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KAFB BFFS
ST-106/SS-111
Soil Vapor Sampling

From: Wear, Benjamin, NMENV
To: LYNNES, KATHRYN D HQE USAF AFGSC 377 MSG/SAF/IEE
Cc: Pierard, Kevin, NMENV; Andress, Lane, NMENV; KOTTKAMP, SHEEN T GS-13 USAF AFCEC AFCEC/CZOW;
WORTMAN, RYAN J GS-13 USAF AFCEC AFCEC/CZO; Stapleton, Mark
Subject: RE: Shallow Soil Vapor
Date: Monday, January 11, 2021 6:53:00 AM

Kate,

This issue isn't one set of data or a particular figure, it is the totality of the data. There was widespread vapor contamination in the areas by the VA and neighborhoods.

Thanks,

Ben Wear
Environmental Scientist Supervisor
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6313
(505) 476-6041

From: LYNNES, KATHRYN D HQE USAF AFGSC 377 MSG/SAF/IEE <kathryn.lynnes@us.af.mil>
Sent: Thursday, January 7, 2021 1:15 PM
To: Wear, Benjamin, NMENV <Benjamin.Wear@state.nm.us>
Cc: Pierard, Kevin, NMENV <Kevin.Pierard@state.nm.us>; Andress, Lane, NMENV <Lane.Andress@state.nm.us>; KOTTKAMP, SHEEN T GS-13 USAF AFCEC AFCEC/CZOW <sheen.kottkamp.1@us.af.mil>; WORTMAN, RYAN J GS-13 USAF AFCEC AFCEC/CZO <ryan.wortman.3@us.af.mil>; Stapleton, Mark <Mark.Stapleton@noblis.org>
Subject: [EXT] RE: Shallow Soil Vapor

Thanks Ben. It would be helpful for you to provide specific well numbers, table and figure references and specific report citations to help ensure that we are able to accurately respond to your concerns.

From: Wear, Benjamin, NMENV <Benjamin.Wear@state.nm.us>
Sent: Thursday, January 7, 2021 12:10 PM
To: LYNNES, KATHRYN D HQE USAF AFGSC 377 MSG/SAF/IEE <kathryn.lynnes@us.af.mil>
Cc: Pierard, Kevin, NMENV <Kevin.Pierard@state.nm.us>; Andress, Lane, NMENV <Lane.Andress@state.nm.us>
Subject: [Non-DoD Source] Shallow Soil Vapor

Kate,

You requested that I supply you with the data that I was looking at prior to 2016. I reviewed data from the July-September 2012 sampling event. This seems to be around when the highest vapor concentrations were observed. Note that benzene plume figures depict a 0-1 ppmv contour that

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extends under the neighborhood and the VA. The NMED VISL is 0.038 ppmv. I have also reviewed 2016 data and 2020 data.

In addition, you asked that I provide the analytical laboratories that I spoke with regarding the Air Force's data quality issues. AirToxics has a "slice method" that can achieve the criteria of reporting limits or LOQs below the VISLs for EDB with no interference from dilution. In addition, the lab that the AF currently uses, ALS, has a method that can achieve reporting limits over an order of magnitude greater than the method currently used. It is the responsibility of the Permittee to demonstrate a diligent effort to retain an analytical laboratory and method whose detection, reporting, and quantitation limits are below the SL.

The AF has stated on multiple occasions for more than a year, including in their November 8, 2019 *Response to Comments Matrix*, that "Kirtland AFB has obtained laboratory and analytical methods that have LOQ and MDL values below the VISLs." To date, there have been no changes to the lab/method regarding this issue.

Thanks,

Ben Wear
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