Beryllium (Be)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Bismuth (Bi)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Boron (B)-Total	<0.00014		0.00014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cadmium (Cd)-Total	<0.00000070		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Calcium (Ca)-Total	0.0116		0.00028	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Chromium (Cr)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cobalt (Co)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Copper (Cu)-Total	0.0000224		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lead (Pb)-Total	0.00000159		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Iron (Fe)-Total	0.00098		0.00042	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lithium (Li)-Total	<0.000070		0.000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Magnesium (Mg)-Total	0.00374		0.000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Manganese (Mn)-Total	0.000134		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Molybdenum (Mo)-Total	<0.00000070		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Nickel (Ni)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Phosphorus (P)-Total	0.00727		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Potassium (K)-Total	0.00792		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Selenium (Se)-Total	<0.000014		0.000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silicon (Si)-Total	0.00188		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silver (Ag)-Total	<0.00000014		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			4				
Sodium (Na)-Total	0.00409		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Strontium (Sr)-Total	0.0000494		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Thallium (Tl)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Tin (Sn)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Titanium (Ti)-Total	<0.00014		0.00014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Uranium (U)-Total	<0.00000014		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			4				
Vanadium (V)-Total	<0.000014		0.000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Zinc (Zn)-Total	0.000046		0.000042	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2655042-11 DF-06A 21-SEP-21 @825							
Sampled By: J. Skilnick on 22-OCT-21 @ 10:05							
Matrix: Dustfall							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	0.21		0.10	mg/dm2.day		02-NOV-21	R5636015
Fixed Dustfall	<0.10		0.10	mg/dm2.day		02-NOV-21	R5636015
Volatile Dustfall	0.12		0.10	mg/dm2.day		02-NOV-21	R5636015
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000904		0.000040	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Interval			1	days		02-NOV-21	R5634144
Antimony (Sb)-Total	<0.0000013		0.0000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Arsenic (As)-Total	<0.0000013		0.0000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Barium (Ba)-Total	0.0000478		0.0000006	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			7				
Beryllium (Be)-Total	<0.0000067		0.0000067	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Bismuth (Bi)-Total	<0.0000067		0.0000067	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Boron (B)-Total	<0.00013		0.00013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cadmium (Cd)-Total	<0.00000067		0.0000006	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			7				
Calcium (Ca)-Total	0.00898		0.00027	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Chromium (Cr)-Total	<0.0000067		0.0000067	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cobalt (Co)-Total	<0.0000013		0.0000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Copper (Cu)-Total	0.0000067		0.0000067	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lead (Pb)-Total	0.00000130		0.0000006	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			7				
Iron (Fe)-Total	0.00126		0.00040	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lithium (Li)-Total	<0.000067		0.000067	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Magnesium (Mg)-Total	0.00274		0.000067	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Manganese (Mn)-Total	0.0000886		0.0000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Molybdenum (Mo)-Total	<0.00000067		0.0000006	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			7				
Nickel (Ni)-Total	<0.0000067		0.0000067	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Phosphorus (P)-Total	0.00314		0.00067	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Potassium (K)-Total	0.00359		0.00067	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Selenium (Se)-Total	<0.000013		0.000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silicon (Si)-Total	0.00213		0.00067	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silver (Ag)-Total	<0.00000013		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			3				
Sodium (Na)-Total	0.00243		0.00067	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Strontium (Sr)-Total	0.0000219		0.0000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Thallium (Tl)-Total	<0.0000013		0.0000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Tin (Sn)-Total	<0.0000013		0.0000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Titanium (Ti)-Total	<0.00013		0.00013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Uranium (U)-Total	0.00000015		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			3				
Vanadium (V)-Total	<0.000013		0.000013	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Zinc (Zn)-Total	<0.000040		0.000040	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
L2655042-12 DF-06B 21-SEP-21 @825							
Sampled By: J. Skilnick on 22-OCT-21 @ 10:05							
Matrix: Dustfall							
Dustfalls Total+Fixed & Vol (mg/dm2.day)							
Total Dustfall	0.16		0.10	mg/dm2.day		02-NOV-21	R5636015
Fixed Dustfall	<0.10		0.10	mg/dm2.day		02-NOV-21	R5636015
Volatile Dustfall	0.12		0.10	mg/dm2.day		02-NOV-21	R5636015
Total Metals in Dustfalls by ICPMS							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2655042-12 DF-06B 21-SEP-21 @825							
Sampled By: J. Skilnick on 22-OCT-21 @ 10:05							
Matrix: Dustfall							
Total Metals in Dustfalls by ICPMS							
Aluminum (Al)-Total	0.000691		0.000042	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Interval			1	days		02-NOV-21	R5634144
Antimony (Sb)-Total	0.0000021		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Arsenic (As)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Barium (Ba)-Total	0.0000286		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Beryllium (Be)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Bismuth (Bi)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Boron (B)-Total	<0.00014		0.00014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cadmium (Cd)-Total	<0.00000070		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Calcium (Ca)-Total	0.00868		0.00028	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Chromium (Cr)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Cobalt (Co)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Copper (Cu)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lead (Pb)-Total	0.00000108		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Iron (Fe)-Total	0.00090		0.00042	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Lithium (Li)-Total	<0.000070		0.000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Magnesium (Mg)-Total	0.00268		0.000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Manganese (Mn)-Total	0.0000747		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Molybdenum (Mo)-Total	<0.00000070		0.0000007	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			0				
Nickel (Ni)-Total	<0.0000070		0.0000070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Phosphorus (P)-Total	0.00297		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Potassium (K)-Total	0.00372		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Selenium (Se)-Total	<0.000014		0.000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silicon (Si)-Total	0.00159		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Silver (Ag)-Total	<0.00000014		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			4				
Sodium (Na)-Total	0.00228		0.00070	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Strontium (Sr)-Total	0.0000212		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Thallium (Tl)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Tin (Sn)-Total	<0.0000014		0.0000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Titanium (Ti)-Total	<0.00014		0.00014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Uranium (U)-Total	<0.00000014		0.0000001	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
			4				
Vanadium (V)-Total	<0.000014		0.000014	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335
Zinc (Zn)-Total	<0.000042		0.000042	mg/dm2.day	02-NOV-21	02-NOV-21	R5638335

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
DLB	Detection Limit Raised. Analyte detected at comparable level in Method Blank.
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
DUSTFALLS-T.DM2-VA	Dustfall	Dustfalls Total+Fixed & Vol (mg/dm ² .day)	BCMOE DUSTFALLS
Dustfall analysis is carried out in accordance with procedures published by the B.C. Ministry of Environment Laboratory.			
MET-DUST(DM2)-MS-VA	Dustfall	Total Metals in Dustfalls by ICPMS	EPA 6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

*mg/kg - milligrams per kilogram based on dry weight of sample
 mg/kg wwt - milligrams per kilogram based on wet weight of sample
 mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
 mg/L - unit of concentration based on volume, parts per million.
 < - Less than.*

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2655042

Report Date: 09-NOV-21

Page 1 of 5

Client: Denison Mines Corp.
 230 22nd St. East, Suite 200
 Saskatoon SK S7K 0E9

Contact: Jennifer Skilnick

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
DUSTFALLS-T.DM2-VA								
	Dustfall							
Batch	R5636015							
WG3650506-2	LCS							
Total Dustfall			100.6		%		85-115	02-NOV-21
Fixed Dustfall			106.0		%		85-115	02-NOV-21
Volatile Dustfall			90.9		%		85-115	02-NOV-21
WG3650506-1	MB							
Total Dustfall			<0.10		mg/dm2.day		0.1	02-NOV-21
Fixed Dustfall			<0.10		mg/dm2.day		0.1	02-NOV-21
Volatile Dustfall			<0.10		mg/dm2.day		0.1	02-NOV-21
MET-DUST(DM2)-MS-VA								
	Dustfall							
Batch	R5638335							
WG3650068-3	DUP	L2655042-1						
Aluminum (Al)-Total		0.00209	0.00226		mg/dm2.day	8.0	20	02-NOV-21
Antimony (Sb)-Total		<0.0000017	<0.0000017	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21
Arsenic (As)-Total		<0.0000017	0.0000018	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21
Barium (Ba)-Total		0.0000496	0.0000490		mg/dm2.day	1.1	20	02-NOV-21
Beryllium (Be)-Total		<0.0000084	<0.0000084	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21
Bismuth (Bi)-Total		<0.0000084	<0.0000084	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21
Boron (B)-Total		<0.00017	<0.00017	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21
Cadmium (Cd)-Total		<0.00000084	<0.0000008	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21
Calcium (Ca)-Total		0.0107	0.0108		mg/dm2.day	0.7	20	02-NOV-21
Chromium (Cr)-Total		<0.0000084	<0.0000084	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21
Cobalt (Co)-Total		<0.0000017	<0.0000017	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21
Copper (Cu)-Total		0.0000790	0.0000113	DUP-H	mg/dm2.day	0.000067	0.0000168	02-NOV-21
Lead (Pb)-Total		0.00000286	0.00000278		mg/dm2.day	3.0	20	02-NOV-21
Iron (Fe)-Total		0.00255	0.00265		mg/dm2.day	3.9	20	02-NOV-21
Lithium (Li)-Total		<0.000084	<0.000084	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21
Magnesium (Mg)-Total		0.00333	0.00322		mg/dm2.day	3.4	20	02-NOV-21
Manganese (Mn)-Total		0.000161	0.000163		mg/dm2.day	1.2	20	02-NOV-21
Molybdenum (Mo)-Total		<0.00000084	<0.0000008	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21
Nickel (Ni)-Total		<0.0000084	<0.0000084	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21
Phosphorus (P)-Total		0.00165	0.00185		mg/dm2.day	12	20	02-NOV-21
Potassium (K)-Total		0.00262	0.00247		mg/dm2.day	5.9	20	02-NOV-21
Selenium (Se)-Total		<0.000017	<0.000017	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21
Silicon (Si)-Total		0.00473	0.00504		mg/dm2.day	6.4	20	02-NOV-21
Silver (Ag)-Total		<0.00000051	<0.0000005	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21



Quality Control Report

Workorder: L2655042

Report Date: 09-NOV-21

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DUST(DM2)-MS-VA								
	Dustfall							
Batch	R5638335							
WG3650068-3	DUP	L2655042-1						
Sodium (Na)-Total		0.00279	0.00264		mg/dm2.day	5.6	20	02-NOV-21
Strontium (Sr)-Total		0.0000277	0.0000267		mg/dm2.day	3.8	20	02-NOV-21
Thallium (Tl)-Total		<0.0000017	<0.0000017	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21
Tin (Sn)-Total		<0.0000017	<0.0000017	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21
Titanium (Ti)-Total		<0.00017	<0.00017	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21
Uranium (U)-Total		0.00000022	0.00000021		mg/dm2.day	6.4	20	02-NOV-21
Vanadium (V)-Total		<0.000017	<0.000017	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21
Zinc (Zn)-Total		<0.000051	<0.000051	RPD-NA	mg/dm2.day	N/A	20	02-NOV-21
WG3650068-2	LCS							
Aluminum (Al)-Total			105.5		%		80-120	02-NOV-21
Antimony (Sb)-Total			109.7		%		80-120	02-NOV-21
Arsenic (As)-Total			102.5		%		80-120	02-NOV-21
Barium (Ba)-Total			105.4		%		80-120	02-NOV-21
Beryllium (Be)-Total			103.7		%		80-120	02-NOV-21
Bismuth (Bi)-Total			103.4		%		80-120	02-NOV-21
Boron (B)-Total			96.2		%		80-120	02-NOV-21
Cadmium (Cd)-Total			102.8		%		80-120	02-NOV-21
Calcium (Ca)-Total			105.9		%		80-120	02-NOV-21
Chromium (Cr)-Total			103.0		%		80-120	02-NOV-21
Cobalt (Co)-Total			101.3		%		80-120	02-NOV-21
Copper (Cu)-Total			100.2		%		80-120	02-NOV-21
Lead (Pb)-Total			101.4		%		80-120	02-NOV-21
Iron (Fe)-Total			106.5		%		80-120	02-NOV-21
Lithium (Li)-Total			107.1		%		80-120	02-NOV-21
Magnesium (Mg)-Total			100.7		%		80-120	02-NOV-21
Manganese (Mn)-Total			99.2		%		80-120	02-NOV-21
Molybdenum (Mo)-Total			103.7		%		80-120	02-NOV-21
Nickel (Ni)-Total			101.6		%		80-120	02-NOV-21
Phosphorus (P)-Total			92.0		%		80-120	02-NOV-21
Potassium (K)-Total			102.2		%		80-120	02-NOV-21
Selenium (Se)-Total			110.1		%		80-120	02-NOV-21
Silicon (Si)-Total			106.8		%		80-120	02-NOV-21
Silver (Ag)-Total			92.8		%		80-120	02-NOV-21
Sodium (Na)-Total			102.9		%		80-120	02-NOV-21



Quality Control Report

Workorder: L2655042

Report Date: 09-NOV-21

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DUST(DM2)-MS-VA		Dustfall						
Batch	R5638335							
WG3650068-2 LCS								
Strontium (Sr)-Total			103.4		%		80-120	02-NOV-21
Thallium (Tl)-Total			101.1		%		80-120	02-NOV-21
Tin (Sn)-Total			102.6		%		80-120	02-NOV-21
Titanium (Ti)-Total			91.5		%		80-120	02-NOV-21
Uranium (U)-Total			103.1		%		80-120	02-NOV-21
Vanadium (V)-Total			105.3		%		80-120	02-NOV-21
Zinc (Zn)-Total			102.4		%		80-120	02-NOV-21
WG3650068-1 MB								
Aluminum (Al)-Total			<0.000079		mg/dm2.day		0.000079	02-NOV-21
Antimony (Sb)-Total			<0.0000026		mg/dm2.day		0.0000026	02-NOV-21
Arsenic (As)-Total			<0.0000026		mg/dm2.day		0.0000026	02-NOV-21
Barium (Ba)-Total			<0.0000013		mg/dm2.day		0.0000013	02-NOV-21
Beryllium (Be)-Total			<0.000013		mg/dm2.day		0.000013	02-NOV-21
Bismuth (Bi)-Total			<0.000013		mg/dm2.day		0.000013	02-NOV-21
Boron (B)-Total			<0.00026		mg/dm2.day		0.00026	02-NOV-21
Cadmium (Cd)-Total			<0.0000013		mg/dm2.day		0.0000013	02-NOV-21
Calcium (Ca)-Total			<0.00052		mg/dm2.day		0.00052	02-NOV-21
Chromium (Cr)-Total			<0.000013		mg/dm2.day		0.000013	02-NOV-21
Cobalt (Co)-Total			<0.0000026		mg/dm2.day		0.0000026	02-NOV-21
Copper (Cu)-Total			<0.000013		mg/dm2.day		0.000013	02-NOV-21
Lead (Pb)-Total			<0.0000013		mg/dm2.day		0.0000013	02-NOV-21
Iron (Fe)-Total			<0.00079		mg/dm2.day		0.00079	02-NOV-21
Lithium (Li)-Total			<0.00013		mg/dm2.day		0.00013	02-NOV-21
Magnesium (Mg)-Total			<0.00013		mg/dm2.day		0.00013	02-NOV-21
Manganese (Mn)-Total			<0.0000026		mg/dm2.day		0.0000026	02-NOV-21
Molybdenum (Mo)-Total			<0.0000013		mg/dm2.day		0.0000013	02-NOV-21
Nickel (Ni)-Total			<0.000013		mg/dm2.day		0.000013	02-NOV-21
Phosphorus (P)-Total			<0.0013		mg/dm2.day		0.0013	02-NOV-21
Potassium (K)-Total			<0.0013		mg/dm2.day		0.0013	02-NOV-21
Selenium (Se)-Total			<0.000026		mg/dm2.day		0.000026	02-NOV-21
Silicon (Si)-Total			<0.0013		mg/dm2.day		0.0013	02-NOV-21
Silver (Ag)-Total			0.00000063	MB-LOR	mg/dm2.day		0.00000026	02-NOV-21
Sodium (Na)-Total			<0.0013		mg/dm2.day		0.0013	02-NOV-21
Strontium (Sr)-Total			<0.0000026		mg/dm2.day		0.0000026	02-NOV-21



Quality Control Report

Workorder: L2655042

Report Date: 09-NOV-21

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DUST(DM2)-MS-VA	Dustfall							
Batch	R5638335							
WG3650068-1	MB							
Thallium (Tl)-Total			<0.0000026		mg/dm2.day		0.0000026	02-NOV-21
Tin (Sn)-Total			<0.0000026		mg/dm2.day		0.0000026	02-NOV-21
Titanium (Ti)-Total			<0.00026		mg/dm2.day		0.00026	02-NOV-21
Uranium (U)-Total			<0.0000002		mg/dm2.day		0.00000026	02-NOV-21
Vanadium (V)-Total			<0.000026		mg/dm2.day		0.000026	02-NOV-21
Zinc (Zn)-Total			<0.000079		mg/dm2.day		0.000079	02-NOV-21

Quality Control Report

Workorder: L2655042

Report Date: 09-NOV-21

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Chain of Custody (COC) / Analytical Request Form



COC Number: 17 - 866338

L2655042-COFC

Page of

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To Contact and company name below will appear on the final report		Report Format / Distribution			Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)																																																																																																																																						
Company: Denison Mines Corp.		Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)			Regular [R] <input checked="" type="checkbox"/> Standard TAT if received by 3 pm - business days - no surcharges apply																																																																																																																																						
Contact: Jennifer Skilnick		Quality Control (QC) Report with Report <input type="checkbox"/> YES <input type="checkbox"/> NO			<table border="1"> <tr> <td rowspan="3">PRIORITY (Business Days)</td> <td>4 day [P4-20%]</td> <td><input type="checkbox"/></td> <td rowspan="3">EMERGENCY</td> <td>1 Business day [E - 100%]</td> <td><input type="checkbox"/></td> </tr> <tr> <td>3 day [P3-25%]</td> <td><input type="checkbox"/></td> <td>Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)]</td> <td><input type="checkbox"/></td> </tr> <tr> <td>2 day [P2-50%]</td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> </table>												PRIORITY (Business Days)	4 day [P4-20%]	<input type="checkbox"/>	EMERGENCY	1 Business day [E - 100%]	<input type="checkbox"/>	3 day [P3-25%]	<input type="checkbox"/>	Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)]	<input type="checkbox"/>	2 day [P2-50%]	<input type="checkbox"/>																																																																																																															
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Phone: 306-281-8305		<input type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked			Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm																																																																																																																																						
Company address below will appear on the final report		Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			For tests that can not be performed according to the service level selected, you will be contacted.																																																																																																																																						
Street: 230 22nd St. East, Suite 200		Email 1 or Fax: jkskilnick@denisonmines.com			Analysis Request																																																																																																																																						
City/Province: Saskatoon, SK		Email 2: jswitzer@denisonmines.com			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																																																																																																																																						
Postal Code: S7K 0E9		Email 3:			<table border="1"> <tr> <td rowspan="10">NUMBER OF CONTAINERS</td> <td rowspan="10">Total Fixed & Vol</td> <td rowspan="10">Total Metals</td> <td colspan="12"></td> </tr> <tr><td colspan="12"></td></tr> <tr><td colspan="12"></td></tr> <tr><td colspan="12"></td></tr> <tr><td colspan="12"></td></tr> <tr><td colspan="12"></td></tr> <tr><td colspan="12"></td></tr> <tr><td colspan="12"></td></tr> <tr><td colspan="12"></td></tr> <tr><td colspan="12"></td></tr> </table>												NUMBER OF CONTAINERS	Total Fixed & Vol	Total Metals																																																																																																																								
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Invoice To		Invoice Distribution			<table border="1"> <tr> <td colspan="2">Same as Report To</td> <td><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</td> <td colspan="2">Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX</td> <td colspan="12" rowspan="10"> <table border="1"> <tr> <td colspan="12">SAMPLES ON HOLD</td> </tr> <tr> <td colspan="12">SUSPECTED HAZARD (see Special Instructions)</td> </tr> </table> </td> </tr> <tr> <td colspan="2">Copy of Invoice with Report</td> <td><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</td> <td colspan="2">Email 1 or Fax: payables.saskatoon@denisonmines.com</td> </tr> <tr> <td colspan="2">Company: Denison Mines Corp.</td> <td colspan="2">Email 2: dharris@denisonmines.com</td> </tr> <tr> <td colspan="2">Contact: Dana Harris</td> <td colspan="2">Project Information</td> </tr> <tr> <td colspan="2">ALS Account # / Quote #: 084693</td> <td colspan="2">Oil and Gas Required Fields (client use)</td> </tr> <tr> <td colspan="2">Job #:</td> <td colspan="2">AFE/Cost Center:</td> </tr> <tr> <td colspan="2">PO / AFE: WRE-E0221091</td> <td colspan="2">Major/Minor Code:</td> </tr> <tr> <td colspan="2">LSD:</td> <td colspan="2">Routing Code:</td> </tr> <tr> <td colspan="2">ALS Lab Work Order # (lab use only):</td> <td colspan="2">Location:</td> </tr> <tr> <td colspan="2">ALS Contact:</td> <td colspan="2">Sampler: J. SKILNICK</td> </tr> </table>												Same as Report To		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX		<table border="1"> <tr> <td colspan="12">SAMPLES ON HOLD</td> </tr> <tr> <td colspan="12">SUSPECTED HAZARD (see Special Instructions)</td> </tr> </table>												SAMPLES ON HOLD												SUSPECTED HAZARD (see Special Instructions)												Copy of Invoice with Report		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Email 1 or Fax: payables.saskatoon@denisonmines.com		Company: Denison Mines Corp.		Email 2: dharris@denisonmines.com		Contact: Dana Harris		Project Information		ALS Account # / Quote #: 084693		Oil and Gas Required Fields (client use)		Job #:		AFE/Cost Center:		PO / AFE: WRE-E0221091		Major/Minor Code:		LSD:		Routing Code:		ALS Lab Work Order # (lab use only):		Location:		ALS Contact:		Sampler: J. SKILNICK																																														
Same as Report To		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX														<table border="1"> <tr> <td colspan="12">SAMPLES ON HOLD</td> </tr> <tr> <td colspan="12">SUSPECTED HAZARD (see Special Instructions)</td> </tr> </table>																	SAMPLES ON HOLD												SUSPECTED HAZARD (see Special Instructions)																																																																																													
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Copy of Invoice with Report		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Email 1 or Fax: payables.saskatoon@denisonmines.com																																																																																																																																								
Company: Denison Mines Corp.		Email 2: dharris@denisonmines.com																																																																																																																																									
Contact: Dana Harris		Project Information																																																																																																																																									
ALS Account # / Quote #: 084693		Oil and Gas Required Fields (client use)																																																																																																																																									
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ALS Contact:		Sampler: J. SKILNICK																																																																																																																																									
ALS Sample # (lab use only)		Sample Identification and/or Coordinates (This description will appear on the report)			Date (dd-mmm-yy)		Time (hh:mm)		Sample Type																																																																																																																																		
		DF-01A 21-Sept-21@1045			22-Oct-21		8:35		dustfall																																																																																																																																		
		DF-01B 21-Sept-21@1045			22-Oct-21		8:35																																																																																																																																				
		DF-02A 21-Sept-21@1155			22-Oct-21		8:00																																																																																																																																				
		DF-02B 21-Sept-21@1155			22-Oct-21		8:00																																																																																																																																				
		DF-03A 21-Sept-21@930			22-Oct-21		8:15																																																																																																																																				
		DF-03B 21-Sept-21@930			22-Oct-21		8:15																																																																																																																																				
		DF-04A 21-Sept-21@1125			22-Oct-21		11:35																																																																																																																																				
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		DF-06A 21-Sept-21@825			22-Oct-21		10:05																																																																																																																																				
		DF-06B 21-Sept-21@825			22-Oct-21		10:05																																																																																																																																				
Drinking Water (DW) Samples¹ (client use)		Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)										SAMPLE CONDITION AS RECEIVED (lab use only)																																																																																																																															
Are samples taken from a Regulated DW System? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO												Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>																																																																																																																															
Are samples for human consumption/ use? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO												Ice Packs <input type="checkbox"/> Ice Cubes <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>																																																																																																																															
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SHIPMENT RELEASE (client use)				INITIAL SHIPMENT RECEPTION (lab use only)				FINAL SHIPMENT RECEPTION (lab use only)																																																																																																																																			
Released by: [Signature]		Date:		Received by: [Signature]		Date: 25 Oct 21		Received by: [Signature]		Date: 25 Oct 21		Received by: [Signature]		Date: 10:30																																																																																																																													

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY

YELLOW - CLIENT COPY

JUNE 2018 FRONT

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

BV Labs Job Number: C062979
Report Date: 2020/09/09

Denison Mines Corp.
Client Project #: DENISON MINES
Site Location: Denison Mines
Your P.O. #: WRE_E0220051
Sampler Initials: ME

RESULTS OF CHEMICAL ANALYSES OF AIR

BV Labs ID		YJ4049	YJ4050	YJ4051	YJ4052		
Sampling Date		2020-07-25 20:10	2020-07-25 20:10	2020-08-03 16:15	2020-08-03 16:15		
	UNITS	PC-01A	PC-01B	PC-02A	PC-02B	RDL	QC Batch
Passive Monitoring							
Calculated NO2	ppb	<0.1	<0.1	<0.1	<0.1	0.1	9985531
Calculated SO2	ppb	0.1	0.1	<0.1	<0.1	0.1	9985149

RDL = Reportable Detection Limit

Results relate only to the items tested.

GENERAL COMMENTS

Results relate only to the items tested.

Report Date: 2020/09/09

Denison Mines Corp.
Attention: DANA HARRIS
Client Project #: DENISON MINES
Your P.O. #: WRE_E0220051
Site Location: Denison Mines

Quality Assurance Report
BV Labs Job Number: C062979

QA/QC Bat Init	QC Type	Parameter	Date Analy Value	Recovery	UNITS	QC Limits
9985149	OZ	Spiked Blank	Calculated SO2	101	%	90 - 110
9985149	OZ	Method Blank	Calculated SO2	<0.1	ppb	
9985531	YL6	Spiked Blank	Calculated NO2	99	%	90 - 110
9985531	YL6	Method Blank	Calculated NO2	<0.1	ppb	

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

BV Labs Job Number: C074134
Report Date: 2020/10/20

Denison Mines Corp.
Client Project #: DENISON MINES
Site Location: Denison Mines
Your P.O. #: WRE_E0220075
Sampler Initials: MT

RESULTS OF CHEMICAL ANALYSES OF AIR

BV Labs ID		YP8078	YP8079	YP8080	YP8081		
Sampling Date		2020-08-28 10:45	2020-08-28 10:45	2020-08-28 15:15	2020-08-28 15:15		
	UNITS	PC-01A	PC-01B	PC-02A	PC-02B	RDL	QC Batch
Passive Monitoring							
Calculated NO2	ppb	<0.1	<0.1	<0.1	<0.1	0.1	A044328
Calculated SO2	ppb	DAMAGED	DAMAGED	<0.1	<0.1	0.1	A042191

RDL = Reportable Detection Limit

Results relate only to the items tested.

GENERAL COMMENTS

Sample YP8078 [PC-01A] : SO2 - Notes on COC indicate damage by wildlife during sampling.

Sample YP8079 [PC-01B] : SO2 - Notes on COC indicate damage by wildlife during sampling.

Results relate only to the items tested.

Report Date: 2020/10/20

Denison Mines Corp.
Attention: DANA HARRIS
Client Project #: DENISON MINES
Your P.O. #: WRE_E0220075
Site Location: Denison Mines

Quality Assurance Report
BV Labs Job Number: C074134

QA/QC Bat Init	QC Type	Parameter	Date Analy Value	Recovery	UNITS	QC Limits
A042191	OZ	Spiked Blank	Calculated SO2	101	%	90 - 110
A042191	OZ	Method Blank	Calculated SO2	<0.1	ppb	
A044328	YL6	Spiked Blank	Calculated NO2	98	%	90 - 110
A044328	YL6	Method Blank	Calculated NO2	<0.1	ppb	

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

BV Labs Job Number: C083751
Report Date: 2020/11/24

Denison Mines Corp.
Client Project #: DENISON MINES
Site Location: Denison Mines
Your P.O. #: WRE_E0220075
Sampler Initials: MT

RESULTS OF CHEMICAL ANALYSES OF AIR

BV Labs ID		YV7760	YV7761	YV7762	YV7763		
Sampling Date		2020-10-02 14:00	2020-10-02 14:00	2020-09-30 15:08	2020-09-30 15:08		
	UNITS	PC-01A	PC-01B	PC-02A	PC-02B	RDL	QC Batch
Passive Monitoring							
Calculated NO2	ppb	<0.1	0.2	<0.1	<0.1	0.1	A090671
Calculated SO2	ppb	0.1	0.2	<0.1	<0.1	0.1	A088698

RDL = Reportable Detection Limit

Results relate only to the items tested.

GENERAL COMMENTS

Results relate only to the items tested.

Report Date: 2020/11/24

Denison Mines Corp.
Attention: DANA HARRIS
Client Project #: DENISON MINES
Your P.O. #: WRE_E0220075
Site Location: Denison Mines

Quality Assurance Report
BV Labs Job Number: C083751

QA/QC Bat Init	QC Type	Parameter	Date Analy Value	Recovery	UNITS	QC Limits
A088698	OZ	Spiked Blank	Calculated SO2	103	%	90 - 110
A088698	OZ	Method Blank	Calculated SO2	<0.1	ppb	
A090671	YL6	Spiked Blank	Calculated NO2	97	%	90 - 110
A090671	YL6	Method Blank	Calculated NO2	<0.1	ppb	

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



Your P.O. #: WRE_E0221096
 Your Project #: DENISON MINES
 Site#: 2021/08/17 - 2021/09/22
 Site Location: Denison Mines

Attention: DANA HARRIS

Denison Mines Corp.
 SASKATOON SK
 230 22 St E
 Saskatoon, SK
 CANADA S7K 0E9

Report Date: 2021/10/06
 Report #: R3081301
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C172584

Received: 2021/09/28, 11:59

Sample Matrix: Air
 # Samples Received: 4

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
NO2 Passive Analysis	4	2021/10/04	2021/10/06	PTC SOP-00148	Passive NO2 in ATM
SO2 Passive Analysis	4	2021/09/28	2021/10/06	PTC SOP-00149	Passive SO2 in ATM

This report shall not be reproduced except in full, without the written approval of the laboratory.
 Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Levi Manchak, Project Manager SR
 Email: Levi.MANCHAK@bureauveritas.com
 Phone# (780)378-8542

=====
 BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: C172584
Report Date: 2021/10/06

Denison Mines Corp.
Client Project #: DENISON MINES
Site Location: Denison Mines
Your P.O. #: WRE_E0221096
Sampler Initials: JS

RESULTS OF CHEMICAL ANALYSES OF AIR

BV Labs ID		AGX507	AGX508	AGX509	AGX510		
Sampling Date		2021/08/17 14:50	2021/08/17 14:50	2021/08/17 10:00	2021/08/17 10:00		
	UNITS	PC-01A	PC-01B	PC-02A	PC-02B	RDL	QC Batch
Passive Monitoring							
Calculated NO2	ppb	<0.1	<0.1	<0.1	<0.1	0.1	A374536
Calculated SO2	ppb	<0.1	<0.1	<0.1	<0.1	0.1	A368976
RDL = Reportable Detection Limit							



BUREAU
VERITAS

BV Labs Job #: C172584
Report Date: 2021/10/06

Denison Mines Corp.
Client Project #: DENISON MINES
Site Location: Denison Mines
Your P.O. #: WRE_E0221096
Sampler Initials: JS

GENERAL COMMENTS

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C172584
Report Date: 2021/10/06

QUALITY ASSURANCE REPORT

Denison Mines Corp.
Client Project #: DENISON MINES
Site Location: Denison Mines
Your P.O. #: WRE_E0221096
Sampler Initials: JS

QC Batch	Parameter	Date	Spiked Blank		Method Blank	
			% Recovery	QC Limits	Value	UNITS
A368976	Calculated SO2		100	90 - 110	<0.1	ppb
A374536	Calculated NO2		107	90 - 110	<0.1	ppb

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU
VERITAS

BV Labs Job #: C172584

Report Date: 2021/10/06

Denison Mines Corp.

Client Project #: DENISON MINES

Site Location: Denison Mines

Your P.O. #: WRE_E0221096

Sampler Initials: JS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in blue ink that reads 'Yang Liu'.

Yang Liu, Analyst II

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

CANADA NORTH
 ENVIRONMENTAL SERVICES
 C/O JOCELYN HOWERY
 211 WHEELER STREET
 SASKATOON, SK S7P 0A4
 Canada

Report Date (YYYY-MM-DD)	2018-12-05
Page	1 of 1
Dosimeter Received	2018-12-03
QC Release	CHA
Analytical Work Order	1833300442

LANDAUER®

LANDAUER, Inc., 2 Science Road
 Glenwood, Illinois 60425-1586
 landauer.com
 Telephone: (708) 755-7000
 Facsimile: (708) 755-7016
 Customer Service: (800) 323-8830
 Technical: (800) 438-3241

Environmental Dosimetry Report

Account : 720925 Subaccount : 1459881 Series: X9

Location ID Number	Dosimeter Type	Identifier (Client Supplied)	Exposure (Ambient Dose mSv)		Net Cumulative Totals (mSv)			Inception Date (YYYY-MM)	Serial Number
			Gross	Net	Quarter to Date	Year to Date	Permanent		
Monitoring Period:			2018-07-01 to	2018-07-31	Q3	2018			
00000	V03NH	Deploy Control Control not used in assessment.						2018-07	EX00081724M
	V03NH	Control Dose Used	0.409						
00002	V03NH	AREA MONITOR 2	0.411	0.003				2018-07	EX00081722Q
Monitoring Period:			2018-10-15 to	2018-11-14	Q4	2018			
00000	V03NH	Deploy Control						2018-07	EX00080674K

General Information

The Environmental dosimeter is for both indoor and outdoor use, and is designed to withstand extremes of temperature, humidity, precipitation, and other environmental conditions. InLight dosimeters are built on an assembly of a case component with copper and plastic filters along with a four-positioned aluminum oxide detector slide component. Both the case and slide are uniquely bar coded with serial numbers for chain of custody and sensitivity identification. The InLight dosimeter is sealed within a heavy-duty vinyl tamper resistant pouch that has multiple slots to permit several methods of attachment for easy deployment.

Technical Specifications

- Fully meets ANSI N545-1977, NRC Regulatory Guide 4.13, and HPS Draft Standard N13.29 for environmental dosimetry.
- Minimum Detectable Dose - nominally 0.1 mrem (1 μ Sv), reporting to tenths of a millirem ambient dose equivalent.
- Detection Capabilities:
 - Photons (x and gamma rays) with energies above 15 keV nominally: 0.1 mrem to 1000 rem (1 μ Sv to 10 Sv).
 - Beta particles with energies greater than approximately 500 keV average energy: 20 mrem to 1000 rem (200 μ Sv to 10 Sv).

Control Dosimeter

A minimum of two control dosimeters are provided per shipment. The first is for field deployment/retrieval used to measure exposure during shipment and placement/collection. The second is for transit used to measure exposure during shipment only. Both control dosimeters assigned to a shipment should accompany that shipment both from and to LANDAUER. Do not use the control dosimeters for any other purpose. Store dosimeters away from radiation when not in use along with the control dosimeter(s) of the same use date.

Dosimetry reports show gross and net dosage. Gross dosage includes the dosage to the controls. LANDAUER's background subtraction protocol is:

1. Subtract the deployment/retrieval control; or if not returned to LANDAUER
2. Subtract the transit control.

Environmental Dosimetry Report Information

Location ID Number

Unique number assigned by LANDAUER.

Dosimeter Type

Dosimeter Type	Analytical Sensitivity	Minimum Detectable Dose Level (mrem)
V03NH	High	0.1
V03NN	Standard	5.0
V06NH	High	0.1
V06NN	Standard	5.0

Identifier

Location name supplied by customer.

Exposure Ambient Dose (mrem)

Gross: Gross exposure before control subtraction.

Net: Net exposure after control subtraction.

Net Cumulative Totals (mrem)

Quarter to Date, Year to Date, and Permanent are accumulated net ambient exposure.

Inception Date

The date LANDAUER began keeping dosimeter records for a given dosimeter for a monitoring location on the current account.

Serial Number

Dosimeter serial number.

U.S. Patents

6,316,782; 6,127,685; 5,892,234

LANDAUER, Inc.
2 Science Road
Glenwood, Illinois 60425-1586
landauer.com
Telephone: (708) 755-7000
Facsimile: (708) 755-7016
Customer Service: (800) 323-8830
Technical: (800) 438-3241

CANADA NORTH
 ENVIRONMENTAL SERVICES
 C/O JOCELYN HOWERY
 211 WHEELER STREET
 SASKATOON, SK S7P 0A4
 Canada

Report Date (YYYY-MM-DD)	2019-04-03
Page	1 of 1
Dosimeter Received	2019-04-01
QC Release	LCA
Analytical Work Order	1908800417

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 landauer.com
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 Facsimile: (708) 755-7016
 Customer Service: (800) 323-8830
 Technical: (800) 438-3241

Environmental Dosimetry Report

Account : 720925 Subaccount : 1459881 Series: X9

Location ID Number	Dosimeter Type	Identifier (Client Supplied)	Exposure (Ambient Dose mSv)		Net Cumulative Totals (mSv)			Inception Date (YYYY-MM)	Serial Number
			Gross	Net	Quarter to Date	Year to Date	Permanent		
Monitoring Period:			2018-10-15 to	2018-11-14	Q4	2018			
00003	V03NH	Average Control Dose	0.34						
00003	V03NH	AREA MONITOR 3	0.234	-0.106			2018-10	EX00080847D	
00004	V03NH	AREA MONITOR 4	0.257	-0.084			2018-10	EX00080848B	
Monitoring Period:			2019-01-15 to	2020-01-14	Q1	2019			
00000	V03NH	Deploy Control					2018-07	EX00080712S	

General Information

The Environmental dosimeter is for both indoor and outdoor use, and is designed to withstand extremes of temperature, humidity, precipitation, and other environmental conditions. InLight dosimeters are built on an assembly of a case component with copper and plastic filters along with a four-positioned aluminum oxide detector slide component. Both the case and slide are uniquely bar coded with serial numbers for chain of custody and sensitivity identification. The InLight dosimeter is sealed within a heavy-duty vinyl tamper resistant pouch that has multiple slots to permit several methods of attachment for easy deployment.

Technical Specifications

- Fully meets ANSI N545-1977, NRC Regulatory Guide 4.13, and HPS Draft Standard N13.29 for environmental dosimetry.
- Minimum Detectable Dose - nominally 0.1 mrem (1 μ Sv), reporting to tenths of a millirem ambient dose equivalent.
- Detection Capabilities:
 - Photons (x and gamma rays) with energies above 15 keV nominally: 0.1 mrem to 1000 rem (1 μ Sv to 10 Sv).
 - Beta particles with energies greater than approximately 500 keV average energy: 20 mrem to 1000 rem (200 μ Sv to 10 Sv).

Control Dosimeter

A minimum of two control dosimeters are provided per shipment. The first is for field deployment/retrieval used to measure exposure during shipment and placement/collection. The second is for transit used to measure exposure during shipment only. Both control dosimeters assigned to a shipment should accompany that shipment both from and to LANDAUER. Do not use the control dosimeters for any other purpose. Store dosimeters away from radiation when not in use along with the control dosimeter(s) of the same use date.

Dosimetry reports show gross and net dosage. Gross dosage includes the dosage to the controls. LANDAUER's background subtraction protocol is:

1. Subtract the deployment/retrieval control; or if not returned to LANDAUER
2. Subtract the transit control.

Environmental Dosimetry Report Information

Location ID Number

Unique number assigned by LANDAUER.

Dosimeter Type

Dosimeter Type	Analytical Sensitivity	Minimum Detectable Dose Level (mrem)
V03NH	High	0.1
V03NN	Standard	5.0
V06NH	High	0.1
V06NN	Standard	5.0

Identifier

Location name supplied by customer.

Exposure Ambient Dose (mrem)

Gross: Gross exposure before control subtraction.

Net: Net exposure after control subtraction.

Net Cumulative Totals (mrem)

Quarter to Date, Year to Date, and Permanent are accumulated net ambient exposure.

Inception Date

The date LANDAUER began keeping dosimeter records for a given dosimeter for a monitoring location on the current account.

Serial Number

Dosimeter serial number.

U.S. Patents

6,316,782; 6,127,685; 5,892,234

LANDAUER, Inc.
2 Science Road
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Technical: (800) 438-3241

CANADA NORTH
 ENVIRONMENTAL SERVICES
 A CROSBY / K WELLS
 211 WHEELER STREET
 SASKATOON, SK S7P 0A4
 Canada

Report Date (YYYY-MM-DD)	2019-08-29
Page	1 of 1
Dosimeter Received	2019-08-28
QC Release	CHA
Analytical Work Order	1923900004

LANDAUER®

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 Facsimile: (708) 755-7016
 Customer Service: (800) 323-8830
 Technical: (800) 438-3241

Environmental Dosimetry Report

Account : 720925 Subaccount : 1459881 Series: X9

Location ID Number	Dosimeter Type	Identifier (Client Supplied)	Exposure (Ambient Dose mSv)		Net Cumulative Totals (mSv)			Inception Date (YYYY-MM)	Serial Number
			Gross	Net	Quarter to Date	Year to Date	Permanent		
Monitoring Period:			2019-01-15 to	2020-01-14	Q1	2019			
	V03NH	Average Control Dose	0.46						
00005	V03NH	AREA MONITOR 5	0.357	-0.107				2019-01	EX00080713Q
00006	V03NH	AREA MONITOR 6	0.37	-0.094				2019-01	EX00080676G

General Information

The Environmental dosimeter is for both indoor and outdoor use, and is designed to withstand extremes of temperature, humidity, precipitation, and other environmental conditions. InLight dosimeters are built on an assembly of a case component with copper and plastic filters along with a four-positioned aluminum oxide detector slide component. Both the case and slide are uniquely bar coded with serial numbers for chain of custody and sensitivity identification. The InLight dosimeter is sealed within a heavy-duty vinyl tamper resistant pouch that has multiple slots to permit several methods of attachment for easy deployment.

Technical Specifications

- Fully meets ANSI N545-1977, NRC Regulatory Guide 4.13, and HPS Draft Standard N13.29 for environmental dosimetry.
- Minimum Detectable Dose - nominally 0.1 mrem (1 μ Sv), reporting to tenths of a millirem ambient dose equivalent.
- Detection Capabilities:
 - Photons (x and gamma rays) with energies above 15 keV nominally: 0.1 mrem to 1000 rem (1 μ Sv to 10 Sv).
 - Beta particles with energies greater than approximately 500 keV average energy: 20 mrem to 1000 rem (200 μ Sv to 10 Sv).

Control Dosimeter

A minimum of two control dosimeters are provided per shipment. The first is for field deployment/retrieval used to measure exposure during shipment and placement/collection. The second is for transit used to measure exposure during shipment only. Both control dosimeters assigned to a shipment should accompany that shipment both from and to LANDAUER. Do not use the control dosimeters for any other purpose. Store dosimeters away from radiation when not in use along with the control dosimeter(s) of the same use date.

Dosimetry reports show gross and net dosage. Gross dosage includes the dosage to the controls. LANDAUER's background subtraction protocol is:

1. Subtract the deployment/retrieval control; or if not returned to LANDAUER
2. Subtract the transit control.

Environmental Dosimetry Report Information

Location ID Number

Unique number assigned by LANDAUER.

Dosimeter Type

Dosimeter Type	Analytical Sensitivity	Minimum Detectable Dose Level (mrem)
V03NH	High	0.1
V03NN	Standard	5.0
V06NH	High	0.1
V06NN	Standard	5.0

Identifier

Location name supplied by customer.

Exposure Ambient Dose (mrem)

Gross: Gross exposure before control subtraction.

Net: Net exposure after control subtraction.

Net Cumulative Totals (mrem)

Quarter to Date, Year to Date, and Permanent are accumulated net ambient exposure.

Inception Date

The date LANDAUER began keeping dosimeter records for a given dosimeter for a monitoring location on the current account.

Serial Number

Dosimeter serial number.

U.S. Patents

6,316,782; 6,127,685; 5,892,234

LANDAUER, Inc.
2 Science Road
Glenwood, Illinois 60425-1586
landauer.com
Telephone: (708) 755-7000
Facsimile: (708) 755-7016
Customer Service: (800) 323-8830
Technical: (800) 438-3241

CANADA NORTH
 ENVIRONMENTAL SERVICES
 A CROSBY / K WELLS
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 Canada

Report Date (YYYY-MM-DD)	2019-11-20
Page	1 of 1
Dosimeter Received	2019-11-11
QC Release	CHA
Analytical Work Order	1931200165

LANDAUER®

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Environmental Dosimetry Report

Account : 720925

Location ID Number	Dosimeter Type	Identifier (Client Supplied)	Exposure (Ambient Dose mSv)		Net Cumulative Totals (mSv)			Inception Date (YYYY-MM)	Serial Number
			Gross	Net	Quarter to Date	Year to Date	Permanent		
Monitoring Period: 00000	V03NH	Transit Control	2019-08-25 to	2020-08-24	Q3	2019		2018-07	EX00020427Z

General Information

The Environmental dosimeter is for both indoor and outdoor use, and is designed to withstand extremes of temperature, humidity, precipitation, and other environmental conditions. InLight dosimeters are built on an assembly of a case component with copper and plastic filters along with a four-positioned aluminum oxide detector slide component. Both the case and slide are uniquely bar coded with serial numbers for chain of custody and sensitivity identification. The InLight dosimeter is sealed within a heavy-duty vinyl tamper resistant pouch that has multiple slots to permit several methods of attachment for easy deployment.

Technical Specifications

- Fully meets ANSI N545-1977, NRC Regulatory Guide 4.13, and HPS Draft Standard N13.29 for environmental dosimetry.
- Minimum Detectable Dose - nominally 0.1 mrem (1 μ Sv), reporting to tenths of a millirem ambient dose equivalent.
- Detection Capabilities:
 - Photons (x and gamma rays) with energies above 15 keV nominally: 0.1 mrem to 1000 rem (1 μ Sv to 10 Sv).

Beta particles with energies greater than approximately 500 keV average energy: 20 mrem to 1000 rem (200 μ Sv to 10 Sv).

Control Dosimeter

A minimum of two control dosimeters are provided per shipment. The first is for field deployment/retrieval used to measure exposure during shipment and placement/collection. The second is for transit used to measure exposure during shipment only. Both control dosimeters assigned to a shipment should accompany that shipment both from and to LANDAUER. Do not use the control dosimeters for any other purpose. Store dosimeters away from radiation when not in use along with the control dosimeter(s) of the same use date.

Dosimetry reports show gross and net dosage. Gross dosage includes the dosage to the controls. LANDAUER's background subtraction protocol is:

1. Subtract the deployment/retrieval control; or if not returned to LANDAUER
2. Subtract the transit control.

Environmental Dosimetry Report Information

Location ID Number

Unique number assigned by LANDAUER.

Dosimeter Type

Dosimeter Type	Analytical Sensitivity	Minimum Detectable Dose Level (mrem)
V03NH	High	0.1
V03NN	Standard	5.0
V06NH	High	0.1
V06NN	Standard	5.0

Identifier

Location name supplied by customer.

Exposure Ambient Dose (mrem)

Gross: Gross exposure before control subtraction.

Net: Net exposure after control subtraction.

Net Cumulative Totals (mrem)

Quarter to Date, Year to Date, and Permanent are accumulated net ambient exposure.

Inception Date

The date LANDAUER began keeping dosimeter records for a given dosimeter for a monitoring location on the current account.

Serial Number

Dosimeter serial number.

U.S. Patents

6,316,782; 6,127,685; 5,892,234

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 Canada

Report Date (YYYY-MM-DD)	2019-12-04
Page	1 of 1
Dosimeter Received	2019-11-21
QC Release	CHA
Analytical Work Order	1932400045

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 Facsimile: (708) 755-7016
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Environmental Dosimetry Report

Account : 720925 Subaccount : 1459881 Series: X9

Location ID Number	Dosimeter Type	Identifier (Client Supplied)	Exposure (Ambient Dose mSv)		Net Cumulative Totals (mSv)			Inception Date (YYYY-MM)	Serial Number
			Gross	Net	Quarter to Date	Year to Date	Permanent		
Monitoring Period: 00000	V03NH	Deploy Control	2019-06-01 to	2020-05-31	Q2	2019		2018-07	EX000248102
Monitoring Period: 00003	V03NH	AREA MONITOR 3	2019-08-25 to	2020-08-24	Q3	2019		2018-10	EX00061653R
00004	V03NH	AREA MONITOR 4						2018-10	EX00051359N

General Information

The Environmental dosimeter is for both indoor and outdoor use, and is designed to withstand extremes of temperature, humidity, precipitation, and other environmental conditions. InLight dosimeters are built on an assembly of a case component with copper and plastic filters along with a four-positioned aluminum oxide detector slide component. Both the case and slide are uniquely bar coded with serial numbers for chain of custody and sensitivity identification. The InLight dosimeter is sealed within a heavy-duty vinyl tamper resistant pouch that has multiple slots to permit several methods of attachment for easy deployment.

Technical Specifications

- Fully meets ANSI N545-1977, NRC Regulatory Guide 4.13, and HPS Draft Standard N13.29 for environmental dosimetry.
- Minimum Detectable Dose - nominally 0.1 mrem (1 μ Sv), reporting to tenths of a millirem ambient dose equivalent.
- Detection Capabilities:
 - Photons (x and gamma rays) with energies above 15 keV nominally: 0.1 mrem to 1000 rem (1 μ Sv to 10 Sv).

Beta particles with energies greater than approximately 500 keV average energy: 20 mrem to 1000 rem (200 μ Sv to 10 Sv).

Control Dosimeter

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Dosimetry reports show gross and net dosage. Gross dosage includes the dosage to the controls. LANDAUER's background subtraction protocol is:

1. Subtract the deployment/retrieval control; or if not returned to LANDAUER
2. Subtract the transit control.

Environmental Dosimetry Report Information

Location ID Number

Unique number assigned by LANDAUER.

Dosimeter Type

Dosimeter Type	Analytical Sensitivity	Minimum Detectable Dose Level (mrem)
V03NH	High	0.1
V03NN	Standard	5.0
V06NH	High	0.1
V06NN	Standard	5.0

Identifier

Location name supplied by customer.

Exposure Ambient Dose (mrem)

Gross: Gross exposure before control subtraction.

Net: Net exposure after control subtraction.

Net Cumulative Totals (mrem)

Quarter to Date, Year to Date, and Permanent are accumulated net ambient exposure.

Inception Date

The date LANDAUER began keeping dosimeter records for a given dosimeter for a monitoring location on the current account.

Serial Number

Dosimeter serial number.

U.S. Patents

6,316,782; 6,127,685; 5,892,234

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Report Date (YYYY-MM-DD)	2020-06-19
Page	1 of 1
Dosimeter Received	2020-06-17
QC Release	KCO
Analytical Work Order	2016900004

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Environmental Dosimetry Report

Account : 720925 Subaccount : 1459881 Series: X9

Location ID Number	Dosimeter Type	Identifier (Client Supplied)	Exposure (Ambient Dose mSv)		Net Cumulative Totals (mSv)			Inception Date (YYYY-MM)	Serial Number
			Gross	Net	Quarter to Date	Year to Date	Permanent		
Monitoring Period:			2019-08-25 to	2020-08-24	Q3	2019			
	V03NH	Average Control Dose	0.62						
00003	V03NH	AREA MONITOR 3	0.457	-0.161			2018-10	EX000005726	
00004	V03NH	AREA MONITOR 4	0.464	-0.154			2018-10	EX00081901Q	

General Information

The Environmental dosimeter is for both indoor and outdoor use, and is designed to withstand extremes of temperature, humidity, precipitation, and other environmental conditions. InLight dosimeters are built on an assembly of a case component with copper and plastic filters along with a four-positioned aluminum oxide detector slide component. Both the case and slide are uniquely bar coded with serial numbers for chain of custody and sensitivity identification. The InLight dosimeter is sealed within a heavy-duty vinyl tamper resistant pouch that has multiple slots to permit several methods of attachment for easy deployment.

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- Detection Capabilities:
 - Photons (x and gamma rays) with energies above 15 keV nominally: 0.1 mrem to 1000 rem (1 μ Sv to 10 Sv).
 - Beta particles with energies greater than approximately 500 keV average energy: 20 mrem to 1000 rem (200 μ Sv to 10 Sv).

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2. Subtract the transit control.

Environmental Dosimetry Report Information

Location ID Number

Unique number assigned by LANDAUER.

Dosimeter Type

Dosimeter Type	Analytical Sensitivity	Minimum Detectable Dose Level (mrem)
V03NH	High	0.1
V03NN	Standard	5.0
V06NH	High	0.1
V06NN	Standard	5.0

Identifier

Location name supplied by customer.

Exposure Ambient Dose (mrem)

Gross: Gross exposure before control subtraction.

Net: Net exposure after control subtraction.

Net Cumulative Totals (mrem)

Quarter to Date, Year to Date, and Permanent are accumulated net ambient exposure.

Inception Date

The date LANDAUER began keeping dosimeter records for a given dosimeter for a monitoring location on the current account.

Serial Number

Dosimeter serial number.

U.S. Patents

6,316,782; 6,127,685; 5,892,234

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Report Date (YYYY-MM-DD)	2020-10-23
Page	1 of 1
Dosimeter Received	2020-10-21
QC Release	CHA
Analytical Work Order	2029500017

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Environmental Dosimetry Report

Account : 720925

Location ID Number	Dosimeter Type	Identifier (Client Supplied)	Exposure (Ambient Dose mSv)		Net Cumulative Totals (mSv)			Inception Date (YYYY-MM)	Serial Number
			Gross	Net	Quarter to Date	Year to Date	Permanent		
Monitoring Period: 00000	V03NH	Transit Control	2020-10-05 to	2021-10-04	Q4	2020		2018-07	EX00086459A

General Information

The Environmental dosimeter is for both indoor and outdoor use, and is designed to withstand extremes of temperature, humidity, precipitation, and other environmental conditions. InLight dosimeters are built on an assembly of a case component with copper and plastic filters along with a four-positioned aluminum oxide detector slide component. Both the case and slide are uniquely bar coded with serial numbers for chain of custody and sensitivity identification. The InLight dosimeter is sealed within a heavy-duty vinyl tamper resistant pouch that has multiple slots to permit several methods of attachment for easy deployment.

Technical Specifications

- Fully meets ANSI N545-1977, NRC Regulatory Guide 4.13, and HPS Draft Standard N13.29 for environmental dosimetry.
- Minimum Detectable Dose - nominally 0.1 mrem (1 μ Sv), reporting to tenths of a millirem ambient dose equivalent.
- Detection Capabilities:
 - Photons (x and gamma rays) with energies above 15 keV nominally: 0.1 mrem to 1000 rem (1 μ Sv to 10 Sv).
 - Beta particles with energies greater than approximately 500 keV average energy: 20 mrem to 1000 rem (200 μ Sv to 10 Sv).

Control Dosimeter

A minimum of two control dosimeters are provided per shipment. The first is for field deployment/retrieval used to measure exposure during shipment and placement/collection. The second is for transit used to measure exposure during shipment only. Both control dosimeters assigned to a shipment should accompany that shipment both from and to LANDAUER. Do not use the control dosimeters for any other purpose. Store dosimeters away from radiation when not in use along with the control dosimeter(s) of the same use date.

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1. Subtract the deployment/retrieval control; or if not returned to LANDAUER
2. Subtract the transit control.

Environmental Dosimetry Report Information

Location ID Number

Unique number assigned by LANDAUER.

Dosimeter Type

Dosimeter Type	Analytical Sensitivity	Minimum Detectable Dose Level (mrem)
V03NH	High	0.1
V03NN	Standard	5.0
V06NH	High	0.1
V06NN	Standard	5.0

Identifier

Location name supplied by customer.

Exposure Ambient Dose (mrem)

Gross: Gross exposure before control subtraction.

Net: Net exposure after control subtraction.

Net Cumulative Totals (mrem)

Quarter to Date, Year to Date, and Permanent are accumulated net ambient exposure.

Inception Date

The date LANDAUER began keeping dosimeter records for a given dosimeter for a monitoring location on the current account.

Serial Number

Dosimeter serial number.

U.S. Patents

6,316,782; 6,127,685; 5,892,234

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Report Date (YYYY-MM-DD)	2020-12-01
Page	1 of 1
Dosimeter Received	2020-11-21
QC Release	CHA
Analytical Work Order	2032400198

LANDAUER®

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 Technical: (800) 438-3241

Environmental Dosimetry Report

Account : 720925 Subaccount : 1459881 Series: X9

Location ID Number	Dosimeter Type	Identifier (Client Supplied)	Exposure (Ambient Dose mSv)		Net Cumulative Totals (mSv)			Inception Date (YYYY-MM)	Serial Number
			Gross	Net	Quarter to Date	Year to Date	Permanent		
Monitoring Period:			2020-07-20 to	2021-07-19	Q3	2020			
00000	V03NH	Deploy Control					2018-07	EX00061362Y	
	V03NH	Control Dose Used	0.316						
00007	V03NH	AREA MONITOR 7	0.218	-0.098			2020-07	EX00071155V	

General Information

The Environmental dosimeter is for both indoor and outdoor use, and is designed to withstand extremes of temperature, humidity, precipitation, and other environmental conditions. InLight dosimeters are built on an assembly of a case component with copper and plastic filters along with a four-positioned aluminum oxide detector slide component. Both the case and slide are uniquely bar coded with serial numbers for chain of custody and sensitivity identification. The InLight dosimeter is sealed within a heavy-duty vinyl tamper resistant pouch that has multiple slots to permit several methods of attachment for easy deployment.

Technical Specifications

- Fully meets ANSI N545-1977, NRC Regulatory Guide 4.13, and HPS Draft Standard N13.29 for environmental dosimetry.
- Minimum Detectable Dose - nominally 0.1 mrem (1 μ Sv), reporting to tenths of a millirem ambient dose equivalent.
- Detection Capabilities:
 - Photons (x and gamma rays) with energies above 15 keV nominally: 0.1 mrem to 1000 rem (1 μ Sv to 10 Sv).
 - Beta particles with energies greater than approximately 500 keV average energy: 20 mrem to 1000 rem (200 μ Sv to 10 Sv).

Control Dosimeter

A minimum of two control dosimeters are provided per shipment. The first is for field deployment/retrieval used to measure exposure during shipment and placement/collection. The second is for transit used to measure exposure during shipment only. Both control dosimeters assigned to a shipment should accompany that shipment both from and to LANDAUER. Do not use the control dosimeters for any other purpose. Store dosimeters away from radiation when not in use along with the control dosimeter(s) of the same use date.

Dosimetry reports show gross and net dosage. Gross dosage includes the dosage to the controls. LANDAUER's background subtraction protocol is:

1. Subtract the deployment/retrieval control; or if not returned to LANDAUER
2. Subtract the transit control.

Environmental Dosimetry Report Information

Location ID Number

Unique number assigned by LANDAUER.

Dosimeter Type

Dosimeter Type	Analytical Sensitivity	Minimum Detectable Dose Level (mrem)
V03NH	High	0.1
V03NN	Standard	5.0
V06NH	High	0.1
V06NN	Standard	5.0

Identifier

Location name supplied by customer.

Exposure Ambient Dose (mrem)

Gross: Gross exposure before control subtraction.

Net: Net exposure after control subtraction.

Net Cumulative Totals (mrem)

Quarter to Date, Year to Date, and Permanent are accumulated net ambient exposure.

Inception Date

The date LANDAUER began keeping dosimeter records for a given dosimeter for a monitoring location on the current account.

Serial Number

Dosimeter serial number.

U.S. Patents

6,316,782; 6,127,685; 5,892,234

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Denison Mines Corp
Pamela Bennett
230 22nd Street East
Suite 200
Saskatoon SK S7K 0E9
CANADA

BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2017-02-20**.
They were measured **2017-03-02**.

Test data have been given by Pamela Bennett

Property data and address

MEASURE SITE ADDRESS
Wheeler River Project
Wheeler River Project Area
Saskatoon SK S7K 0E9

BUILDING ID

TRANSIT DETECTOR 1: 328087 (10 ± 4 kBq/m³)
TRANSIT DETECTOR 2: 327474 (11 ± 4 kBq/m³)
TRANSIT DETECTOR 3: 327581 (15 ± 4 kBq/m³)

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
441650-9 [Rapidos®]	2016-09-25 – 2017-01-25	Radon 6A	Out-door	6 ± 3 Bq/m ³
996809-0 [Rapidos®]	2016-09-25 – 2017-01-25	Radon 6B	Out-door	< 3 Bq/m ³
969893-7 [Rapidos®]	2016-09-26 – 2017-01-25	Radon 7A	Out-door	4 ± 3 Bq/m ³
975850-9 [Rapidos®]	2016-09-26 – 2017-01-25	Radon 7B	Out-door	< 3 Bq/m ³
642724-9 [Rapidos®]	2016-09-26 – 2017-01-25	Radon 8A	Out-door	3 ± 3 Bq/m ³
383553-5 [Rapidos®]	2016-09-26 – 2017-01-25	Radon 8B		3 ± 2 Bq/m ³
334012-2 [Rapidos®]	2016-09-26 – 2017-01-28	Radon 9A	Out-door	3 ± 2 Bq/m ³
536455-9 [Rapidos®]	2016-09-26 – 2017-01-28	Radon 9B	Out-door	< 3 Bq/m ³
159276-5 [Rapidos®]	2016-09-27 – 2017-01-25	Radon 10A	Out-door	5 ± 3 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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CANADA

OWN ID
N/A
BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2017-02-20**.
They were measured **2017-03-02**.

Test data have been given by Pamela Bennett

Property data and address

MEASURE SITE ADDRESS
Wheeler River Project
Wheeler River Project Area
Saskatoon SK S7K 0E9

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
373050-4 [Rapidos®]	2016-09-27 – 2017-01-25	Radon 10B	Out-door	3 ± 3 Bq/m ³
314919-2 [Rapidos®]	2016-09-24 – 2017-01-27	Radon 1A	Out-door	< 3 Bq/m ³
970682-1 [Rapidos®]	2016-09-24 – 2017-01-27	Radon 1B	Out-door	6 ± 2 Bq/m ³
575188-8 [Rapidos®]	2016-09-24 – 2017-01-27	Radon 2A	Out-door	< 3 Bq/m ³
582429-7 [Rapidos®]	2016-09-24 – 2017-01-25	Radon 3A	Out-door	4 ± 2 Bq/m ³
769560-4 [Rapidos®]	2016-09-24 – 2017-01-25	Radon 3B	Out-door	3 ± 3 Bq/m ³
548755-8 [Rapidos®]	2016-09-25 – 2017-01-25	Radon 4A	Out-door	3 ± 3 Bq/m ³
346551-5 [Rapidos®]	2016-09-25 – 2017-01-25	Radon 4B	Out-door	3 ± 3 Bq/m ³
975561-2 [Rapidos®]	2016-09-26 – 2017-01-28	Radon 5A	Out-door	< 3 Bq/m ³
748416-5 [Rapidos®]	2016-09-26 – 2017-01-28	Radon 5B	Out-door	< 3 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADONOVA INC.

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Westmont IL 60559
331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

Transit detectors are used for the return delivery of the high-sensitivity detectors in order to make a more accurate background subtraction.

Radonova Laboratories AB (P.O. Box 6522, SE-751 38 Uppsala, Sweden) is accredited (no. 1489) by SWEDAC to conduct radon-gas measurements using the closed alpha-track detector method. The analysis equipment is checked daily and the detectors are calibrated at regular intervals. CNRPP License CRT 201475.

Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBqh/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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331.814.2200, help@radonova.com

Denison Mines Corp
Pamela Bennett
230 22nd Street East
Suite 200
Saskatoon SK S7K 0E9
CANADA

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2017-06-21**.
They were measured **2017-06-28**.

Test data have been given by David Hamilton

Property data and address

MEASURE SITE ADDRESS
Wheeler River Exploration Camp
Wheeler River SK XXX XXX

BUILDING ID

TRANSIT DETECTOR 1: 945606 (0 ± 6 kBq/m³)
TRANSIT DETECTOR 2: 478136 (0 ± 6 kBq/m³)
TRANSIT DETECTOR 3: 661984 (0 ± 6 kBq/m³)

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
328723-2 [Rapidos®]	2017-01-27 – 2017-06-12	Radon 1, 473370/6378961	Out-door	5 ± 2 Bq/m ³
327210-1 [Rapidos®]	2017-01-27 – 2017-06-12	Radon 1, 473370/6378961	Out-door	< 3 Bq/m ³
326445-4 [Rapidos®]	2017-01-27 – 2017-06-12	Radon 2, 474702/6379807	Out-door	< 3 Bq/m ³
327356-2 [Rapidos®]	2017-01-27 – 2017-06-12	Radon 2, 474702/6379807	Out-door	< 3 Bq/m ³
327338-0 [Rapidos®]	2017-01-25 – 2017-06-06	Radon 3, 474457/6376843	Out-door	4 ± 2 Bq/m ³
328610-1 [Rapidos®]	2017-01-25 – 2017-06-06	Radon 3, 474457/6376843	Out-door	3 ± 2 Bq/m ³
327658-1 [Rapidos®]	2017-01-25 – 2017-06-06	Radon 4, 474951/6376099	Out-door	3 ± 2 Bq/m ³
328231-6 [Rapidos®]	2017-01-25 – 2017-06-06	Radon 4, 474951/6376099	Out-door	< 3 Bq/m ³
328355-3 [Rapidos®]	2017-01-28 – 2017-06-06	Radon 5, 476804/6375936	Out-door	3 ± 2 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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OWN ID
N/A
BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2017-06-21**.
They were measured **2017-06-28**.

Test data have been given by David Hamilton

Property data and address

MEASURE SITE ADDRESS
Wheeler River Exploration Camp
Wheeler River SK XXX XXX

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
327382-8 [Rapidos®]	2017-01-28 – 2017-06-06	Radon 5, 476804/6375936	Out-door	3 ± 2 Bq/m ³
326438-9 [Rapidos®]	2017-01-25 – 2017-06-06	Radon 6, 476804/6374922	Out-door	3 ± 2 Bq/m ³
327076-6 [Rapidos®]	2017-01-25 – 2017-06-06	Radon 6, 476804/6374922	Out-door	4 ± 2 Bq/m ³
328533-5 [Rapidos®]	2017-01-25 – 2017-06-06	Radon 7, 476857/6374255	Out-door	< 3 Bq/m ³
327721-7 [Rapidos®]	2017-01-25 – 2017-06-06	Radon 7, 476857/6374255	Out-door	3 ± 2 Bq/m ³
327519-5 [Rapidos®]	2017-01-25 – 2017-06-06	Radon 8, 477240/6373284	Out-door	< 3 Bq/m ³
327374-5 [Rapidos®]	2017-01-25 – 2017-06-06	Radon 8, 477240/6373284	Out-door	< 3 Bq/m ³
326718-4 [Rapidos®]	2017-01-25 – 2017-06-06	Radon 9, 479466/6373139	Out-door	< 3 Bq/m ³
327167-3 [Rapidos®]	2017-01-25 – 2017-06-06	Radon 9, 479466/6373139	Out-door	< 3 Bq/m ³
326734-1 [Rapidos®]	2017-01-25 – 2017-06-06	Radon 10, 481359/6372277	Out-door	3 ± 2 Bq/m ³
326676-4 [Rapidos®]	2017-01-25 – 2017-06-06	Radon 10, 481359/6372277	Out-door	3 ± 2 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADONOVA INC.

900 Oakmont Lane Suite 207
Westmont IL 60559
331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

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Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBq/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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CANADA

OWN ID
N/A
BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2017-09-12**.
They were measured **2017-09-18**.

Test data have been given by David Hamilton

Property data and address

MEASURE SITE ADDRESS
Wheeler River Exploration Camp
Wheeler River SK XXX XXX

BUILDING ID

TRANSIT DETECTOR 1: 179770 (11 ± 6 kBqh/m3)
TRANSIT DETECTOR 2: 216425 (3 ± 6 kBqh/m3)
TRANSIT DETECTOR 3: 259586 (9 ± 4 kBqh/m3)

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
631010-6 [Rapidos®]	2017-06-12 – 2017-08-26	Radon 1, 473770/6378961	Out-door	7 ± 6 Bq/m ³
656823-2 [Rapidos®]	2017-06-12 – 2017-08-26	Radon 1, 473770/6378961	Out-door	< 7 Bq/m ³
523339-0 [Rapidos®]	2017-06-12 – 2017-08-26	Radon 2, 474702/6379807	Out-door	< 7 Bq/m ³
746692-3 [Rapidos®]	2017-06-12 – 2017-08-26	Radon 2, 474702/6379807	Out-door	< 7 Bq/m ³
519145-7 [Rapidos®]	2017-06-06 – 2017-08-26	Radon 3, 474457/6376843	Out-door	< 6 Bq/m ³
610676-9 [Rapidos®]	2017-06-06 – 2017-08-26	Radon 3, 474457/6376843	Out-door	< 6 Bq/m ³
768462-4 [Rapidos®]	2017-06-06 – 2017-08-26	Radon 4, 474951/6376099	Out-door	< 4 Bq/m ³
206806-2 [Rapidos®]	2017-06-06 – 2017-08-26	Radon 4, 474951/6376099	Out-door	< 7 Bq/m ³
671098-2 [Rapidos®]	2017-06-06 – 2017-08-26	Radon 5, 476804/6375936	Out-door	< 7 Bq/m ³

Comment to the results

Film in detector 505993-6 (Radon 9 - 479466/6373139) was borken/missing and can not be reported.

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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CANADA

OWN ID
N/A
BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2017-09-12**.
They were measured **2017-09-18**.

Test data have been given by David Hamilton

Property data and address

MEASURE SITE ADDRESS
Wheeler River Exploration Camp
Wheeler River SK XXX XXX

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
178627-6 [Rapidos®]	2017-06-06 – 2017-08-26	Radon 5, 476804/6375936	Out-door	< 7 Bq/m ³
318816-6 [Rapidos®]	2017-06-06 – 2017-08-26	Radon 6, 474841/6374922	Out-door	< 7 Bq/m ³
713115-4 [Rapidos®]	2017-06-06 – 2017-08-26	Radon 6, 474841/6374922	Out-door	< 7 Bq/m ³
206854-2 [Rapidos®]	2017-06-06 – 2017-08-26	Radon 7, 476857/6374255	Out-door	< 7 Bq/m ³
415406-8 [Rapidos®]	2017-06-06 – 2017-08-26	Radon 7, 476857/6374255	Out-door	< 7 Bq/m ³
184216-0 [Rapidos®]	2017-06-06 – 2017-08-26	Radon 8, 477240/6373284	Out-door	< 6 Bq/m ³
388350-1 [Rapidos®]	2017-06-06 – 2017-08-26	Radon 8, 477240/6373284	Out-door	< 3 Bq/m ³
211128-4 [Rapidos®]	2017-06-06 – 2017-08-26	Radon 9, 479466/6373139	Out-door	< 7 Bq/m ³
792116-6 [Rapidos®]	2017-06-06 – 2017-08-26	Radon 10, 481359/6372277	Out-door	< 6 Bq/m ³
228364-6 [Rapidos®]	2017-06-06 – 2017-08-26	Radon 10, 481359/6372277	Out-door	< 6 Bq/m ³

Comment to the results

Film in detector 505993-6 (Radon 9 - 479466/6373139) was borken/missing and can not be reported.

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADONOVA INC.

900 Oakmont Lane Suite 207
Westmont IL 60559
331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

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Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBqh/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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CANADA

OWN ID
N/A
BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2018-01-26**.
They were measured **2018-01-31**.

Test data have been given by DENISON MINES

Property data and address

MEASURE SITE ADDRESS
230 22ND ST
SASKATOON SK S7K 0E9

BUILDING ID

TRANSIT DETECTOR 1: 570427 (0 ± 8 kBq/m³)
TRANSIT DETECTOR 2: 592218 (0 ± 8 kBq/m³)
TRANSIT DETECTOR 3: 628198 (0 ± 4 kBq/m³)

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
597946-3 [Rapidus®]	2017-08-26 – 2018-01-17	473770/6378961, Radon 1	Out-door	3 ± 3 Bq/m ³
630266-5 [Rapidus®]	2017-08-26 – 2018-01-17	473770/6378961, Radon 1	Out-door	9 ± 3 Bq/m ³
219889-3 [Rapidus®]	2017-08-26 – 2018-01-17	474702/6379807, Radon 2	Out-door	5 ± 3 Bq/m ³
251164-0 [Rapidus®]	2017-08-26 – 2018-01-17	474702/6379807, Radon 2	Out-door	5 ± 3 Bq/m ³
251160-8 [Rapidus®]	2017-08-26 – 2018-01-17	474457/6376843, Radon 3	Out-door	5 ± 3 Bq/m ³
173571-1 [Rapidus®]	2017-08-26 – 2018-01-17	474457/6376843, Radon 3	Out-door	3 ± 3 Bq/m ³
771018-9 [Rapidus®]	2017-08-26 – 2018-01-17	474951/6376099, Radon 4	Out-door	4 ± 3 Bq/m ³
148017-7 [Rapidus®]	2017-08-26 – 2018-01-17	474951/6376099, Radon 4	Out-door	3 ± 3 Bq/m ³
168902-5 [Rapidus®]	2017-08-26 – 2018-01-17	476804/6375936, Radon 5	Out-door	5 ± 3 Bq/m ³

Comment to the results

Detector # 132967-1 on COC, not returned. Detector #965502-8 returned unopened.

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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CANADA

OWN ID
N/A
BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2018-01-26**.
They were measured **2018-01-31**.

Test data have been given by DENISON MINES

Property data and address

MEASURE SITE ADDRESS
230 22ND ST
SASKATOON SK S7K 0E9

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
233073-6 [Rapidos®]	2017-08-26 – 2018-01-17	476804/6375936, Radon 5	Out-door	10 ± 3 Bq/m ³
219678-0 [Rapidos®]	2017-08-26 – 2018-01-17	474841/6374922, Radon 6	Out-door	3 ± 3 Bq/m ³
219768-9 [Rapidos®]	2017-08-26 – 2018-01-17	474841/6374922, Radon 6	Out-door	3 ± 3 Bq/m ³
330747-7 [Rapidos®]	2017-08-26 – 2018-01-17	476857/6374255, Radon 7	Out-door	4 ± 3 Bq/m ³
372417-6 [Rapidos®]	2017-08-26 – 2018-01-17	476857/6374255, Radon 7	Out-door	4 ± 3 Bq/m ³
174702-1 [Rapidos®]	2017-08-26 – 2018-01-17	477240/6373284, Radon 8	Out-door	4 ± 3 Bq/m ³
564339-0 [Rapidos®]	2017-08-26 – 2018-01-17	477240/6373284, Radon 8	Out-door	5 ± 3 Bq/m ³
728740-2 [Rapidos®]	2017-08-26 – 2018-01-17	479466/6373139, Radon 9	Out-door	3 ± 3 Bq/m ³
627381-7 [Rapidos®]	2017-08-26 – 2018-01-17	479466/6373139, Radon 9	Out-door	4 ± 3 Bq/m ³
227202-9 [Rapidos®]	2017-08-26 – 2018-01-17	481359/6372277, Radon 10	Out-door	5 ± 3 Bq/m ³
965502-8 [Rapidos®]	–			< 7 kBq/m ³

Comment to the results

Detector # 132967-1 on COC, not returned. Detector #965502-8 returned unopened.

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADONOVA INC.

900 Oakmont Lane Suite 207
Westmont IL 60559
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Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement is performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

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Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBq/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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RADONOVA INC.
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Saskatoon SK S7K 0E9
CANADA

BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2018-04-03**.
They were measured **2018-04-06**.

Test data have been given by DENISON MINES

Property data and address

MEASURE SITE ADDRESS
230 22ND ST
SASKATOON SK S7K 0E9

BUILDING ID

TRANSIT DETECTOR 1: 462400 (6 ± 4 kBq/m³)
TRANSIT DETECTOR 2: 265318 (1 ± 4 kBq/m³)
TRANSIT DETECTOR 3: 657179 (4 ± 4 kBq/m³)

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
570451-5 [Rapidos®]	2018-01-17 – 2018-03-23	474702/6379807, RADON 2	Out-door	< 11 Bq/m ³
631448-8 [Rapidos®]	2018-01-17 – 2018-03-23	474702/6379807, RADON 2	Out-door	< 11 Bq/m ³
592211-7 [Rapidos®]	2018-01-17 – 2018-03-23	473770/6378961, RADON 1	Out-door	< 11 Bq/m ³
738373-0 [Rapidos®]	2018-01-17 – 2018-03-23	473770/6378961, RADON 1	Out-door	< 11 Bq/m ³
628209-9 [Rapidos®]	2018-01-19 – 2018-03-23	474457/6376843, RADON 3	Out-door	< 11 Bq/m ³
546632-1 [Rapidos®]	2018-01-19 – 2018-03-23	474457/6376843, RADON 3	Out-door	< 11 Bq/m ³
965810-5 [Rapidos®]	2018-01-19 – 2018-03-23	474951/6376099, RADON 4	Out-door	< 11 Bq/m ³
931236-4 [Rapidos®]	2018-01-17 – 2018-03-23	474951/6376099, RADON 4	Out-door	< 11 Bq/m ³
965335-3 [Rapidos®]	2018-01-17 – 2018-03-23	476804/6375936, RADON 5	Out-door	< 11 Bq/m ³

Comment to the results

This report replaces 4827105:1. Reason: new or corrected measurement information has been received.

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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OWN ID
N/A
BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2018-04-03**.
They were measured **2018-04-06**.

Test data have been given by DENISON MINES

Property data and address

MEASURE SITE ADDRESS
230 22ND ST
SASKATOON SK S7K 0E9

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
931302-4 [Rapidos®]	2018-01-17 – 2018-03-23	476804/6375936, RADON 5	Out-door	< 11 Bq/m ³
632099-8 [Rapidos®]	2018-01-17 – 2018-03-23	474841/6374922, RADON 6	Out-door	< 6 Bq/m ³
965480-7 [Rapidos®]	2018-01-17 – 2018-03-23	474841/6374922, RADON 6	Out-door	< 11 Bq/m ³
628669-4 [Rapidos®]	2018-01-17 – 2018-03-23	476857/6374255, RADON 7	Out-door	< 11 Bq/m ³
628783-3 [Rapidos®]	2018-01-17 – 2018-03-23	476857/6374255, RADON 7	Out-door	< 11 Bq/m ³
594425-1 [Rapidos®]	2018-01-19 – 2018-03-23	477240/6373284, RADON 8	Out-door	< 6 Bq/m ³
594915-1 [Rapidos®]	2018-01-19 – 2018-03-23	477240/6373284, RADON 8	Out-door	< 11 Bq/m ³
546617-2 [Rapidos®]	2018-01-19 – 2018-03-23	479466/6373139, RADON 9	Out-door	< 11 Bq/m ³
576162-2 [Rapidos®]	2018-01-19 – 2018-03-23	479466/6373139, RADON 9	Out-door	9 ± 4 Bq/m ³
594930-0 [Rapidos®]	2018-01-19 – 2018-03-23	481359/6372277, RADON 10	Out-door	< 6 Bq/m ³

Comment to the results

This report replaces 4827105:1. Reason: new or corrected measurement information has been received.

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADONOVA INC.

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331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement is performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

Transit detectors are used for the return delivery of the high-sensitivity detectors in order to make a more accurate background subtraction.

Radonova Laboratories AB (P.O. Box 6522, SE-751 38 Uppsala, Sweden) is accredited (no. 1489) by SWEDAC to conduct radon-gas measurements using the closed alpha-track detector method. The analysis equipment is checked daily and the detectors are calibrated at regular intervals. CNRPP License CRT 201475.

Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBqh/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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CANADA

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2018-07-23**.
They were measured **2018-07-27**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS

BUILDING ID

TRANSIT DETECTOR 1: 532660 (2 ± 6 kBq/m³) TRANSIT DETECTOR 2: 534427 (4 ± 4 kBq/m³) TRANSIT DETECTOR 3: 534866 (1 ± 4 kBq/m³)

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
615494-2 [Rapidos®]	2018-03-23 – 2018-07-13	473770 / 6378961, RADON 1	Out-door	< 3 Bq/m ³
614573-4 [Rapidos®]	2018-03-23 – 2018-07-13	473770 / 6378961, RADON 1	Out-door	3 ± 3 Bq/m ³
615514-7 [Rapidos®]	2018-03-23 – 2018-07-13	474702 / 6379807, RADON 2	Out-door	< 3 Bq/m ³
277949-4 [Rapidos®]	2018-03-23 – 2018-07-13	474702 / 6379807, RADON 2	Out-door	< 3 Bq/m ³
615266-4 [Rapidos®]	2018-03-23 – 2018-07-13	474457 / 6376843, RADON 3	Out-door	< 3 Bq/m ³
277887-6 [Rapidos®]	2018-03-23 – 2018-07-13	474457 / 6376843, RADON 3	Out-door	< 3 Bq/m ³
604811-0 [Rapidos®]	2018-03-23 – 2018-07-13	474951 / 6376099, RADON 4	Out-door	< 3 Bq/m ³
615565-9 [Rapidos®]	2018-03-23 – 2018-07-13	474951 / 6376099, RADON 4	Out-door	< 3 Bq/m ³
604370-7 [Rapidos®]	2018-03-23 – 2018-07-13	476804 / 6375936, RADON 5	Out-door	4 ± 3 Bq/m ³

Comment to the results

Detector 606137-8, 476804 / 6375936, Out-door was damaged and the chip inside was missing. Not possible to report.

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2018-07-23**.
They were measured **2018-07-27**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
606121-2 [Rapidos®]	2018-03-23 – 2018-07-13	474841 / 6374922, RADON 6	Out-door	3 ± 3 Bq/m ³
607838-0 [Rapidos®]	2018-03-23 – 2018-07-13	474841 / 6374922, RADON 6	Out-door	< 3 Bq/m ³
606135-2 [Rapidos®]	2018-03-23 – 2018-07-13	476857 / 6374255, RADON 7	Out-door	< 3 Bq/m ³
615439-7 [Rapidos®]	2018-03-23 – 2018-07-13	476857 / 6374255, RADON 7	Out-door	< 3 Bq/m ³
278256-3 [Rapidos®]	2018-03-23 – 2018-07-13	477240 / 6373284, RADON 8	Out-door	< 3 Bq/m ³
612673-4 [Rapidos®]	2018-03-23 – 2018-07-13	477240 / 6373284, RADON 8	Out-door	< 3 Bq/m ³
615438-9 [Rapidos®]	2018-03-23 – 2018-07-13	479466 / 6373139, RADON 9	Out-door	< 3 Bq/m ³
606176-6 [Rapidos®]	2018-03-23 – 2018-07-13	479466 / 6373139, RADON 9	Out-door	< 3 Bq/m ³
608479-2 [Rapidos®]	2018-03-23 – 2018-07-13	481359 / 6372277, RADON 10	Out-door	< 3 Bq/m ³
606156-8 [Rapidos®]	2018-03-23 – 2018-07-13	481359 / 6372277, RADON 10	Out-door	< 3 Bq/m ³

Comment to the results

Detector 606137-8, 476804 / 6375936, Out-door was damaged and the chip inside was missing. Not possible to report.

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADONOVA INC.

900 Oakmont Lane Suite 207
Westmont IL 60559
331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

Transit detectors are used for the return delivery of the high-sensitivity detectors in order to make a more accurate background subtraction.

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Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBq/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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CANADA

BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2018-10-10**.
They were measured **2018-10-16**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS

BUILDING ID

TRANSIT DETECTOR 1:
532660

TRANSIT DETECTOR 2:
534427

TRANSIT DETECTOR 3:
534866

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
534464-3 [Rapidos®]	2018-07-13 – 2018-10-03	473770 / 6378961, RADON 1	Out-door	< 6 Bq/m ³
532939-6 [Rapidos®]	2018-07-13 – 2018-10-03	473770 / 6378961, RADON 1	Out-door	< 5 Bq/m ³
534764-6 [Rapidos®]	2018-07-13 – 2018-10-03	474702 / 6379807, RADON 2	Out-door	< 5 Bq/m ³
534656-4 [Rapidos®]	2018-07-13 – 2018-10-03	474702 / 6379807, RADON 2	Out-door	< 4 Bq/m ³
534792-7 [Rapidos®]	2018-07-13 – 2018-10-03	474457 / 6376843, RADON 3	Out-door	< 4 Bq/m ³
532576-6 [Rapidos®]	2018-07-13 – 2018-10-03	474457 / 6376843, RADON 3	Out-door	< 4 Bq/m ³
534109-4 [Rapidos®]	2018-07-13 – 2018-10-03	474951 / 6376099, RADON 4	Out-door	< 5 Bq/m ³
535204-2 [Rapidos®]	2018-07-13 – 2018-10-03	476804 / 6375936, RADON 5	Out-door	< 5 Bq/m ³
534580-6 [Rapidos®]	2018-07-13 – 2018-10-03	476804 / 6375936, RADON 5	Out-door	4 ± 3 Bq/m ³

Comment to the results

This report replaces 4856005:1. Reason: new or corrected measurement information has been received.

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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OWN ID
N/A
BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2018-10-10**.
They were measured **2018-10-16**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
535516-9 [Rapidos®]	2018-07-13 – 2018-10-03	474841 / 6374922, RADON 6	Out-door	< 4 Bq/m ³
559313-2 [Rapidos®]	2018-07-13 – 2018-10-03	474841 / 6374922, RADON 6	Out-door	< 4 Bq/m ³
535576-3 [Rapidos®]	2018-07-13 – 2018-10-03	476857 / 6374255, RADON 7	Out-door	< 6 Bq/m ³
534289-4 [Rapidos®]	2018-07-13 – 2018-10-03	476857 / 6374255, RADON 7	Out-door	< 6 Bq/m ³
532567-5 [Rapidos®]	2018-07-13 – 2018-10-03	477240 / 6373284, RADON 8	Out-door	< 4 Bq/m ³
533950-2 [Rapidos®]	2018-07-13 – 2018-10-03	477240 / 6373284, RADON 8	Out-door	< 6 Bq/m ³
534044-3 [Rapidos®]	2018-07-13 – 2018-10-03	479466 / 6373139, RADON 9	Out-door	< 4 Bq/m ³
534501-2 [Rapidos®]	2018-07-13 – 2018-10-03	479466 / 6373139, RADON 9	Out-door	< 4 Bq/m ³
534995-6 [Rapidos®]	2018-07-13 – 2018-10-03	481359 / 6372277, RADON 10	Out-door	< 5 Bq/m ³
534955-0 [Rapidos®]	2018-07-13 – 2018-10-03	481359 / 6372277, RADON 10	Out-door	4 ± 3 Bq/m ³

Comment to the results

This report replaces 4856005:1. Reason: new or corrected measurement information has been received.

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADONOVA INC.

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Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

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Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBq/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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CANADA

OWN ID
N/A
BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2019-02-01**.
They were measured **2019-02-07**.

Test data have been given by Jason Shaver

Property data and address

MEASURE SITE ADDRESS
Wheeler River Project
Wheeler River Project Area
Saskatoon SK S7K 0E9

BUILDING ID

TRANSIT DETECTOR 1: 701774 (1 ± 6 kBq/m³)
TRANSIT DETECTOR 2: 164042 (2 ± 4 kBq/m³)
TRANSIT DETECTOR 3: 182447 (3 ± 4 kBq/m³)

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
724910-5 [Rapidos®]	2018-10-03 – 2019-01-22	"473770, 6378961", Radon 1-A	Out-door	< 3 Bq/m ³
751311-2 [Rapidos®]	2018-10-03 – 2019-01-22	"473770, 6378961", Radon 1-B	Out-door	3 ± 3 Bq/m ³
563363-1 [Rapidos®]	2018-10-03 – 2019-01-22	"474702, 6379807", Radon 2-A	Out-door	< 3 Bq/m ³
985167-6 [Rapidos®]	2018-10-03 – 2019-01-22	"474702, 6379807", Radon 2-B	Out-door	4 ± 3 Bq/m ³
794085-1 [Rapidos®]	2018-10-03 – 2019-01-22	"474457, 6376843", Radon 3-A	Out-door	< 3 Bq/m ³
233893-7 [Rapidos®]	2018-10-03 – 2019-01-22	"474457, 6376843", Radon 3-B	Out-door	3 ± 3 Bq/m ³
183443-1 [Rapidos®]	2018-10-03 – 2019-01-23	"474951, 6376099", Radon 4-A	Out-door	< 3 Bq/m ³
190992-8 [Rapidos®]	2018-10-03 – 2019-01-23	"474951, 6376099", Radon 4-B	Out-door	3 ± 3 Bq/m ³
168409-1 [Rapidos®]	2018-10-03 – 2019-01-23	"476804, 6375936", Radon 5-A	Out-door	4 ± 3 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2019-02-01**.
They were measured **2019-02-07**.

Test data have been given by Jason Shaver

Property data and address

MEASURE SITE ADDRESS
Wheeler River Project
Wheeler River Project Area
Saskatoon SK S7K 0E9

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
222494-7 [Rapidos®]	2018-10-03 – 2019-01-23	"476804 , 6375936", Radon 5-B	Out-door	3 ± 3 Bq/m ³
742701-6 [Rapidos®]	2018-10-03 – 2019-01-22	"474841 , 6374922", Radon 6-A	Out-door	< 3 Bq/m ³
667361-0 [Rapidos®]	2018-10-03 – 2019-01-22	"474841 , 6374922", Radon 6-B	Out-door	3 ± 3 Bq/m ³
555031-4 [Rapidos®]	2018-10-03 – 2019-01-23	"476857 , 6374255", Radon 7-A	Out-door	< 3 Bq/m ³
556395-2 [Rapidos®]	2018-10-03 – 2019-01-23	"476857 , 6374255", Radon 7-B	Out-door	3 ± 3 Bq/m ³
979014-8 [Rapidos®]	2018-10-03 – 2019-01-23	"477240 , 6373284", Radon 8-A	Out-door	< 3 Bq/m ³
945982-7 [Rapidos®]	2018-10-03 – 2019-01-23	"477240 , 6373284", Radon 8-B	Out-door	< 3 Bq/m ³
977289-8 [Rapidos®]	2018-10-03 – 2019-01-24	"479466 , 6373139", Radon 9-A	Out-door	< 3 Bq/m ³
594231-3 [Rapidos®]	2018-10-03 – 2019-01-24	"479466 , 6373139", Radon 9-B	Out-door	< 3 Bq/m ³
164164-6 [Rapidos®]	2018-10-03 – 2019-01-24	"481359 , 6372277", Radon 10-A	Out-door	4 ± 3 Bq/m ³
105056-6 [Rapidos®]	2018-10-03 – 2019-01-24	"481359 , 6372277", Radon 10-B	Out-door	3 ± 3 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADONOVA INC.
900 Oakmont Lane Suite 207
Westmont IL 60559
331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

Transit detectors are used for the return delivery of the high-sensitivity detectors in order to make a more accurate background subtraction.

Radonova Laboratories AB (P.O. Box 6522, SE-751 38 Uppsala, Sweden) is accredited (no. 1489) by SWEDAC to conduct radon-gas measurements using the closed alpha-track detector method. The analysis equipment is checked daily and the detectors are calibrated at regular intervals. CNRPP License CRT 201475.

Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBqh/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2019-05-30**.
They were measured **2019-06-05**.

Test data have been given by Jason Shaver

Property data and address

MEASURE SITE ADDRESS
Wheeler River Project
Wheeler River Project Area
Saskatoon SK S7K 0E9

BUILDING ID

TRANSIT DETECTOR 1: 130341 (16 ± 10 kBq/m³)
TRANSIT DETECTOR 2: 381716 (1 ± 6 kBq/m³)
TRANSIT DETECTOR 3: 520674

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
143034-7 [Rapidos®]	2019-01-22 – 2019-05-12	Wheeler, Radon 1-A	Out-door	< 4 Bq/m ³
142928-1 [Rapidos®]	2019-01-22 – 2019-05-12	Wheeler, Radon 1-B	Out-door	< 6 Bq/m ³
335475-0 [Rapidos®]	2019-01-22 – 2019-05-12	Wheeler, Radon 2-A	Out-door	3 ± 3 Bq/m ³
209800-2 [Rapidos®]	2019-01-22 – 2019-05-12	Wheeler, Radon 2-B	Out-door	< 4 Bq/m ³
129519-5 [Rapidos®]	2019-01-22 – 2019-05-12	Wheeler, Radon 3-A	Out-door	< 5 Bq/m ³
143630-2 [Rapidos®]	2019-01-22 – 2019-05-12	Wheeler, Radon 3-B	Out-door	3 ± 3 Bq/m ³
377270-4 [Rapidos®]	2019-01-23 – 2019-05-12	Wheeler, Radon 4-A	Out-door	< 3 Bq/m ³
377966-7 [Rapidos®]	2019-01-23 – 2019-05-12	Wheeler, Radon 4-B	Out-door	< 5 Bq/m ³
128478-5 [Rapidos®]	2019-01-23 – 2019-05-12	Wheeler, Radon 5-A	Out-door	< 3 Bq/m ³

Comment to the results

Tryggve Rönngqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2019-05-30**.
They were measured **2019-06-05**.

Test data have been given by Jason Shaver

Property data and address

MEASURE SITE ADDRESS
Wheeler River Project
Wheeler River Project Area
Saskatoon SK S7K 0E9

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
334614-5 [Rapidos®]	2019-01-23 – 2019-05-12	Wheeler, Radon 5-B	Out-door	< 4 Bq/m ³
143678-1 [Rapidos®]	2019-01-22 – 2019-05-12	Wheeler, Radon 6-A	Out-door	< 4 Bq/m ³
335632-6 [Rapidos®]	2019-01-22 – 2019-05-12	Wheeler, Radon 6-B	Out-door	< 4 Bq/m ³
334970-1 [Rapidos®]	2019-01-23 – 2019-05-12	Wheeler, Radon 7-A	Out-door	< 3 Bq/m ³
334118-7 [Rapidos®]	2019-01-23 – 2019-05-12	Wheeler, Radon 7-B	Out-door	4 ± 3 Bq/m ³
143512-2 [Rapidos®]	2019-01-23 – 2019-05-12	Wheeler, Radon 8-A	Out-door	< 4 Bq/m ³
340366-4 [Rapidos®]	2019-01-23 – 2019-05-12	Wheeler, Radon 8-B	Out-door	3 ± 3 Bq/m ³
145062-6 [Rapidos®]	2019-01-24 – 2019-05-13	Wheeler, Radon 9-A	Out-door	< 3 Bq/m ³
143270-7 [Rapidos®]	2019-01-24 – 2019-05-13	Wheeler, Radon 9-B	Out-door	< 4 Bq/m ³
326949-5 [Rapidos®]	2019-01-24 – 2019-05-13	Wheeler, Radon 10-A	Out-door	3 ± 3 Bq/m ³
375595-6 [Rapidos®]	2019-01-24 – 2019-05-13	Wheeler, Radon 10-B	Out-door	< 3 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADONOVA INC.

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Westmont IL 60559
331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

Transit detectors are used for the return delivery of the high-sensitivity detectors in order to make a more accurate background subtraction.

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Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBqh/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

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VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
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Signature on the report

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CANADA

BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2019-10-03**.
They were measured **2019-10-08**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS

BUILDING ID
Wheeler River

TRANSIT DETECTOR 1: 261965 (10 ± 6 kBqh/m3)
TRANSIT DETECTOR 2: 485028 (12 ± 4 kBqh/m3)
TRANSIT DETECTOR 3: 300591 (22 ± 6 kBqh/m3)

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
766047-5 [Rapidos®]	2019-09-12 – 2019-09-30	Phoenix	Out-door	< 41 Bq/m ³
179097-1 [Rapidos®]	2019-09-12 – 2019-09-30	Phoenix	Out-door	< 34 Bq/m ³
299607-2 [Rapidos®]	2019-09-12 – 2019-09-30	Phoenix	Out-door	< 34 Bq/m ³
119104-8 [Rapidos®]	2019-09-12 – 2019-09-30	Phoenix	Out-door	< 41 Bq/m ³
366509-8 [Rapidos®]	2019-09-12 – 2019-09-30	Phoenix	Out-door	< 34 Bq/m ³
181579-4 [Rapidos®]	2019-09-12 – 2019-09-30	Phoenix	Out-door	< 41 Bq/m ³
135898-5 [Rapidos®]	2019-09-12 – 2019-09-30	Phoenix	Out-door	< 41 Bq/m ³
269759-7 [Rapidos®]	2019-09-12 – 2019-09-30	Phoenix	Out-door	< 34 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2019-10-03**.
They were measured **2019-10-08**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS

BUILDING ID
Wheeler River

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
378358-6 [Rapidos®]	2019-09-12 – 2019-09-30	Phoenix	Out-door	< 41 Bq/m ³
388225-5 [Rapidos®]	2019-09-12 – 2019-09-30	Phoenix	Out-door	< 41 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADONOVA INC.

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331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement is performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

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Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBq/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2019-10-18**.
They were measured **2019-10-22**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS

BUILDING ID

TRANSIT DETECTOR 1: 271066 (9 ± 6 kBq/m³)
TRANSIT DETECTOR 2: 361393 (9 ± 6 kBq/m³)
TRANSIT DETECTOR 3: 247270 (9 ± 4 kBq/m³)

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
597723-6 [Rapidos®]	2019-09-30 –	Phoenix	Out-door	< 13 kBq/m ³
299768-2 [Rapidos®]	2019-09-30 –	Phoenix	Out-door	8 ± 6 kBq/m ³
531709-4 [Rapidos®]	2019-09-30 –	Phoenix	Out-door	8 ± 6 kBq/m ³
685869-0 [Rapidos®]	2019-09-30 –	Phoenix	Out-door	< 13 kBq/m ³
314804-6 [Rapidos®]	2019-09-30 –	Phoenix	Out-door	< 7 kBq/m ³
384821-5 [Rapidos®]	2019-09-30 –	Phoenix	Out-door	14 ± 6 kBq/m ³
253782-7 [Rapidos®]	2019-09-30 –	Phoenix	Out-door	9 ± 6 kBq/m ³
270050-8 [Rapidos®]	2019-09-30 –	Phoenix	Out-door	< 13 kBq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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331.814.2200, help@radonova.com

Denison Mines Corp
Pamela Bennett
230 22nd Street East
Suite 200
Saskatoon SK S7K 0E9
CANADA

OWN ID
N/A
BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2019-10-18**.
They were measured **2019-10-22**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
438793-2 [Rapidos®]	2019-09-30 –	Phoenix	Out-door	< 7 kBq/m ³
267572-6 [Rapidos®]	2019-09-30 –	Phoenix	Out-door	< 13 kBq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADONOVA INC.
900 Oakmont Lane Suite 207
Westmont IL 60559
331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

Transit detectors are used for the return delivery of the high-sensitivity detectors in order to make a more accurate background subtraction.

Radonova Laboratories AB (P.O. Box 6522, SE-751 38 Uppsala, Sweden) is accredited (no. 1489) by SWEDAC to conduct radon-gas measurements using the closed alpha-track detector method. The analysis equipment is checked daily and the detectors are calibrated at regular intervals. CNRPP License CRT 201475.

Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBq/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2019-10-03**.
 They were measured **2019-10-08**.

Test data have been given by Jason Shaver

Property data and address

MEASURE SITE ADDRESS

Wheeler River Project
 Wheeler River Project Area
 Saskatoon SK S7K 0E9

BUILDING ID

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
421708-9 [Rapidos®]	2019-05-12 – 2019-09-25	Wheeler, Radon 1-B		< 4 Bq/m ³
430190-9 [Rapidos®]	2019-05-12 – 2019-09-25	Wheeler, Radon 1-A		< 3 Bq/m ³
731677-1 [Rapidos®]	2019-05-12 – 2019-09-25	Wheeler, Radon 2-A		6 ± 3 Bq/m ³
271265-1 [Rapidos®]	2019-05-12 – 2019-09-25	Wheeler, Radon 2-B		3 ± 3 Bq/m ³
787451-4 [Rapidos®]	2019-05-12 – 2019-09-25	Wheeler, Radon 3-A		6 ± 3 Bq/m ³
794898-7 [Rapidos®]	2019-05-12 – 2019-09-25	Wheeler, Radon 3-B		3 ± 3 Bq/m ³
386143-2 [Rapidos®]	2019-05-12 – 2019-09-25	Wheeler, Radon 4-A		< 3 Bq/m ³
496398-9 [Rapidos®]	2019-05-12 – 2019-09-25	Wheeler, Radon 4-B		3 ± 3 Bq/m ³
771857-0 [Rapidos®]	2019-05-12 – 2019-09-26	Wheeler, Radon 5-A		12 ± 3 Bq/m ³
346396-5 [Rapidos®]	2019-05-12 – 2019-09-26	Wheeler, Radon 5-B		5 ± 3 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2019-10-03**.
They were measured **2019-10-08**.

Test data have been given by Jason Shaver

Property data and address

MEASURE SITE ADDRESS
Wheeler River Project
Wheeler River Project Area
Saskatoon SK S7K 0E9

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
157102-5 [Rapidos®]	2019-05-12 – 2019-09-25	Wheeler, Radon 6-A		5 ± 3 Bq/m ³
324426-6 [Rapidos®]	2019-05-12 – 2019-09-25	Wheeler, Radon 6-B		< 3 Bq/m ³
600407-1 [Rapidos®]	2019-05-12 – 2019-09-26	Wheeler, Radon 7-A		19 ± 4 Bq/m ³
385254-8 [Rapidos®]	2019-05-12 – 2019-09-26	Wheeler, Radon 7-B		12 ± 3 Bq/m ³
795844-0 [Rapidos®]	2019-05-12 – 2019-09-25	Wheeler, Radon 8-A		3 ± 3 Bq/m ³
689429-9 [Rapidos®]	2019-05-12 – 2019-09-25	Wheeler, Radon 8-B		4 ± 3 Bq/m ³
524479-3 [Rapidos®]	2019-05-13 – 2019-09-26	Wheeler, Radon 9-A		6 ± 3 Bq/m ³
993493-6 [Rapidos®]	2019-05-13 – 2019-09-26	Wheeler, Radon 9-B		7 ± 3 Bq/m ³
914532-7 [Rapidos®]	2019-05-13 – 2019-09-26	Wheeler, Radon 10-A		3 ± 3 Bq/m ³
994946-2 [Rapidos®]	2019-05-13 – 2019-09-26	Wheeler, Radon 10-B		5 ± 3 Bq/m ³

Comment to the results

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Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement is performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

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Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBq/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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BY
Denison Mines
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RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2020-02-11**.
They were measured **2020-02-18**.

Test data have been given by Jennifer Skilnick

Property data and address

MEASURE SITE ADDRESS
Wheeler River Project
Wheeler River Project Area
Saskatoon SK S7K 0E9

BUILDING ID

TRANSIT DETECTOR 1:
756479

TRANSIT DETECTOR 2:
779240

TRANSIT DETECTOR 3:
432280 (9 ± 8 kBq/m³)

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
339220-6 [Rapidos®]	2019-09-25 – 2020-02-06	Wheeler, Radon 1-A	Out-door	< 4 Bq/m ³
415534-7 [Rapidos®]	2019-09-25 – 2020-02-06	Wheeler, Radon 1-B	Out-door	3 ± 3 Bq/m ³
945665-8 [Rapidos®]	2019-09-25 – 2020-02-06	Wheeler, Radon 2-A	Out-door	4 ± 3 Bq/m ³
182624-7 [Rapidos®]	2019-09-25 – 2020-02-06	Wheeler, Radon 2-B	Out-door	< 4 Bq/m ³
310857-8 [Rapidos®]	2019-09-25 – 2020-02-06	Wheeler, Radon 3-A	Out-door	< 2 Bq/m ³
382993-4 [Rapidos®]	2019-09-25 – 2020-02-06	Wheeler, Radon 3-B	Out-door	3 ± 2 Bq/m ³
344686-1 [Rapidos®]	2019-09-25 – 2020-02-06	Wheeler, Radon 4-A	Out-door	4 ± 3 Bq/m ³
119649-2 [Rapidos®]	2019-09-25 – 2020-02-06	Wheeler, Radon 4-B	Out-door	2 ± 2 Bq/m ³
593581-2 [Rapidos®]	2019-09-26 – 2020-02-06	Wheeler, Radon 5-B	Out-door	4 ± 2 Bq/m ³

Comment to the results

Trygve Rönngvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2020-02-11**.
They were measured **2020-02-18**.

Test data have been given by Jennifer Skilnick

Property data and address

MEASURE SITE ADDRESS
Wheeler River Project
Wheeler River Project Area
Saskatoon SK S7K 0E9

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
152891-8 [Rapidos®]	2019-09-25 – 2020-01-21	Wheeler, Radon 6-A	Out-door	19 ± 4 Bq/m ³
262394-0 [Rapidos®]	2019-09-25 – 2020-01-21	Wheeler, Radon 6-B	Out-door	14 ± 4 Bq/m ³
472921-6 [Rapidos®]	2019-09-26 – 2020-02-07	Wheeler, Radon 7-A	Out-door	4 ± 2 Bq/m ³
197031-8 [Rapidos®]	2019-09-26 – 2020-02-07	Wheeler, Radon 7-B	Out-door	3 ± 2 Bq/m ³
361270-2 [Rapidos®]	2019-09-25 – 2020-02-07	Wheeler, Radon 8-A	Out-door	5 ± 3 Bq/m ³
648339-0 [Rapidos®]	2019-09-25 – 2020-02-07	Wheeler, Radon 8-B	Out-door	< 4 Bq/m ³
451442-8 [Rapidos®]	2019-09-26 – 2020-02-07	Wheeler, Radon 9-A	Out-door	< 4 Bq/m ³
949464-2 [Rapidos®]	2019-09-26 – 2020-02-07	Wheeler, Radon 9-B	Out-door	2 ± 2 Bq/m ³
176973-6 [Rapidos®]	2019-09-26 – 2020-02-07	Wheeler, Radon 10-A	Out-door	4 ± 3 Bq/m ³
774882-5 [Rapidos®]	2019-09-26 – 2020-02-07	Wheeler, Radon 10-B	Out-door	2 ± 2 Bq/m ³
467529-4 [Rapidos®]	2019-09-26 – 2020-02-06	Wheeler, Radon 5-A	Out-door	3 ± 2 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

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Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBq/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

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N/A
BY
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REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2020-07-30**.
They were measured **2020-08-05**.

Test data have been given by Dana Harris

Property data and address

MEASURE SITE ADDRESS
Wheeler River
Wheeler River Project Site
Saskatoon SK S7K 0E9

BUILDING ID

TRANSIT DETECTOR 1: 924786 (8 ± 4 kBq/m³)
TRANSIT DETECTOR 2: 987771 (8 ± 6 kBq/m³)
TRANSIT DETECTOR 3: 693060 (8 ± 4 kBq/m³)

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
350177-2 [Rapidos®]	2020-01-21 – 2020-07-24	Wheeler River, Radon-6A	Out-door	5 ± 3 Bq/m ³
986215-2 [Rapidos®]	2020-01-21 – 2020-07-24	Wheeler River, Radon-6B	Out-door	7 ± 3 Bq/m ³
221593-7 [Rapidos®]	2020-02-06 – 2020-07-25	Wheeler River, Radon-2A	Out-door	4 ± 3 Bq/m ³
644943-3 [Rapidos®]	2020-02-06 – 2020-07-25	Wheeler River, Radon-2B	Out-door	8 ± 3 Bq/m ³
761140-3 [Rapidos®]	2020-02-06 – 2020-07-24	Wheeler River, Radon-3A	Out-door	9 ± 3 Bq/m ³
231885-5 [Rapidos®]	2020-02-06 – 2020-07-24	Wheeler River, Radon-3B	Out-door	5 ± 3 Bq/m ³
280558-8 [Rapidos®]	2020-02-06 – 2020-07-25	Wheeler River, Radon-4A	Out-door	5 ± 3 Bq/m ³
263265-1 [Rapidos®]	2020-02-06 – 2020-07-25	Wheeler River, Radon-4B	Out-door	10 ± 3 Bq/m ³
295613-4 [Rapidos®]	2020-02-06 – 2020-07-24	Wheeler River, Radon-5A	Out-door	9 ± 3 Bq/m ³

Comment to the results

Trygve Rönngvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2020-07-30**.
They were measured **2020-08-05**.

Test data have been given by Dana Harris

Property data and address

MEASURE SITE ADDRESS
Wheeler River
Wheeler River Project Site
Saskatoon SK S7K 0E9

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
118311-0 [Rapidos®]	2020-02-06 – 2020-07-24	Wheeler River, Radon-5B	Out-door	4 ± 3 Bq/m ³
345718-1 [Rapidos®]	2020-02-07 – 2020-07-23	Wheeler River, Radon-7A	Out-door	6 ± 4 Bq/m ³
159420-9 [Rapidos®]	2020-02-07 – 2020-07-23	Wheeler River, Radon-7B	Out-door	7 ± 4 Bq/m ³
657220-0 [Rapidos®]	2020-02-07 – 2020-07-23	Wheeler River, Radon-8A	Out-door	5 ± 4 Bq/m ³
911167-5 [Rapidos®]	2020-02-07 – 2020-07-23	Wheeler River, Radon-8B	Out-door	< 3 Bq/m ³
245665-5 [Rapidos®]	2020-02-07 – 2020-07-24	Wheeler River, Radon-9A	Out-door	< 3 Bq/m ³
197252-0 [Rapidos®]	2020-02-07 – 2020-07-24	Wheeler River, Radon-9B	Out-door	4 ± 4 Bq/m ³
280737-8 [Rapidos®]	2020-02-07 – 2020-07-25	Wheeler River, Radon-10A	Out-door	< 3 Bq/m ³
243646-7 [Rapidos®]	2020-02-07 – 2020-07-25	Wheeler River, Radon-10B	Out-door	6 ± 3 Bq/m ³

Comment to the results

Tryggve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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900 Oakmont Lane Suite 207
Westmont IL 60559
331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

Transit detectors are used for the return delivery of the high-sensitivity detectors in order to make a more accurate background subtraction.

Radonova Laboratories AB (P.O. Box 6522, SE-751 38 Uppsala, Sweden) is accredited (no. 1489) by SWEDAC to conduct radon-gas measurements using the closed alpha-track detector method. The analysis equipment is checked daily and the detectors are calibrated at regular intervals. CNRPP License CRT 201475.

Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBqh/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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CANADA

BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2019-11-05**.
They were measured **2019-11-08**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS
Phoenix Site

BUILDING ID
Phoenix Site

TRANSIT DETECTOR 1: 368089 (11 ± 8 kBq/m³)
TRANSIT DETECTOR 2: 288869
TRANSIT DETECTOR 3: 356927 (13 ± 6 kBq/m³)

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
557059-3 [Rapidos®]	2019-10-14 – 2019-10-28	Phoenix	Out-door	< 24 Bq/m ³
269572-4 [Rapidos®]	2019-10-14 – 2019-10-28	Phoenix	Out-door	< 24 Bq/m ³
248158-8 [Rapidos®]	2019-10-14 – 2019-10-28	Phoenix	Out-door	< 43 Bq/m ³
795201-3 [Rapidos®]	2019-10-14 – 2019-10-28	Phoenix	Out-door	< 19 Bq/m ³
376111-1 [Rapidos®]	2019-10-14 – 2019-10-28	Phoenix	Out-door	< 29 Bq/m ³
281219-6 [Rapidos®]	2019-10-14 – 2019-10-28	Phoenix	Out-door	< 43 Bq/m ³
326207-8 [Rapidos®]	2019-10-14 – 2019-10-28	Phoenix	Out-door	< 43 Bq/m ³
153281-1 [Rapidos®]	2019-10-14 – 2019-10-28	Phoenix	Out-door	< 25 Bq/m ³
294974-1 [Rapidos®]	2019-10-14 – 2019-10-28	Phoenix	Out-door	< 25 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2019-11-05**.
They were measured **2019-11-08**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS
Phoenix Site

BUILDING ID
Phoenix Site

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
592734-8 [Rapidos®]	2019-10-14 – 2019-10-28	Phoenix	Out-door	< 24 Bq/m ³
158629-6 [Rapidos®]	2019-10-14 – 2019-10-28	Phoenix	Out-door	< 29 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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Accred. no. 1489
Testing
ISO/IEC 17025

RADONOVA INC.

900 Oakmont Lane Suite 207
Westmont IL 60559
331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement is performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

Transit detectors are used for the return delivery of the high-sensitivity detectors in order to make a more accurate background subtraction.

Radonova Laboratories AB (P.O. Box 6522, SE-751 38 Uppsala, Sweden) is accredited (no. 1489) by SWEDAC to conduct radon-gas measurements using the closed alpha-track detector method. The analysis equipment is checked daily and the detectors are calibrated at regular intervals. CNRPP License CRT 201475.

Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBq/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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N/A
BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2019-11-20**.
They were measured **2019-11-26**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS

BUILDING ID
Phoenix Zone

TRANSIT DETECTOR 1: 358638 (44 ± 8 kBq/m³)
TRANSIT DETECTOR 2: 149779 (46 ± 8 kBq/m³)
TRANSIT DETECTOR 3: 939267 (42 ± 8 kBq/m³)

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
283457-0 [Rapidos®]	2019-10-28 – 2019-11-15	Outside	Out-door	155 ± 42 Bq/m ³
491724-1 [Rapidos®]	2019-10-28 – 2019-11-15	Outside		72 ± 29 Bq/m ³
315249-3 [Rapidos®]	2019-10-28 – 2019-11-15	Outside	Out-door	69 ± 29 Bq/m ³
247005-2 [Rapidos®]	2019-10-28 – 2019-11-15	Outside	Out-door	< 30 Bq/m ³
316175-9 [Rapidos®]	2019-10-28 – 2019-11-15	Outside	Out-door	32 ± 24 Bq/m ³
917216-4 [Rapidos®]	2019-10-28 – 2019-11-15	Outside	Out-door	< 23 Bq/m ³
781288-6 [Rapidos®]	2019-10-28 – 2019-11-15	Outside	Out-door	79 ± 29 Bq/m ³
482176-5 [Rapidos®]	2019-10-28 – 2019-11-15	Outside	Out-door	69 ± 29 Bq/m ³
284297-9 [Rapidos®]	2019-10-28 – 2019-11-15	Outside	Out-door	39 ± 24 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2019-11-20**.
They were measured **2019-11-26**.

No person has signed the record card and verified that the instructions have been followed.

Property data and address

MEASURE SITE ADDRESS

BUILDING ID
Phoenix Zone

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
902995-0 [Rapidos®]	2019-10-28 – 2019-11-15	Outside	Out-door	< 30 Bq/m ³
677620-7 [Rapidos®]	2019-10-28 – 2019-11-15		Out-door	< 33 Bq/m ³
990692-6 [Rapidos®]	2019-10-28 – 2019-11-15		Out-door	< 33 Bq/m ³
191999-2 [Rapidos®]	2019-10-28 – 2019-11-15		Out-door	< 30 Bq/m ³
765926-1 [Rapidos®]	2019-10-28 – 2019-11-15		Out-door	< 30 Bq/m ³
486529-1 [Rapidos®]	2019-10-28 – 2019-11-15		Out-door	< 30 Bq/m ³
298585-1 [Rapidos®]	2019-10-28 – 2019-11-15		Out-door	39 ± 29 Bq/m ³
280057-1 [Rapidos®]	2019-10-28 – 2019-11-15		Out-door	44 ± 24 Bq/m ³

Comment to the results

Tryggve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADONOVA INC.

900 Oakmont Lane Suite 207
Westmont IL 60559
331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

Transit detectors are used for the return delivery of the high-sensitivity detectors in order to make a more accurate background subtraction.

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Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBq/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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Denison Mines Corp
 Pamela Bennett
 230 22nd Street East
 Suite 200
 Saskatoon SK S7K 0E9
 CANADA

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2020-11-13**. They were measured **2020-11-19**.

Test data have been given by Dana Harris

Property data and address

MEASURE SITE ADDRESS

Wheeler River Project Area
 230 22 St E
 Saskatoon SK S7K 0E9

BUILDING ID

TRANSIT DETECTOR 1: 348666 (10 ± 4 kBq/m³) TRANSIT DETECTOR 2: 628249 (15 ± 6 kBq/m³) TRANSIT DETECTOR 3: 915347 (13 ± 4 kBq/m³)

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
699605-2 [Rapidos®]	2020-07-25 – 2020-11-03	Radon 1A	Out-door	< 5 Bq/m ³
947477-6 [Rapidos®]	2020-07-25 – 2020-11-03	Radon 1B	Out-door	< 5 Bq/m ³
233238-5 [Rapidos®]	2020-07-25 – 2020-11-03	Radon 2A	Out-door	< 3 Bq/m ³
723976-7 [Rapidos®]	2020-07-25 – 2020-11-03	Radon 2B	Out-door	< 5 Bq/m ³
405482-1 [Rapidos®]	2020-07-24 – 2020-11-03	Radon 3A	Out-door	< 3 Bq/m ³
547196-6 [Rapidos®]	2020-07-24 – 2020-11-03	Radon 3B	Out-door	3 ± 3 Bq/m ³
176744-1 [Rapidos®]	2020-07-25 – 2020-11-03	Radon 4A	Out-door	< 3 Bq/m ³
585217-3 [Rapidos®]	2020-07-25 – 2020-11-03	Radon 4B	Out-door	3 ± 3 Bq/m ³
991329-4 [Rapidos®]	2020-07-24 – 2020-11-03	Radon 5A-missing	Out-door	DNR

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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BY
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REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2020-11-13**.
They were measured **2020-11-19**.

Test data have been given by Dana Harris

Property data and address

MEASURE SITE ADDRESS
Wheeler River Project Area
230 22 St E
Saskatoon SK S7K 0E9

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
258302-9 [Rapidos®]	2020-07-24 – 2020-11-03	Radon 5B	Out-door	< 3 Bq/m ³
351592-1 [Rapidos®]	2020-07-24 – 2020-11-03	Radon 6A	Out-door	< 3 Bq/m ³
671825-8 [Rapidos®]	2020-07-24 – 2020-11-03	Radon 6B	Out-door	3 ± 3 Bq/m ³
669513-4 [Rapidos®]	2020-07-23 – 2020-11-04	Radon 7A	Out-door	< 3 Bq/m ³
280764-2 [Rapidos®]	2020-07-23 – 2020-11-04	Radon 7B	Out-door	< 5 Bq/m ³
902442-3 [Rapidos®]	2020-07-23 – 2020-11-05	Radon 8A	Out-door	< 3 Bq/m ³
481604-7 [Rapidos®]	2020-07-23 – 2020-11-05	Radon 8B	Out-door	< 3 Bq/m ³
194347-1 [Rapidos®]	2020-07-24 – 2020-11-05	Radon 9A	Out-door	< 5 Bq/m ³
466645-9 [Rapidos®]	2020-07-24 – 2020-11-05	Radon 9B	Out-door	< 3 Bq/m ³
132460-7 [Rapidos®]	2020-07-25 – 2020-11-05	Radon 10A	Out-door	< 3 Bq/m ³
736361-7 [Rapidos®]	2020-07-25 – 2020-11-05	Radon 10B	Out-door	< 3 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADONOVA INC.

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Westmont IL 60559
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Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

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Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBqh/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

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OWN ID
N/A
BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2020-11-13**. They were measured **2020-11-19**.

Test data have been given by Janna Switzer

Property data and address

MEASURE SITE ADDRESS
*Denison Mines
230 22 St E
Saskatoon SK S7K 0E9*

BUILDING ID

TRANSIT DETECTOR 1: 348666 (10 ± 4 kBq/m³)
TRANSIT DETECTOR 2: 628249 (15 ± 6 kBq/m³)
TRANSIT DETECTOR 3: 915347 (13 ± 4 kBq/m³)

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
258302-9 [Rapidos®]	2020-07-24 – 2020-11-03	Radon-5B		< 3 Bq/m ³
176744-1 [Rapidos®]	2020-07-25 – 2020-11-03	Radon-4A		< 3 Bq/m ³
132460-7 [Rapidos®]	2020-07-25 – 2020-11-05	Radon-10A		< 3 Bq/m ³
351592-1 [Rapidos®]	2020-07-24 – 2020-11-03	Radon-6A		< 3 Bq/m ³
481604-7 [Rapidos®]	2020-07-23 – 2020-11-05	Radon-8B		< 3 Bq/m ³
194347-1 [Rapidos®]	2020-07-24 – 2020-11-05	Radon-9A		< 5 Bq/m ³
699605-2 [Rapidos®]	2020-07-25 – 2020-11-03	Radon-1A		< 5 Bq/m ³
585217-3 [Rapidos®]	2020-07-25 – 2020-11-03	Radon-4B		3 ± 3 Bq/m ³
902442-3 [Rapidos®]	2020-07-23 – 2020-11-05	Radon-8A		< 3 Bq/m ³

Comment to the results

Trygve Rönnqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADONOVA INC.

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Pamela Bennett
230 22nd Street East
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Saskatoon SK S7K 0E9
CANADA

OWN ID
N/A
BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2020-11-13**. They were measured **2020-11-19**.

Test data have been given by Janna Switzer

Property data and address

MEASURE SITE ADDRESS
*Denison Mines
230 22 St E
Saskatoon SK S7K 0E9*

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
466645-9 [Rapidos®]	2020-07-24 – 2020-11-05	Radon-9B		< 3 Bq/m ³
671825-8 [Rapidos®]	2020-07-24 – 2020-11-03	Radon-6B		3 ± 3 Bq/m ³
669513-4 [Rapidos®]	2020-07-23 – 2020-11-04	Radon-7A		< 3 Bq/m ³
405482-1 [Rapidos®]	2020-07-24 – 2020-11-03	Radon-3A		< 3 Bq/m ³
280764-2 [Rapidos®]	2020-07-23 – 2020-11-04	Radon-7B		< 5 Bq/m ³
947477-6 [Rapidos®]	2020-07-25 – 2020-11-03	Radon-1B		< 5 Bq/m ³
547196-6 [Rapidos®]	2020-07-24 – 2020-11-03	Radon-3B		3 ± 3 Bq/m ³
736361-7 [Rapidos®]	2020-07-25 – 2020-11-05	Radon-10B		< 3 Bq/m ³
723976-7 [Rapidos®]	2020-07-25 – 2020-11-03	Radon-2B		< 5 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADONOVA INC.

900 Oakmont Lane Suite 207
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331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

Transit detectors are used for the return delivery of the high-sensitivity detectors in order to make a more accurate background subtraction.

Radonova Laboratories AB (P.O. Box 6522, SE-751 38 Uppsala, Sweden) is accredited (no. 1489) by SWEDAC to conduct radon-gas measurements using the closed alpha-track detector method. The analysis equipment is checked daily and the detectors are calibrated at regular intervals. CNRPP License CRT 201475.

Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBq/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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CANADA

BY
Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2021-02-24**.
They were measured **2021-03-02**.

Test data have been given by Janna Switzer

Property data and address

MEASURE SITE ADDRESS
*Denison Mines
230 22nd St. East, Suite 200
Saskatoon SK S7K 0E9*

BUILDING ID

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
127659-1 [Rapidos®]	2020-11-03 – 2021-02-18	Radon-3A	Out-door	< 7 Bq/m ³
426440-4 [Rapidos®]	2020-11-03 – 2021-02-18	Radon-3B	Out-door	6 ± 4 Bq/m ³
464408-4 [Rapidos®]	2020-11-03 – 2021-02-18	Radon-4A	Out-door	< 7 Bq/m ³
661183-4 [Rapidos®]	2020-11-03 – 2021-02-18	Radon-4B	Out-door	< 6 Bq/m ³
433299-5 [Rapidos®]	2020-11-03 – 2021-02-18	Radon-5A	Out-door	6 ± 4 Bq/m ³
903490-1 [Rapidos®]	2020-11-03 – 2021-02-18	Radon-5B	Out-door	< 7 Bq/m ³
451091-3 [Rapidos®]	2020-11-03 – 2021-02-18	Radon-6A	Out-door	< 5 Bq/m ³
947547-6 [Rapidos®]	2020-11-03 – 2021-02-18	Radon-6B	Out-door	5 ± 4 Bq/m ³
619196-9 [Rapidos®]	2020-11-04 – 2021-02-17	Radon-7A	Out-door	< 5 Bq/m ³
348529-9 [Rapidos®]	2020-11-04 – 2021-02-17	Radon-7B	Out-door	< 7 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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Denison Mines
REPORT RECEIVER(S)

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2021-02-24**.
They were measured **2021-03-02**.

Test data have been given by Janna Switzer

Property data and address

MEASURE SITE ADDRESS
*Denison Mines
230 22nd St. East, Suite 200
Saskatoon SK S7K 0E9*

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
934585-1 [Rapidos®]	2020-11-05 – 2021-02-17	Radon-8A	Out-door	5 ± 5 Bq/m ³
386101-0 [Rapidos®]	2020-11-05 – 2021-02-17	Radon-8B	Out-door	< 7 Bq/m ³
366585-8 [Rapidos®]	2020-11-05 – 2021-02-17	Radon-9A	Out-door	< 7 Bq/m ³
268862-0 [Rapidos®]	2020-11-05 – 2021-02-17	Radon-9B	Out-door	< 6 Bq/m ³
518308-2 [Rapidos®]	2020-11-05 – 2021-02-17	Radon-10A	Out-door	< 5 Bq/m ³
140816-0 [Rapidos®]	2020-11-05 – 2021-02-17	Radon-10B	Out-door	< 5 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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Accred. no. 1489
Testing
ISO/IEC 17025

RADONOVA INC.

900 Oakmont Lane Suite 207
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331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement is performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

Transit detectors are used for the return delivery of the high-sensitivity detectors in order to make a more accurate background subtraction.

Radonova Laboratories AB (P.O. Box 6522, SE-751 38 Uppsala, Sweden) is accredited (no. 1489) by SWEDAC to conduct radon-gas measurements using the closed alpha-track detector method. The analysis equipment is checked daily and the detectors are calibrated at regular intervals. CNRPP License CRT 201475.

Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBqh/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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CANADA

BY
Denison Mines
REPORT RECEIVER(S)
Denison Mines
Denison Mines Corp.

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2021-06-18**.
They were measured **2021-06-22**.

Test data have been given by Jennifer Skilnick

Property data and address

MEASURE SITE ADDRESS
Denison Mines Corp.
Wheeler River Project Area
Saskatoon SK S7K 0E9

BUILDING ID

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
626137-4 [Rapidos®]	2021-02-17 – 2021-06-08	10-B	Out-door	< 3 Bq/m ³
375675-6 [Rapidos®]	2021-02-17 – 2021-06-08	9-A	Out-door	7 ± 4 Bq/m ³
134411-8 [Rapidos®]	2021-02-17 – 2021-06-08	10-A	Out-door	< 3 Bq/m ³
931677-9 [Rapidos®]	2021-02-17 – 2021-06-09	8-A	Out-door	< 3 Bq/m ³
758401-4 [Rapidos®]	2021-02-18 – 2021-06-08	6-B	Out-door	< 3 Bq/m ³
674719-0 [Rapidos®]	2021-02-17 – 2021-06-08	9-B	Out-door	< 5 Bq/m ³
779887-9 [Rapidos®]	2021-02-17 – 2021-06-09	7-B	Out-door	< 5 Bq/m ³
454518-2 [Rapidos®]	2021-02-17 – 2021-06-09	7-A	Out-door	< 5 Bq/m ³
545221-4 [Rapidos®]	2021-02-18 – 2021-06-08	6-A	Out-door	< 3 Bq/m ³
946452-0 [Rapidos®]	2021-02-18 – 2021-06-08	5-B	Out-door	< 3 Bq/m ³

Comment to the results

The registered transit detectors 605077, 980972 & 674432 were not returned.

Tryggve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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CANADA

OWN ID
N/A
BY
Denison Mines
REPORT RECEIVER(S)
Denison Mines
Denison Mines Corp.

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2021-06-18**.
They were measured **2021-06-22**.

Test data have been given by Jennifer Skilnick

Property data and address

MEASURE SITE ADDRESS
Denison Mines Corp.
Wheeler River Project Area
Saskatoon SK S7K 0E9

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
955607-7 [Rapidos®]	2021-02-17 – 2021-06-09	8-B	Out-door	< 5 Bq/m ³
674800-8 [Rapidos®]	2021-02-18 – 2021-06-08	4-B	Out-door	< 3 Bq/m ³
302048-4 [Rapidos®]	2021-02-18 – 2021-06-08	3-A	Out-door	< 5 Bq/m ³
563882-0 [Rapidos®]	2021-02-18 – 2021-06-08	5-A	Out-door	< 3 Bq/m ³
306998-6 [Rapidos®]	2021-02-18 – 2021-06-08	4-A	Out-door	< 3 Bq/m ³
566682-1 [Rapidos®]	2021-02-18 – 2021-06-08	3-B	Out-door	< 3 Bq/m ³

Comment to the results

The registered transit detectors 605077, 980972 & 674432 were not returned.

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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RADONOVA INC.
900 Oakmont Lane Suite 207
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331.814.2200, help@radonova.com

Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

Transit detectors are used for the return delivery of the high-sensitivity detectors in order to make a more accurate background subtraction.

Radonova Laboratories AB (P.O. Box 6522, SE-751 38 Uppsala, Sweden) is accredited (no. 1489) by SWEDAC to conduct radon-gas measurements using the closed alpha-track detector method. The analysis equipment is checked daily and the detectors are calibrated at regular intervals. CNRPP License CRT 201475.

Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBq/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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Jennifer Skilnick
230 22nd Street East Suite 200
Saskatoon SK S7K 0E9
CANADA

OWN ID
N/A
BY
Denison Mines
REPORT RECEIVER(S)
lwillemse@denisonenvironmental.com
Denison Mines
Denison Mines Corp

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2021-09-28**.
They were measured **2021-10-04**.

Test data have been given by Jennifer Skilnick

Property data and address

MEASURE SITE ADDRESS
Denison Mines Corp
Wheeler River
Saskatoon SK S7K 0E9

BUILDING ID

TRANSIT DETECTOR 1: 344310 (8 ± 4 kBq/m³)
TRANSIT DETECTOR 2: 676489 (3 ± 6 kBq/m³)
TRANSIT DETECTOR 3: 813970 (2 ± 4 kBq/m³)

Test results

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
939709-2 [Rapidos®]	2021-06-08 – 2021-09-21	1A	Out-door	< 4 Bq/m ³
521692-4 [Rapidos®]	2021-06-08 – 2021-09-21	1B	Out-door	4 ± 3 Bq/m ³
280829-3 [Rapidos®]	2021-06-08 – 2021-09-21	2A	Out-door	< 4 Bq/m ³
277051-9 [Rapidos®]	2021-06-08 – 2021-09-21	3A	Out-door	< 4 Bq/m ³
148078-9 [Rapidos®]	2021-06-08 – 2021-09-21	3B	Out-door	< 5 Bq/m ³
438812-0 [Rapidos®]	2021-06-08 – 2021-09-21	4A	Out-door	4 ± 3 Bq/m ³
658969-1 [Rapidos®]	2021-06-08 – 2021-09-21	4B	Out-door	4 ± 3 Bq/m ³
767721-4 [Rapidos®]	2021-06-08 – 2021-09-21	5A	Out-door	4 ± 3 Bq/m ³
696374-8 [Rapidos®]	2021-06-08 – 2021-09-21	5B	Out-door	4 ± 3 Bq/m ³

Comment to the results

Trygve Rönnqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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lwillemse@denisonenvironmental.com
Denison Mines
Denison Mines Corp

RADON MONITORING REPORT

Description of the measurement

The measurement was performed with a closed high-sensitivity alpha-track detector.

The detector(s) arrived to Radonova Laboratories AB **2021-09-28**.
They were measured **2021-10-04**.

Test data have been given by Jennifer Skilnick

Property data and address

MEASURE SITE ADDRESS
Denison Mines Corp
Wheeler River
Saskatoon SK S7K 0E9

BUILDING ID

DETECTOR	MEASUREMENT PERIOD	DESCRIPTION / LOCATION	LOCATION TYPE	RADON RESULT
161028-6 [Rapidos®]	2021-06-08 – 2021-09-21	6A	Out-door	< 4 Bq/m ³
416451-3 [Rapidos®]	2021-06-08 – 2021-09-21	6B	Out-door	< 4 Bq/m ³
368371-1 [Rapidos®]	2021-06-09 – 2021-09-21	7A	Out-door	7 ± 4 Bq/m ³
781946-9 [Rapidos®]	2021-06-09 – 2021-09-21	7B	Out-door	5 ± 3 Bq/m ³
226419-0 [Rapidos®]	2021-06-09 – 2021-09-21	8A	Out-door	< 6 Bq/m ³
801195-9 [Rapidos®]	2021-06-09 – 2021-09-21	8B	Out-door	4 ± 3 Bq/m ³
147329-7 [Rapidos®]	2021-06-08 – 2021-09-22	9A	Out-door	< 4 Bq/m ³
749949-4 [Rapidos®]	2021-06-08 – 2021-09-22	9B	Out-door	< 5 Bq/m ³
308375-5 [Rapidos®]	2021-06-08 – 2021-09-22	10A	Out-door	< 4 Bq/m ³
350617-7 [Rapidos®]	2021-06-08 – 2021-09-22	10B	Out-door	< 4 Bq/m ³

Comment to the results

Trygve Rönqvist (Electronically signed)

Signature Radonova Laboratories AB Laboratory Measurement Specialist

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DISCLAIMER

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RADONOVA INC.

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Measurement method: Closed alpha-track detector (Rapidos® High Sensitivity)

The radon measurement was performed with a closed alpha-track detector following the quality assurance guidance given in CNRPP-AL-DF-v6. The detector container is manufactured from electrically conducting plastic. Through a small slit (filter), radon gas enters the detector. The track-detecting material (film) inside the detector is hit by alpha particles generated by the radon entering the container and the decay products formed from it. On the film, the alpha particles make small tracks which are enlarged through chemical etching and later analyzed via our proprietary Track-Etch(R) methodology to determine the radon exposure.

Transit detectors are used for the return delivery of the high-sensitivity detectors in order to make a more accurate background subtraction.

Radonova Laboratories AB (P.O. Box 6522, SE-751 38 Uppsala, Sweden) is accredited (no. 1489) by SWEDAC to conduct radon-gas measurements using the closed alpha-track detector method. The analysis equipment is checked daily and the detectors are calibrated at regular intervals. CNRPP License CRT 201475.

Measured radon concentrations

For each detector, the measured value of the radon concentration is provided. For each value an uncertainty associated with the measurement to a 95% confidence level is also provided. For example a measurement result of 200 ± 30 Bq/m³ means that the radon concentration is most likely contained in the range 170 - 230 Bq/m³. If the start or end date of the measurement has not been provided, the radon concentration cannot be calculated. In such cases, the total exposure in kBqh/m³ will be reported. The average radon concentration can be calculated by dividing the total exposure with the number of measured hours and multiplying that result with 1000. The reported measured values are related to the detectors as received by Radonova Laboratories AB. Detector deployment is not performed by Radonova Laboratories AB. Measurement information such as monitoring period (dates) and placement location is provided to Radonova Laboratories AB by the end user.

The average transit exposure has been subtracted in the reported radon concentrations.

Codes on non-reportable detectors

DNR	Not Reported – Detector Not Returned
VTW	Not Reported – Visibly Tampered With
FBD	Not Reported – Film Broken or Damaged
LIL	Not Reported – Lost in Lab
DTO	Not Reported – Detector Too Old

Signature on the report

With the signature on the report, the person responsible for the radon analysis at Radonova Laboratories AB hereby certifies that the measurement procedures follows the guidance in accordance with CNRPP-AL-DF-v6 and that the demands from SWEDAC are fulfilled.

Measurement information displayed in italics on report has been provided by the customer.



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