



October 16, 2014

APPROVED
12/8/14 H.B.

Ryan Weiser
Holly Burke
Kansas Department of Health and Environment
1000 SW Jackson
Topeka, KS 66612-1367

PNL Project 07-119.400

RE: National Zinc Cherryvale, Kansas, Phase II Removal Site Evaluation Status Report. Prepared on behalf of United States Steel Corporation and Citigroup Global Market Holdings, Inc. (collectively the "Respondents" under Consent Order No. 03-E-0022, as amended.)

Holly and Ryan,

Please find attached a summary of the work through October 10, 2014.

General Work Status

Project Navigator, Ltd. (PNL) continued to obtain access agreements for properties within the city of Cherryvale and work is continuing to define smelter residue material (SRM) classification for residences, ditches and alleys. Initial sampling of selected locations is ongoing. Sampling at 4 daycare center facilities was completed. One daycare facility remains to be sampled. Sampling of selected properties within the range of SRM classes is ongoing.

Access Agreement Status

Access has been obtained from the City of Cherryvale for roads, rights of way and other city property. To date, access agreements have been secured for inspection or sampling of 84 properties.

Community Relations

The community is aware of the activities in Cherryvale. The locally employed staff continues to work within the community to obtain access. Several residents have approached staff inquiring about the work and have been provided with access agreements for property inspection or sampling. Staff from the City of Cherryvale has not reported any resident complaints to PNL staff.

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Agency Interaction

Agency interaction has included telephone calls to Holly Burke at KDHE regarding work status.

Sampling Status

Property	Number of Properties	Note
Residential	9	As per work plan, expedited as per request by KDHE.
Daycare	4	As per work plan, expedited at request of KDHE
Park	1	As per work plan, expedited at request of KDHE
Gradient	4	As per work plan
Ditch	2	As per work plan
Alley	1	As per work plan
Fallout Area Residential	1	As per work plan
Schools (completed previously)	3	As per work plan, expedited at request of KDHE

Notable Observations

Reconnaissance is ongoing to systematically evaluate ditches and rights of ways throughout the city for SRM classification. A detailed examination of several roadbed sidewalls shows that a 6 to 10 inch SRM layer with retort fragments typically constitutes part of the road base. This layer is overlain by soil, limestone then asphalt. In some instances where the road sidewall has been disturbed, some of the SRM in the road base has eroded and fallen into the ditch. In areas where brick roads are present, exposed sidewalls in ditches have not been observed and SRM in the road base has not been directly observed. Where sidewalk brick has been removed through wear and tear or other activity, a fine grained black SRM base material is typically observed in the sidewalk base. Granular SRM used as driveway topping or fill has been observed at a number of locations however most areas have some later cover material of soil or limestone. SRM fragments consisting primarily of retort fragments are observed sporadically in a number of alleys under eroded or thin limestone topping.

Upcoming Tasks

Approximately 12 locations are slated for classification and sampling which includes residential, alley, ditch and gradient sampling. Additional tasks include:

- Continue work to obtain access agreements.
- Continue XRF analysis of collected samples.
- Continue to refine SRM classification methodology as per the work plan.
- Follow up on priority properties with SRM reported to KDHE.

Cherryvale Phase II RSE Update

Should you have any questions, please contact me at 713-539-3636 or by email at mlandress (at) projectnavigator.com

Regards,
Mark Landress, P.G.

/s mlandress

Project Navigator, Ltd.

