

RAP/MILLING HAULBACK

PennDOT District 11

Problem/Challenge Addressed

Allegheny County was looking for a solution to lower the cost of 19mm High Rap material while finding an instant use for the milled materials.

Method/Process/Product to Resolve Challenge

Allegheny County began issuing a specialty contract to purchase a Recycled Asphalt Pavement (RAP) Mix material which included milling haul back to the plant.

Awarded vendor retained the millings in exchange for the millings used in the purchased RAP Material.

Results/Key Takeaways

- Decreased material / production costs
- Increased production rates
- Smaller crew size
- Instant utilization of milled material
- Due to the unknown SRL – Cannot be used for final wearing service



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Material Savings

| 2021 program | | | | RAP price per ton | RAP TOTAL | Virgin price per ton | Virgin Total |
|--------------|-----------|-----|-----------|-------------------|----------------|---|-----------------|
| delivery | 47,285.00 | 0.6 | 28,371.00 | 34.5 | 978,799.50 | 55.5 | 1,574,590.50 |
| pickup | | 0.4 | 18,914.00 | 45.5 | 860,587.00 | 61.1 | 1,155,645.40 |
| | | | 47,285.00 | TOTAL | \$1,839,386.50 | TOTAL | \$ 2,730,235.90 |
| | | | | | \$ 890,849.40 | RAP vs Virgin projected savings for entire year | |

Additional Trucking Savings

| | |
|--|--|
| Rental trucks | |
| 2 rental trucks to supplement without millings haul back | |
| \$93 per hour for rental truck | |
| 8 hours per day | |
| 55 days of actual base repair | |
| \$ 81,840.00 | Amount to supplement no haul back of millings on BR days |

Total Savings: \$972,689 (not including production savings)

