
MEMORANDUM

DATE : March 29, 2023

TO : Pratap Singh, Ph.D., PE / KSingh

FROM : Robert Reineke, PE / KSingh

SUBJECT : Vapor Mitigation Efforts – Community Within the Corridor – East Block
March 29, 2023

COPY TO : Shane LaFave/ Roers Companies, Project #40441

I and Kevin from Northshore met in the parking lot of CWC West Block at 8:30 am.

All fans were operating. Garage fans operate at regular intervals at high speed and appear to operate continuously at a lower level.

The mechanical room where the crock was sealed temporarily had a PID reading of 0.0 ppm today.

An apartment-by-apartment survey was performed by myself and Kevin. Gaps between the floor and brick walls were noted particularly in apartments 1045 and 1050 where reading was 0.4 ppm. PID readings were generally 0.0 in the majority of apartments.

Vapor pin measurements were made. Results were 0.091 inches in most of the building. Vapor pins on the western portion of the building had vacuum measurements consistently less than 0.004 inches H₂O. All pins were left in place for additional progress monitoring.

Fliteway was on site today to review electrical provisions for additional blowers. Fliteway suggested pulling vacuum from each individual line in case water / condensate was preventing vacuum / accumulating in sags. Strategy attempted but results were not demonstrated.

The following recommendations are made:

1. Complete installation of Vapor Extraction Point and Fan in Mechanical Room.
2. Perform Portable GC testing starting 3/30.
3. We recommend increasing the blower capacity and adding radon fans in areas of concern so that sufficient vacuum is achieved. Current vacuum measurements are inadequate.
4. We recommend televising legs of vacuum system to determine if water is present. Alternatively, a high vacuum truck / system can be mobilized to clear lines of any water or debris.
5. Perform additional vacuum testing on newly installed vapor pins.
6. Get drum and drain liquid in northern blower.

Action items for Thursday, March 30.

1. Perform portable GC testing.
2. Install valves for the north blower to control vacuum as needed.
3. Need to find a contractor to pump water in the vapor extraction pipes. Northshore was contacted but they seem to be very busy.
4. CCTV inspection of the piping system to determine blockage/structural failure.
5. Temporary seals will help but need a permanent seal to address construction deficiencies.
6. Continue coordination with Fliteway for additional blowers.