



Ministry of the Environment, Conservation and Parks
Ministère de l'Environnement, de la Protection de la nature et des Parcs

**Approval for Registration in the “Technical Standards Registry – Air Pollution”
(Industry Standard) Issued Pursuant to s.39(3) of O. Reg. 419/05 made under
the Environmental Protection Act, R.S.O. 1990, as amended**

REGISTRATION NUMBER: 501-23-393-rv0
Reference Number: 5272-AVKQEM
Issue Date: January 12th, 2023

Applicant: 931080 Ontario Inc. (Operating as Rahnmet)
141 Regina Street
North Bay, Ontario
P1A 1A1

Contact person: Paul Lacasse, President

Site Location: 931080 Ontario Inc. (Operating as Rahnmet)
141 Regina Street
North Bay, Ontario
P1A 1A1

DEFINITIONS

For the purposes of this Approval,

“Facility” means the 931080 Ontario Inc. (Operating as Rahnmet) operation located at 141 Regina Street, North Bay, Ontario;

“NAICS” has the same meaning as in section 1 of O. Reg. 419/05;

“Registered Contaminants” means contaminants listed in Appendix A; and

“O. Reg. 419/05” means Ontario Regulation 419/05: Air Pollution – Local Air Quality, made under the Environmental Protection Act as it may be amended from time to time.

REGISTRATION INFORMATION

You have applied in accordance with subsection 39(1)(a) of O. Reg. 419/05 for registration in the Ministry’s Technical Standards Registry – Air Pollution in respect of:

- i. Foundries – Industry Standard as set out in the Ministry Publication "Technical Standards to Manage Air Pollution", Version 7.0, October 27, 2020 (as amended);
- ii. the Facility; and
- iii. the Registered Contaminants.

GROUNDINGS FOR APPROVAL OF REGISTRATION

A. I, the Director, am satisfied that:

1. The applicant has submitted a completed application for registration dated January 29, 2018 signed by Paul Lacasse, President and this application was in a form approved by the Director.
2. The information submitted in the application is accurate, to the best of my knowledge.
3. The Foundries – Industry Standard applies to the Facility since it manufactures and repairs steel, cast iron and bronze parts for all types and sizes of crushers and is part of a class identified by the NAICS code 331529.
4. The Foundries – Industry Standard applies to the Registered Contaminants.
5. The Foundries – Industry Standard contains requirements that relate to at least one source of contaminant in the Facility, namely, metal melting process.
6. There are no provisions in the Foundries – Industry Standard that deal with notification of and consultation with affected persons before making an application for registration.
7. There were no requirements to notify and consult affected persons imposed under subsection 39(5).
8. Any adverse effect that may be caused by discharges of the Registered Contaminant from the Facility into the air will be better prevented, eliminated or ameliorated if the Facility and the Registered Contaminants are registered to the Foundries – Industry Standard.
9. There is no other industry standard that applies to the Facility and the Registered Contaminants that, in my opinion, would be more appropriate.
10. Based on the public consultation conducted including a posting on the Environmental Registry under the Environmental Bill of Rights, I am of the opinion that there is no public interest reason sufficient to refuse approval of the application.

B. Based on the above conclusions and pursuant to the authority under subsection 39(3) of O. Reg. 419/05, I approve the registration of the Facility in the Ministry's Technical Standards Registry – Air Pollution with respect to the Registered Contaminants for the following industry standard:

- Foundries – Industry Standard as described in the Ministry Publication "Technical Standards to Manage Air Pollution", Version 7.0, October 27, 2020 (as amended)

DATED AT TORONTO this 12th day of January 2023

Tes Gebrezghi

Director, Tesfaye Gebrezghi
Section 39, O. Reg. 419/05

cc: Jeff Burdon, Manager, Local Air Quality Permits, Air Policy and Programs Branch
Nancy Orpana, Manager(A), Air Approvals, Environmental Permissions Branch
Greg Ault, Manager, Timmins District Office, Northern Region, DWECD

APPENDIX A – Registered Contaminants

Suspended Particulate Matter

Contaminant Name	C.A.S. #	Contaminant Name	C.A.S. #
2-Propanamine, N,N-Dimethyl-	996-35-0	Cobalt [And Other Compounds]	7440-48-4
2-Propenoic Acid, Polymer With Ethyl 2-Propenoate And Isooctyl 2-Propenoate	68540-66-9	Coke (Coal)	65996-77-2
Aluminum [And Other Compounds]	7429-90-5	Copper [And Other Compounds]	7440-50-8
Aluminum Oxide	1344-28-1	Cumene Hydroperoxide	80-15-9
Aluminum Tristearate	637-12-7	Decanedioic Acid, Bis(1,2,2,6,6-Pentamethyl-4- Piperidiny) Ester	41556-26-7
Antimony [And Other Compounds]	7440-36-0	Ferric Oxide	1309-37-1
Arsenic And Compounds	7440-38-2	Gallium [And Other Compounds]	7440-55-3
Barium [And Other Compounds]	7440-39-3	Graphite	7782-42-5
Barium Chloride (BaCl ₂)	10361-37-2	Hdi Polyisocyanate (Hdi-Bt & Hdi-Ic)	28182-81-2
Bentonite	1302-78-9	Hexamethylene Diisocyanate (Hdi) Monomer	822-06-0
Benzene, 1-Isocyanato-2-[(4-Isocyanatophenyl)Methyl]-	5873-54-1	Hydrated Silica	112926-00-8
Beryllium And Compounds	7440-41-7	Indium [And Other Compounds]	7440-74-6
Bismuth [And Other Compounds]	7440-69-9	Iron [And Other Compounds]	7439-89-6
Borate(1-), Tetrafluoro-, Potassium	14075-53-7	Iron ion, Fe+2	15438-31-0
Borax	1303-96-4	Iron Oxide (Fe ₃ O ₄)	1317-61-9
Boron	7440-42-8	Lanthanum	7439-91-0
Bromine	7726-95-6	Lead And Lead Compounds	7439-92-1
c.i. Pigment Green 7	1328-53-6	Magnesium Magnesium [And Other Compounds] (excluding Magnesium Carbonate, Magnesium Chloride, Magnesium Oxide, and Magnesium Stearate)	7439-95-4
Cadmium And Cadmium Compounds	7440-43-9	Magnesium Carbonate	546-93-0
Calcium [And Other Compounds]	7440-70-2	Magnesium Chloride	7786-30-3
Calcium Carbide	75-20-7	Magnesium Oxide	1309-48-4
Calcium Carbonate	471-34-1	Magnesium Stearate	557-04-0
Calcium Chloride Anhydrous	10043-52-4	Manganese And Manganese Compounds	7439-96-5
Calcium Cyanide (As Total Salt)	592-01-8	Mercury (As Hg) – Alkyl Compounds	7439-97-6
Calcium Fluoride (CaF ₂)	7789-75-5	Mercury (Hg) [And Other Compounds]	7439-97-6
Calcium Hydroxide	1305-62-0	Mica	12001-26-2
Calcium Oxide	1305-78-8	Molybdenum [And Other Compounds]	7439-98-7
Calcium Stearate	1592-23-0	Mullite (Al ₆ O ₅ (SiO ₄) ₂)	1302-93-8
Carbon	7440-44-0	N-(3-Trimethoxysilylpropyl)-Ethylenediamine	1760-24-3
Carbon Black	1333-86-4	Naphtha (Petroleum), Light Steam-Cracked Arom., C5-12 Cycloalkadiene Fraction, Polymers	68527-24-2
Chlorine	7782-50-5	Neodymium [And Other Compounds]	7440-00-8
Chromium And Chromium Compounds (Metallic, Divalent And Trivalent)	7440-47-3	Nickel And Nickel Compounds	7440-02-0
Chromium Compounds (Hexavalent)	7440-47-3	Niobium [And Other Compounds]	7440-03-1

Contaminant Name	C.A.S. #	Contaminant Name	C.A.S. #
Nitrates	14797-55-8	Silver [And Other Compounds]	7440-22-4
Organic Carbon	Not Available	Sodium [And Other Compounds]	7440-23-5
Oxirane, 2,2'-[(1-Methylethylidene) Bis(4,1-Phenyleneoxymethylene)]Bis-, Homopolymer	25085-99-8	Sodium Carbonate	497-19-8
Palladium [And Other Compounds]	7440-05-3	Sodium Hydroxide	1310-73-2
Phenol-Formaldehyde Resin	9003-35-4	Sodium Monoxide	12401-86-4
Phosphorus	7723-14-0	Sodium Nitrate	7631-99-4
Pigment Blue 15	147-14-8	Sodium Oxide (Na ₂ O)	1313-59-3
Platinum [And Other Compounds]	7440-06-4	Sodium Tetraborate	1330-43-4
Poly(Difluoromethylene), A-(Cyclohexylmethyl)- Ω -Hydro-	65530-85-0	Strontium [And Other Compounds]	7440-24-6
Polydimethylsiloxanes	63148-62-9	Strontium Hydroxide	18480-07-4
Potassium [And Other Compounds]	7440-09-7	Strontium Oxide	1314-11-0
Potassium Chloride (KCl)	7447-40-7	Sulphur, Elemental	7704-34-9
Potassium Cyanide	151-50-8	Sulphates	Not Available
Potassium Hydroxide	1310-58-3	Suspended Particulate Matter (< 44 μ m Diameter)	Not Applicable
Potassium Nitrate	7757-79-1	Synthetic Amorphous Silica	112945-52-5
Potassium Oxide (K ₂ O)	12136-45-7	Talc - Fibrous	14807-96-6
Quaternary Ammonium Compounds, Benzyl(Hydrogenated Tallow Alkyl)Dimethyl, Chlorides, Compds. With Hectorite	71011-26-2	Tantalum [And Other Compounds]	7440-25-7
Resorcinol	108-46-3	Thallium [And Other Compounds]	7440-28-0
Rhodium [And Other Compounds]	7440-16-6	Tin [And Other Compounds]	7440-31-5
Rosin	8050-09-7	Titanium [And Other Compounds]	7440-32-6
Rubidium [And Other Compounds]	7440-17-7	Titanium Dioxide	13463-67-7
Scandium [And Other Compounds]	7440-20-2	Vanadium [And Other Compounds]	7440-62-2
Selenium [And Other Compounds]	7782-49-2	Yttrium [And Other Compounds]	7440-65-5
Silica - Respirable (<10 μ m Diameter), Cristabolite	14464-46-1	Zinc [And Other Compounds]	7440-66-6
Silica - Respirable (<10 μ m Diameter), Quartz	14808-60-7	Zinc Chloride	7646-85-7
Silicate(2-), Hexafluoro-, Disodium	16893-85-9	Zinc Stearate	557-05-1
Silicic Acid, Potassium Salt	1312-76-1	Zircon (Zr(SiO ₄))	14940-68-2
Silicic Acid, Sodium Salt	1344-09-8	Zirconium [And Other Compounds]	7440-67-7
Silicon	36 7440-21-330194, 12597-37-40	Zirconium Oxide (ZrO ₂)	1314-23-4
Silicon Dioxide	7631-86-9		

Volatile Organic Compounds

Contaminant Name	C.A.S. #	Contaminant Name	C.A.S. #
1,2,4,5-Tetramethylbenzene	95-93-2	Dibenzofuran	132-64-9
1,3-Propanediamine, N,N-Bis[3-(Dimethylamino)Propyl]-N',N'-Dimethyl-	33329-35-0	Dibutyl Phthalate (Dbp, Di-N-Butyl Phthalate)	84-74-2
1-Methylimidazole	616-47-7	Diethylbenzene	25340-17-4
1-Methylnaphthalene	90-12-0	Diethylene Glycol	111-46-6
1-Tetradecene	1120-36-1	Diethylene Glycol Monobutyl Ether	112-34-5
2,4,6-Tris(Dimethylaminomethyl)Phenol	90-72-2	Diisobutyl Phthalate	84-69-5
2-Methylnaphthalene	91-57-6	Diisononyl Phthalate	28553-12-0
2-Phenylisopropanol	617-94-7	Dimethyl Glutarate	1119-40-0
2-Propenamide, N,N'-Methylenebis-Acenaphthylene - As B[A]P	110-26-9	Dimethyl Phthalate (Dmp)	131-11-3
Acetaldehyde	75-07-0	Dimethyl Succinate	106-65-0
Acetic Acid	64-19-7	Distillates (Petroleum), Hydrotreated Light	64742-47-8
Acetone	67-64-1	Distillates (Petroleum), Straight-Run Middle	64741-44-2
Acetophenone	98-86-2	Ethanol (Ethyl Alcohol)	64-17-5
Acridine	260-94-6	Ethyl Acetate	141-78-6
Acrolein	107-02-8	Ethylbenzene	100-41-4
Acrylic Acid	79-10-7	Ethyl-3-Ethoxy Propionate	763-69-9
Alcohols, C12-15, Ethoxylated Propoxylated	68551-13-3	Ethylene	74-85-1
Ammonia	7664-41-7	Ethylene Glycol Butyl Ether (Butyl Cellosolve)	111-76-2
Aniline	62-53-3	Ethylene Glycol Diacetate	111-55-7
Anthracene - As B[A]P	120-12-7	Ethylene Glycol Monophenyl Ether	122-99-6
Anthranthrene - As B[A]P	191-26-4	Fluoranthene - As B[A]P	206-44-0
Aromatic Hydrocarbons, C9-11	70693-06-0	Formaldehyde	50-00-0
Aromatic Naphtha, Type I	64742-95-6	Formic Acid	64-18-6
Benzene	71-43-2	Furfuryl Alcohol	98-00-0
Benzene, 1,1'-Methylenebis(Isocyanato-	26447-40-5	Gamma-Butyrolactone	96-48-0
Benzene, 1,2,3,5-Tetramethyl-	527-53-7	Heptane, N-	142-82-5
Benzene, 1,3-Diethyl-	141-93-5	Hexachlorobenzene	118-74-1
Benzene, 1,4-Diethyl-	105-05-5	Hexane, N- (N-Hexane And Hexane Isomers Only)	110-54-3
Benzenesulfonic Acid, 4-Methyl-	104-15-4	Hexane, N- (Part Of A Mixture)	110-54-3
Benzenesulfonic Acid, Dimethyl-	25321-41-9	Hexanedioic Acid, Dimethyl Ester	627-93-0
Benzo(A)Anthracene - As B[A]P	56-55-3	Hydrogen Cyanide	74-90-8
Benzo(A)Fluoranthene - As B[A]P	203-33-8	Hydrogen Sulphide	7783-06-4
Benzo(A)Pyrene	50-32-8	Indane	496-11-7
Benzo(B)+(K)Fluoranthene - As B[A]P	205-99-2, 207-08-9	Indeno(1,2,3-Cd)Pyrene - As B[A]P	193-39-5
Benzo(B)Fluoranthene - As B[A]P	205-99-2	Isobutyl Acetate	110-19-0
Benzo(E)Pyrene - As B[A]P	192-97-2	Isophorone Diisocyanate	4098-71-9
Benzo(G,H,I)Perylene - As B[A]P	191-24-2	Isopropanol (Isopropyl Alcohol)	67-63-0
Benzo(K)Fluoranthene - As B[A]P	207-08-9	Isopropyl Benzene	98-82-8
Butane	106-97-8	Kerosine (Petroleum)	8008-20-6
Butyl Acetate, N-	123-86-4	Kerosine (Petroleum), Hydrodesulfurized	64742-81-0
Carbazole	86-74-8	Ligroine	8032-32-4
Chrysene - As B[A]P	218-01-9	Liquid Petroleum Gas	68476-85-7
Cresols	1319-77-3	Methane	74-82-8
Dibenz(A,H)Anthracene - As B[A]P	53-70-3	Methane Diphenyl Diisocyanate (Mdi Monomer)	101-68-8
Dibenzo(A,H)+(A,C) Anthracene - As B[A]P	53-70-3, 215-58-7	Methanol (Methyl Alcohol)	67-56-1
		Methoxy-1-Propyl Acetate, 2-	70657-70-4

Contaminant Name	C.A.S. #	Contaminant Name	C.A.S. #
Methyl Ethyl Ketone (2-Butanone)	78-93-3	Poly[Oxy(Methyl-1,2-Ethanedyl)], A-Hydro-Ω- Hydroxy-, Ether With 2-Ethyl-2-(Hydroxymethyl)-1,3-Propanediol (3:1)	25723-16-4
Methyl Ethyl Ketone Peroxide	1338-23-4	Polyethylene Glycol Nonylphenyl Ether	9016-45-9
Methyl Formate	107-31-3	Polymeric Methane Diphenyl Diisocyanate (Pmdi)	9016-87-9
Methyl Isobutyl Ketone	108-10-1	Propane	74-98-6
Methyl Propyl Ketone	107-87-9	Propionaldehyde	123-38-6
Methyl-2-Pyrrolidone, N-	872-50-4	Propylene Glycol Monomethyl Ether Acetate	108-65-6
Methylene Bis(4-Cyclohexylisocyanate)	5124-30-1	P-Xylene	106-42-3
Methylene Dianiline	101-77-9	Pyrene - As B[A]P	129-00-0
Mineral Spirits	See definition in <i>O.Reg. 419/05</i>	Pyridine, 4-(3-Phenylpropyl)-	2057-49-0
M-xylene	108-38-3	Siloxanes And Silicones, Di-Me, [[[3-[(2-Aminoethyl)Amino]Propyl]Dimethoxysilyl]Oxy]-Terminated	71750-80-6
Naphtha (Petroleum), Heavy Alkylate	64741-65-7	Siloxanes And Silicones, Di-Me, Polymers With Me Silsesquioxanes, Hydroxy-Terminated	68554-67-6
Naphtha (Petroleum), Hydrodesulfurized Heavy	64742-82-1	Solvent Naphtha (Petroleum), Heavy Aliphatic	64742-96-7
Naphtha (Petroleum), Hydrotreated Heavy	64742-48-9	Solvent Naphtha (Petroleum), Heavy Aromatic	64742-94-5
Naphtha (Petroleum), Hydrotreated Light	64742-49-0	Solvent Naphtha (Petroleum), Light Aliph.	64742-89-8
Naphthalene	91-20-3	Solvent Naphtha (Petroleum), Medium Aliph.	64742-88-7
Naphthalene, 1,3-Dimethyl-	575-41-7	Stoddard Solvent	8052-41-3
Naphthalene, 1,4-Dimethyl-	571-58-4	Styrene	100-42-5
Naphthalene, 1,6,7-Trimethyl-	2245-38-7	Tergitol 15-S-4	68131-40-8
Naphthalene, 1,8-Dimethyl-	569-41-5	Toluene	108-88-3
Naphthalene, 2,3-Dimethyl-	581-40-8	Total Aldehydes (C2-C25)	Not Applicable
Naphthalene, 2,6-Dimethyl-	581-42-0	Total Amines	Not Applicable
Naphthalene, 2,7-Dimethyl-	582-16-1	Triacetin	102-76-1
Nitrobenzene	98-95-3	Trichloroethylene (Tce)	79-01-6
Orthocresol	95-48-7	Triethylamine	121-44-8
Oxo-Heptyl Acetate	90438-79-2	Triethylene Glycol	112-27-6
O-xylene	95-47-6	Trimethylbenzene, 1,2,3- (Individual Isomer Or Trimethylbenzene Mixture)	526-73-8
Perylene	198-55-0	Trimethylbenzene, 1,2,4- (Individual Isomer Or Trimethylbenzene Mixture)	95-63-6
Petroleum Ether	8030-30-6	Trimethylbenzene, 1,3,5- (Individual Isomer Or Trimethylbenzene Mixture)	108-67-8
Petroleum Gases, Liquefied, Sweetened	68476-86-8	Trimethylolpropane Triacrylate	15625-89-5
Phenanthrene - As B[A]P	85-01-8	Trimethylsilyl Fluoride	420-56-4
Phenol	108-95-2	Xylenes	1330-20-7
Phenyl isocyanate	103-71-9		

Other Contaminants Requested

Contaminant Name	C.A.S. #	Contaminant Name	C.A.S. #
Argon	7440-37-1	Linseed Oil	8001-26-1
Benzoic Acid, 2-Hydroxy-	69-72-7	Linseed Oil, Polymd.	67746-08-1
Boric Acid	10043-35-3	Nitrogen	7727-37-9
Carbon Monoxide	630-08-0	Nitrogen Oxide (NO)	10102-43-9
Coal Dust (Anthracite, Bituminous, Lignite & Seacoal)	-	Nitrogen Oxides	10102-44-0
Di-(2-Ethylhexyl) Adipate	103-23-1	Nitrous Oxide	10024-97-2
Fatty Acids, Tall-Oil, Bu Esters	67762-63-4	Oxalic Acid	144-62-7
Fluorides (As HF) – Gaseous (Growing Season)	7664-39-3	Phosphoric Acid	7664-38-2
Fluorides (As HF) – Total (Growing Season)	7664-39-3	Poly(Oxy-1,2-Ethanediy), A-Sulfo- Ω -(Dodecyloxy)-, Sodium Salt	9004-82-4
Fluorides (As HF) – Total (Non-Growing Season)	7664-39-3	Rape Oil, Me Ester	73891-99-3
Hydrogen Chloride	7647-01-0	Sulphur Dioxide	7446-09-5
Hydrogen Peroxide	7722-84-1	Sulphuric Acid	7664-93-9
Light Oil (Coal), Coke Oven, Distn. Residues	68920-61-6		