

PEGASUS ROOM
THE INTERNATIONAL CENTRE
6900 Airport Rd, Mississauga, ON L4V 1E8



SPRING OPERATIONS SEMINAR (SOPs) 2.0

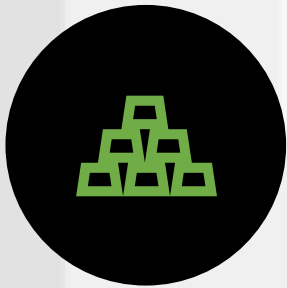
APRIL 11, 2024



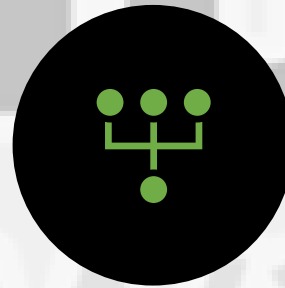
OAPC – TRILLIUM AWARD PROGRAM: Overview for 2024 Applications

Barry McFadyen,
Manager, Paving Products,
Heat Design Equipment Inc.
Member, OAPC - Plant & Paving Operations Committee

Program History



First established in 2002 by OHMPA to recognize those plants that go above and beyond the “GOLD” standard which is required by industry regulations.



Applicants complete a self-assessment process that would involve 7 categories for each plant: Appearance, Operations, Environment, Safety, Permitting and Compliance, Community Relations and Industry Participation.



Every submission includes over 100 specific standards including supporting documentation which would require 20 – 8X10 pictures of the Plant and 5-minute video.



Trillium Award status is granted for a 3-year period at which time the plant must apply again for renewal, with an optional 2-year grace period.

Program History



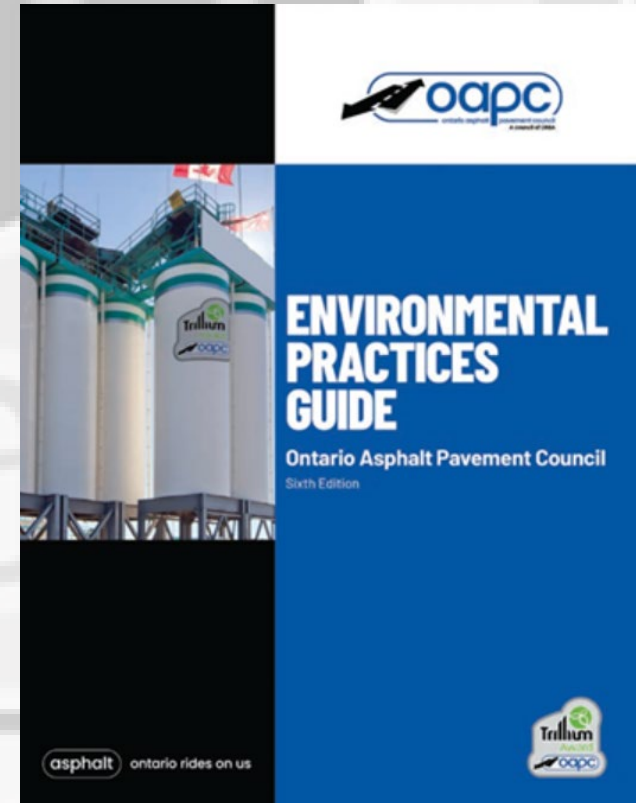
Recognizes Plants for following the **OAPC Environmental Practices Guidelines (EPG) and COR Certification.**



Sections now include **RAP, BaP Technical Standards and COVID Best Practices.**



Applications open in the Spring of each year with completion deadline in the Fall of that same year. Allows time to complete the application process over time and not during peak construction season.



Why Our Members Apply?

IT SHOWS THE SPECIFIC ASPHALT PLANT GOES ABOVE AND BEYOND. SETTING THE GOAL FOR ALL ASPHALT PLANTS. ESPECIALLY IN TWO MAJOR FACTORS IN PLANT OPERATIONS – ENVIRONMENT AND SAFETY.

EMPLOYEES TAKE PRIDE IN SEEING THEIR WORKPLACE SETTING THE STANDARD. BY REVIEWING THE APPLICATION, QUESTIONS ARE ASKED WHICH BENEFIT THE ASPHALT PLANT IN SAVINGS AND OPERATIONS.

SEEING THE TRILLIUM AWARD DECAL ON THE SIDE OF THEIR SILO IS ACKNOWLEDGEMENT ACROSS THE PLANT FOR CUSTOMERS AND COMMUNITY TO SEE – COMMITMENT TO THE ENVIRONMENT AND QUALITY.

TRILLIUM AWARD WINNERS CARE ABOUT QUALITY, THE ENVIRONMENT AND THEIR NEIGHBORS.

[HTTPS://WWW.ONASPHALT.ORG/TRILLIUM-PROGRAM](https://www.onasphalt.org/trillium-program)



SINCE INCEPTION: 111 AWARDS & 169 RENEWALS

AECON

**VILLENEUVE
CONSTRUCTION
CO. LTD.**



GIP

Crupi
Group

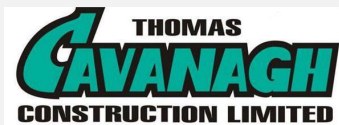
VIOLA



KING
PAVING & CONSTRUCTION



TOMLINSON
FOUNDED ON **STRENGTH** GUIDED BY **VISION**



asphalt ontario rides on us



Application Overview: Section 1

- It is possible to score as many as 50 points, min. 40 points.
- Majority of the pictures required are in this section
- Key areas to look at would be proper signage, exterior of silos, scale houses/offices.
- Landscaping, berms, tree lines are excellent to show.
- Specific areas to key on – Entrance, Roads, Plant Area, Stockpile Access Areas and Parking Areas

Section 1

APPEARANCE

It is possible to score 50 points on this section. You must score at least 80% of total points possible on this section in order to qualify for the Award.

Appearance Rating Scale: 0 = Very Poor; 1 = Poor; 2 = Fair; 3 = Good; 4 = Very Good; & 5 = Excellent

		Points Scored
1	Rate the condition of paint on plant and silos. Score 0 points for "poor" up to 5 points for excellent	*
2	Rate the condition of paint on office and scale house. Score 0 points for "poor" up to 5 points for excellent	*
3	Is there a company sign at the entrance with the appropriate information? Score "0" for no and "5" for yes	*
4	Rate the appearance and extent of entrance landscaping. Score 0 points for "none" up to 5 points for excellent	*
5	Rate the appearance and extent of landscaping inside property. Score 0 points for "none" up to 5 points for excellent	*
6	Are berms, trees or fencing used to enhance the site? Score 0 points for "none" up to 5 points for effectively screened	*
7	Is inactive/abandoned equipment and scrap concealed from view or disposed of promptly? Score "0" for no and "5" for yes	
8	Rate the overall appearance of the plant and site. Score 0 points for "ugly" to 5 points for very appealing	
Items 9 – 13 Scoring Method: "0" points for unattractive or nonexistent or "2" points for attractive		Points Scored
9	Entrance	*
10	Roads	*
11	Plant Area	
12	Stockpile access areas	*
13	Parking Areas	*
Total Points Scored:		

Application Overview: Section 2

- It is possible to score as many as 100 points, min. 80 points. Includes a Noise Management Bonus.
- Do you have a written Plant Operators Manual for the operation of your plant?
- Certain questions here by answering “No” would be treated as automatic disqualification from earning the Award.
- Key areas to look at would be Cold Feed Bins, Dryers, Mixing and Loadout, Baghouse/Wet Scrubber Ductwork, Air Emissions, AC Heating and Storage

Section 2

OPERATIONS

There are 100 points possible in A and 10 bonus points for B Noise Management sub-sections. You must score a minimum of at least 80% of total points possible on this section to qualify.

A “No” answer to any question that falls clearly in the area of provincial regulatory requirements is treated as automatic disqualification. For example, answering “No” to Question 17 or 22 in this section would be treated as automatic disqualification from earning the Award.

[A] Plant Operations	No = 0 points	Yes = 5 points
1. Do you have a written Plant Operators Manual for the operation of your plant?		
Cold Feeds:		
2. Do you calibrate the cold feed bins after each plant move or before yearly startup for permanent plants?		
3. Do you inspect the cold feed bins daily before startup?		
4. Are defects or excessive wear repaired promptly?		
Dryer:		
5. Do you inspect the trunions daily before startup?		
6. Do you inspect inlet and outlet chutes daily?		
7. Do you perform burner tune-ups with a gas analyzer after each plant move or before yearly start-up for permanent plants?		
8. Do you have a quiet burner?		
Mixing and Loadout:		
9. Are all elements of the mixing and control process (elevator, screen, weigh bins, etc.) inspected each day before startup?		
10. Do you have a signaling system to instruct drivers when to stop & proceed at loadout?		
11. Are there overload prevention systems in place?		
Ductwork & Baghouse (if applicable answer questions 12-16):		
12. Do you visually inspect the ductwork and baghouse daily before startup?		
13. Are leaks repaired promptly?		
14. Is the baghouse inspected at least annually with a black light?		
15. Is there a supply of spare bags kept close at hand?		
16. Are leaking bags replaced promptly?		
Air Emissions:		
17. Are visible emissions from the stack and other areas of the plant controlled and is immediate corrective action taken when required?	No = Disqualified	
Ductwork & Wet Scrubber (if applicable answer questions 17-21):		
18. Do you visually inspect the ductwork & wet scrubber daily before startup?		
19. Are leaks repaired promptly?		
20. Are spray nozzles and spray bars inspected and cleaned regularly?		
21. Is your scrubber pressure drop and overall water pressure monitored?		
22. Is the pond cleaned out on a regular basis and waste material disposed, following all provincial and local requirements?	No = Disqualified	
Asphalt Cement Heating & Storage:		
23. Are the liquid asphalt storage tanks inspected daily for leaks?		
24. Are all heat transfer oil tanks, heaters & lines inspected daily for leaks?		
25. Are any and all leaks repaired immediately?		
Section “A”: Total points scored (100 points possible)		

Application Overview: Section 3

- It is possible to score as many as 100 points, min. 80 points. Includes a Noise Management Bonus.
- Answering “No” to any question that falls into the regulatory area of Environment Canada or MOE (Ontario) would be treated as automatic disqualification from earning the Award.
- Sustainability Bonus Section: questions provide potential cost savings
- Key areas to look at would be handling Spill Containment, AC Tanks, Truck Bed Release.
- Compliance with the OAPC EPG. Permitting and Compliance and the Responsible Use of RAP is reviewed.
- Certain documents will be required – Spill Containment, Dust Control

Section 3

ENVIRONMENTAL

It is possible to score 100 points on this section excluding a potential of 15 bonus points. You must score at least 80% of total points possible on this section in order to qualify for the Award. A “NO” answer to any question that falls clearly in the regulatory area of Environment and Climate Canada or MECP (Ontario) is treated as an automatic disqualification. For example, answering “NO” to Question 1, 2 or 3, would result in an automatic rejection of your application, except that portable plants may put not applicable (N/A) to question 1. Check the appropriate box if fuel tanks are double-walled.

Bonus Section: Items 17, 18 19 and 20 – 24 are to encourage sustainable practices. (20 Points Available)

	No = 0 points	Yes = 5 points
Spill Containment Management. Indicate all that apply.		
1. Fuel Tanks and/or natural gas supply: tanks double walled <input type="checkbox"/> (Check here if yes)		*
2. Oil and Lubricants		
AC Tank Containment (If no specific containment in place provide an AC Spills Containment Plan)		
3. AC Tank Containment (If no specific containment in place provide an AC Spills Containment Plan)	No = 0 points	Yes = 5 points
250 Litre (45 Gallon) Product Drum Management		
4. Do you dispose of empty drums promptly?		
5. Do you maintain orderly appearance and safe storage of full and empty drums?		
Truck Bed Release Agent Management		
6. Is there a designated area for truck spray down? (No = 0 points, Yes = 5 points)		
Compliance with the OAPC Environmental Practices Guide (EPG)		
7. Do you maintain a current copy of the OAPC EPG at the plant site? (No = 0 points, Yes = 5 points)		
8. Are records kept on a regular basis in compliance to the EPG guidelines? (No = 0 points, Yes = 10 points)		
9. Are your environmental programs independently audited? (No = 0 points, Yes = 5 points)		
10. Do you have a written plan for the management of fugitive dust control, including water and/or chemical application and/or vacuum sweeping? No = 0 points, Yes = 20 points) If, yes, please submit proof.		*
Permitting and Compliance		
11. Is there a current spill response and prevention plan in-place? If, yes, please submit proof.	No = 0 points	Yes = 5 points
12. Do you have a designated staff person who monitors compliance?		
13. Are copies of valid permits to operate available on site? (ECA, permit to take water, etc.)		
14. Are situations that are out of compliance promptly corrected?		
15. Has the plant assessed NPRI reporting requirements for the previous year and submitted a report if required?		
16. Do you monitor and record temperatures at A/C tanks and Mixing?		
Sustainability Bonus		
17. Has an energy audit been conducted at the facility within the past 5 years? If, yes, please submit proof.	No = 0 points	Yes = 5 points
18. Is the burner tuned each year to ensure efficient fuel use?		

Application Overview: Section 4

- It is possible to score as many as 100 points, min. 80 points.
- Includes a section on signage both on-site and off-site. Is there at least one person on-site qualified in First Aid and CPR?
- This is the section where COR Certification is identified.
- The operation of an Asphalt Plant falls under Occupational Health and Safety Act and regulations for Industrial Establishments. Certain questions here by answering “No” would be treated as automatic disqualification from earning the Award.
- (3) pictures are requested in this section. MSDS, lockout/tagout and Confined Space are addressed in this section.

Section 4

SAFETY

There are 100 points possible for this section. You must score a minimum of 80% of total possible points to qualify. A “No” answer to any question that falls in the area of provincial regulatory requirements is treated as automatic disqualification. The operation of an asphalt plant falls under Occupational Health and Safety Act and regulations for Industrial Establishments (R.R.O. 1990 Reg. 851). Answering “No” to 12, 13, 14, 15, 16 or 17 in this section will be treated as automatic disqualification.

On – Site Traffic	No = 0 points	Yes = 5 points
1. Are traffic patterns clearly identified and posted?		•
2. Are speed limits posted?		•
3. Are there signs reminding drivers to tarp their loads?		•
4. Are there designated parking areas for cars and trucks?		
5. Are racks provided for sampling, inspection, and tarping of loads?		
Off – Site Traffic: On the roads approaching your plant/site entrance:		
6. Do you provide site-specific driver training for truckers (company and third party), including how to enter and exit safety?		
7. Do you have plant access agreements for all third-party haulers?		
8. Are there appropriate signs warning the public of truck entrances and exits?		
9. Is there a program for the management of independent truckers?		
10. Is at least one staff person first aid and CPR certified?		
Accident Prevention and Safety Training/Certification:		
	No = 0 points	Yes = 5 Points
11. Are you COR certified? (No = 0 points, complete Q12 - Q16 Below; Yes = 50 points, omit Q12 - Q16 Below.)		
12. Is there a written Corporate Occupational Health & Safety Policy? See Section 25 (2) (k) of the Ontario Occupational Health and Safety Act.		
13. Is personal protective equipment provided to workers? i.e., hard hats, safety glasses, reflective vests, welding helmets, first aid supplies, hearing protection, fall protection, hand and foot protection.		
14. Is there a Return-to-work policy?		
15. Is there a violence and harassment policy?		
16. Is there a written fire safety plan that includes the following: Fire exits clearly marked, a written emergency evacuation plan and the locations of fire extinguishers clearly marked?		
	No = Disqualified	Yes = 5 points
17. Are current MSDS's (Material Safety Data Sheets) on file at the site?		
18. Does the plant have adequate lighting for night work operations?		
Are written programs in place for:		
19. Lockout/tagout? See Section 42 (7) of the Ontario Occupational Health and Safety Act and Regulations for Industrial Establishments.		
20. Confined Space? See Section 25 (2) of the Ontario Occupational Health and Safety Act and Regulations for Industrial Establishments.		
Total Points Scored:		

Application Overview: Section 5

- It is possible to score as many as 50 points, min. 40 points.
- Some of the items mentioned in this section may be from the Plant and some may be Corporate based.
- Key areas to look at: participation in Social Media, Open House tours for neighbors, press, community groups.
- Charitable donations or events. Any sort of Community recognition in the past two years.
- Apprenticeship training and post-secondary education volunteering/involvement are also recognized in this section.

Section 5 COMMUNITY RELATIONS

There are 50 points possible for Permanent Plants and Portable plants for this section. You must score at least 80% of total possible points to qualify. **Some of these items may be from the plant and some may be corporate based. We rely on your judgment to determine if the activity impacts your plants community.**

Community Relations	No = 0 points	Yes = 10 points
1. Is there a facility program to proactively communicate with community leaders and neighbors about changes in operations that may affect them? (No = 0 points, Yes = 10 points)		
2. Maintain a website? (No = 0 points, Yes = 2 points)		
3. Active on social media? (No = 0 points, Yes = 2 points)		
4. Donations of funds to not-for-profit organizations (No = 0 points, Yes = 10 points)		
5. When was the last time a tour or open house for neighbors, press, community groups, elected officials, etc, was held? (Never = 0 points, Within last 5 years = 2, Within last year = 5 points)		
6. Organize and facilitate employee involvement in local community activities or charitable events? (No = 0 points, Yes = 5 points)		
7. Voluntary maintenance of neighborhood streets, such as snow removal, dust control and litter pick up, pothole repairs etc. (No = 0 points, Yes = 1 points)		
8. If you have received positive community recognition in the past two years (awards, thank you plaques, and favourable newspaper articles) include a photo copy. (No = 0 points, Yes = 10 points)		
9. Have you employed a college apprentice in the past 3 years? (No = 0, yes = 5 points)		
Total Points Scored:		

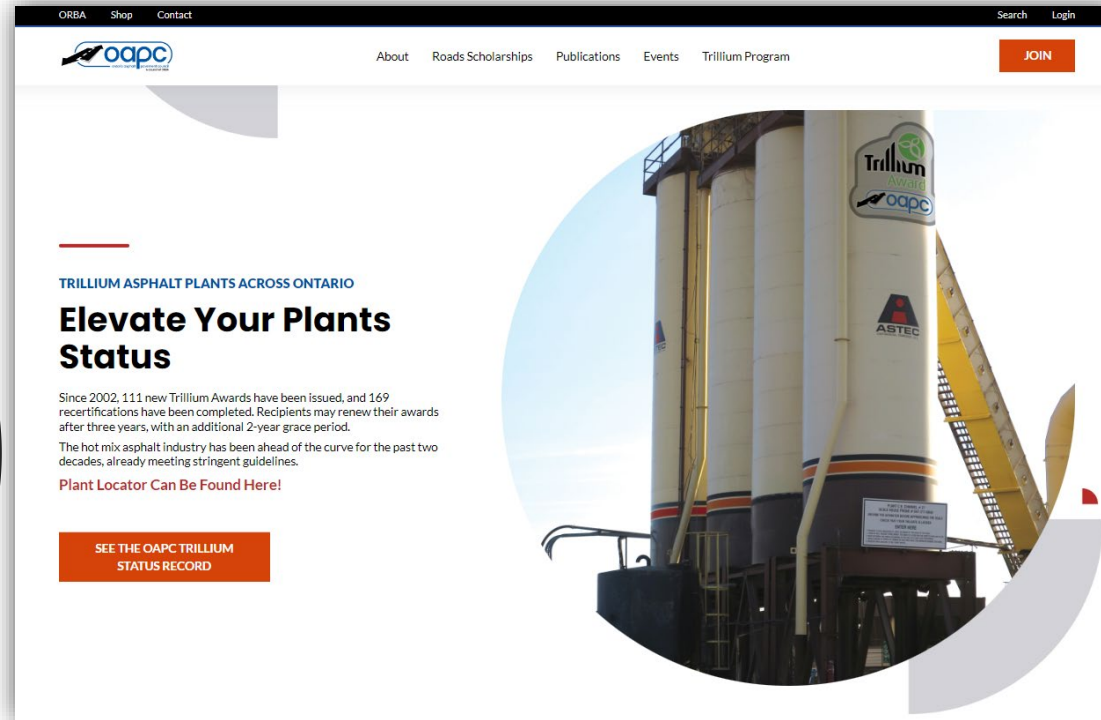
5-Minute Trillium Video Submission

- Maximum 5-minute video on thumb drive or DVD is required with the Application Submission. The video needs to show the Plant/Site during full operation.
- It must include:
 - a) Cold feed bins
 - b) Stockpiles
 - c) Loaders
 - d) Trucks
 - e) Drum/Dryer
 - f) Bathing Tower
 - g) Silos
 - h) Stack
 - i) Tanks
 - j) 360-degree panorama from the top of the silo
 - k) Trucks being loaded from the Plant and/or silos



Trillium Status Records

Know Your
Asphalt Plant's
Trillium Award
Status and
Apply



<https://www.onasphalt.org/trillium-program>

Ontario Asphalt Pavement Council



Trillium Award Program
2024 Application
Deadline: Friday, October 25th

For inquiries about OAPC Trillium Award Program and 2024 Application, please e-mail: Doubra.Ambaiowei@orba.org

Visit our refreshed website to learn more: www.onasphalt.org





THANK YOU

