

Mineral Resource Impact Assessment Proposed Residential Development

4850 Bank Street
Ottawa, Ontario

Prepared for Regional Group

Report PG6999-1 Revision 1 dated August 8, 2025

Table of Contents

1.0	Introduction	1
2.0	Proposed Development	1
3.0	Location and Surface Conditions	1
3.1	City of Ottawa Official Plan	2
3.2	Zoning	3
4.0	Future and Current Mineral Aggregate Operations	4
4.1	Current Aggregate Operations.....	4
4.2	Future Aggregate Operations	1
5.0	Provincial Standards - Aggregate Resources of Ontario.....	1
6.0	Potential Impact on Current Aggregate Operations	2
7.0	Compatibility and Mitigation Analysis	2
7.1	Noise	2
7.2	Traffic	3
7.3	Dust.....	4
7.4	Vibration	4
7.5	Fly-rock.....	4
7.6	Groundwater.....	5
8.0	Conclusions.....	5
9.0	Statement of Limitations.....	6

Appendix

Appendix 1 Drawing PG6999-1 – Site Plan
 Historical Aerial Photographs
 Aggregate Resource – GIP Quarry

Appendix 2 Environmental Noise Control Study - Stationary Noise Component -
 Proposed Residential Development - GIP Quarry - Ottawa -
 Prepared by Paterson Group Inc - Report Number PG6999-2 - dated
 January 18, 2024

1.0 Introduction

Paterson Group (Paterson) was commissioned by Regional Group to conduct a mineral resource impact assessment in support of the proposed residential development at 4850 Bank Street as required by Section 3.7.4 of the City of Ottawa Official Plan.

The objective of the current assessment was to evaluate the potential for land use impacts relating to land use compatibility between the proposed development and the adjacent mineral aggregate resources currently and potentially in operation.

Based on Section 2.5 of the Provincial Policy Statement (PPS) 2020, mineral aggregate resources shall be protected from long-term use and, where provincial information is available, deposits of mineral aggregate resources shall be identified.

2.0 Proposed Development

Based on the available drawings, it is understood that the proposed development will consist of single-family residential dwellings and/or townhouse blocks with associated roadways. A stormwater management pond has also been proposed within the northeast corner of the site. It is also understood that the proposed development will be municipally serviced. The subject site has a total frontage of 20.5 m along Bank Street and an area of approximately 21 ha.

3.0 Location and Surface Conditions

The subject site occupies Part of Lot 22 of Concession 4, Geographic Township of Gloucester. The site has been noted to be undeveloped and heavily forested. The site generally slopes downwards to the east and west from the central area. The central area has an approximate geodetic elevation of 109 m.

The subject site is generally bordered to the east by Bank Street and residential dwellings, to the north by a residential development currently under construction, to the west by mature forest follow by the Leitrim Evaluated Wetland and to the south by mature forest. The subject location is identified in Drawing PG6999-1 – Site Plan in Appendix 1.

3.1 City of Ottawa Official Plan

The subject site is designated as Rural Countryside as designated on Schedule B9 - 'Rural Transect' of the City's Official Plan. The properties to the north are further designated as Rural Countryside before the Urban Boundary, to the east and west as Rural Countryside, to the southeast as a mix of Rural Countryside and Bedrock Resource Area, and Sand and Gravel Resource area, see Figure 1 below.

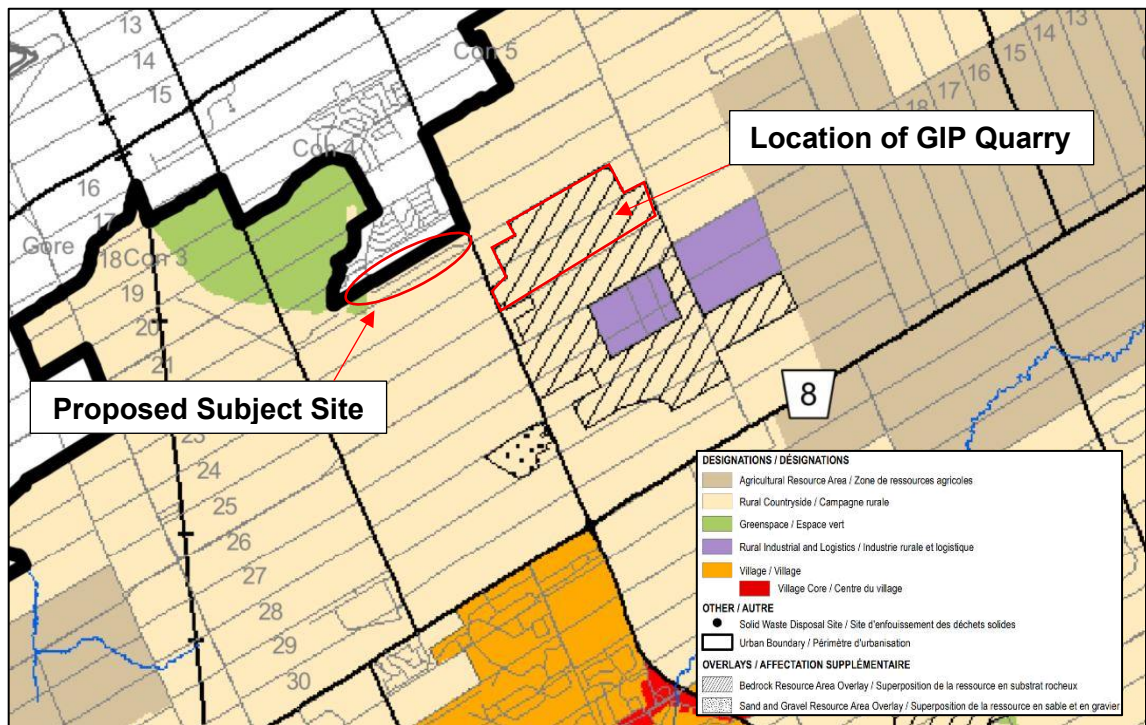


Figure 1: The City of Ottawa Official Plan - Schedule B9 – Rural Transect

Section 5.6.3.2 of the City's Official Plan sets out policies to protect mineral aggregate operations from incompatible development and minimize negative effects on neighborhoods. Policies 3, 4, and 5 of Section 5.6.3.2 notes the following:

Policy 3:

New development shall not be approved within 500 metres of lands within the Bedrock Resource Area Overlay, or within 300 metres of lands within the Sand and Gravel Resource Area Overlay, unless it can be demonstrated through a mineral aggregate impact assessment that such development shall not conflict with future mineral aggregate extraction. Conflicting land uses are new sensitive land uses that interfere with mineral aggregate extraction, including but not limited to:

- a) The creation of new lots; except where the intention is to sever a lot for a dwelling existing as of July 9, 1997 and the vacant parcel that remains is rezoned to prohibit the construction of a new dwelling or lodging place;*
- b) Rezoning to permit dwellings or lodging places (motels, campgrounds, nursing homes, places of assembly etc.); and*
- c) Small-scale business uses where animals, equipment or employees may be adversely affected by pit or quarry activities.*

Policy 4:

New development may be approved within 500 metres of an existing licensed bedrock quarry or within 300 metres of an existing sand and gravel pit if it can be demonstrated that the existing mineral aggregate operation, and potential future expansion of the operation in depth or extent, will not be affected by the development.

Policy 5:

Where the City approves the development of land in accordance with the Policies 3) or 4) above, it may impose conditions to ensure the development provides adequate buffering and/or separation between the new proposed use and the mineral aggregate area/operation.

Although the subject site is not located within 300 m of the Sand and Gravel Resource Area Overlay, or 500 m of a Bedrock Resource Area Overlay, it is situated within 300 m of parcels zoned as Mineral Extraction (ME). Therefore, a Mineral Resource Impact Assessment has been completed in order to review the potential impacts the proposed development may have on current and/or future mineral aggregate operations.

3.2 Zoning

The City of Ottawa Zoning By-law 2008-250 zones the subject site as Rural Countryside. The property is bound to the north by Mixed Use Commercial (GM) and Residential (R3Z and R5Z) zoning and to the east by Rural Commercial (RC2) and Rural Countryside (RU) zoning. At the south boundary, further Rural Commercial (RC4[248r]) and Rural Countryside (RU) borders the subject site. At the west perimeter of the site, a parcel of Environmental Zone (EP3) was identified.

A Bedrock Resource Area is located east of the subject site. The licenced quarry operation zoned Mineral Extraction – ME has been identified approximately 320 m east of the subject site and noted herein as the GIP Quarry. Given the above noted Mineral Extraction is within 500 m of the subject site, it has been considered in this assessment. Figure 2 illustrates the proximity of the of the subject site to the above noted mineral extraction.



Figure 2: Subject Site and Surrounding Area Zoning

4.0 Future and Current Mineral Aggregate Operations

4.1 Current Aggregate Operations

The bedrock quarry, also known as the GIP Quarry on the Mineral of Natural Resources database, is located southeast of the subject site across Bank Street. This quarry is currently owned by Green Infrastructure Partners (GIP) and will be referenced as the GIP Quarry from this point on. Details of the quarry are provided below and attached to the current report. A series of historical aerial photographs have been attached to the present letter to provide an extraction history of the aggregate resource.

The site consists of approximately 300 acres with a frontage of approximately 300 m along Bank Street. Based on the Ministry of Natural Resources and Forestry database, the following information has been provided for the quarry:

- ☐ Site ID: 4042
- ☐ Approval Type: Class A Licence
- ☐ Operation Type: Quarry
- ☐ Max. Annual Tonnage: 18,000,000
- ☐ Licenced Area: 122.2 ha
- ☐ Location Name: GIP Quarry

4.2 Future Aggregate Operations

It is understood that the GIP Quarry will continue its operation and could potentially expand within the bedrock resource area to the northeast. However, the future expansion is located well outside 500m from the subject site and does not require an assessment.

5.0 Provincial Standards - Aggregate Resources of Ontario

The Aggregate Resources of Ontario Provincial Standards, Version 1.0, specifies minimum standards for Licence, Aggregate Permits, and Wayside Permits. The Operational Standards Section of the provincial standards includes standards that all licensed aggregate operations must adhere to within the province of Ontario. In particular, the Operational Standards Section of the provincial standards identifies the required setbacks for all licensed mineral aggregate operations. Excavation setbacks are defined in **Section 5.10** of the Operational Standards for a Category 2 License as the following:

5.10.1 fifteen meters from the boundary of the site;

5.10.2 thirty meters from any part of the boundary of the site that abuts:

5.10.2.1 a highway,

5.10.2.2 land in use for residential purposes at the time the license was issued, or

5.10.2.3 land restricted to residential use by a zoning by-law when the license was issued; or

5.10.3 thirty meters from any body of water that is not the result of excavation below the water table

Furthermore, **Section 5.11** has noted that “no extraction can occur within the excavation setback area of the site”.

The existing bedrock quarry east of the subject site is currently in operation. For the purpose of this report, it is understood that the operation of the bedrock quarry will be on the basis of a license for a quarry to extract resources to an elevation below the water table (Category 2 License - Class “A” quarry below water).

Based on Section 5.10 of the Operational Standards for a Category 2 License, a minimum setback of 15 m will be required from the property boundary of the quarry operation. The closest point of the subject site was noted to be approximately 320 m from the eastern boundary of the GIP Quarry lands. With the required setback of 15 m, the total setback between the quarry and subject site is 335 m. An additional parcel of land branches off the main quarry to Bank Street through the rural commercially zoned lands with a width of approximately 21 m. As this land is not zoned for mineral extraction it will not be included in Paterson’s review of the quarry impacts on the proposed development.

6.0 Potential Impact on Current Aggregate Operations

A total of one licensed active quarry has been identified within 500m on the lands designated as Bedrock Resource Area located approximately 320m east of the subject site. As previously noted, the GIP Quarry has a Class “A” licence to remove greater than 20,000 tonnes annually. No additional quarry operations or future extractions have been identified within 500m of the proposed residential development.

7.0 Compatibility and Mitigation Analysis

In order to protect the GIP Quarry from the encroachment of incompatible land uses, an area of influence has been established as per Section 5.6.3.2 of the City’s Official Plan. The area of influence for lands designated as Bedrock Resource Area is 500 m. As such, the 500m area of influence is applied in order to evaluate the potential impacts of future developments on the current operation.

Given the proposed residential development is located within 500m of a Bedrock Resource Area, the potential for land use conflicts may occur with the current operation. As such, Paterson has reviewed the potential impacts related to the proposed development on the current aggregate operation located east of the subject site. Factors that have been considered in Paterson review include noise, traffic, dust, vibration, fly-rock and groundwater.

7.1 Noise

The subject site is identified within the 500m radius of the GIP Quarry. Therefore, a stationary noise study was completed by Paterson per City of Ottawa and MECP requirements under separate cover. Refer to Paterson Group Report PG6999-2 dated January 24, 2024, found in Appendix 2.

During the analysis of this noise study, a worse case scenario was utilized which included adding additional operating equipment and expanding the boundaries of GIP Quarry. Results of the noise study indicate that the existing operations at the GIP Quarry will not cause noise levels measured at the proposed residential development that exceeds the industry standards. Therefore, the proposed residential development is not required to undertake noise mitigation measures to protect it from the GIP Quarry.

A visit to observe the GIP Quarry was completed by Paterson in December of 2023. Based on the observations at the quarry, it is noted that the majority of the extraction of bedrock has been completed at the western portion of quarry. The southwestern portion of quarry consists of buildings and parking areas. The working faces of the quarry are currently at the midpoint, heading east. It should

be noted that the vertical bedrock faces of the quarry along the western boundary ranged from 10 to 15m in depth creating a sound barrier. Foliage areas with densely populated mature trees approximately 9m height are noted along the northern boundary of the quarry. The GIP Quarry is further set back approximately 205m from Bank Street excluding the 15m setback. At the time of quarry visit, multiple dump trucks and rock trucks were noted, a further three rock crushers and an asphaltic concrete plant were also noted. Trucks were also noted entering and leaving the quarry every 25 to 45 minutes from the entrance on Bank Street. Excavation work was noted at the midpoint of quarry. However, at the time of the site visit the noise level induced by excavation work was minimal.

The noise impact of bedrock extraction operations at the quarry towards the proposed residential development was measured using the sound level meter Reed 8080. However, at the time of the site visit to record the noise levels produced at the GIP Quarry was completing off-season operations. Therefore, the only noise levels recorded on the monitoring device was of the surface traffic on Bank Street.

An alternative application to this information is that the proposed residential development within the subject site will not require any modifications to the GIP Quarry to reduce the proposed noise levels as the noise levels at the proposed residential lots will be within acceptable limits.

7.2 Traffic

It is understood that the current main truck route for the operation at the GIP Quarry is Bank Street, and it will continue utilizing this road for future operations. It is anticipated that the proposed development will be accessed primarily from Bank Street with an alternate access point by the future Earl Armstrong Extension to the north of the subject site. Details of the proposed residential development at 4850 Bank Street have not been provided yet but it is understood to consist of residential dwellings.

Given Bank Street is classified as an arterial road that carries large volumes of traffic, intermittent traffic generated by the proposed residential development will be negligible in comparison and will not preclude or hinder the current aggregate operation. Likewise, the truck traffic generated by the current aggregate operation will not interfere with the proposed residential development.

Therefore, no potential compatibility impacts are anticipated between the proposed development and current aggregate operation.

7.3 Dust

Under Section 3.1, 3.2 and 3.3 of the Operational Standards of the Aggregate Resources of Ontario: Provincial Standards, Version 1.0, all operations are responsible for maintaining dust emissions. During the quarry visit in December of 2023 minimal dust induced by excavation work was noted at the operational area of quarry due to winter conditions. It was also noted that stockpiles of extracted aggregates are present, with no excessive dust, within the operational area of quarry. Based on discussions with staff of the GIP Quarry, dust control on the haul roads and processing areas at the operation is done regularly using water as a suppressant.

Based on our review, the GIP Quarry operates in accordance with the aforementioned sections of the Operational Standards of the Aggregate Resources of Ontario: Provincial Standards, Version 1.0. It is anticipated the proposed development may require water or other approved dust suppressants only during the construction stages. The proposed development will not result in addition measures being required for dust mitigation post-construction.

7.4 Vibration

As part of the current aggregate operation, it is understood the GIP Quarry requires drilling and blasting for extraction purposes. However, there is a 335m setback at the southwestern boundary of the quarry. As a result, sources of vibration from the operation have minimal impact on the proposed residential development. Therefore, additional vibration mitigation measures will not be required for the bedrock quarry.

Blasting may be required for deep service installations within the proposed development. However, vibrations dissipate over distance. With the aforementioned 335 m setback between the proposed development and the GIP Quarry, vibrations should be negligible and have no impact on quarry operations.

Furthermore, extraction at the western portion of the quarry is complete, all future expansion is anticipated to be further from the proposed development than current operations. As vibrations dissipate over distance, vibration levels will be lower as operations expand into the northeast or east quadrant.

7.5 Fly-rock

Given the total setback from the quarry operation to the proposed residential development is approximately 335 m, it is well outside any risk of fly-rock that may be generated from blasting. Therefore, additional blasting (fly-rock) mitigation measures for the current operation will not be required as a result of the proposed residential development.

As previously noted, blasting may be required for deep service installations within the proposed development. However, due to a setback of 335 m to the GIP Quarry, the operation is outside any risk of fly-rock that may be generated from the blasting.

7.6 Groundwater

It is understood the proposed development will be municipally serviced and therefore will not require the installation of a private well and/or septic system. Therefore, the potential of the GIP Quarry to interfere with the water supply at the subject site is negligible. It is further understood that continuous groundwater monitoring is required by the GIP Quarry under their current Permit to Take Water (PTTW) issued by the MECP.

The maximum total pumping volumes anticipated for the building/servicing excavations during construction of the proposed development will be negligible in comparison to the water takings requested to dewater the GIP Quarry (15,000,000 L/day). Furthermore, construction dewatering activities at the subject site will be short-term given the nature of the development. As such, dewatering activities related to the construction of the proposed development is not expected to impact the current quarry operation.

8.0 Conclusions

Based on Paterson's review, the proposed residential development will not preclude or hinder the current operation of the GIP Quarry in proximity to the subject site by means of noise, dust, traffic, vibration, fly-rock and groundwater impacts. Similarly, the current operations of the GIP Quarry in proximity to the subject site will not impact the proposed residential development.

9.0 Statement of Limitations

The recommendations provided in this report are in accordance with our present understanding of the project.

The present report applies only to the project described in this document. Use of this report for purposes other than those described herein or by person(s) other than Regional Group, or their agent(s) is not authorized without review by Paterson Group for the applicability of our recommendations to the altered use of the report.

Paterson Group Inc.



Carly R. Ladd, B.Sc.



Nicholas Zulinski, P.Geo., géo.

Report Distribution:

- ☐ Regional Group (e-mail copy)
- ☐ Paterson Group (1 copy)

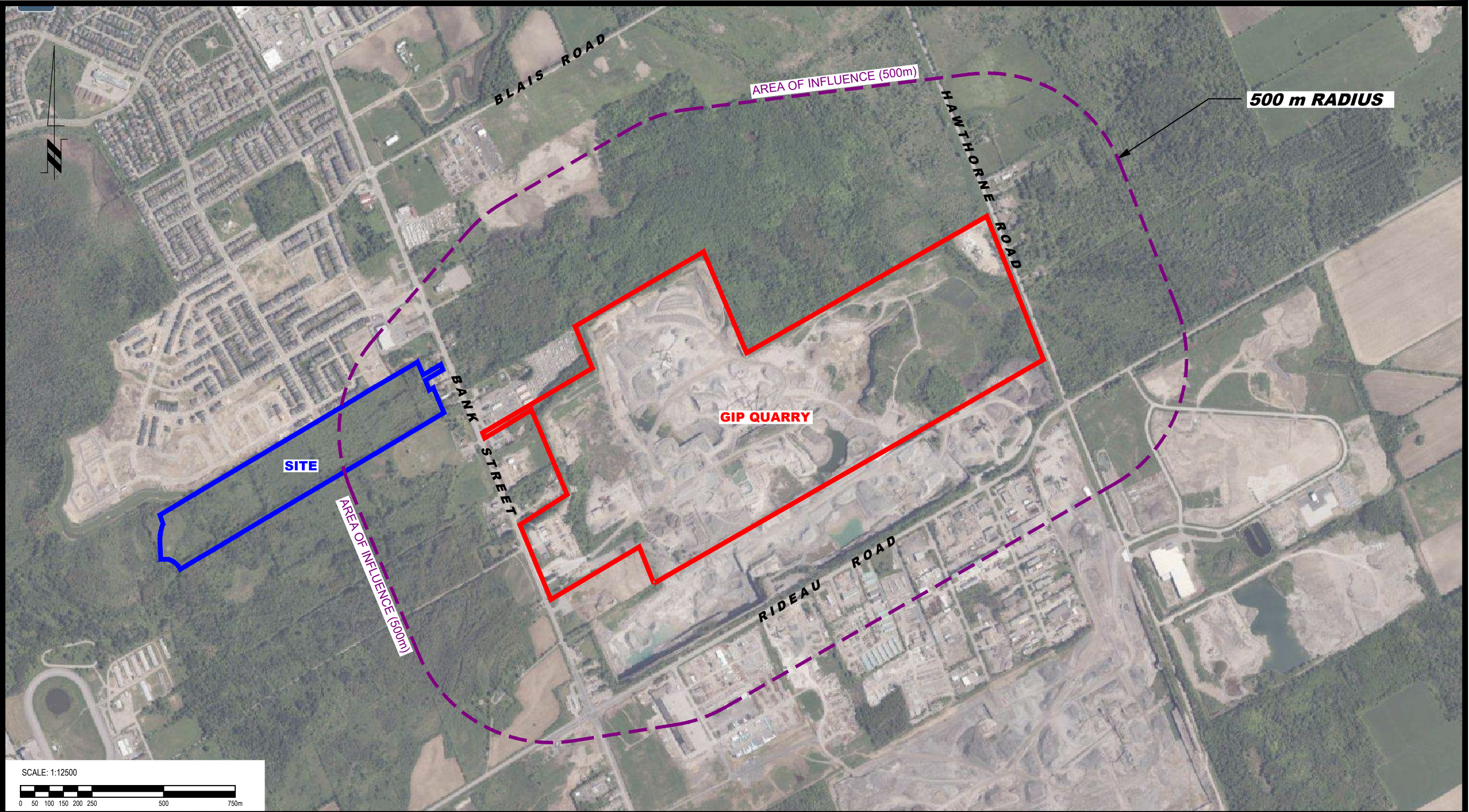


APPENDIX 1

Drawing PG6999-1 – Site Plan

Historical Aerial Photographs

Aggregate Resource – GIP Quarry





**PATERSON
GROUP**
9 AURIGA DRIVE
OTTAWA, ON
K2E 7T9
TEL: (613) 226-7381

NO.	REVISIONS	DATE	INITIAL

REGIONAL GROUP
MINERAL RESOURCE IMPACT ASSESSMENT
4850 BANK STREET
OTTAWA,
Title:

ONTARIO
SITE PLAN

Scale:	1:12500	Date:	01/2024
Drawn by:	NFRV	Report No.:	PG6999-1
Checked by:	OM	Dwg. No.:	PG6999-1
Approved by:	SB	Revision No.:	



FIGURE 1

HISTORICAL PHOTOGRAPH – 1976



FIGURE 2
HISTORICAL PHOTOGRAPH – 1991



FIGURE 3

HISTORICAL PHOTOGRAPH – 1999



FIGURE 4

HISTORICAL PHOTOGRAPH – 2008



FIGURE 5
HISTORICAL PHOTOGRAPH – 2011



FIGURE 6

HISTORICAL PHOTOGRAPH – 2017



FIGURE 7
HISTORICAL PHOTOGRAPH – 2021



FIGURE 8

HISTORICAL PHOTOGRAPH – 2022



4042

français

Tools



Tool Labels



Aggregate Site Authorized (1)

☆ ALPS ID: 4042

Client Name:

Green Infrastructure Partners Inc.

Approval Type:

CLASS A LICENCE > 20000 TONNES

Operation Type:

Quarry

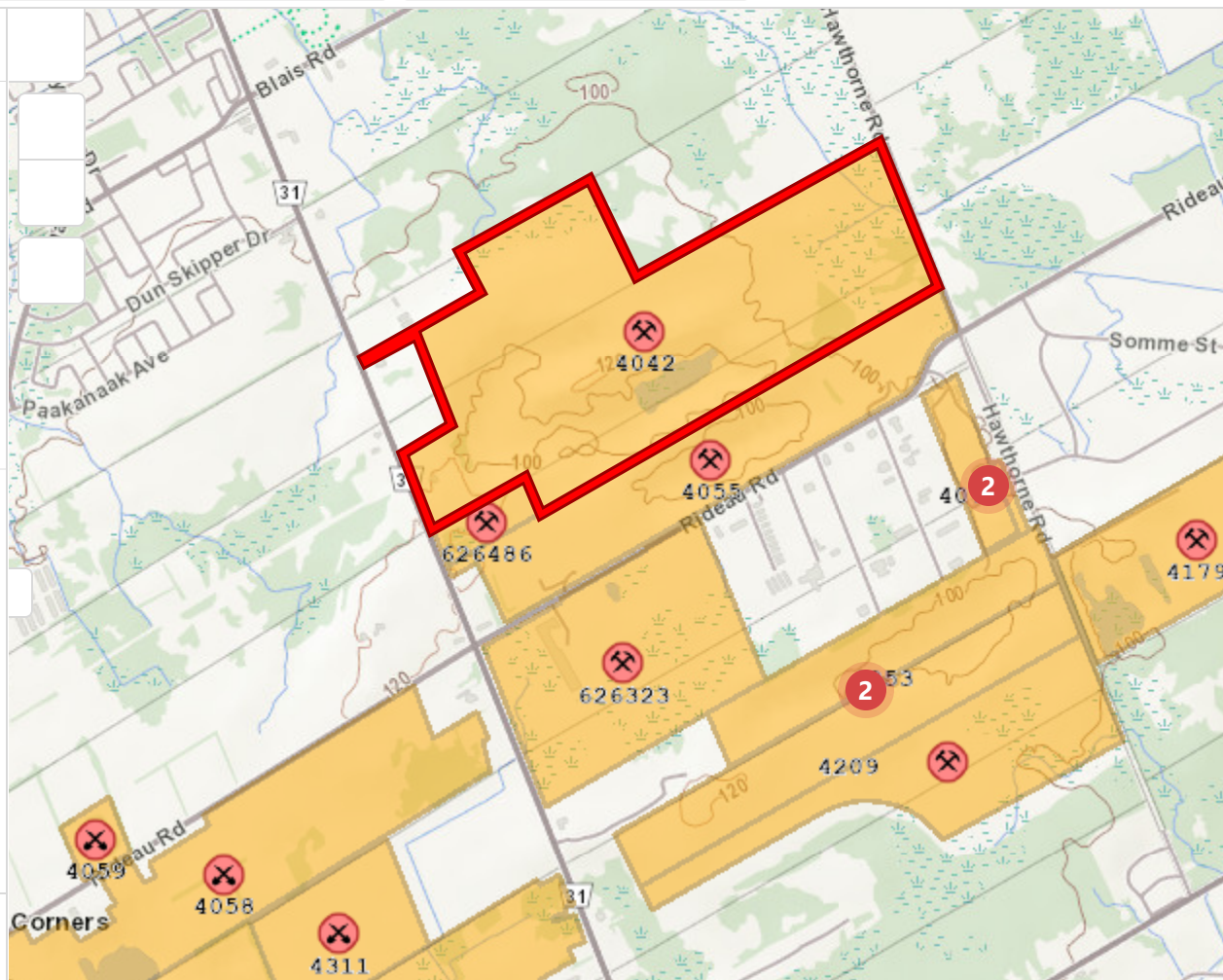
Max. Annual Tonnage:

1800000

Authorized Area (ha):

122.2

Location Name:



Displaying 1 - 1 (Total: 1)



Home



Pits a...



Aggre...



Map L...



0.6km



APPENDIX 2

**Environmental Noise Control Study - Stationary Noise Component - Proposed
Residential Development - GIP Quarry - Ottawa - Prepared by Paterson Group Inc
- Report Number PG6999-2 - dated January 18, 2024**

Environmental Noise Control Study – Stationary Noise Component Proposed Residential Development

4850 Bank Street
Ottawa, Ontario

Prepared for Regional Group

Report PG6999-02 dated January 18, 2024

Table of Contents

	PAGE
1.0 Introduction	1
2.0 Background	1
3.0 Methodology and Noise Assessment Criteria	2
4.0 Analysis	3
5.0 Discussion	4
6.0 Conclusion	5
7.0 Statement of Limitations	6

Appendices

Appendix 1	Figure 1 - Model of Proposed Residential Development
	Figure 2 - Initial Analysis (Table of Result)
	Figure 3 - Initial Analysis (Contour Result)
	Item Properties

1.0 Introduction

Paterson Group (Paterson) was commissioned by Regional Group to conduct a Stationary Noise Review for the proposed residential development to be located at 4850 Bank Street located within the in the City of Ottawa. It should be noted that Paterson's report was solely prepared to review the stationary noise source, which is identified as the adjacent property (GIP Quarry).

The following report has been prepared specifically and solely for the aforementioned project which is described herein. It contains our findings and includes acoustical recommendations pertaining to the design and construction of the subject development as they are understood at the time of writing this report.

This study has been conducted according to City of Ottawa document - Engineering Noise Control Guidelines (ENCG), dated January 2016, and the Ontario Ministry of the Environment Guideline NPC-300.

2.0 Background

Detailed drawings for the proposed residential development were not available at the time of preparing this report. However, it is understood that the development will consist of single-family residential dwellings and/or townhouse blocks with associated roadways. Stormwater management ponds are also proposed as part of the development. The subject area consists of approximately 21 hectares of vacant land, with heavy vegetation and mature trees.

3.0 Methodology and Noise Assessment Criteria

Stationary Noise

Stationary noise sources include sources or facilities that are fixed or mobile and can cause a combination of sound and vibration levels emitted beyond the property line. These sources may include commercial air conditioner units, generators, and fans. Facilities that may contribute to stationary noise may include car washes, snow disposal sites, transit stations and manufacturing facilities. In this situation, the stationary noise source consists of an existing bedrock extraction quarry.

The impact of stationary noise sources is directly related to the location of the subject site within the urban environment. The proposed development can be classified as Class 2 by provincial guidelines and outlined in the ENGC, meaning “a suburban areas of the City outside of the busy core where the urban hum is evident but within the urban boundary”.

Table 1 - Guidelines for Stationary Noise - Class 2		
Time of Day	Outdoor Point of Reception	Pane of Window
7:00-19:00	50	50
19:00-23:00	45	50
23:00-7:00	-	45
Standards taken from Table 3.2a; Guidelines for Stationary Noise - Steady and Varying Sound		

If the sound level limits are exceeded the following Warning Clause may be referenced:

Table 2 – Warning Clauses for Sound Level Exceedances	
Warning Clause	Description
Warning Clause Type E	"Purchasers/tenants are advised that due to the proximity of the adjacent industry (facility) (utility), noise from the industry (facility) (utility) may at times be audible."
Clauses taken from section C8 Warning Clauses; Environmental Noise Guidelines - NPC-300	

4.0 Analysis

The stationary noise source consisting of the GIP Quarry was identified within the 500 m radius from the proposed development.

It is understood that the most western edge of the GIP Quarry is separated from the southeastern edge of the proposed residential development by approximately 160 metres, and the GIP Quarry is set back approximately 220m west of its western boundary (Bank Street). The working areas of the GIP Quarry are centrally located within the quarry with an asphalt plant located within the western portion of the quarry. Based on the City of Ottawa Official Plan, the GIP Quarry is located within the designated Bedrock Resource Area. It is further understood that the GIP Quarry has approximately 10 – 15 years of production remaining. The quarry limits are bounded by Hawthorn Road to the west and the property boundary and Bank Street to the east. It is possible for the aggregate extraction operation at GIP Quarry to expand to the east in the upcoming years, but it is not possible that the GIP Quarry will expand past its western property boundary further than Bank Street and its northern property boundary. This stationary noise source is considered temporary, and all analysis and recommendations made with respect to this stationary noise source can be removed from all deeds of sale once the bedrock quarry is closed.

The noise sources were modelled as the worst-case indicator. The equipment utilized in the analysis is representative of the equipment that is used for bedrock excavation. The equipment at the GIP Quarry at the time of the study consisted of three large scale rock crushing units, loaders, an asphaltic concrete mixing plant, and multiple forms of large-scale trucks. A break down of the frequencies and sound levels of these equipment is included in Appendix 1.

The GIP Quarry is the only stationary noise source near to the proposed development, and it is located within the 500 m proximity. The analysis was completed with specialized noise software: Predictor-Lima Version 2021.1. Thirteen (13) reception points (REC 1 to REC 13) were selected on the northern, western, and southern elevations of proposed dwellings for our analysis. The reception points were selected at 1.5 m and 4.5 m elevations, so that the pane of glass at the first level and second level of the proposed development could be interpolated. The results of these reception points are included in Appendix 1.

5.0 Discussion

Surface Transportation Noise

Results of the analysis can be found in Appendix 1. Reception points were analyzed at 1.5 m and 4.5 m elevations.

Proposed Residential Developments

An analysis was completed for the proposed residential development, taking into consideration the lot layouts and approximate building alignments. An initial analysis was performed with no sound mitigation measures. This analysis at various locations of the proposed residential development resulted in a maximum value of 50 dBA and 44 dBA, respectively. The anticipated noise levels at the proposed residential development are considered acceptable and therefore, additional noise mitigation measures will not be required.

As per the Environmental Noise Guidelines prepared by the City of Ottawa, the following chart outlines the procedures to follow for exceedances to the stationary noise levels.

Table 3 - Noise Control Measures for Proposed Development in Proximity to The Stationary Noise Sources at the GIP Quarry	
Primary Mitigation Measure in order of Preference	Proposed Mitigation Measure
Insertion of noise insensitive land uses between the source and sensitive receptor	A 540-metre noise insensitive land is inserted between the proposed development and the operational area of Goulbourn Quarry
Orientation of buildings to provide quiet zones in rear yards, interior spaces and amenity areas	Orientation of building is not required to change for noise mitigation
Construction techniques, enhanced construction quality	Standard construction techniques are considered acceptable for the proposed building
Earth berms	A 1-meter-high earth berm has been constructed surrounding the southeastern edge of Goulbourn Quarry
Acoustic barriers	Acoustic barriers are not required for noise mitigation

6.0 Conclusion

The anticipated noise level at proposed development is considered acceptable while the GIP is in operation. Therefore, additional noise mitigation measures will not be required. However, the development should have a provision to include the use of a central air conditioner, to ensure that windows will not need to be opened.

7.0 Statement of Limitations

The recommendations made in this report are in accordance with our present understanding of the project. Our recommendations should be reviewed when the project drawings and specifications are complete.

The present report applies only to the project described in this document. Use of this report for purposes other than those described herein or by person(s) other than Regional Group or his agent(s) is not authorized without review by this firm for the applicability of our recommendations to the altered use of the report.

Paterson Group Inc.



Otilia McLaughlin B.Eng.



Stephanie A. Boisvenue, P.Eng.

Report Distribution:

- ☐ Regional Group (email copy)
- ☐ Paterson Group (1 copy)

APPENDIX 1

Figure 1 - Model of Proposed Residential Development

Figure 2 - Initial Analysis (Table of Results)

Figure 3 - Initial Analysis (Contour Results)

Item Properties



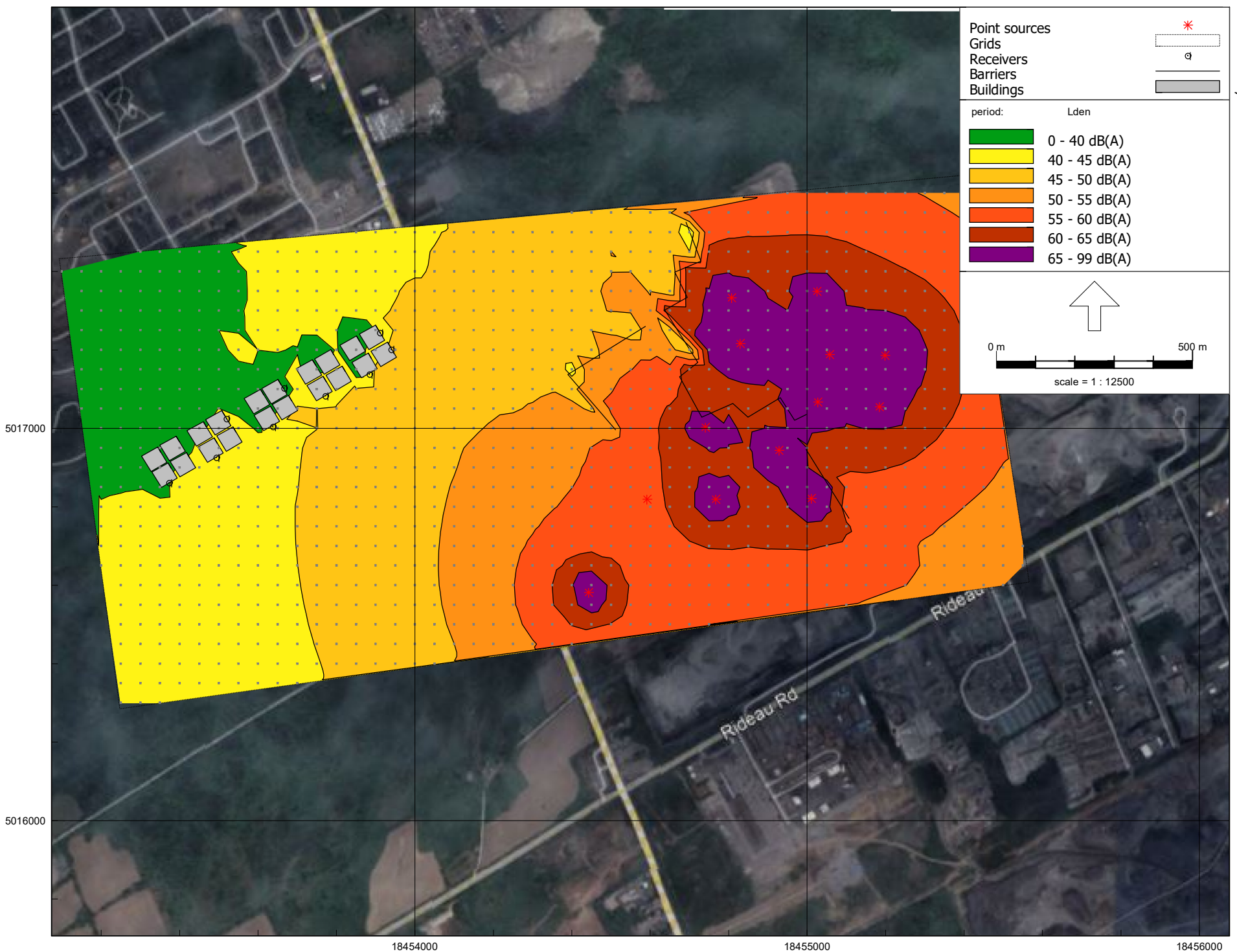
Proposed Residential Development Initial Analysis

Paterson Group Inc.
Figure 2

Report: Table of Results
Model: Steph - Initial Model Version
LAeq: total results for receivers
Group: (main group)
Group Reduction: No

Name							
Receiver	Description	X	Y	Height	Day	Evening	Night
REC 1_A	REC 1	18453910.88	5017243.46	1.50	--	--	--
REC 1_B	REC 1	18453910.88	5017243.46	4.50	--	--	--
REC 10_A	REC 10	18453373.27	5016860.95	1.50	44.9	--	--
REC 10_B	REC 10	18453373.27	5016860.95	4.50	44.7	--	--
REC 2_A	REC 2	18453939.33	5017200.78	1.50	--	--	--
REC 2_B	REC 2	18453939.33	5017200.78	4.50	--	--	--
REC 4_A	REC 4	18453883.85	5017138.18	1.50	50.2	--	--
REC 4_B	REC 4	18453883.85	5017138.18	4.50	49.8	--	--
REC 5_A	REC 5	18453771.46	5017082.70	1.50	48.6	--	--
REC 5_B	REC 5	18453771.46	5017082.70	4.50	48.2	--	--
REC 6_A	REC 6	18453666.19	5017102.62	1.50	45.6	--	--
REC 6_B	REC 6	18453666.19	5017102.62	4.50	45.7	--	--
REC 7_A	REC 7	18453637.73	5017004.45	1.50	48.7	--	--
REC 7_B	REC 7	18453637.73	5017004.45	4.50	48.4	--	--
REC 8_A	REC 8	18453519.65	5017024.37	1.50	--	--	--
REC 8_B	REC 8	18453519.65	5017024.37	4.50	--	--	--
REC 9_A	REC 9	18453493.59	5016925.37	1.50	46.6	--	--
REC 9_B	REC 9	18453493.59	5016925.37	4.50	46.3	--	--

All shown dB values are A-weighted



Item Properties Initial Analysis

Model:

Steph - Initial Model Version
version of 4949 Bank Street - 4949 Bank Street

Group:

(main group)

Listing of:

Point sources, for method Industrial noise - LimA - ISO 9613.1/2

Name	Desc.	Height	Terrain L	HDef.	Type	DI	DI_Horz	DI_Vert	DI (0)	DI (10)	DI (20)	DI (30)	DI (40)	DI (50)	DI (60)	DI (70)	DI (80)
Crusher 1		0.00	0.00	Relative	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crusher 2		0.00	0.00	Relative	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crusher 3		0.00	0.00	Relative	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crusher 4		0.00	0.00	Relative	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aphalt 1		0.00	0.00	Relative	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck 1		0.00	0.00	Relative	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck 2		0.00	0.00	Relative	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck 3		0.00	0.00	Relative	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck 4		0.00	0.00	Relative	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck 5		0.00	0.00	Relative	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck 6		0.00	0.00	Relative	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck 7		0.00	0.00	Relative	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Truck 8		0.00	0.00	Relative	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Item Properties

Initial Analysis

Model: Steph - Initial Model Version
version of 4949 Bank Street - 4949 Bank Street
Group: (main group)
Listing of: Point sources, for method Industrial noise - LimA - ISO 9613.1/2

Name	DI (90)	DI (100)	DI (110)	DI (120)	DI (130)	DI (140)	DI (150)	DI (160)	DI (170)	DI (180)	Ca (D)	Ca (E)	Ca (N)	Weighting	No refl.	No building
Crusher 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	--	--	A	No	No
Crusher 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	--	--	A	No	No
Crusher 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	--	--	A	No	No
Crusher 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	--	--	A	No	No
Aphalt 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	--	--	A	No	No
Truck 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	--	--	A	No	No
Truck 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	--	--	A	No	No
Truck 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	--	--	A	No	No
Truck 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	--	--	A	No	No
Truck 5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	--	--	A	No	No
Truck 6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	--	--	A	No	No
Truck 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	--	--	A	No	No
Truck 8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	--	--	A	No	No

Item Properties Initial Analysis

Model:

Steph - Initial Model Version
version of 4949 Bank Street - 4949 Bank Street

Group:

(main group)

Listing of:

Point sources, for method Industrial noise - LimA - ISO 9613.1/2

Name	No ind.site	Lw 63	Lw 125	Lw 250	Lw 500	Lw 1k	Lw 2k	Lw 4k	Lw 8k	Red 63	Red 125	Red 250	Red 500	Red 1k	Red 2k	Red 4k
Crusher 1	No	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crusher 2	No	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crusher 3	No	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crusher 4	No	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aphalt 1	No	37.00	44.00	54.00	58.00	61.00	59.00	54.00	45.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Truck 1	No	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Truck 2	No	87.80	90.90	98.40	103.80	107.00	113.20	98.00	86.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Truck 3	No	83.80	89.90	101.40	105.80	109.00	107.20	101.00	90.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Truck 4	No	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Truck 5	No	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Truck 6	No	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Truck 7	No	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Truck 8	No	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Item Properties

Initial Analysis

Model: Steph - Initial Model Version
version of 4949 Bank Street - 4949 Bank Street
Group: (main group)
Listing of: Point sources, for method Industrial noise - LimA - ISO 9613.1/2

Name	Red 8k
Crusher 1	0.00
Crusher 2	0.00
Crusher 3	0.00
Crusher 4	0.00
Aphalt 1	0.00
Truck 1	0.00
Truck 2	0.00
Truck 3	0.00
Truck 4	0.00
Truck 5	0.00
Truck 6	0.00
Truck 7	0.00
Truck 8	0.00

Item Properties Initial Analysis

Model:

Steph - Initial Model Version
version of 4949 Bank Street - 4949 Bank Street

Group:

(main group)

Listing of:

Point sources, for method Industrial noise - LimA - ISO 9613.1/2

Group	Item ID	Grp ID	Date	Name	Desc.	Shape	X	Y	Height	Rel.H	Terrain L	HDef.
--	1	0	12:13, 10 Jan 2024	Crusher 1		Point	18454807.23	5017333.12	0.00	0.00	0.00	Relative
--	2	0	15:02, 10 Jan 2024	Crusher 2		Point	18455057.08	5017188.04	0.00	0.00	0.00	Relative
--	3	0	15:03, 10 Jan 2024	Crusher 3		Point	18454928.13	5016944.23	0.00	0.00	0.00	Relative
--	4	0	15:03, 10 Jan 2024	Crusher 4		Point	18455010.74	5016821.32	0.00	0.00	0.00	Relative
--	5	0	15:03, 10 Jan 2024	Aphalt 1		Point	18454591.63	5016819.31	0.00	0.00	0.00	Relative
--	6	0	15:02, 10 Jan 2024	Truck 1		Point	18455024.84	5017349.24	0.00	0.00	0.00	Relative
--	7	0	12:22, 10 Jan 2024	Truck 2		Point	18455198.13	5017186.03	0.00	0.00	0.00	Relative
--	8	0	12:27, 10 Jan 2024	Truck 3		Point	18454829.39	5017216.25	0.00	0.00	0.00	Relative
--	9	0	12:27, 10 Jan 2024	Truck 4		Point	18455026.86	5017067.14	0.00	0.00	0.00	Relative
--	10	0	12:28, 10 Jan 2024	Truck 5		Point	18454740.74	5017002.67	0.00	0.00	0.00	Relative
--	11	0	12:29, 10 Jan 2024	Truck 6		Point	18454766.93	5016819.31	0.00	0.00	0.00	Relative
--	12	0	12:29, 10 Jan 2024	Truck 7		Point	18455184.03	5017055.05	0.00	0.00	0.00	Relative
--	13	0	12:32, 10 Jan 2024	Truck 8		Point	18454442.52	5016581.54	0.00	0.00	0.00	Relative

Item Properties

Initial Analysis

Model: Steph - Initial Model Version
version of 4949 Bank Street - 4949 Bank Street
Group: (main group)
Listing of: Point sources, for method Industrial noise - LimA - ISO 9613.1/2

Group	Type	DI	DI_Horz	DI_Vert	DI (0)	DI (10)	DI (20)	DI (30)	DI (40)	DI (50)	DI (60)	DI (70)	DI (80)	DI (90)	DI (100)	DI (110)	DI (120)	DI (130)
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Item Properties Initial Analysis

Model:

Steph - Initial Model Version
version of 4949 Bank Street - 4949 Bank Street

Group:

(main group)

Listing of:

Point sources, for method Industrial noise - LimA - ISO 9613.1/2

Group	DI (140)	DI (150)	DI (160)	DI (170)	DI (180)	Pa (%) (D)	Pa (%) (E)	Pa (%) (N)	Pa (h) (D)	Pa (h) (E)	Pa (h) (N)	Ca (D)	Ca (E)	Ca (N)	Weighting	No refl.	No building
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No

Item Properties Initial Analysis

Model:
Steph - Initial Model Version
version of 4949 Bank Street - 4949 Bank Street
Group:
(main group)
Listing of:
Point sources, for method Industrial noise - LimA - ISO 9613.1/2

Group	No ind.site	Lw 63	Lw 125	Lw 250	Lw 500	Lw 1k	Lw 2k	Lw 4k	Lw 8k	Lw Tot	Red 63	Red 125	Red 250	Red 500	Red 1k	Red 2k	Red 4k
--	No	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	37.00	44.00	54.00	58.00	61.00	59.00	54.00	45.00	65.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	108.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	87.80	90.90	98.40	103.80	107.00	113.20	98.00	86.90	114.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	83.80	89.90	101.40	105.80	109.00	107.20	101.00	90.90	112.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	108.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	108.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	108.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	108.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	108.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Item Properties
Initial Analysis

Model: Steph - Initial Model Version
 version of 4949 Bank Street - 4949 Bank Street
Group: (main group)
Listing of: Point sources, for method Industrial noise - LimA - ISO 9613.1/2

Group	Red 8k	LwTot 63	LwTot 125	LwTot 250	LwTot 500	LwTot 1k	LwTot 2k	LwTot 4k	LwTot 8k	LwTot Tot
--	0.00	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45
--	0.00	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45
--	0.00	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45
--	0.00	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45
--	0.00	37.00	44.00	54.00	58.00	61.00	59.00	54.00	45.00	65.12
--	0.00	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	108.20
--	0.00	87.80	90.90	98.40	103.80	107.00	113.20	98.00	86.90	114.75
--	0.00	83.80	89.90	101.40	105.80	109.00	107.20	101.00	90.90	112.98
--	0.00	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	108.20
--	0.00	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	108.98
--	0.00	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	108.98
--	0.00	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	108.20
--	0.00	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	108.98

Item Properties
Initial Analysis

Model: Steph - Initial Model Version
version of 4949 Bank Street - 4949 Bank Street
Group: (main group)
Listing of: Point sources, for method Industrial noise - LimA - ISO 9613.1/2

Group	Item ID	Grp ID	Date	Name	Desc.	Shape	X	Y	Height	Rel.H	Terrain L	HDef.
--	1	0	12:13, 10 Jan 2024	Crusher 1		Point	18454807.23	5017333.12	0.00	0.00	0.00	Relative
--	2	0	15:02, 10 Jan 2024	Crusher 2		Point	18455057.08	5017188.04	0.00	0.00	0.00	Relative
--	3	0	15:03, 10 Jan 2024	Crusher 3		Point	18454928.13	5016944.23	0.00	0.00	0.00	Relative
--	4	0	15:03, 10 Jan 2024	Crusher 4		Point	18455010.74	5016821.32	0.00	0.00	0.00	Relative
--	5	0	15:03, 10 Jan 2024	Aphalt 1		Point	18454591.63	5016819.31	0.00	0.00	0.00	Relative
--	6	0	15:02, 10 Jan 2024	Truck 1		Point	18455024.84	5017349.24	0.00	0.00	0.00	Relative
--	7	0	12:22, 10 Jan 2024	Truck 2		Point	18455198.13	5017186.03	0.00	0.00	0.00	Relative
--	8	0	12:27, 10 Jan 2024	Truck 3		Point	18454829.39	5017216.25	0.00	0.00	0.00	Relative
--	9	0	12:27, 10 Jan 2024	Truck 4		Point	18455026.86	5017067.14	0.00	0.00	0.00	Relative
--	10	0	12:28, 10 Jan 2024	Truck 5		Point	18454740.74	5017002.67	0.00	0.00	0.00	Relative
--	11	0	12:29, 10 Jan 2024	Truck 6		Point	18454766.93	5016819.31	0.00	0.00	0.00	Relative
--	12	0	12:29, 10 Jan 2024	Truck 7		Point	18455184.03	5017055.05	0.00	0.00	0.00	Relative
--	13	0	12:32, 10 Jan 2024	Truck 8		Point	18454442.52	5016581.54	0.00	0.00	0.00	Relative

Item Properties

Initial Analysis

Model: Steph - Initial Model Version
version of 4949 Bank Street - 4949 Bank Street
Group: (main group)
Listing of: Point sources, for method Industrial noise - LimA - ISO 9613.1/2

Group	Type	DI	DI_Horz	DI_Vert	DI (0)	DI (10)	DI (20)	DI (30)	DI (40)	DI (50)	DI (60)	DI (70)	DI (80)	DI (90)	DI (100)	DI (110)	DI (120)	DI (130)
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
--	Normal point source	none	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Item Properties
Initial Analysis

Model: Steph - Initial Model Version
version of 4949 Bank Street - 4949 Bank Street
Group: (main group)
Listing of: Point sources, for method Industrial noise - LimA - ISO 9613.1/2

Group	DI (140)	DI (150)	DI (160)	DI (170)	DI (180)	Pa (%) (D)	Pa (%) (E)	Pa (%) (N)	Pa (h) (D)	Pa (h) (E)	Pa (h) (N)	Ca (D)	Ca (E)	Ca (N)	Weighting	No refl.	No building
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No
--	0.0	0.0	0.0	0.0	0.0	100.000	--	--	12.0000	--	--	0.00	--	--	A	No	No

Item Properties
Initial Analysis

Model: Steph - Initial Model Version
version of 4949 Bank Street - 4949 Bank Street
Group: (main group)
Listing of: Point sources, for method Industrial noise - LimA - ISO 9613.1/2

Group	No ind.site	Lw 63	Lw 125	Lw 250	Lw 500	Lw 1k	Lw 2k	Lw 4k	Lw 8k	Lw Tot	Red 63	Red 125	Red 250	Red 500	Red 1k	Red 2k	Red 4k
--	No	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	37.00	44.00	54.00	58.00	61.00	59.00	54.00	45.00	65.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	108.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	87.80	90.90	98.40	103.80	107.00	113.20	98.00	86.90	114.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	83.80	89.90	101.40	105.80	109.00	107.20	101.00	90.90	112.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	108.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	108.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	108.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	108.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
--	No	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	108.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Item Properties
Initial Analysis

Model: Steph - Initial Model Version
version of 4949 Bank Street - 4949 Bank Street
Group: (main group)
Listing of: Point sources, for method Industrial noise - LimA - ISO 9613.1/2

Group	Red 8k	LwTot 63	LwTot 125	LwTot 250	LwTot 500	LwTot 1k	LwTot 2k	LwTot 4k	LwTot 8k	LwTot Tot
--	0.00	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45
--	0.00	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45
--	0.00	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45
--	0.00	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45
--	0.00	37.00	44.00	54.00	58.00	61.00	59.00	54.00	45.00	65.12
--	0.00	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	108.20
--	0.00	87.80	90.90	98.40	103.80	107.00	113.20	98.00	86.90	114.75
--	0.00	83.80	89.90	101.40	105.80	109.00	107.20	101.00	90.90	112.98
--	0.00	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	108.20
--	0.00	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	108.98
--	0.00	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	108.98
--	0.00	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	108.20
--	0.00	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	108.98

Item Properties
Initial Analysis

Model: Steph - Initial Model Version
version of 4949 Bank Street - 4949 Bank Street
Group: (main group)
Listing of: Point sources, for method Industrial noise - LimA - ISO 9613.1/2

Name	Group	Item ID	Grp ID	Date	Shape	X	Y	Rel.H	Pa (%) (D)	Pa (%) (E)	Pa (%) (N)	Pa (h) (D)	Pa (h) (E)
Crusher 1	--	1	0	12:13, 10 Jan 2024	Point	18454807.23	5017333.12	0.00	100.000	--	--	12.0000	--
Crusher 2	--	2	0	15:02, 10 Jan 2024	Point	18455057.08	5017188.04	0.00	100.000	--	--	12.0000	--
Crusher 3	--	3	0	15:03, 10 Jan 2024	Point	18454928.13	5016944.23	0.00	100.000	--	--	12.0000	--
Crusher 4	--	4	0	15:03, 10 Jan 2024	Point	18455010.74	5016821.32	0.00	100.000	--	--	12.0000	--
Aphalt 1	--	5	0	15:03, 10 Jan 2024	Point	18454591.63	5016819.31	0.00	100.000	--	--	12.0000	--
Truck 1	--	6	0	15:02, 10 Jan 2024	Point	18455024.84	5017349.24	0.00	100.000	--	--	12.0000	--
Truck 2	--	7	0	12:22, 10 Jan 2024	Point	18455198.13	5017186.03	0.00	100.000	--	--	12.0000	--
Truck 3	--	8	0	12:27, 10 Jan 2024	Point	18454829.39	5017216.25	0.00	100.000	--	--	12.0000	--
Truck 4	--	9	0	12:27, 10 Jan 2024	Point	18455026.86	5017067.14	0.00	100.000	--	--	12.0000	--
Truck 5	--	10	0	12:28, 10 Jan 2024	Point	18454740.74	5017002.67	0.00	100.000	--	--	12.0000	--
Truck 6	--	11	0	12:29, 10 Jan 2024	Point	18454766.93	5016819.31	0.00	100.000	--	--	12.0000	--
Truck 7	--	12	0	12:29, 10 Jan 2024	Point	18455184.03	5017055.05	0.00	100.000	--	--	12.0000	--
Truck 8	--	13	0	12:32, 10 Jan 2024	Point	18454442.52	5016581.54	0.00	100.000	--	--	12.0000	--

Item Properties Initial Analysis

Model:

Steph - Initial Model Version
version of 4949 Bank Street - 4949 Bank Street

Group:

(main group)

Listing of:

Point sources, for method Industrial noise - LimA - ISO 9613.1/2

Name	Pa (h) (N)	Lw Tot	LwTot 63	LwTot 125	LwTot 250	LwTot 500	LwTot 1k	LwTot 2k	LwTot 4k	LwTot 8k	LwTot Tot
Crusher 1	--	109.45	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45
Crusher 2	--	109.45	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45
Crusher 3	--	109.45	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45
Crusher 4	--	109.45	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90	109.45
Aphalt 1	--	65.12	37.00	44.00	54.00	58.00	61.00	59.00	54.00	45.00	65.12
Truck 1	--	108.20	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	108.20
Truck 2	--	114.75	87.80	90.90	98.40	103.80	107.00	113.20	98.00	86.90	114.75
Truck 3	--	112.98	83.80	89.90	101.40	105.80	109.00	107.20	101.00	90.90	112.98
Truck 4	--	108.20	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	108.20
Truck 5	--	108.98	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	108.98
Truck 6	--	108.98	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	108.98
Truck 7	--	108.20	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90	108.20
Truck 8	--	108.98	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90	108.98

Item Properties

Initial Analysis

Model: Steph - Initial Model Version
 version of 4949 Bank Street - 4949 Bank Street
 Group: (main group)
 Listing of: Point sources, for method Industrial noise - LimA - ISO 9613.1/2

Desc.	Pa(h) (D)	Pa(h) (E)	Pa(h) (N)	Lw 63	Lw 125	Lw 250	Lw 500	Lw 1k	Lw 2k	Lw 4k	Lw 8k
Crusher	12.0000	--	--	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90
Crusher	12.0000	--	--	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90
Crusher	12.0000	--	--	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90
Crusher	12.0000	--	--	94.80	97.90	98.40	105.80	103.00	100.20	95.00	85.90
Asphaltic Concrete Plant	12.0000	--	--	37.00	44.00	54.00	58.00	61.00	59.00	54.00	45.00
Truck	12.0000	--	--	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90
Truck	12.0000	--	--	87.80	90.90	98.40	103.80	107.00	113.20	98.00	86.90
Truck	12.0000	--	--	83.80	89.90	101.40	105.80	109.00	107.20	101.00	90.90
Truck	12.0000	--	--	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90
Truck	12.0000	--	--	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90
Truck	12.0000	--	--	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90
Truck	12.0000	--	--	95.80	87.90	96.40	99.80	104.00	102.20	97.00	89.90
Truck	12.0000	--	--	91.80	98.90	96.40	103.80	103.00	102.20	96.00	89.90