

TACOMA, WA, USA

EST. 1916

Rite in the Rain®

DEFYING MOTHER NATURE

Name _____

Address _____

Phone _____

Project _____



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7/29/23 Emergency Response
Mercury Spill

Location: 122 S. 39th St.
Omaha, NE 68131

GPS: 41.2589047, -95.9722116

1730: R1 Nick Wiederhott
received a call from
John Simpson, Tetra Tech
START readiness coordinator.
Simpson explained to
Wiederhott that EPA was
notified of a mercury release
in Omaha, NE.

1745: R1 Wiederhott called
R2 Sarah Green & notified
her of the incident.

1815: R2 Green arrived at the
Tetra Tech office in
Kansas City & began drafting
a HASP & putting together
safety procedures & SOPs

7/29/23

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1900: R1 Wiederhott arrived at
the Tetra Tech office in
Kansas City & began gathering
supplies & a vehicle.

1915: R1 Wiederhott & R2 Green
called John Simpson to
confirm that the correct
supplies had been packed.
R1 Wiederhott called Joe Davis,
EPA OSC, to notify him of
START's departure.

1930: START R1 & R2 Wiederhott
& Green departed from
the Tetra Tech office
en route to the site.

2030: Wiederhott & Green arrived on
site to meet EPA OSC Joe Davis

Joe Davis used tubes to
monitor air

~ 100-200 $\mu\text{g}/\text{m}^3$ in lobby
1000 in ~~business~~

40, 20,000 in immediate area
Hot in the Rain

7/28/23

background reading @ USGS
 $\sim 2 \text{ ng/m}^3$

lobby: $140 - 170 \text{ ng/m}^3$

elevator: 275 ng/m^3

basement: $\sim 12,000 \text{ ng/m}^3$

basement hallway of spill: $\sim 2000 - 3000$

2050: Joe Davis investigates the immediate spill area.

mercury beads extend into west restroom of SE hallway of basement level.

Microbeads scattered throughout the south half of the hallway. The bathroom has tile flooring.

Homeowner [redacted], stepped just inside hallway. Her shoes have elevated readings of $> 25,000$

7/29/23

ambient on 12th floor lobby:
 $\sim 350 \text{ ng/m}^3$

inside homeowner unit 1205:
 $\sim 200 + \text{less}$

2300: homeowner shows EPA + START the dumpster where the bag with mercury container is.
 inside dumpster: $+12,000$

[redacted]
 11:17: Depart site for the day and head to hotel.

Mike Webber

6 7/30/23 88° Sunny

0815 STM Wierderhoff and ~~STM Wierderhoff~~^{new}
STM Green depart hotel and head to gas station to get ice and drinking water.

0900
0845^{new} Meet OSC Davis on site.
0837 STM Green and STM Wierderhoff on site. Organize and become familiar with equipment & supplies
Health and Safety Meeting

0905 Joe Davis, EPA OSC calls & checks in with Environmental Restoration.
En route: ETA 10:30

0915 Joe Davis left a voicemail for the sister-in-law about screening her residence. She may have gotten mercury on her shoes.

0930: START departs the site to head to SIL's house.

16790 Road Road
Honey Creek, IA 51542

1010 Arrive at residence above to

7/30/23

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screen personal items & clothing belonging to [redacted] ([redacted] sister-in-law) and her brother since they were both on site at condominium located at 122 S. 39th, Omaha, NE where mercury spill occurred yesterday. They were supposedly cleaning out locker/storage space with [redacted] father's belongings in basement when spill occurred.

1145 Screened items/garment + home clothing & shoes items

[redacted] clothes: >50,000

his (w/utis): >30,000

Shoes ~ 12,000

Ambient ~ 9500 - 11500

car ~ 6000 - 9000

home - 9000 - 9400

homeowners advised to throw out clothes, ventilate garage, car, + home. Will be in contact + likely return later today.

Plot in the Plot

8 7/30/23

1300: arrive back on site at spill location.

1400: Joe Davis + Sarah Green use Lumex machines to monitor air in the basement.

ambient: 900-1300

no carpet bottom of shoes of ER: ~5500
carpet headspace of hallway: 4,500-6500
carpet under plastic liner: >50,000

1630 Meeting with OSC Davis and ER to discuss plans for staging resident's personal belongings from contaminated locker/storage area in basement. Plan to put assumed uncontaminated items in open spaces in underground parking garage, and contaminated items outside to clean/ventilate.

1640 STM Wiederholt and STM Green depart site in Omaha and head back to house at 16790 Reel Rd, Honey Creek, IA to rescreen house, garage, + vehicle after ventilating this afternoon.

1718 Arrive at residence

7/30/23

1730

S. Green + N. Wiederholt arrive at [redacted] residence to monitor air.

levels are much better after venting.

levels generally ~1000-1200 on the upper level common areas < 200 in basement ~9000 on bedroom carpet headspace ~1100-1600 in laundry basket < 100 in vehicles + in garage

advised [redacted] to continue to vent as long as possible through the night. START will return to check in the morning.

1815 Depart site and head to hotel

~~Tuck Wiederholt
7/30/23~~

10 7/31/23 80° Rainy

- 0800 STM Wiederholt and STM Green arrive on site, conduct daily tail gate health and safety meeting.
- 0820 Read Metallic Mercury Emergency Spill Response Field Guide
- 0835 Join a call with START readiness coordinator John Simpson to discuss status of mercury spill cleanup.
- 0850 Call ended with John Simpson.
- 0900 Planning meeting with Ose Davis. Test on Lumex ⁽¹⁷⁰⁷⁾ D = 1%
- 0915 Enter to screen basement in condominium.
- 1057 ER crew has emptied Locker Area "SE" and staged personal belongings in bags for owner [redacted] to go through + indicated which items she would like to try to keep or discard.
- 1112 Heading over 3326 Hickory St to screen [redacted] residence. All readings within house were 120 ng/m³ or below. Shoes were 800 & sandals were 1,100 ng/m³.
- 1142 Back to spill site.

7/31/23

11

1230 Residents in the first floor guest room + 302, requested screenings.

Guest Room (101): breathing zone levels around 400 ng/m³
laundry basket: ~~600~~ ~900

302: room levels in breathing zone ~60.

laundry basket ~600
soles of shoes of residents from both rooms ~1000.

Residents advised to vent and wipe laundry baskets + sole soles with scaly paper towels.

1330: Resident request awareness screening in 102. levels in unit below ~~at~~ ambient in hallway. Shoes in hallway slightly elevated at ~800.

1345 Depart site to take lunch & purchase mop & buckets. *the rain.*

7/31/23

1435 Back to site and prepare to map laundry room floor due to potential tracking of contamination by residents.

1533 Finish mopping floor.

1544 Background reading for Lumps $1709 \pm 13 \text{ ng/m}^3$

1546 Exhaust vent on south side of building = 5,100

1548

↳ Laundry room floor = 90

Laundry room ambient air = 60

(door has been propped open)

1551 Basement hallway by elevator = 120
floor by elevator = 300

1600 Leaving spill site to screen at [redacted] residence.

1640 arrived at residence
residence has been closed up (windows) with A/C on for ~ 30 min

1740 finished up in the home

levels of ambient air

~ 1200

floor ~ 1700

bedroom carpet entry way ~ 3000

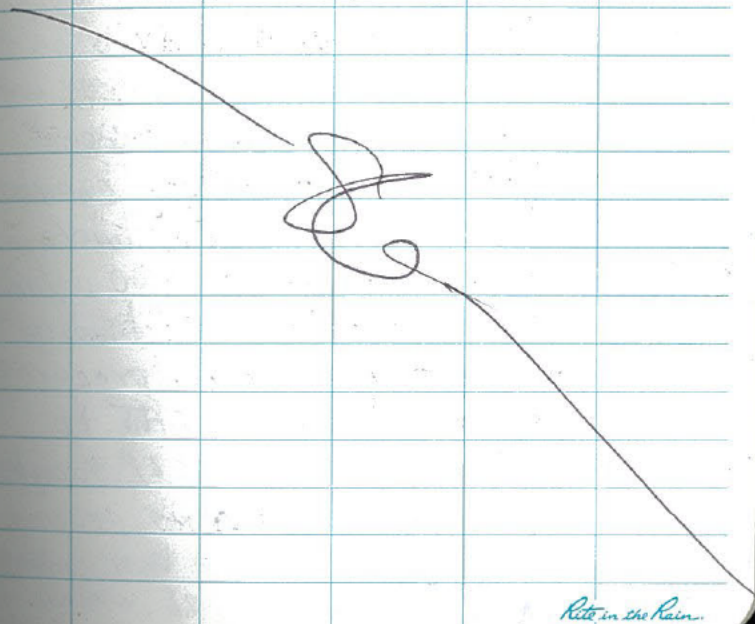
Recommend vent when comfortable.

plan to return with EPA/USE

see Davis to wipe

hard surfaces with Mercox

1800 depart for the day



8-1-23 84° cloudy

0800: Wiederholt + Green arrived on site. Discussed with Joe Davis about yesterday evening's activities + today's plan.

Meeting w/ residents at 6pm
1023 Heading to 16790 Read Rd, Honey Creek, IA to rescreen home with Lumex and probably clean floors with Mercox. (HgX) Spend the morning moving personal items from Locker 56 outside in parking lot to aerate mercuric vapors.

OSC Sharon Kennedy is on site today. She has spent time with OSC Davis screening additional floors & rooms in Apt. complex with readings in hallways ranging from 30 - 500 $\mu\text{g}/\text{m}^3$. STM Wiederholt is coordinating with EPA Fisher on procuring a lab with a quick TAT to process composite TCA samples for disposal of tenant's personal belongings that have been contaminated.

1052 Arrived at 16790 Read Rd. windows on

8/1/23

house are currently open.

1158 Finish screening residence. Avg. ambient air readings throughout house was 300 ng/m^3 with windows open. Dog's paws ranged from 1,400-1,900 + fur ranged from 500-700. Recommended to owner to bathe dogs in Selsun Blue shampoo. Bags and bag of clothing ~~are~~ that were in contact with contaminated clothing are on deck to further aerate. Problem area is carpet in entryway to master ^{new bedroom} ~~bathroom~~. Readings range from 3,000-10,000 ng/m^3 . Instructed owner to close up house with A/C turned on and will return later this afternoon to collect additional indoor readings. Owner will later try to ^{heat/ventilate} ~~ventilate~~ carpet.

1240 Take Lunch.

1305 call Emily Fisher regarding lab procurement.

1320 Back on site.

1330 EPA OSC Joe Davis held

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a town hall meeting
for the residents of the
DEA building.

1900 START + OSCs

Screened apartments +
shoes for Hg.

no concerning levels were
found. few pairs of shoes
were wiped with HgX.

1435 START prepared to
collect a sample of
composite waste.

START wore Tyvek +
respirators (level C)
and tore off pieces of
trash/waste into an
8 oz. jar for Hg
analysis - TCLP.

1445 sample collected.

8/1/23

1530

START purchased
a cooler + ice to
ship sample to
TEKlab in FedEx overnight

1600

START packaged the
sample.

1725

START arrived at FedEx to
drop off sample.

~~Mark Wiedemann~~
8/1/23

18 8/2/23 Cloudy, high of 86°F

STM Wiedenhoft and STM Green arrive on site.

0757 On site - daily tailgate Health & Safety meeting.

0815 Plan day's activities with USC Davis and USC Kennedy. FR crew is still trying to collect any visible beads of mercury in locker storage area before mopping floor. Adjacent Locker to the right of Locker '56' where incident occurred may have a few beads on perimeter. Hopefully storage locker to the left is not contaminated.

0850 Head to residence at 16790 Reed Rd, Honey Creek, IA to rescreen house after being shut up with AC on for approximately 22 hours.

0930 Arrive at 16790 Reed Rd, Honey Creek, IA
Dgs of Lumex 1709 = 1%
Background Reading = 18 ng/m³

1020 Finished screening home. Average ambient ~~AIR~~ breathing zone is around 1,500. Carpet in bedroom & master closet is ~~averaging~~ 1,500 - 5,700 ranging between.

8/2/23

19

Blond dog fur = 5,000 - 6,000

Black dog fur = 10,000

Black dog paws = 4,400

Blond dog paws = 3,400

USC Davis recommended to residents to bathe both dogs with Selsun Blue & clean floors and EPA will return in a few weeks for a follow-up screening after these steps have been taken.

1035 Leave Residence.

1155 return to spill site.

1210 Take some readings from laundry room and hall way near elevators, & Parking Lumex test D = -3% Garage
(See field sheet for detailed readings)

1345 Environmental Restoration
Wiped the floors in the spill hallway with HgX, and continue to vacuum the white + wait for the floors to dry.

1535 EPA USC Kennedy + Davis screen apartment 1201.

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8/2/23

1745: EPA OSC Kennedy
 screens the spill hallway
 laundry room: 328
 first lockers: 900
 hallway: 1000
 34 way:
 in unit: 2200
 Dags unit: ~1500
 left edge of [redacted] unit
 along the floor of plywood wall:
 ~3000-7000
 [redacted] owns the fer unit
 next to cabinet. locked
 bathroom tile: 3300 max
 crevice: ~4000

1615: ER begins placing bags of
 contaminated waste into
 roll-off box

carpet by elevator/hallway 4000
 carpet in front of plastic ~20000

There's a crevice in the concrete on
 the other side of a door that is

8/2/23

locked. May fill that crevice with
 foam.

lobby ambient w/ fans off: 2500

when Sharon screened, she saw metallic
 bits on the baseboards of the
 wooden/metal frames/wall of the lockers.

~~Fans off~~ BZ near first lockers < 1000
 carpet between elevators & lockers
 ~6000 ambient air.

FL ~ 20,000+

FL of slating area ~ 1000-2000

FL under carpet runner ~ 14000

BZ in the hallway ~ 300

FL in main locker ~ 1500

mercury beads on the middle ledge of
 the wire frames. ER will wipe/soak
 Also tasked to remove carpet &
 fill the crevice with foam fill.

1745 End of day

~~Mark [unclear]~~
 8/2/23

8/3/23

0800: N. Wiederholt + S. Green
arrive on site.

0810: EPA OSCs + START used
lunex to delineate contamination
on the carpet in the basement.
Carpet is very hot in front
of the spill hallway > 20,000
carpet to the laundry room
is okay - 6000 after
plastic covering. Elevator
carpet is good. < 3000 in
both.

0900: EPA OSC Joe Davis spoke
with the BEA board
[redacted] about removing
all the carpet on the 8th floor.
The board approved to
remove all carpet.

0915: ER begins to remove carpet
Joe Davis, OSC, instructs
START to wrap up +

8/3/23

head out and demobilize.

Crew has conversation
about resident safety on the sticky
floors. Talking about leaving
carpet after stairways/sitting
area/garage hallway.
Crews are pulling for now + will
lay existing carpet runners
scored by residents on the
sticky floor.

0917: ER requests air monitoring while
removing carpet. Nick sets up the
lunex. OSC Joe Davis checks BZ
in the spill hallway. levels
are below 300 + even below 100
on the furthest end of the hallway.

0930: Nick + Sarah screened every deck
of the apartment complex as a
part of final clearance. (1-12)
all levels are less than 202.

1120: began screening residences/units
and found levels generally below 100.

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1155: ~~at~~ carpet has been completely removed on all floors east of the stairwells. Fans have been turned off to allow levels to stabilize.

1420: START begins final walk through of basement level using the Luvex.

#s throughout are generally below 1000.

The ~~South~~ ^{South end} end of the spill hallway was slightly elevated.

After airway wipes, OSC Joe Davis determines the area clean with a max reading of 11900.

1605 START demobilizes from site and heads back to Kansas City.

1641 OSC Davis called and said that after additional DsX was applied, South end of spill hallway read 800-1,200 ng/m³ & Locker SG was reading about 600 ng/m³ in

1916 breathing zone.
Back at Tetra Tech in Kansas City.