

**Anchorage Metropolitan Area Transportation Solutions  
(AMATS) - Arterial Roadway Dust Control**

**FY2012 Request: \$200,000  
Reference No: 49117**

**AP/AL:** Allocation

**Project Type:** Construction

**Category:** Transportation

**Location:** Anchorage Areawide

**House District:** Anchorage Areawide (HD 17-32)

**Impact House District:** Anchorage Areawide (HD 17-32)

**Contact:** Frank Richards

**Estimated Project Dates:** 07/01/2011 - 06/30/2018 **Contact Phone:** (907)465-6900

**Appropriation:** Surface Transportation Program

**Brief Summary and Statement of Need:**

Apply magnesium chloride dust palliative to approximately 70 miles of high volume state and municipal roadways prior to and immediately after spring sweeping. This project contributes to the Department's Mission by reducing injuries, fatalities and property damage and by improving the mobility of people and goods.

<b>Funding:</b>	<b>FY2012</b>	<b>FY2013</b>	<b>FY2014</b>	<b>FY2015</b>	<b>FY2016</b>	<b>FY2017</b>	<b>Total</b>
Fed Rcpts	\$200,000						\$200,000
<b>Total:</b>	<b>\$200,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200,000</b>

<input type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input checked="" type="checkbox"/> Phased - underway	<input type="checkbox"/> On-Going
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

**Operating & Maintenance Costs:**

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	0
<b>Totals:</b>	<b>0</b>	<b>0</b>

**Additional Information / Prior Funding History:**

\$200,000 - Ch 43 SLA 2010 Sec 7 pg 44 ln 11. This is an annual program through 2013 contingent upon approval by AMATS, prior funding authorization is utilized on an annual basis.

**Project Description/Justification:**

Reduce PM-10 (particle matter) exposure especially to people living, walking, cycling and driving along major roads during spring break-up when PM-10 concentrations can approach the federal air quality standard. Magnesium chloride (MgCl<sub>2</sub>) dust palliative will be applied to approx 70 miles of high volume State and municipal roadways prior to and immediately after spring sweeping. MgCl<sub>2</sub> is applied as a liquid brine to roadway shoulders and medians where winter traction sand and silt accumulate. Because of its hygroscopic properties, areas wetted with magnesium chloride can remain wet for two to three weeks after application even in dry periods. Because MgCl<sub>2</sub> brine has a low freezing point, it can also be used as a dust suppressant that allows street sweeping in sub-freezing conditions.