0 71503 21144 6

7530002223521

KEIZER
MERCURY

7530-00-222-3521
FEDERAL SUPPLY SERVICE
(GPO)

8/12/16 Kaiser Mercury Spa

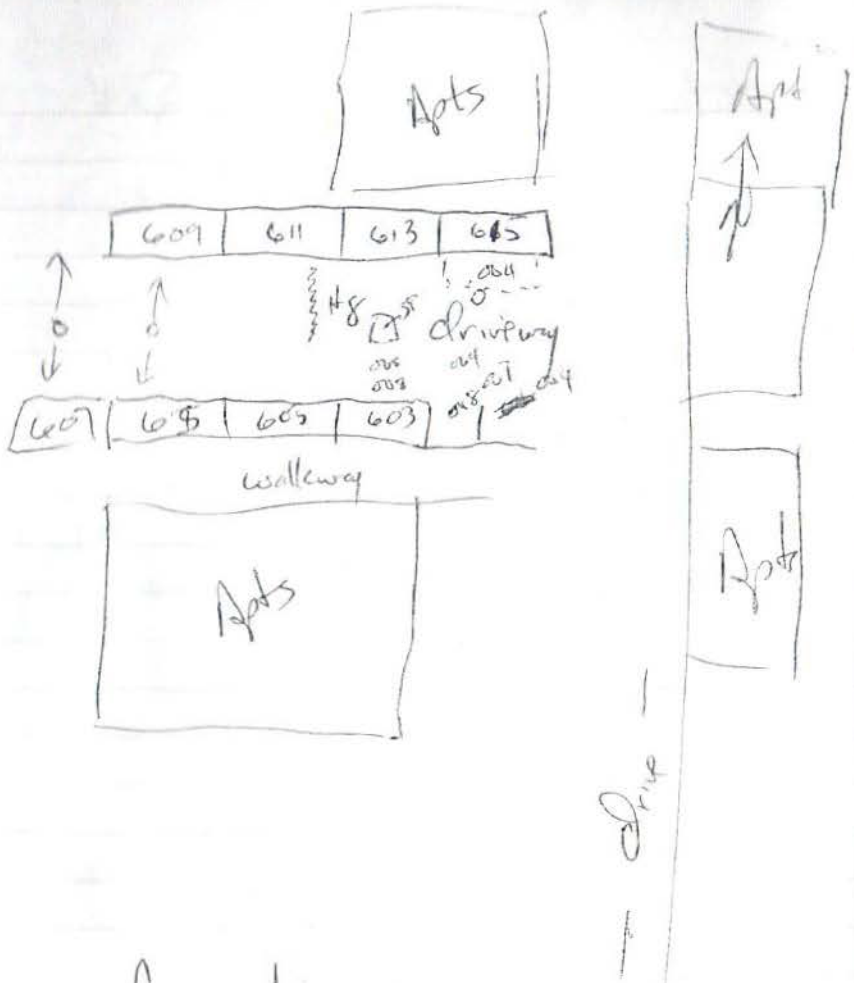
Bill Fear - Salem Hazmat
Ryan Rusal - Capt. (IC)
Gary West - Hazmat

(b) (6) [redacted] - Property Manager

Garage #116 - Renters moved out on 7/29. Rental Apt #611 Carpet ripped out. Contractors in & out for 2 weeks.
No Smoke, Garbage picked up twice.

City Public Works:
Brad Beverly - Public Works
(b) (6) [redacted] David Rat(illegible) - Public Works
Benjamin Crosby - City Compliance Ofc
Martha Allen -
Salem Statesman Journal
Quick interview 10:15

- Building Owner - Pioneer Trust Bank
Larry W. Snyder
109 Commercial St. NE
Salem, OR 97301
503-363-3136 #256
lsnyder@pioneertrustbank.com




Approach - scan those apts that have garage units near spell

Apt 603 - [redacted] (b) (6) [redacted] (b) (6) [redacted] -

- Does not need to get in garage
Not after 10:00 pm
- Verbal ok

Apt 605 - [redacted] (b) (6) [redacted]

0

[redacted] (b) (6) [redacted]

- Verbal ok
- No Car in garage

Apt 607 [redacted] (b) (6) [redacted] (b) (6) [redacted]

Truck ~~Car~~ in parking spot [redacted] (b) (6) [redacted]
→ Needs to use. Tell if pickup clip

Apt 615 [redacted] (b) (6) [redacted]

Verbal ok
- No Car in garage (wants to put car in)

0's in entryway floor, shoes breathing, sick stairwell

[redacted] (b) (6) [redacted]

Property Mgmt Rep ↙
Derrick Mosman
Shelter Magement
3625 River Road N, Ste 125
Kaiser, OR
503 585-6170

Started scanning apts w/ jerom
#615 first
→ ϕ's at entry rug, entry floor, shoes at front door, breathing space, 2nd Step on stairs

#609 (b) (6) [redacted]
(b) (6) [redacted]
– (b) (6) [redacted]
→ Call before we come

#605 – ϕs entryway, shoes, stairway Steps breathing zones

#603 –
.006 on 2nd Step
0.0 on entryway carpet, entryway floor, breathing air shoes.
.005 concrete in front 2-3' in front of 1st Step toward street

#630
.005 – 3' in front of threshold
.000 – entryway parkway
.000 – entryway carpet, breathing zone, shoes
0.000 on roof
→ Come back in afternoon

#613 (b) (6) [redacted]
not home, do not have code to her garage

SAT - 8-13-2016 Keizer Mercury

WEATHER: Pt. Sunny
Temp: 64°, High to 97°
Rain: 0%
Wind: 0 mph
Hum'd: 78%

0820 Arrive on site:
Eric Nuchins
Ryan Whitehurch } ENE
Erin Cafferty
Jeffrey Fonlon — EPA

Established Areas of Concern
1. Res. Apts
2. Walkways/exteriors
3. Vehicles
4. Adjacent garages
5. Subj. garage
6. Driveway/Spill area
7. Former Resident's property
8. Storm drain
9. Misc requests

0850 Bob Ransdell & Randy Legler, NRC, on site to negotiate w/ (b) (6) [redacted]
NRC wants guarantee from city or state for payment.
(b) (6) [redacted] on site.

SAT - 8-13-2016 Keizer

Spoke w START re: SOW
1. START to use Lumex to IA EQC in driveway. SET up HgVac and draw "Exclusion Zone". begin vacuum removal of beads.
2. Use Lumex to re-screen residential apartments.

0915 (b) (6) [redacted] asked whether she should arrange fencing. - rec. that she do so because it is unknown how long and what the SOW will ultimately be.

1000 KW screened (b) (6) [redacted] Toyota Tundra parked in the parking lot. Tires are reading 2-6 ng/m3. Truck ambient air in cabin ~2 ng/m3 (b) (6) [redacted] carpeting ~4 ng/m3. [redacted] was able to remove his vehicle from parking spot. The parking lot was cleaned behind his truck.
- NRC told me the city will not guarantee payment or

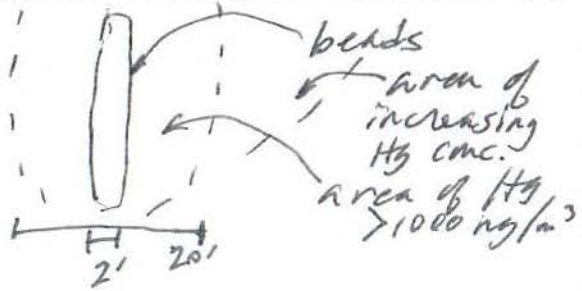
SAT - 8-13-2016 Keizer

enter contract w/ NRC. Therefore NRC will have to seek payment directly from the PRP. NRC has mobilized 4 skill people w/ Hg vac to attempt to remove visible beads. They are doing this trusting payment from PRP. They will not do any more work w/o a contract w the PRP.

Description of bead trail:

- In front of garage 611.
- 15' long x 2' wide
- Lumex >1000 ng/m³ ~ 8-10' from visible beads center line.
- Leads from garage door to vicinity of sewer drain in parking area.

| 609 | 611 | 613 | 615 |
|---|---|---|---|




SAT - 8-13-2016 Keizer

1130 (b) (6) [redacted], Unit 603. Car was screened. No values >100 ng/m³. START is screening her apt.

1200 Unit 611 vacant. All reading <100 ng/m³

1240 Garage 615 (b) (6) [redacted] Unit 593

(b) (6) [redacted]

1250 Unit 615 (no garage) said we can come screen her apt. any time today

- The garage at 615 was elevated. ~1400-2800 in BZ not on the floor. The resident was allowed to remove his car but (for now) he refused to allow us to screen his car or apt.
- Unit 613: knocked but no answer. J. Jaeger called & left VM.
- NRC personnel arrived and have begun setting up for Hg vacuuming.

SAT-8-13-2016 Keizer

1310 NRC completed Hg vac. Applied Merc Absorb powder and began re vacuuming the spill area.

1325 Completed vacuuming Merc Sorb. NRC began vacuuming Garage 611.

- Re-charging Lumex Battery.

1500 Called Left VM at phone here (b) (6) [redacted], former tenant of subject apt. Sent text msg.

1525 Unit 605 all below 200 ng/m³

1535 Unit 639 all below 100 ng/m³

1538 Unit 637 no answer.
Unit 635 ~~no answer~~ all below 100 ng/m³

1540 Unit 633 no answer.

1540 Unit 631 & 629 no answer.
Unit 627 all below 100 ng/m³

1545 Unit 625 no answer.
Unit 615 all below 100 ng/m³.

= Apartment synopsis:
8 apts below 100-200 ng/m³:
603, 605, 609, 611, 615, 627, 635, 639
7 apts knocked - no answer:
607, 613, 625, 629, 631, 633, 637 SF

SAT-8-13-2016 Keizer

Garage 609: Ambient air concentrations began at 1700, later reduced to 800 then 590. Bicycles tires were 1000-2000 range. Bicycles were brought out into the sun and allowed to ventilate. Door open until 1710.

Garage 611
Floor ~28,000 untreated, w/beads
Ambient air not measured
Treatment: vacuum after applying Merc Sorb powder, later sprayed Merc X solution, final wipe down.
Ambient in garage (1430 9,889 ng/m³
Ambient out of garage = 2,820 ng/m³

Garage 613
No treatment; no measurements.

Garage 615
Initial ambient: 2,321
floor: 1500 - 2500
Applied Merc absorb/swept; then applied merc x solution; and hand wiped. @ 1407 floor = 3000-4800 ng/m³. @ 1600. ambient 8,279; floor 7,000-22,000

[signature]

Sat-8-13-2016 Keizer
~1600 Spoke w/ (b) (6) [redacted]
former [redacted] garage
611: [redacted] admitted
that he (or a friend) dropped
a glass container of mercury
and broke it in the garage. He
said they attempted a cleanup
by sweeping/collecting the
material into paper. The rest
he swept to the parking lot.
He still has a very small
amount of mercury that he
says is associated with some
tool/equipment. The broken
container was 1.5" Δ x 3 or 4"
long. I asked him to keep
separate any clothing, tools,
cleaning equipment, etc. that
may have become contaminated
w/ Hg. We made an appt
to visit his home tomorrow
@ 1200.
1700 Rescreen garage 615. Concentrations were very high following treatment. All garages closed.
1730 All staff off site.

SUNDAY-8-14-2016 Keizer Hg
0930 Arrive on site
Weather: Sunny
Temp: 72°F; High 91°F
Rain: 0%
Wind: NNW 6 mph
Humid: 51%
Personnel:
JF, EN, EC, RW
SOW:
1. Survey parking lot
2. Survey garages
3. Survey former tenant's property
4. Sample storm drain

1015 Conducting survey of parking area & garages. Lower readings in the parking lot are greatly reduced since yesterday. Most high readings (>6000 ng/m3) are directly in front of garage 611. High concentrations appear to be the result of Hg beads that fell in the crack/joint between concrete floor of 611 and the asphalt parking lot. Small beads can be observed.
— Began surveying garages, one at a time.

Sunday, 8-14-2016 Keizer

1200 Gave interview to KATU news.

1220 Mobilized to (b) (6) [redacted] residence to conduct screening (JFO, EN, EC).

1350 (b) (6) [redacted] complete.

In general, ambient air readings were typically 500-800 ng/m³. One pair of shoes were >1000 ng/m³. Mrs. O. was advised to place them in the sun outdoors to drive off residual vapor. A total of three items had concentrations of Hg to levels of concern:

1. Dyson vacuum cleaner - 36,000 ng/m³
2. Waste basket in garage - 15,000 ng/m³
3. Washing machine - 15,000 ng/m³

The (b) (6) [redacted] gave EPA permission to remove the waste basket and the vacuum cleaner. They did not give permission to remove the washing machine.

- EPA took the waste basket & vacuum and departed.

Sunday, 8-14-2016 Keizer

1500 Late entry from this morning's garage assessment.

Unit 615 - All ambient and floor readings < 1000-1500 ng/m³. Work in 615 is considered complete.

Unit 609 - all ambient and floor readings < 1000 ng/m³ / 3800 Hor. Bicycle tires < 1500 ng/m³. Work in 609 is complete pending re-examination of the wall between 609-611.

Unit 613 - ambient air readings are < 1000 ng/m³ however, floor readings along the shared wall with 611 are ~ 15,000 ng/m³. START observed v. small beads along the shared wall (began using pipette and dust tape to remove). It appears that the attempt by the tenant of 611 to sweep the floor may have pushed the beads through the wall into 613.

- I spoke w/ Donna Geiger about removing the particle board

Sunday - 8-14-2016 Keizer
wall (possibly some studs & floor sill) to vacuum out hidden Hg beads.
1600 (Late entries) I used my OSC warrant authority to activate ERRS. At this point, the PRPs have not been able to reach agreement with their contractor (NRC) over the weekend and there is no guarantee that the agreement will be timely. If PRPs and NRC can reach a contract, NRC can direct invoice whichever PRP is paying and the ERRS sub-contract can be eliminated.
- Gave follow up interview to KATU TV news.
1700 Depart site.
Returned to site, gave
1800 interview to KGW 8 news.

Monday, 8-15-2016 Keizer
0830 Arrive on site
Weather: Sunny
Temp: 66°F / High 90°F
Rain: 0%
Wind: N 6 MPH
Humidity: 68%
Personnel
EPA — JF
START — EN, EC, KW
NRC — Perry + 3 laborers
LATE ENTRY FROM YESTERDAY:
START sampled sediment from the storm drain at the parking lot downhill from the spill. Beads of Hg migrated downhill to a catch basin. START collected a sediment sample and screened it w/ Lumex. Results: 47,000 ng/m³. START collected a sediment sample of the catch basin immed. down stream and the Lumex reading was 120 ng/m³.
1200 Late Entry: NRC & EQM were unable to reach contractual agreement. NRC has elected to continue to work at the

M-8-15-2016 Keizer

direction of SMI in hopes of getting a signed contract w/ SMI, the IRD bank, an insurance company. I told Randy Legler, NRC, that EPA was under no obligation to pay NRC and that EPA was not encouraging, approving, nor trying to coerce them into conducting the work. Mr. Legler said he understood and said NRC would lien the property if a contract w/ an entity able to pay was not forthcoming.

- I later called (b) (6) of SMI to relay this understanding and he said he understood and was working to get a contract w/ NRC.

Monday 8-15-2016 Keizer

11:00 Franklin arrives at site; briefed by OSC Fowlow. During day:

- NRC removed bottom 1 foot ~~of~~ of panel gauge wall btwn it & #613 (particle board) & vacuumed up mercury. Before this some areas were up to 100,000 ng/m³. Afterwards on ave 10,000 ng/m³ (Lowered)
- NRC removed mercury contaminated sediment & sludge in storm drain, readings were 47,000 ng/m³ before removal; after removal was 4-5K ng/m³. Keizer Public works arrived, agreed for us to take opportunity to get more by using a torch, brushing & vacuuming & ventilating. Mercury had not moved to second drain in middle of drive.
- Mercury readings high at threshold btwn garage/door & interior high, but even after vacuuming & scraping, still high at ~80,000 ng/m³

Monday 8-15-16 Keizer

1625 Depart for the [redacted] (b) (6) to get washer info and scan pickup w/Lumex. Sunny, Hot ~90°F

1635 Arrive [redacted] (b) (6) - [redacted] (b) (6). Meet [redacted] (b) (6) & [redacted] (b) (6). Scan pickup (older Toyota) w/Lumex. Pickup was closed up & sitting in sun. Upon opening up, initial readings on Lumex were 70K-80K ng/m³. Floor mats high - removed these and bagged up, rescanned w/Lumex: Front floors & seats 1,000-3,000 ng/m³

> Back right floor & seat up to 76K ng/m³. Observed mercury beads all over back of floor.

Described to [redacted] (b) (6) need for no child to be in pickup, no cargo or anything else transported or placed in back seat or floor. Need to remove carpet & back seat. He'll drive the pickup by the site ~11:00 for us to cut carpet & seat out. He agreed for us to do that. Encouraged him not to drive the pickup at all until remediated, but he has to use it for a job. Will drive ventilated w/windows open

Monday 8-15-16 Keizer

Next, went into washer/dryer room & obtained model & make of washer. Was already in home when [redacted] (b) (6) moved there (recently). Discussed need for them not to use it until we could get it replaced - and that we were working to do so with a make/model similar to the one they're currently using. Also - that we would have to take the washer & we'll give them a receipt. The washer is too high (15K ng/m³) for use & presents a health threat to them by continued use.

- We also discussed potential billing - [redacted] (b) (6) asked if he could be billed for our actions, including purchase of a washer, and I told him yes.
- START captured more detail on readings in pickup

15 1715 Depart site for Best Western for mtg w/START's

1730 At Best Western. Meet START.

1840 Depart for Vancouver

2000 Arrive Vancouver 131 mi rt

Tues. 8/16/16 Keizer

0710 Depart Vancouver

0840 Arrive site (63.3 mi)

Work for today: (See also next page)

- Ventilate storm drain w/fan.
- picking up more newly discovered microbeads of mercury in parking lot in front of garage #611.
- CIC work - knock on doors, visit w/residents, landlords, address concerns - Judy Smith - arrived mid morning, work throughout day.
- Had Judy notify Marion County Health, who came out to site for briefing, offered assistance - Richard Sherman, Greg DeBlase. They agreed we were doing good work.
- Monitoring more gets. Esp. Concerned couple at 629/630. Levels 300-400. Judy visited w/them.

1220 Randy Legler (NRC) - cannot handle washer or pickup. They work for SMI who will not pay for washer or pickup. NRC could be activated under a BOA to do the work. (b) (6) - rlegler@nrcc.com

1240 Call to Derek w/SMI. Left message to call me back.

1250 Call to Sibley to look into activating a USCG BOA. He's going to contact Barbara Lee

Tues. 8/16/16 Keizer

in R9 to see if she can help.

1340 - Prep for cutting concrete at garage threshold entrance. START w/monitor for particulates

- Visit w/START - they can do limited removal & can handle carpet/seat removal of RV's pickup, as well as washer handling & disposal @ HHW.

1400 - (b) (6) called (SMI). SMI refused to pay for handling of washer or pickup. Says their insurance will not pay for this.

1405 - (b) (6) comes by site. I briefed her on ongoing activities

1342 - SOSC Brown reports that the dumpsters at site can be disposed of by the state HHW contractor - Clean Harbors.

During afternoon, contractors cut concrete in front of 611 garage & began removal. ~~START set up~~ We will use START to conduct removal of pickup & washer - START mgmt notified by site crew.

1600 Concerned citizen Lizzie stopped by CP with worry about ambient air in her garage & bicycles. START conducted air monitoring w/mixed results - some high ~~for~~ >1000 ng/m³ for bicycle tires & baby clothes. Will air these items out tomorrow, and gauge

Tues 8/16/16 Keizer

1820 Demob site for night

1825 - 1945 Dinner

1945 - Depart for Vancouver

2100 - Arrive res Vancouver (130.0 mi)

Wed 8/17/16 Keizer

0700 Depart for Keizer

0845 Arrive / Keizer

NRC just arrived before me - no equip deployed. Mtg being held w/ NRC NWFF & START (Safety, work objectives)

- Concerns - work yet to complete
  - ✓ - air out garage #609. Resident came by yesterday & we had START conduct air monitoring in garage and several bins of clothes, bicycles. Several items >100 ng/m³, including baby clothes. Will air out garage and clothes bins and re check
  - ✓ - Continue to remove asphalt & mercury beads at garage #611 threshold
  - ✓ - Remove lower 1' panel inside wall in garage #613 and vac mercury beads from under bottom wood plate/sill, floor
  - ✓ - Continue remediation & assessment of asphalt driveway in front of garages
  - Sort thru, assess garbage & garbage bin for mercury. High levels found yesterday > 15,000 ng/m³

1630 ✓ - (b) (6) [redacted] removal - ~~washer~~, pickup floor & seat

Wed 8/17/16 Keizer

- NRC put down mercsorb over trench material at excavation site. Will leave overnight, vapors dropped from ~102,000 µg/m³ to 5,000 µg/m³.
- (b) (6) (resident) concerned about caution type due to family tragedy - cited PTSD, so we took down tape & replaced w/ cones/candlesticks & rope.

1630 Arrive (b) (6). Assess pickup backseat & floor. V. high readings ~80,000 µg/m³ (see START logbook). Removed carpet & portions of back seats, applied powdered Sulphur, re-vac'd, assessed. Some items also tested >6,000 µg/m³ in back of pickup & those items were removed & bagged - as was contaminated cut out carpet & seats.

2115 Demob (b) (6) & Keizer.

2230 Arrive residence Vancouver (179 mi)

Thurs 8/18/16 Keizer

0750 Depart res (Vancouver) for site

0930 Arrive Site

~~NRC cutting more asphalt out, as sulphur treatment~~

- (b) (6) upset and panicked about mercury vapors in her garage #609 & clothes in bins, START opened garage, pulled out bins into sun most of day. A re-assessment of clothes in bins showed levels <100 µg/m³. Ambient air inside ~22 µg/m³; bicycle tires ave 200 µg/m³.

I Spoke w/ (b) (6) in afternoon w/ Rachel as Witness to explain. (b) (6) greatly relieved. Told her all was well below the 1000 µg/m³ ATSDR & EPA health risk standard. Explained Hg vapors levels movement.

- French in front of garage #611 dropped in levels but asphalt below (S of) still elevated. Picking up more beads of Hg throughout afternoon, decided to stop as it was becoming inefficient - decided w/ NRC to cut out more asphalt on Friday 8/19/16, at 0830.
- Trade out in AM of Harvey (NRC), the RM, to Dale. I pulled them aside after calls from SMI identifying reported inefficiencies w/ NRC & their sub-NWFF, and lack of defined Start times in morning

Thurs. 8/18/16 Keizer

- Discussed the need for defining work tasks, priorities, start & end work times w/ Dale & Harvey, and START (Lyman)
- Pulled trash out of trash bin/dumpster bag by bag to assess whether high readings of Hg from trash or bin. 2 bags hot >15000 ng/m³ & pulled out for disposal. Bin treated w/sulfur, aired out, vac'd out.

~~1930~~ Demob site
1800
1900 Arrive res (Vancouver)

Friday 8/19/16 Keizer

0845 Depart res (Vancouver)
0950 Arrive site. Opened #609 to air out ~~Concrete~~ Asphalt apron/parking area in front of Garage #611 cut, being broken up, unpacked. START cleaning out Mac Van
- Geoff Brown, SOSC, working with NRC ~~to~~ & ODEQ HQ to see if they can mobilize NRC (while they're [redacted]) to handle disposal of the [redacted] pickup waste and washer.
- NRC & EPA agreed, after further monitoring and cleaning showed 3 small areas were still > 19000 ng/m³ ~~to~~ within lower excavation and on lower rim (south ends), to retreat w/Sulfur & leave the site for the weekend, to return Monday and reschedule NRC will respire and seal ~~Mon~~ Tues or Wed if Monday's numbers are good. START & Fowler will come out w/Fumex. START time is 0830 for Monday

START/NRC clean area twice more during day.

- START Bought new washer for [redacted] @ $399 (Samsung) & arranged delivery & set up for 8/24/16. Notified [redacted]
- Spoke w/ [redacted], she asked that when we return on Monday, that we open her garage & re-air it out.

Friday 8/19/16 Keizer

- Called & updated Fowlow, who will return Monday for site check w/ STAGER and NRC

1830 Demob site

2000 Arrive res - Vancouver (130 miles)

Mon - 8-22-2016 Keizer

0820 Arrive on site

Weather: Sunny

Temp: 55°F High: 81°F

Rain: 0%

Humid: 76%

Wind: N 4° mph

Personnel: EPA - Fowlow

ENE - Rachel Locke

NRC - Dale Coppage +2

SOW:

1. Survey XC for hot spots.
2. Continue removal, if req.
3. Visit (b) (6) [redacted]
4. Demob

0835 ENE begin survey of XC to determine effectiveness of sulphur application & ventilation. Results: ENE took ~30 Lumex measurements inside & outside the XC. All readings were in the 9 ng/m3 - 216 ng/m3 range. No hot spots detected.

- NRC begins removing loose sulphur from the asphalt.

1020 left a note @ Apt (b) (6) [redacted] letting the tenant know we were demobilized

M-8-22-2016 Keizer
1040 Called (b) (6) [redacted] &
(b) (6) [redacted], left VM.
Let them know status & that
EPA was demobilizing.
- Called Geoff Brown, DEQ
to let him know same as
above.
- Called (b) (6) [redacted] to
give her an update re:
removal of her washer,
expect word regarding
final disposition by end of
this week. Also suggested
she call Marion Co. Public
Health to have husbands
blood tested. Texted to
her MCPA contact number.
She stated she preferred to
call them rather than vice
versa.
1130 Depart site.

W-8-31-2016 Keizer
Geoff Brown called today to say
DEQ would take responsibility
for disposal of the washing
machine @ the (b) (6) [redacted]
residence. I provided the
contact info to Mr. Brown.
Reminded Mrs. Stadick (Pioneer
Trust Bank) that they were
still responsible to dispose of
mercury and mercury-contam.
debris stored in garage 611.
I recommended that they not
leave portion on disposal
efforts. Comms via email.