From: Nwia, Jacqueline
To: Bollweg, George
Subject: RE: manganese rare
Date: Monday, December 02, 2013 12:41:57 PM

George,

Could you give me a similar paragraph for SW Indianapolis and NW Indiana Lakeshores, please?

From: Bollweg, George
Sent: Monday, November 04, 2013 1:29 PM
To: Nwia, Jacqueline
Subject: RE: manganese rare

Is this too long/too short/about right? Let me know, thanks.

In July 2013 preliminary results from a USEPA-funded study of exposure to and effects of airborne manganese (Mn) in Ohio adults were presented at East Liverpool OH public meetings. Subtle health effects associated with chronic airborne Mn exposure were reported at the East Liverpool meetings; for example, living closer to the Mn source for a longer time (more Mn air exposure) was associated with borderline to mild tremor and slightly lower motor speed and strength. East Liverpool study results are being combined with prior study results from Marietta and Mt. Vernon OH adults for publication in the professional literature. Historic monitored outdoor air Mn concentrations in East Liverpool have been among the highest in the US, but the East Liverpool source most likely responsible (SH Bell) has made substantial operational changes in the past few years that have lowered East Liverpool airborne Mn. Involved state and federal agencies are committed to continuing monitoring and oversight.

From: Nwia, Jacqueline
Sent: Monday, November 04, 2013 7:19 AM
To: Bollweg, George
Subject: RE: manganese rare

This is for an air toxics compilation that MaryPat wants to give to Bharat. The fact sheet is very nice and provides a lot of useful information but too long for this purpose. I need a paragraph –SAR length, please.

From: Bollweg, George
Sent: Thursday, October 31, 2013 10:55 AM
To: Nwia, Jacqueline
Subject: RE: manganese rare

Hmmm…What is this for? When do you need it? Is this "fact sheet" (http://www.epa.gov/nheerl/mnstudy/files/East_Liverpool_Factsheet.pdf) usable? let me know, thanks

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From: Nwia, Jacqueline
Sent: Thursday, October 31, 2013 10:13 AM

To: Bollweg, George
Subject: manganese rare

I assume this is your gig…could you give me a paragraph describing the project and include any results please.