From: Caudill, Motria
To: Dickens, Brian; Miller, Patrick; Cain, Alexis
Cc: Patel, Shilpa; Lehrman, Loretta; McGrath, Jesse
Subject: RE: Steel Manganese - Short Summary - available Mn air data
Date: Monday, December 23, 2013 9:07:12 AM

Enforcement Confidential

Hi Brian - regarding locations in R5 that exceed the ATSDR number (0.3 ug/m3) for manganese:

1) The East Liverpool water plant station @SHBell is consistently 3x the ATSDR number (20x the EPA RfC). Shilpa and I have talked about the data a few times the past couple years.

2) The Burns Harbor site runs about 1.5x the ATSDR number (8x EPA's). The Xact metals monitor is now stationed there, so we'll have at least a few weeks of hourly data with on-site meteorology; we'll see what's contributed by Arcelor-Mittal versus the other smaller sources around the harbor.

3) Monitors in Gary (@US Steel) and Cleveland (@Arcelor-Mittal & Charter) are just above/below the ATSDR number (depending on the year), averaging around 4x the EPA RfC. These two stations are not immediately at the industrial fenceline, so keep in mind that higher Mn levels exist closer to the emissions points.

As always, our group is happy to provide any monitoring updates regarding the above sites if they would be helpful to you.

-Motria

From: Dickens, Brian
Sent: Wednesday, December 18, 2013 3:06 PM
To: Miller, Patrick; Cain, Alexis; Nash, Carlton; Caudill, Motria
Subject: Steel Manganese - Short Summary