From: Smith, Judy
To: "DANAB Marcia"; armitage.sarah@deq.state.or.us
Subject: RE: Urgent: Message map for monitoring at Tubman
Date: Thursday, February 18, 2016 11:25:00 AM

- Hi Marcia – I'm checking your message map out with our program folks and will get back to you soon. Here is the link to the EPA site about the school monitoring: http://www3.epa.gov/air/sat/HarrietTub.html

Here are bullets and supporting information that I had in process here at EPA:

- Harriett Tubman School was selected to be part of a national initiative by Administrator Lisa Jackson to assess outdoor air toxics near schools. Schools were sampled in 22 states and 2 tribal areas.
  - This school was selected for monitoring in consultation with ODEQ because it was near an urban industrial area as well as interstate and state highways. The EPA's 2002 NATA analysis indicated potential concern about elevated levels of manganese and nickel from nearby industrial sources and acetaldehyde, acrolein, benzene, and 1, 3-butadiene from mobile sources.
  - More information at: http://www3.epa.gov/air/sat/HarrietTub.html

- Monitoring started at this school on August 23, 2009 and ended on November 3, 2009.
  - During this period, 13 PM_{10} metal samples, 13 carbonyl samples, and 12 VOC samples of airborne particles were collected and analyzed for the key pollutants and other air toxics at this school.
  - The samples were analyzed for manganese, nickel, acetaldehyde, benzene, and 1, 3- butadiene (the key pollutants at this school) and for a standardized set of additional PM_{10} metals, carbonyls, and VOCs that are routinely included in the analytical methods for the key pollutants.

- The intent of the dataset developed from this 2-3 month monitoring initiative was to help identify priorities for longer-term monitoring projects to improve air quality.

- Summary of Key Findings
  - Measured levels of manganese and nickel were well below levels of concern for long term exposures.
  - Measured levels of benzene, 1, 3-butadiene, and acetaldehyde levels were lower than expected from modeling information available prior to monitoring.

- Next Steps for Key Pollutants
  - EPA recommended additional monitoring for cadmium to better understand the elevated levels observed in this study, identify the source(s) and further characterize any potential exposure to the community.
  - ODEQ was expected to continue to oversee industrial facilities in the area through air permits and other programs. ODEQ has developed state-specific ambient benchmark concentrations, which are used with either monitoring or modeling studies, for these key pollutants. They may be found at http://www.deq.state.or.us/aq/toxics/benchmark.htm. The ODEQ will also

continue to implement reductions in mobile sources through implementation of national programs and its own programs.

- In 2011, additional monitoring was conducted by DEQ with equipment and support from EPA to help locate the source of cadmium. EPA wrote the final report. This monitoring does not indicate long term concern for cadmium at the school. Based on recent events, R10 or ODEQ is considering monitoring at location closer to source.
    - Monitoring:
        - PM10 - May 28, 2011 through July 18, 201 (47 samples)
        - Evaluation of wind roses – plotted highest days for initial and additional monitoring
    - Long term non-cancer comparison level for cadmium is 10 ng/m3
    - Long term cancer comparison level for cadmium is 56 ng/m3
    - 95% Confidence level for first SAT sampling 12.7 ng/m3 (13 samples Aug-Nov 2009)
    - 95% CI for additional SAT sampling 1.8 ng/m3 (47 samples)
    - Combined data 95% CI is 3.98 ng/m3
    - Comparison with Portland NATTS (National Air Toxics Trends Sites) – cadmium levels appear to track each other

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From: DANAB Marcia [mailto:DANAB.Marcia@deq.state.or.us]
Sent: Thursday, February 18, 2016 10:48 AM
To: armitage.sarah@deq.state.or.us; Smith, Judy <Smith.Judy@epa.gov>
Subject: Urgent: Message map for monitoring at Tubman
Importance: High

Here is a brief message map that I took mostly from the DEQ response to the Governor's requests re: Portland Metals

Sarah – I think this is what Julie at Multnomah County Health was talking about having
Simple talking points.

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