



April 20, 2015

Mr. Kevin Eichinger
On-Scene Coordinator (OSC)
U.S. Environmental Protection Agency (EPA), Region 4
61 Forsyth Street, SW, 11th Floor
Atlanta, Georgia 30303

**Subject: Emergency Response Letter Report
 Sycamore Point Mercury
 Woodstock, Cherokee County, Georgia
 Contract Number (No.) EP-S4-14-03
 TDD No. TT-01-017**

Dear Mr. Eichinger:

The Tetra Tech, Inc. Superfund Technical Assessment and Response Team (Tetra Tech START) is submitting this emergency response (ER) letter report summarizing activities conducted from February 18, 2015 through March 20, 2015 at the Sycamore Point Mercury response in Cherokee County, Georgia. This report includes five enclosures. Enclosure 1 contains three figures illustrating the site locations, the site layout, and screening locations at 624 Apache Trail. Enclosure 2 contains the photographic log. Enclosure 3 contains tables that summarize the personal items disposed from each property. Enclosure 4 contains tables that summarize the clearance test results for each property, as well as the screening results for Ace Academy. Enclosure 5 contains the logbook notes.

SITE BACKGROUND

Sometime in early February 2015, three adolescents (a female adolescent and male adolescent #1 and #2) reportedly discovered multiple containers of free elemental mercury in the basement of a residence owned by the grandparents of male adolescent #1; the residence was located at 624 Apache Trail in Woodstock, Georgia. According to available information, the adolescents played with the mercury and caused a release of the mercury inside the house and outside, throughout the property. The adolescents later went to school, where a teacher observed mercury in the hair of the female adolescent, and reported the incident to school officials. Several days after being notified by the school, the girl's parents took her to the emergency room, where her blood was drawn for testing of mercury concentrations. Results reportedly indicated the presence of mercury at concentrations exceeding health-based concentrations. Subsequently, doctors notified the Georgia Environmental Protection Division (GA EPD) and an incident report was filed with the National Response Center.

The U.S. Environmental Protection Agency (EPA) mobilized On-Scene Coordinator (OSC) Stephen Ball to the incident on February 18, 2015. Available information indicated that the mercury was contained in two separate containers approximately 64 ounces each in size and were stored in the house on Apache Trail. The actual amount of mercury in the containers prior to the spill is unknown.

EMERGENCY RESPONSE ACTIVITIES

On February 18, 2015, OSC Ball mobilized to the incident along with Tetra Tech START to begin assessing the situation and obtaining access agreements for various properties that may have been impacted. The list below summarizes the properties involved (see Figure 1 in Enclosure 1):

- 2008 Longwood Drive, Woodstock, Georgia (grandmother of the female adolescent)
- 525 Sycamore Point, Woodstock, Georgia (residence of the female adolescent)
- 624 Apache Trail, Woodstock, Georgia (source house)
- 611 Apache Trail, Woodstock, Georgia (residence of male adolescent #2)
- 510 Cove Road, Canton, Georgia (residence of male adolescent #1; grandson of the source house owners)
- 8871 Knox Bridge Highway, Canton, Georgia (Ace Academy, school attended by the female adolescent and male adolescent #2)

OSC Ball experienced difficulties in obtaining access to potentially impacted properties from the beginning of the project. As a result, OSC Ball sought the support and assistance of various agencies and organizations to successfully gain access to each property, including GA EPD, the Georgia Department of Public Health, and the Cherokee County School District. The following subsections provide a summary of emergency response and removal activities conducted at each of these locations.

2008 Longwood Drive

On February 18, 2015, OSC Ball and Tetra Tech START met with the property owner at 2008 Longwood Drive, who is also the grandmother of the female adolescent involved in the spill of mercury at the source house (624 Apache Trail). Tetra Tech START screened the residence using a Lumex 915+ RA Mercury Vapor Analyzer (Lumex), which indicated no mercury vapor concentrations above EPA action levels.

525 Sycamore Point

On February 18, 2015, OSC Ball and Tetra Tech START met with the residents at 525 Sycamore Point, including the female adolescent involved in the original spill of mercury at the source house. Screening of the residence using a Lumex indicated mercury vapor concentrations that ranged from 10,000 to 15,000 nanograms per cubic meter (ng/m^3) throughout most of the house and concentrations greater than 50,000 ng/m^3 identified in the female adolescent's bedroom, as well as in the washing machine located upstairs. In addition, the clothes of the male adolescent #2, who was present at 525 Sycamore Point during the screening, indicated concentrations greater than 50,000 ng/m^3 .

Based on the screening results and discussions with the property owner and residents of the house, OSC Ball initiated a removal action at 525 Sycamore Point on Friday, February 20, 2015. Cleanup activities at this residence from February 20 through February 21 included:

- Removal of personal items and furniture from the female adolescent's bedroom; personal items were heated and vented in a tent constructed outside the house in an attempt to reduce mercury vapor concentrations. Wherever possible, items were returned to the owner when concentrations were reduced below EPA action levels.
- Removal of carpet from the female adolescent's bedroom and bathroom, as well as the adjacent upstairs hallway.

- Removal of the washing machine from the upstairs laundry room; in addition, the floor of the laundry room was scrubbed with Hg CS-102[®] solution and subsequently dried.
- Heating and venting of the female adolescent's bedroom in an attempt to reduce mercury vapor concentrations.

Clearance testing for the residence was conducted on Sunday, February 21, 2015. Based on Lumex screening conducted hourly from 1200 hours through 1600 hours, the residence was cleared for re-occupation. Personal items that could not be successfully heated and vented were inventoried and disposed in a roll-off container for offsite transportation and disposal, while those items that could be successfully treated were returned to the owners. Enclosure 3 provides a summary of the personal items disposed from this property. Enclosure 4 provides a table summarizing the results of clearance testing.

624 Apache Trail (Source House)

On February 22, 2015, OSC Ball and Tetra Tech START met with the property owners and residents at 624 Apache Trail. During the meeting, visible beads of elemental mercury were observed along the roadside of Apache Trail in front of the house, as well as on the driveway leading up to house and in the soil in the front yard. Screening of the residence using a Jerome[®] 431 Mercury Vapor Analyzer (Jerome) indicated mercury vapor concentrations that exceeded the instrument's high limit of 0.999 milligrams per cubic meter (mg/m³) at the front entrance to the kitchen on the upper level.

Based on the screening results and discussions with the property owner, OSC Ball initiated a removal action at 624 Apache Trail on the evening of Sunday, February 22, 2015, and mobilized Emergency and Rapid Response Services (ERRS) personnel to the residence to begin recovering visible beads of elemental mercury from areas along Apache Trail and outside the house. Cleanup activities were performed at this property from February 22 through March 20, and included:

Paved Surfaces:

- Testing of an innovative technology for the removal of mercury beads from paved surfaces using DeconGel[®], which was applied to sections of the Apache Trail road surface and the driveway leading to the house; attempts made using DeconGel[®] during removal activities at this property were not successful.
- Use of mercury vacuums and wet/dry shop vacuums in combination with HgX[®] Mercury Decontaminant Powder (HgX) to clean up exterior paved surfaces impacted with mercury, including portions of the Apache Trail road surface and the driveway leading to the house.
- Use of zinc amalgamation powder and vacuums on portions of the Apache Trail road surface to assist in the removal of mercury beads.
- Application of Kilz[®] paint to portions of the driveway adjacent to the house to act as an encapsulant and provide a temporary work surface for the staging and screening of items removed from the house.
- Removal of approximately 2,000 square feet of concrete from portions of the driveway adjacent to the house, where visible beads of elemental mercury were observed. New concrete was poured in this area upon completion of other removal activities, including transportation and disposal.

Residential Cleanup Activities:

- Removal of personal items and furniture from the entire house; personal items were heated and vented in tents constructed outside the house in an attempt to reduce mercury vapor concentrations. Whenever possible, items were returned to the owner when concentrations were reduced below EPA action levels.
- Removal of floor and ceiling tiles from the bottom level of the house, as well as the application of a floor-leveling compound and epoxy paint on the remaining floors and walls in an attempt to seal them and prevent further release of mercury vapor concentrations. In addition, small sections of stud-framed walls were removed from the western side of the bottom level of the house to facilitate the removal of large accumulations of elemental mercury discovered there.
- Numerous cycles of washing and vacuuming the floors with HgX solution, followed by the application and removal of Hg CS-102 solution. In addition, sulfur powder was spread over impacted areas and subsequently removed using a mercury vacuum.
- Use of negative air machines on the bottom level to remove air from the residence and reduce mercury vapor concentrations. In addition, torpedo heaters and commercial fans were used to heat and vent the house in combination with the negative air machines to reduce mercury vapor concentrations.
- Removal of the washing machine and dryer from the upstairs laundry room.
- Treatment of the exterior deck area with mercury decontamination solution, as well as the removal of stair treads and risers where visible beads of elemental mercury were observed.
- Installation of a commercial exhaust fan in a window on the bottom level of the residence for permanent future use to assist in clearing mercury vapors from the residence.
- Restoration of exterior areas where removal activities were performed, including the placement of stone and/or backfill in areas where minor excavation was performed, such as adjacent to the house and beneath the deck.

Soil Cleanup Activities:

- Excavation and disposal of soil from areas around the residence and along the driveway and Apache Trail road surface, where visible beads of elemental mercury were observed. Methods of removal included the use of shovels, syringes, and eye droppers, as well as the use of a trackhoe to scrape impacted areas.
- Lumex screening of headspace in composite soil samples collected from areas of the property to measure mercury vapor concentrations; areas indicating concentrations exceeding 6,000 ng/m³ were targeted for additional excavation or removal activities. The table below briefly summarizes the screening results (see also Figure 3 in Enclosure 1):

Screening Area	Pre-Excavation Screening Result (ng/m ³)	Post-Excavation Screening Result (ng/m ³)
S-01	1,690	No excavation necessary
S-02	800	No excavation necessary
S-03	1,250	No excavation necessary
S-04	3,600	No excavation necessary
S-05	Beads observed	3,500
S-06	3,700	No excavation necessary
S-07	Beads observed	4,000

Screening Area	Pre-Excavation Screening Result (ng/m³)	Post-Excavation Screening Result (ng/m³)
S-08	Beads observed	5,000
S-09	3,200	No excavation necessary
S-10	4,000	No excavation necessary
S-11	8,000	2,200
S-12	4,800	No excavation necessary
S-13	3,600	No excavation necessary
S-14	5,000	No excavation necessary
S-15	4,000	No excavation necessary
S-16	1,900	No excavation necessary
S-17	8,000	1,400
S-18	1,350	No excavation necessary
S-19	Beads observed	1,900
S-20	Beads observed	5,000
S-21	800	No excavation necessary
S-22	1,000	No excavation necessary

- Discovery and removal of three mason jars containing a total of approximately 48 ounces of elemental mercury from a buried location in the backyard of the property; the location was eventually revealed to EPA by the male adolescent #2 involved in the original spill. In addition, minor amounts of soil were removed from this location to address small quantities of mercury beads observed there.

During the removal action, a total of approximately 75 fluid ounces of elemental mercury were recovered through cleanup efforts, including the three mason jars (approximately 48 fluid ounces total) recovered from the area in backyard of the property. While this amount does not equate to the 128 ounces reported by the property owner, it also does not account for the visible quantities of elemental mercury that were removed during soil cleanup and other site activities, where it was not feasible to recover the individual beads of elemental mercury.

Clearance testing for the residence was conducted on Sunday, March 15, 2015. Based on Lumex screening conducted hourly from 0930 hours through 1330 hours, the residence was cleared for re-occupation. Personal items that could not be successfully heated and vented were inventoried and disposed in a roll-off container for offsite transportation and disposal, while those items that could be successfully treated were returned to the owners. Enclosure 3 provides a summary of the personal items disposed from this property. Enclosure 4 provides a table summarizing the results of clearance testing.

611 Apache Trail

On February 24, 2015, OSC Ball and Tetra Tech START met with the property owner at 611 Apache Trail, where male adolescent #2 resides. Prior to arrival, the property owner indicated that he had already performed some cleanup efforts on his own, including the removal of furniture and carpeting from affected areas, as well as the washing machine and various clothing previously used by male adolescent #2. The property owner staged the removed carpet in a small trailer outside the house and other personal items were staged on the back deck of the house.

Screening of the residence, using a Lumex, indicated mercury vapor concentrations that averaged approximately 1,000 ng/m³ throughout most of the house; the male adolescent #2's bedroom, where carpet had not yet been removed, indicated concentrations of approximately 2,000 ng/m³. Screening of the carpeting staged outside in a trailer, as well as the other personal items and washing machine staged on the back deck indicated much higher concentrations, most of which exceeded 50,000 ng/m³. Based on the screening results, OSC Ball recommended that the property owner remove the remaining carpet from the male adolescent #2's bedroom, and continue to heat and vent the house for another week. OSC Ball also recommended that the property owner properly dispose of all the removed carpet and contaminated personal items. The property owner agreed to the recommendations.

510 Cove Road

On February 25, 2015, OSC Ball and Tetra Tech START met with the residents at 510 Cove Road, including male adolescent #1. Screening of the residence using a Lumex indicated mercury vapor concentrations that ranged from 20,000 to 40,000 ng/m³, with the highest readings obtained in male adolescent #1's bedroom.

Based on the screening results and discussions with the residents of the house, OSC Ball initiated a removal action at 510 Cove Road on Monday, March 2, 2015. Cleanup activities were performed at this residence from March 2 through March 4, and included:

- Removal of personal items and furniture from male adolescent #1's bedroom; personal items were heated and vented in a tent constructed outside the house in an attempt to reduce mercury vapor concentrations. Whenever possible, items were returned to the owner when concentrations were reduced below EPA action levels.
- Removal of carpet from male adolescent #1's bedroom, as well as the adjacent hallway and stairs.
- Removal of carpet, as well as some furniture and personal items, from the basement apartment.

Clearance testing for the residence was conducted on Wednesday, March 4, 2015. Based on Lumex screening conducted hourly from 1500 hours through 1900 hours, the residence was cleared for re-occupation. Personal items that could not be successfully heated and vented were inventoried and disposed in a roll-off container for offsite transportation and disposal, while those items that could be successfully treated were returned to the owners. Enclosure 3 provides a summary of the personal items disposed from this property. Enclosure 4 provides a table summarizing the results of clearance testing.

8871 Knox Bridge Highway (Ace Academy)

On February 20, 2015, OSC Ball and Tetra Tech START met with representatives from the GA EPD, the Georgia Department of Public Health, and the Cherokee County School District Supervisor of Maintenance at Ace Academy, where the female adolescent and male adolescent #2 attended school. OSC Ball was provided with a list of the classrooms, and Lumex screening for mercury vapor concentrations was conducted in each of them, along with the cafeteria, principal's office, bathrooms, and janitorial closets, as well as the lockers used by the female adolescent and male adolescent #2. Screening results, which are summarized in Enclosure 4, indicated no mercury vapor concentrations above EPA action levels.

COMMUNITY INVOLVEMENT ACTIVITIES

Due to the large quantity of elemental mercury observed at the source house property (624 Apache Trail) and the potential for impacts at nearby properties, OSC Ball consistently worked with local residents to address their concerns and to assist with response and removal activities. The following list briefly summarizes these activities:

- OSC Ball mobilized two of EPA's Community Involvement Coordinators (CIC) to assist with community outreach to concerned residents along Apache Trail. Beginning February 23, the EPA CICs and Tetra Tech START offered Lumex screening to nearby residents. Screening results, which are briefly summarized in the table below, indicated no mercury vapor concentrations above EPA action levels.

Address	Maximum Mercury Concentration Observed (ng/m ³)
613 Apache Trail	37
615 Apache Trail	44
616 Apache Trail	48
617 Apache Trail	28
618 Apache Trail	54
619 Apache Trail	21
621 Apache Trail	Declined monitoring
622 Apache Trail	149
623 Apache Trail	46
625 Apache Trail	Declined monitoring
626 Apache Trail	105
627 Apache Trail	Declined monitoring
628 Apache Trail	Declined monitoring
629 Apache Trail	Declined monitoring

- Coordinating with local residents to determine potential methods to gain access to other properties that may have been impacted as a result of the spill.
- EPA and Tetra Tech START investigated several reports from local residents regarding other potential areas where mercury may have been located, including a nearby boat dock.
 - Boat dock near the end of Apache Trail; no indications of mercury were identified.
 - School bus stop near the end of Apache Trail; no indications of mercury were identified.
 - Area in the backyard of 624 Apache Trail, where male adolescent #2 had buried three mason jars containing elemental mercury; the jars were recovered and contaminated soil was excavated.
- OSC Ball and EPA CICs worked to prepare and distribute a fact sheet summarizing response activities and plans for completion to keep local residents informed.
- Use of the EPA website (http://www.epaosoc.org/site/site_profile.aspx?site_id=9769) to provide updated information and photographs, regarding site activities for the public.

WASTE DISPOSAL SUMMARY

The following table summarizes the wastes that were shipped offsite for transportation and disposal:

Waste Stream	Estimated Quantity	Disposal Method
Non-Hazardous Solid Waste (personal items and debris)	320 cubic yards ^a	Landfill (Subtitle D)
Non-Hazardous Soil (contaminated soil)	90 cubic yards	Landfill (Subtitle D)
RCRA Hazardous Waste (mercury-contaminated)	6 cubic yards	Landfill (Subtitle C)
Elemental Mercury	75 fluid ounces	Reclamation
Household Hazardous Waste	275 gallons	Landfill/Incineration

Notes: ^a Includes approximately 30 cubic yards of personal items removed from 525 Sycamore Point and 510 Cove Road
RCRA – Resource Conservation and Recovery Act

Restoration

Following removal activities at each residence, EPA met with the appropriate homeowner to discuss and complete restoration activities to ensure the residence was restored to living condition.

If you have any questions or need additional copies of this ER letter report, please contact me at 678-775-3098 or Brian Croft at 678-775-3113.

Sincerely,



Bryan Vasser
Tetra Tech START IV Site Manager



Andrew F. Johnson
Tetra Tech START IV Program Manager

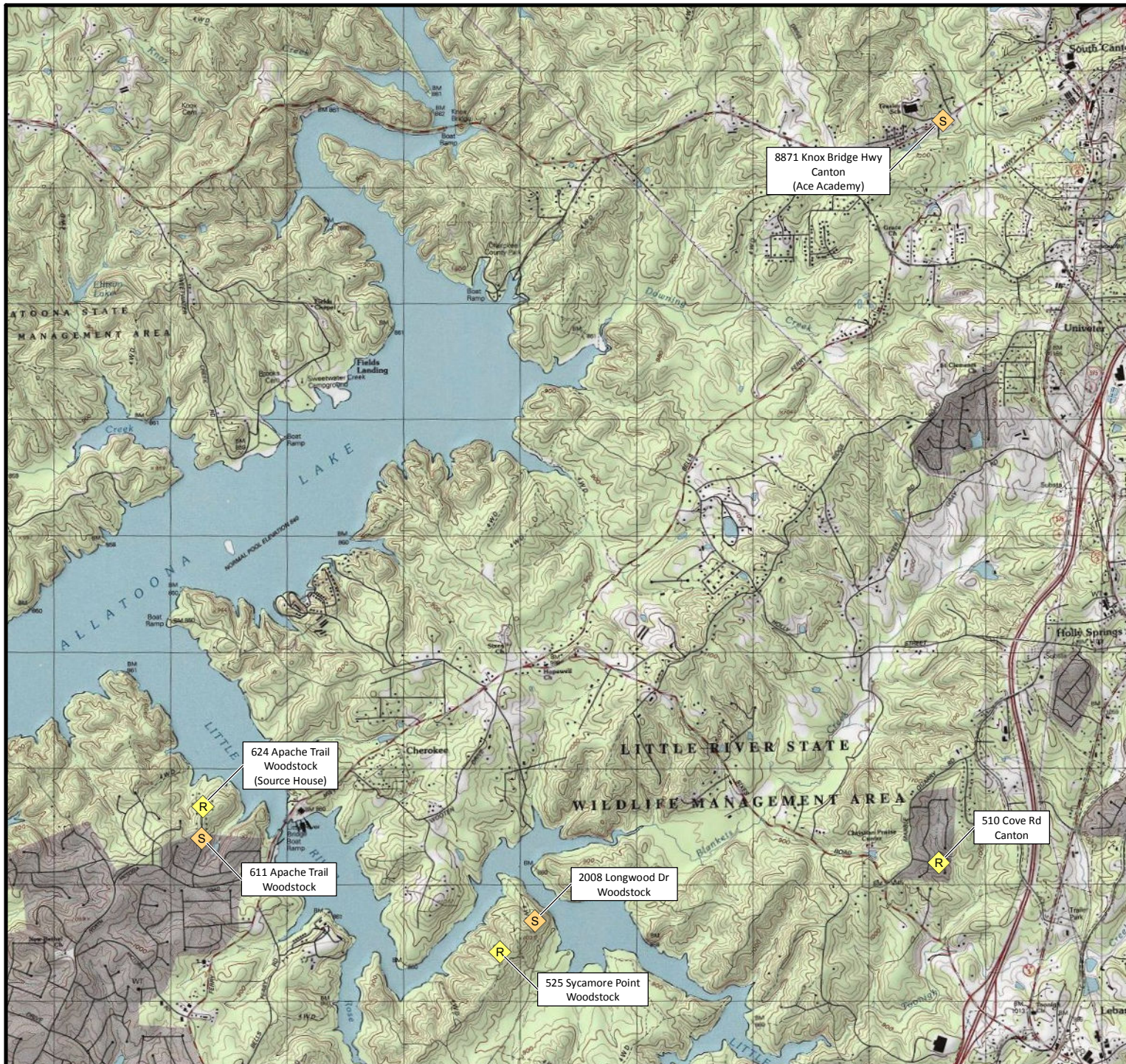
Enclosures (5)

cc: Katrina Jones, EPA Project Officer
Angel Reed, Tetra Tech START IV Document Control Coordinator

ENCLOSURE 1

FIGURES

(Three Pages)



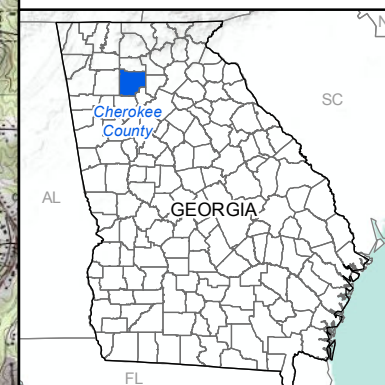
Legend

- ◆ R Properties Where EPA Conducted Removal Activities
- ◆ S Properties Where EPA Conducted Screening Only



0 2,000 4,000
Feet

Map Source:
USGS 7.5 Minute Topographic Quadrangle Map:
South Canton, GA 1997.



United States
Environmental Protection Agency
Region 4

FIGURE 1 Site Location

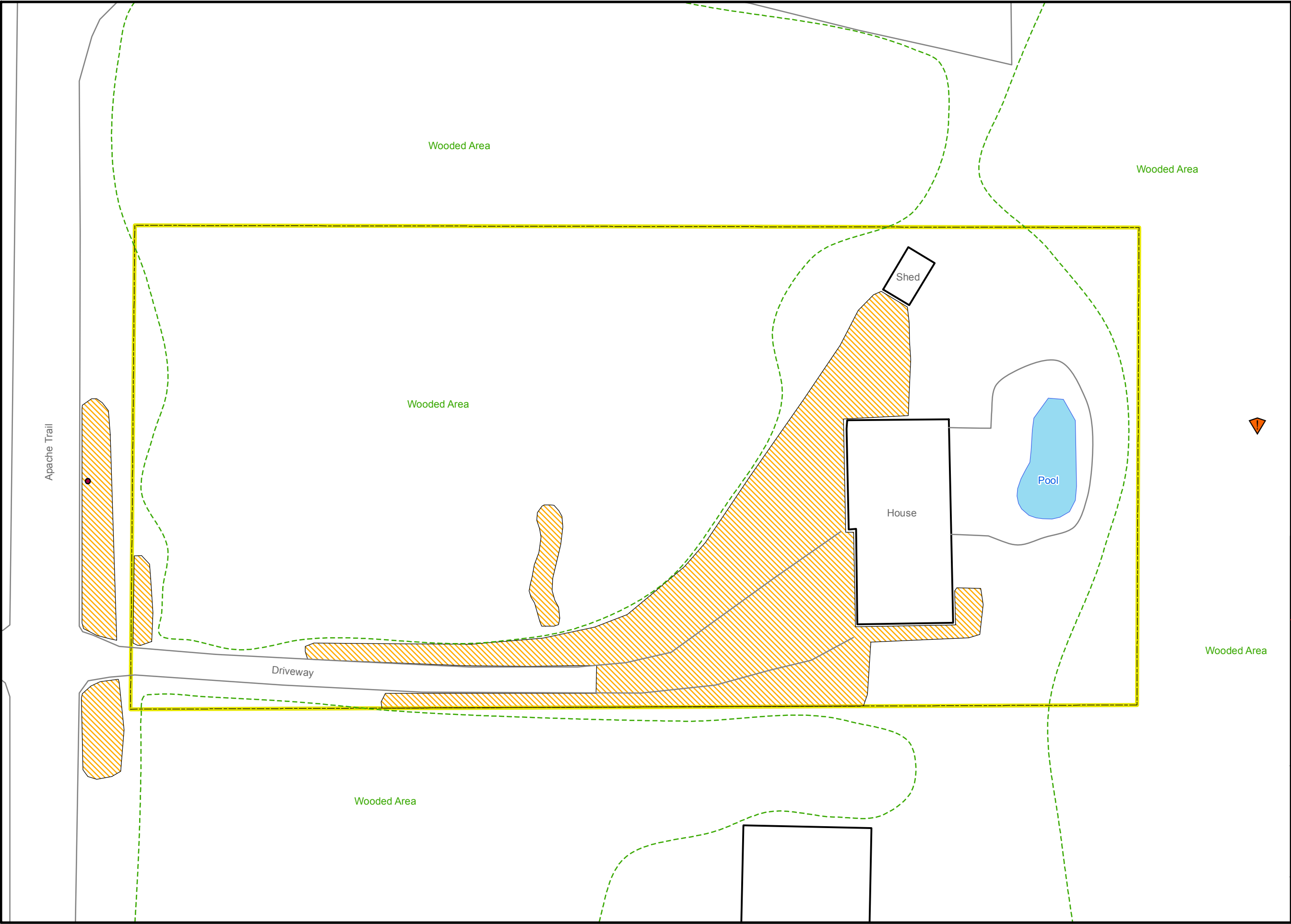
TDD Name: Sycamore Point Mercury

TDD No.: TT-01-017

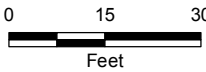
City: Woodstock **County:** Cherokee **State:** Georgia



Date:
3/29/2015
Analyst:
Dale Von Busch



- Legend**
- Approximate Location of Buried Jars of Mercury
 - Approximate Areas of Excavation
 - Property Boundary



Map Sources:
Parcel boundary, Cherokee County, GA
ESRI Aerial Imagery, 2011-2012.



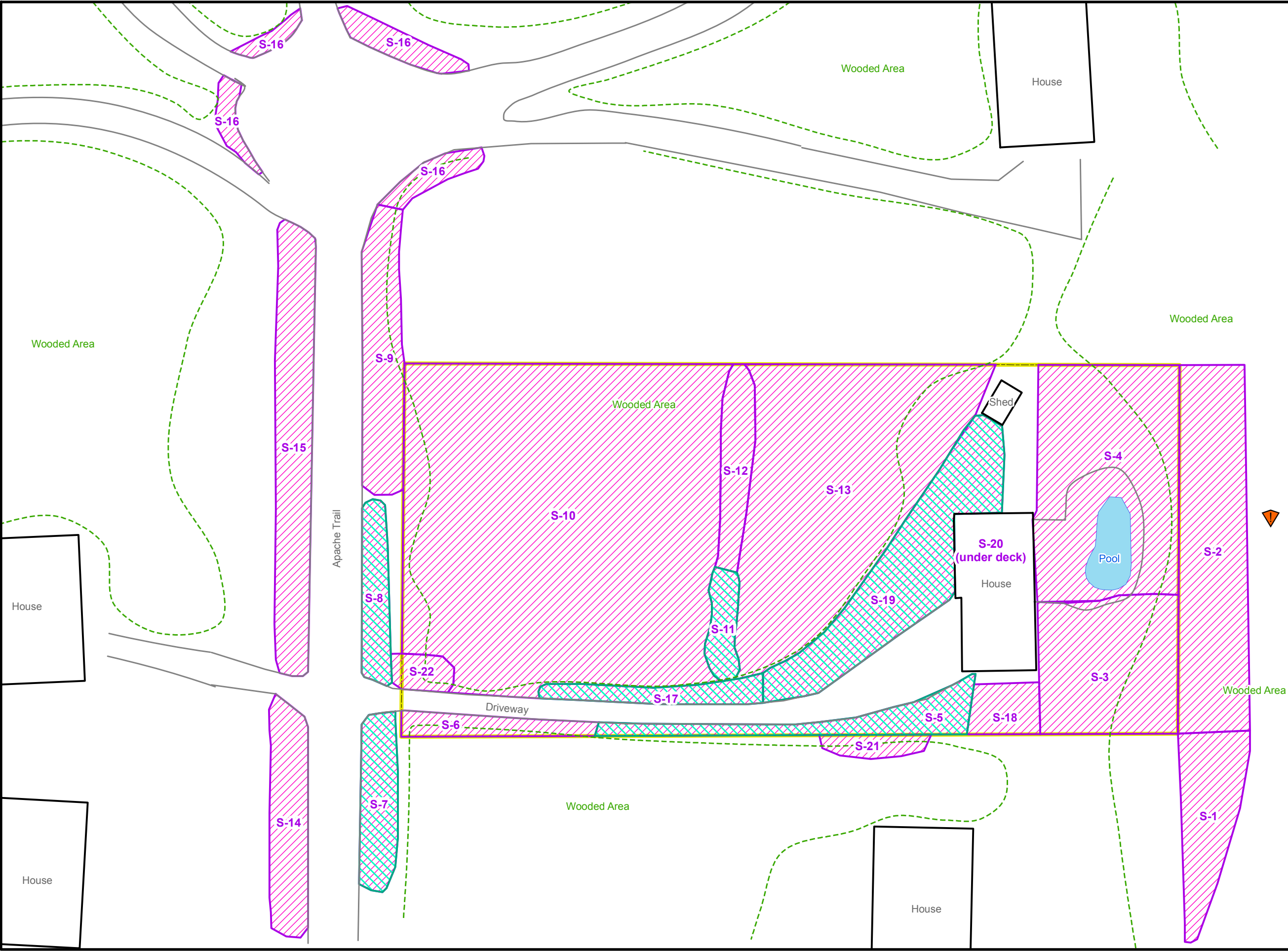
United States
Environmental Protection Agency
Region 4

FIGURE 2
Site Layout
(624 Apache Trail)

TDD Name: Sycamore Point Mercury
TDD No.: TT-01-017

City: Woodstock **County:** Cherokee **State:** Georgia

Date: 3/31/2015
Analyst: dale.vonbusch



- Legend**
- Approximate Location of Buried Jars of Mercury
 - Screening Areas
 - Post Excavation Screening Areas
 - Property Boundary

S- ## Composite Soil Sample Location



0 20 40
Feet

Map Sources:
Parcel boundary, Cherokee County, GA
ESRI Aerial Imagery, 2011-2012.



United States
Environmental Protection Agency
Region 4

FIGURE 3

Soil Screening Locations

TDD Name: Sycamore Point Mercury
TDD No.: TT-01-017
City: Woodstock **County:** Cherokee **State:** Georgia

TETRA TECH
Date: 4/20/2015
Analyst: helen.mayoral

ENCLOSURE 2
PHOTOGRAPHIC LOG
(29 Pages)



OFFICIAL PHOTOGRAPH NO. 1
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TT-01-017	Location:	525 Sycamore Point, Woodstock, GA
Orientation:	North	Date:	February 24, 2015
Photographer:	Tetra Tech, Inc.	Witness:	Tetra Tech, Inc.
Subject:	Upstairs hallway leading to source bedroom, post-carpet removal.		



OFFICIAL PHOTOGRAPH NO. 2
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 525 Sycamore Point, Woodstock, GA

Orientation: North

Date: February 23, 2015

Photographer: Tetra Tech, Inc.

Witness: Tetra Tech, Inc.

Subject: Source bedroom after removal of carpet and personal items.



OFFICIAL PHOTOGRAPH NO. 3
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 525 Sycamore Point, Woodstock, GA

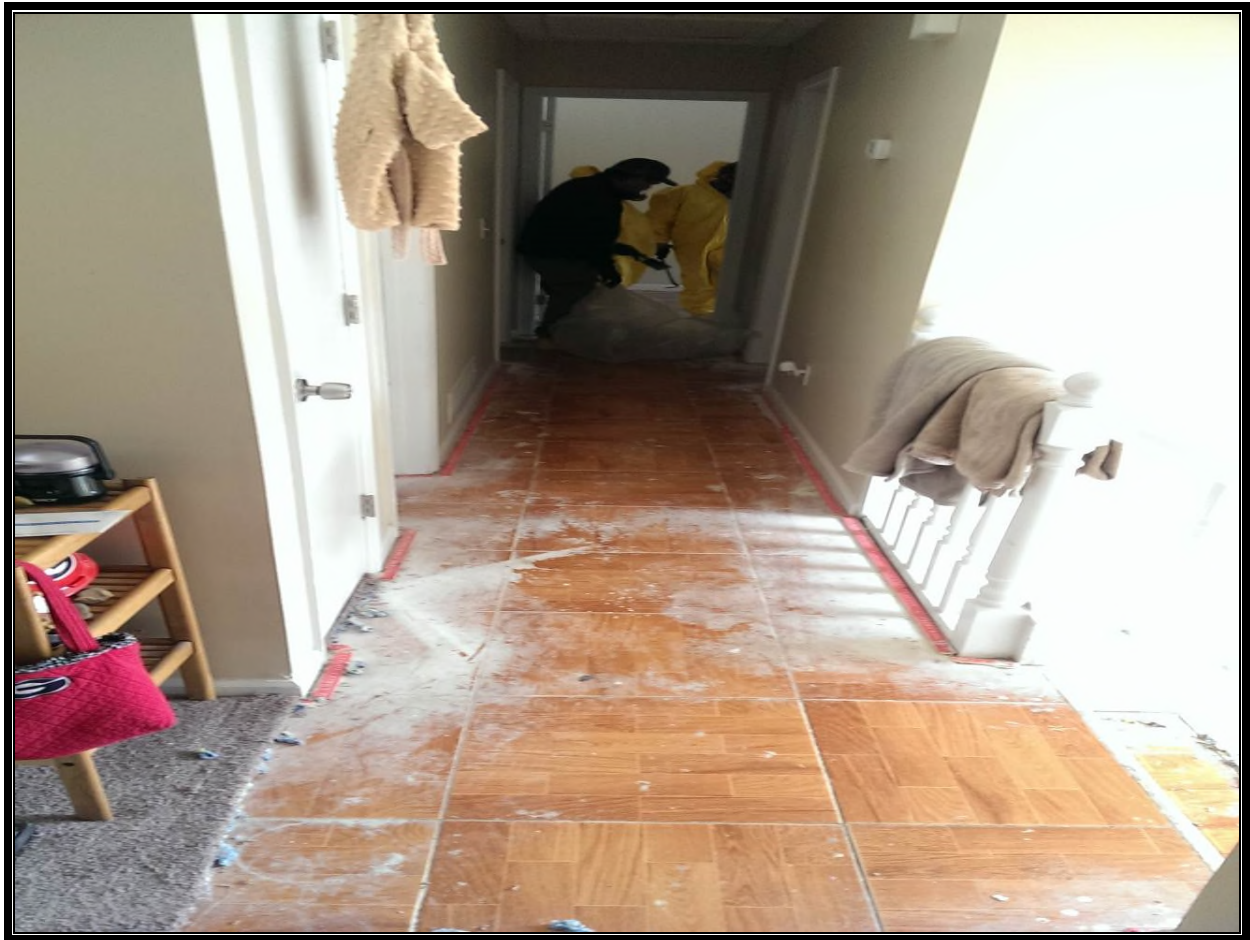
Orientation: North

Date: February 23, 2015

Photographer: Tetra Tech, Inc.

Witness: Tetra Tech, Inc.

Subject: Personal items with elevated mercury readings for disposal.



OFFICIAL PHOTOGRAPH NO. 4
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 510 Cove Road, Canton, GA

Orientation: East

Date: March 5, 2015

Photographer: Tetra Tech, Inc.

Witness: Tetra Tech, Inc.

Subject: Removal of carpet from source room and hallway leading to front door.



OFFICIAL PHOTOGRAPH NO. 5
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TT-01-017	Location:	510 Cove Road, Canton, GA
Orientation:	East	Date:	March 5, 2015
Photographer:	Tetra Tech, Inc.	Witness:	Tetra Tech, Inc.
Subject:	Removal activities in source bedroom using a mercury vacuum.		



OFFICIAL PHOTOGRAPH NO. 6
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 510 Cove Road, Canton, GA

Orientation: Northeast

Date: March 5, 2015

Photographer: Tetra Tech, Inc.

Witness: Tetra Tech, Inc.

Subject: Personal items with elevated mercury readings bagged for disposal.



OFFICIAL PHOTOGRAPH NO. 7
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: East

Date: February 24, 2015

Photographer: Tetra Tech, Inc.

Witness: Tetra Tech, Inc.

Subject: Source house prior to entry and removal activities.



OFFICIAL PHOTOGRAPH NO. 8
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TT-01-017	Location:	624 Apache Trail, Woodstock, GA
Orientation:	Not Applicable	Date:	February 24, 2015
Photographer:	Tetra Tech, Inc.	Witness:	Tetra Tech, Inc.
Subject:	Mercury beads in the ditch along the road in front of the source house.		



OFFICIAL PHOTOGRAPH NO. 9
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TT-01-017	Location:	624 Apache Trail, Woodstock, GA
Orientation:	Not Applicable	Date:	February 24, 2015
Photographer:	Tetra Tech, Inc.	Witness:	Tetra Tech, Inc.
Subject:	Mercury beads in the cracks of the driveway leading to the source house.		



OFFICIAL PHOTOGRAPH NO. 10
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: Not Applicable

Date: February 24, 2015

Photographer: Tetra Tech, Inc.

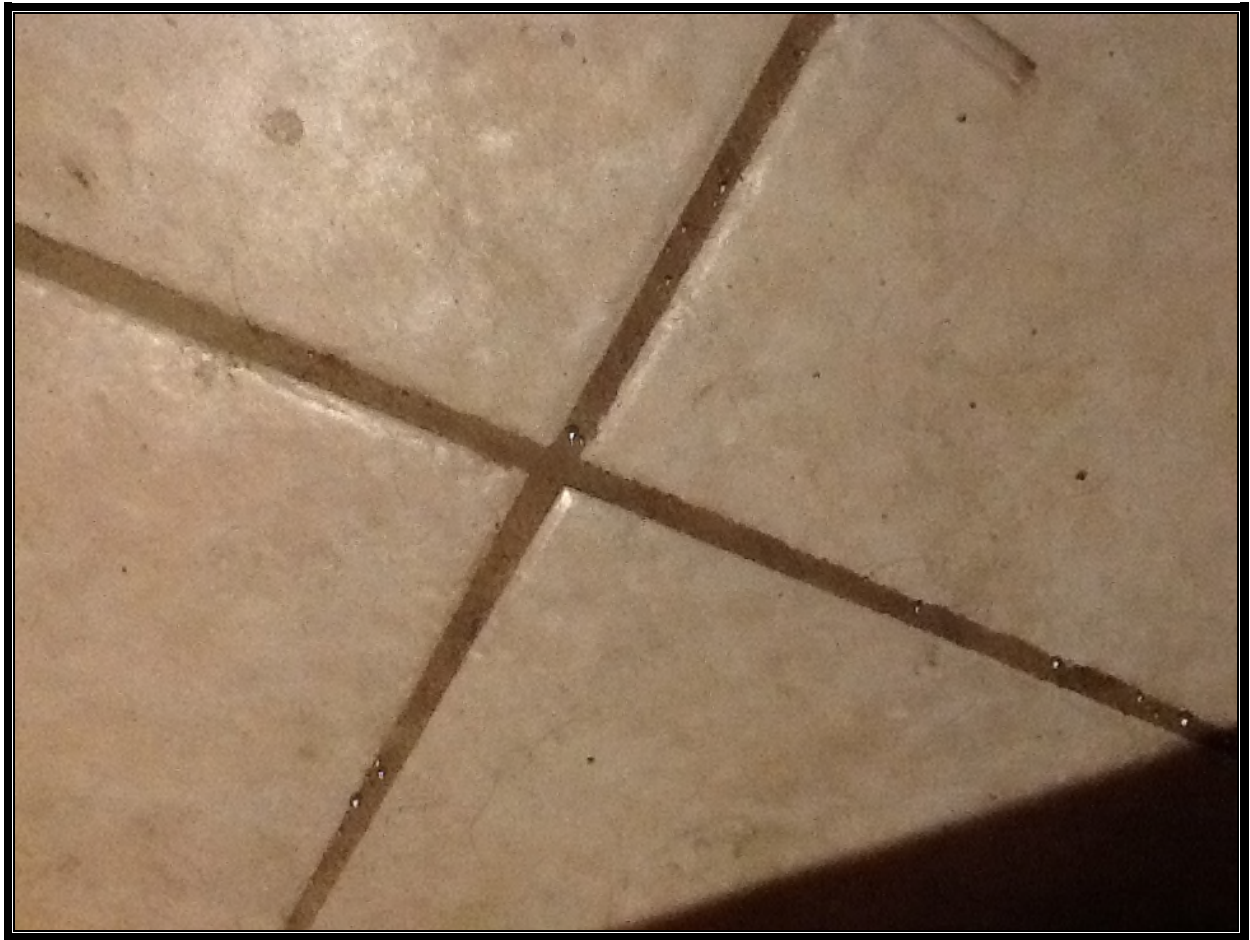
Witness: Tetra Tech, Inc.

Subject: Application of DeconGel to the road in front of the source house.



OFFICIAL PHOTOGRAPH NO. 11
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017 **Location:** 624 Apache Trail, Woodstock, GA
Orientation: South **Date:** March 1, 2015
Photographer: Tetra Tech, Inc. **Witness:** Tetra Tech, Inc.
Subject: Source house upstairs living room on initial entry.



OFFICIAL PHOTOGRAPH NO. 12
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TT-01-017	Location:	624 Apache Trail, Woodstock, GA
Orientation:	Not Applicable	Date:	March 1, 2015
Photographer:	Tetra Tech, Inc.	Witness:	Tetra Tech, Inc.
Subject:	Mercury beads on the floor of the basement.		



OFFICIAL PHOTOGRAPH NO. 13
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TT-01-017	Location:	624 Apache Trail, Woodstock, GA
Orientation:	Not Applicable	Date:	March 1, 2015
Photographer:	Tetra Tech, Inc.	Witness:	Tetra Tech, Inc.
Subject:	Mercury beads on the basement floor after removing a wall.		



OFFICIAL PHOTOGRAPH NO. 14
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: Not Applicable

Date: March 6, 2015

Photographer: Tetra Tech, Inc.

Witness: Tetra Tech, Inc.

Subject: Mercury beads beneath floor tile and wall during removal.



OFFICIAL PHOTOGRAPH NO. 15
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: North

Date: March 3, 2015

Photographer: Tetra Tech, Inc.

Witness: Tetra Tech, Inc.

Subject: Removal activities on the stair case leading to the upstairs living room.



OFFICIAL PHOTOGRAPH NO. 16
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: North

Date: March 14, 2015

Photographer: Tetra Tech, Inc.

Witness: Tetra Tech, Inc.

Subject: Downstairs living area, post-removal activities with ventilation system.





OFFICIAL PHOTOGRAPH NO. 17
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: Southeast

Date: March 14, 2015

Photographer: Tetra Tech, Inc.

Witness: Tetra Tech, Inc.

Subject: Garage, post-removal activities.





OFFICIAL PHOTOGRAPH NO. 18
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: Northeast

Date: March 14, 2015

Photographer: Tetra Tech, Inc.

Witness: Tetra Tech, Inc.

Subject: Upstairs living room and dining area, post-removal activities.



OFFICIAL PHOTOGRAPH NO. 19
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: North

Date: March 14, 2015

Photographer: Tetra Tech, Inc.

Witness: Tetra Tech, Inc.

Subject: Heat tents set up on back porch for heating and venting of personal items.



OFFICIAL PHOTOGRAPH NO. 20
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: South

Date: March 14, 2015

Photographer: Tetra Tech, Inc.

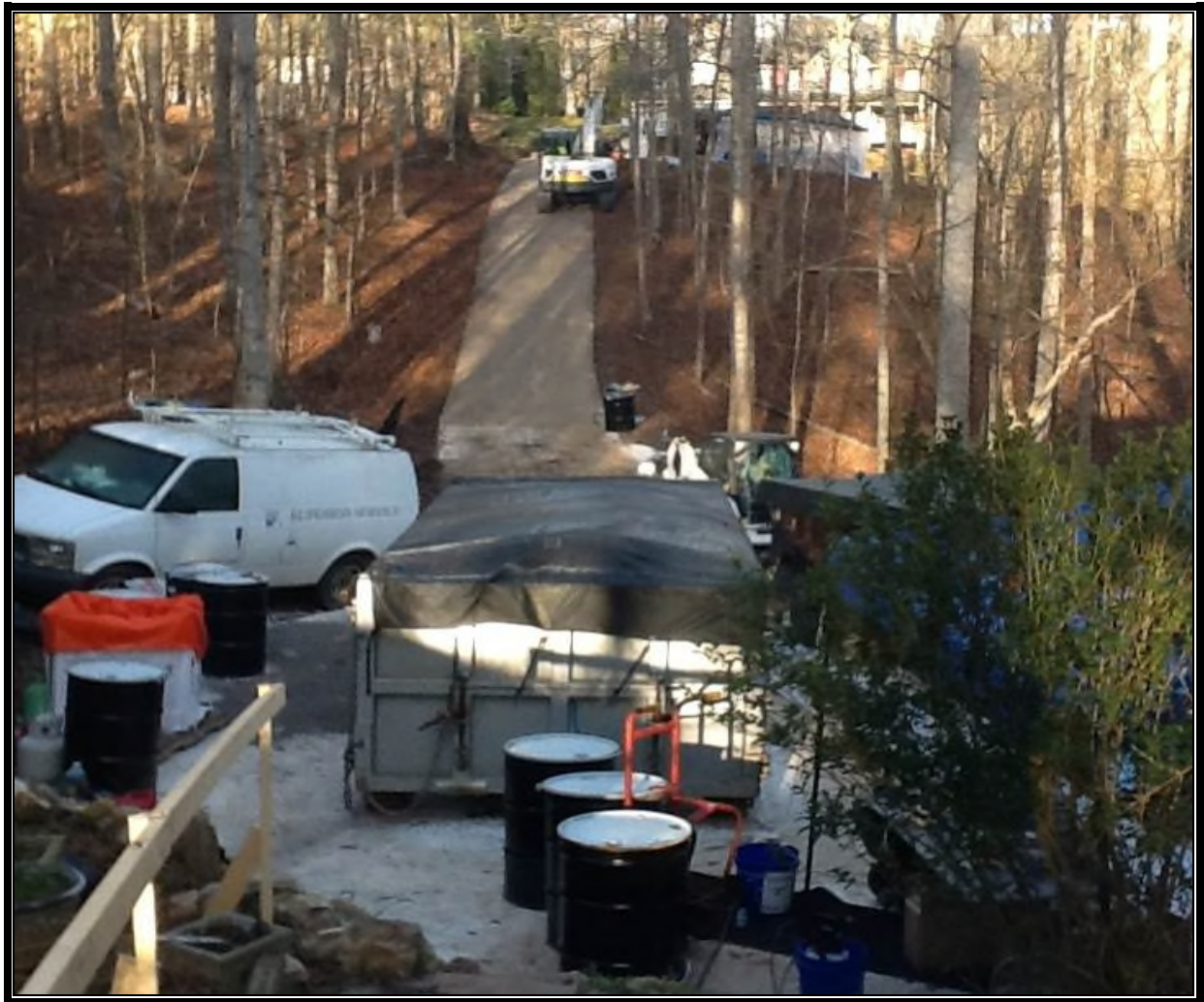
Witness: Tetra Tech, Inc.

Subject: Personal items inside the heat/vent tent.



OFFICIAL PHOTOGRAPH NO. 21
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TT-01-017	Location:	624 Apache Trail, Woodstock, GA
Orientation:	North	Date:	March 14, 2015
Photographer:	Tetra Tech, Inc.	Witness:	Tetra Tech, Inc.
Subject:	Front steps to house, post-removal activities.		



OFFICIAL PHOTOGRAPH NO. 22
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: West

Date: March 16, 2015

Photographer: Tetra Tech, Inc.

Witness: Tetra Tech, Inc.

Subject: Excavation of contaminated soil alongside driveway.



OFFICIAL PHOTOGRAPH NO. 23
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: West

Date: March 16, 2015

Photographer: Tetra Tech, Inc.

Witness: Tetra Tech, Inc.

Subject: Soil alongside driveway, post-excavation.



OFFICIAL PHOTOGRAPH NO. 24
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: West

Date: March 16, 2015

Photographer: Tetra Tech, Inc.

Witness: Tetra Tech, Inc.

Subject: Scrape of contaminated topsoil from the yard surrounding the front and side of the house.



OFFICIAL PHOTOGRAPH NO. 25
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TT-01-017	Location:	624 Apache Trail, Woodstock, GA
Orientation:	North	Date:	March 16, 2015
Photographer:	Tetra Tech, Inc.	Witness:	Tetra Tech, Inc.
Subject:	Driveway runoff ditch with flags marking areas of elevated mercury contamination.		



OFFICIAL PHOTOGRAPH NO. 26
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: North

Date: March 16, 2015

Photographer: Tetra Tech, Inc.

Witness: Tetra Tech, Inc.

Subject: Driveway runoff ditch, post-removal activities.



OFFICIAL PHOTOGRAPH NO. 27
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: North

Date: March 16, 2015

Photographer: Tetra Tech, Inc.

Witness: Tetra Tech, Inc.

Subject: Pile of contaminated soil excavated from the driveway runoff ditch and yard.



OFFICIAL PHOTOGRAPH NO. 28
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TT-01-017	Location:	624 Apache Trail, Woodstock, GA
Orientation:	North	Date:	March 17, 2015
Photographer:	Tetra Tech, Inc.	Witness:	Tetra Tech, Inc.
Subject:	Demolition of driveway in areas of elevated mercury contamination.		



OFFICIAL PHOTOGRAPH NO. 29
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: East

Date: March 18, 2015

Photographer: Tetra Tech, Inc.

Witness: Tetra Tech, Inc.

Subject: Driveway, post-removal activities.



OFFICIAL PHOTOGRAPH NO. 30
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: South

Date: April 2, 2015

Photographer: Kevin Eichinger, EPA

Witness: N/A

Subject: Ditch, post removal and restoration



**OFFICIAL PHOTOGRAPH NO. 31
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: North

Date: April 2, 2015

Photographer: Kevin Eichinger, EPA

Witness: N/A

Subject: Ditch, post removal and restoration



OFFICIAL PHOTOGRAPH NO. 32
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: East

Date: April 2, 2015

Photographer: Kevin Eichinger, EPA

Witness: N/A

Subject: Driveway, post removal and restoration



OFFICIAL PHOTOGRAPH NO. 33
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: East

Date: April 2, 2015

Photographer: Kevin Eichinger, EPA

Witness: N/A

Subject: Front porch, post removal and restoration



OFFICIAL PHOTOGRAPH NO. 34
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TT-01-017

Location: 624 Apache Trail, Woodstock, GA

Orientation: North

Date: April 2, 2015

Photographer: Kevin Eichinger, EPA

Witness: N/A

Subject: Front yard, post removal and restoration

ENCLOSURE 3

INVENTORY OF PERSONAL ITEMS DISPOSED

(17 Pages)

Inventory of Personal Items Disposed
525 Sycamore Point (Woodstock, Georgia)

Item Description	Quantity
Bag (canvas)	2
Bath Mat	1
Bath Robe	2
Beanbag Chair	3
Bed Skirt	2
Belt (plastic)	2
Belts (leather)	7
Blanket	8
Bookbag	2
Boots (pair)	3
Boxes (moving)	2
Bra	5
Cami	2
Comforter (queen)	1
Flannel Shirt	5
Hair Brush	1
Hamper (canvas)	1
Hoodies	8
Jacket	11
Jacket (fleece)	2
Jeans	14
Jewelry Box	1
Laundry Bag	1
Laundry Basket	1
Laundry Room Supplies	10
Leggings	1
Makeup Case	6
Pajama Bottoms	9
Pants	3
Pillow	7
Satchel (leather)	1
Scarf	2
Sheets	1
Shoes (pair)	4
Socks (pair)	28
Stuffed Animal	3
Sweater	7
Sweatshirts	5
Towel	3
Trash Can	2
T-shirt	33
Underwear (girls)	26
Washing Machine	1

**Inventory of Personal Items Disposed
624 Apache Trail (Woodstock, Georgia)**

Item Description	Quantity
2 bags of insulation	2
2 totes of miscellaneous christmas items	1
3 orange bins of easter decorations	1
3-crock pot serving system	1
3-tier plastic shelf	1
3-tier plastic shelving	5
3-tier shelving	1
3-tiered plastic shelving	1
4 inch PVC pipe	1
50' hose reel	1
AC window unit	1
African mask	1
Air duct fitting	1
Air duct fittings	25
Air duct piping, 6'	1
Air filters	6
Air hose, 48' length	1
Allen wrenches	10
Aprons	12
Arm brace	3
Artificial flowers	6
Assorted nightstand drawer items	1
Asst office supplies	2
Asst toiletries	1
Baby barrier wall	4
Baby clothes	5
Baby crib	1
Bag	4
Bag of nail polish	1
Bag of old baseboards	4
Bag of tiles	1
Bakeware	1
Bar stool	1
Basket	14
Baskets	3
Bass guitar strings	1
Bat	1
Bath mat	1
Bath soap and shampoo	15
Bathroom wall decorations	7
Battery charger	3
Bead necklace	6
Beard trimmer	1
Beatles poster	1

Inventory of Personal Items Disposed
624 Apache Trail (Woodstock, Georgia)

Item Description	Quantity
Bed (full, queen, king)	1
Bed frame	1
Bed linen set	4
Bedspread/Quilt	6
Bell	1
Belt	11
Belt sander	1
Bench vice	1
Bench vise	1
Bench weight bar	1
Bin of Christmas wrapping paper	1
Blanket	13
Blind	1
Blinds	1
Blue plastic basket	1
Blue tubing, 1/2", 6'	1
Blue vase	1
Board games	3
Body spray/lotion	2
Book (hardback)	34
Book (paperback)	35
Bookbag	1
Bookbag/backpack	1
Bookshelf	1
Bouncing toy	1
Bow	1
Bowl of hair ties	1
Bowling brace	1
Box of Christmas decorations	1
Box of Misc christmas decorations	1
Box of nails	1
Box spring	2
Boxed sport shelf	1
Boxspring	1
Broom	9
Brooms	2
Brush	1
Bucket	4
C clamp	1
C clamps	4
Cable box	1
Cake carrier	3
Calendar	1
Candle	3

**Inventory of Personal Items Disposed
624 Apache Trail (Woodstock, Georgia)**

Item Description	Quantity
Car jacks	2
Car mats	2
Car part, alternator?	1
Car safety kit	1
CD	3
Cd case	1
CD case empty	2
Ceiling fan	1
Ceiling tiles	9
Ceramic basket	1
Ceramic box	1
Ceramic Planter	1
Ceramic pots	4
Chafing dish	1
Chainsaw	1
Chair (upholstered)	11
Chest	1
Chest door	1
Chicken quarters, 10 lb.	1
Child safety wall	1
China Cabinet	1
Christmas decoration	11
Christmas decorations	27
Christmas lights	22
Christmas ornament	1
Christmas ornaments	34
Christmas tree stand	1
Christmas wrapping paper	4
Christmas wreath	3
Christmas wreaths	6
Cigar boxes	2
Cleaning supplies	14
Clock	1
Clock Radio	1
Cloth basket	2
Clothes Closet	1
Clothes dresser	1
Clothes hamper	3
Clothes steamer	1
Coat rack	1
Coffee Table	3
Computer Monitor	1
Computer System	1
Copper tubing, 20' length	1

**Inventory of Personal Items Disposed
624 Apache Trail (Woodstock, Georgia)**

Item Description	Quantity
Corkboard	1
Coveralls	1
Cpap machine	1
Crib cushion	1
Cricket cage	1
Curtain and curtain rod	1
Curtain rod	2
Curtains	8
Cymbal	1
Decorations	3
Decorative grass	1
Desk	5
Desk chair	1
Desk drawer	2
Directors chair	1
Dolly	1
Door knob	1
Door knob decoration	1
Drawer	1
Drawer full of random items	1
Drawers	6
Dresser	1
Drill	1
Drill bit set	1
Drill set boxes	2
Drum pedal	1
Drum stick	1
Drum sticks	2
Dryer	1
Duct work, insulation, door handle	1
Duffle bag	1
Dumbbells	2
Duster	1
Dustpan	1
DVD	101
DVD Player/VCR	1
Edger	1
Electric back massager	2
Electric fan	1
Electric heater	1
Electric hot plate	1
Empty bit case	1
Empty dremel tool bag	1
Empty drill bit case	1

**Inventory of Personal Items Disposed
624 Apache Trail (Woodstock, Georgia)**

Item Description	Quantity
Empty liquor bottles	4
Empty pill bottles	10
End Table	3
Entertainment center	1
Entire bar from play room	1
Extension cord	2
Extension cord, 24' length	1
Extension cord, 50'	1
Extension cords	5
Eyeglasses	1
Fabric	55
Fan	4
Fertilizer distributor	1
Fertilizer spreader	1
Fiberglass Ladder	1
First aid kit	1
First aid supplies	5
Fishing nets	2
Fishing reel	1
Fishing rods and reels	5
Fishing vest	1
Flashlight	4
Floor Lamp	6
Flower pots	3
Fly swatter	1
Foam insulation sheets	3
Foam sheathing, 4x8 piece	2
Folding chair	1
Frozen biscuits, 20 biscuits	1
Frozen chicken breasts, 25 oz	1
Frozen dinner	2
Funnel	1
Garbage cans	3
Garbage cn	1
Garden shears	1
Garden shovel	1
Garden sprayer	1
Gardening tools	4
Girls Shirt	4
Girls Shoes	1
Glass jar	2
Graduation scarf	1
Grease gun	1
Greeting cards	100

**Inventory of Personal Items Disposed
624 Apache Trail (Woodstock, Georgia)**

Item Description	Quantity
Halloween decoration	5
Hand saw	2
Hand tools	5
Hangers	64
Hat	1
Headboard	1
Hedge trimmer	1
Holiday wreath	2
Holiday wreaths	6
Hose pipe nozzle	1
Hot wheel	15
Household cleaner	5
Humidifier	1
Hygiene items	45
Ice chest	1
Ice cream maker	1
Insoles	1
Insulated duct, 10' length	1
Insulation	7
Insulation, wooden box	1
Internet router	2
Iron	1
Ironing board	1
Jar	4
Jumper cables	1
Karate uniform	1
Kayak with paddle	1
Kennel tray	1
Keyboard	3
Kitchen Cabinet	1
Kitchen Chair	20
Kitchen countertop, 5'	1
Kitchen table	1
Kites	2
Knee brace	1
Lamp	7
Lamp shade	3
Lamp shade tool box caulk gun drill	1
Lamp shades	2
Lampshade	7
Landscape fabric	1
Lantern	1
Laptop bag	1
Laptop charger	1

**Inventory of Personal Items Disposed
624 Apache Trail (Woodstock, Georgia)**

Item Description	Quantity
Large vase decoration	1
Lawn chair	2
Lawn mower bag	1
Lawn mower blades	4
Leggings	13
Lg paint mixer	2
Lg thermometer	1
Light bulb	10
Light bulb 24 inch fluorescent	1
Light fixture	5
Light switches	3
Lightbulbs	3
Luggage	1
Machete	2
Magazine rack	1
Map	3
Marbles	50
Mattress (double) - king	1
Mattress (single) - twin	1
Mattress pad	1
Measuring cup	1
Men's Jacket	14
Men's Jeans	6
Men's Shirt	84
Men's Shoes	30
Men's Shorts	64
Men's Slacks	4
Men's Swim Trunks	2
Men's Underwear	5
Metal basket	1
Metal brackets	4
Metal christmas tree stand	1
Metal ladder, 6'	1
Metal medicine cabinet	1
Metal plate rack	2
Metal rack	1
Metal scale	1
Metal storage box	1
Metal storage shelf	1
Metal t-square, 4'	1
Metal ventilation duct pieces	4
Metal wall decoration	1
Minnow bucket	1
Mirror	2

**Inventory of Personal Items Disposed
624 Apache Trail (Woodstock, Georgia)**

Item Description	Quantity
Misc fabric	18
Misc fan	1
Misc fittings	28
Misc household cleaners	2
Misc office supplies	1
Misc office supplies, checked - empty	1
Misc paint supplies	2
Misc painting supplies	1
Misc trash	1
Miscellaneous hand tools	6
Miscellaneous household chemicals, mitre box, etc	1
Miscellaneous paint supplies	5
Miscellaneous paperwork, plastic shelving	1
Miscellaneous toys	3
Miscellaneous wire and cable	1
Mop	2
Mp3 player	1
Multi colored plastic shelving	5
Nail kit	1
Neck brace	1
Notebook	4
Old broken metal gauge	1
Old mixer	1
One bin halloween decorations	1
One bin of christmas decorations	1
One bin of halloween decorations	4
One bin of misc holiday decorations	1
One bin of thanksgiving decorations	1
One plastic bin	1
Outdoor lantern	1
Overalls	1
Paddle	1
Paint bucket	1
Paint roller	6
Paint sprayer	1
Paint supplies	1
Paint trays	2
Paintball gun	1
Painting supplies	1
Pant	34
Parrot pinata	1
Peacock decoration	1
Pen	50
Pet bowl	1

**Inventory of Personal Items Disposed
624 Apache Trail (Woodstock, Georgia)**

Item Description	Quantity
Pet dish	2
Pet hygiene products/supplies	40
PFDs	3
Phone	2
Photo paper	3
Picture frame	5
Picture/Painting	33
Pillar Sink	1
Pillow	31
Pipe fitting	1
Placemats	4
Plant pots	1
Plastic 3-drawer storage container	1
Plastic basket	1
Plastic bin	6
Plastic broom pan	1
Plastic bucket	1
Plastic clothes bin	1
Plastic clothes hamper	1
Plastic containers	3
Plastic crate	3
Plastic dust pan	1
Plastic garbage can	1
Plastic hamper	5
Plastic jar	5
Plastic lids	2
Plastic milk crate	3
Plastic shelf	1
Plastic shelving	5
Plastic shelving legs	24
Plastic step stool	1
Plastic stool	1
Plastic storage bin	29
Plastic storage bin lid	1
Plastic storage bin, empty	2
Plastic storage box	4
Plastic storage box with drywall & paint supplies	1
Plastic storage container	4
Plastic storage lids	4
Plastic tool box with paint supplies	1
Plastic toolbox	1
Plastic tote	2
Plastic tub	1
Plate	3

**Inventory of Personal Items Disposed
624 Apache Trail (Woodstock, Georgia)**

Item Description	Quantity
Plates	2
Pork tenderloin, 5 lbs	2
Portable radio	1
Poster	2
Pot	1
Pot holder	2
Pot/Pan	8
Power cable	3
Power saw	1
Purse	3
Puzzle	1
PVC pipe 2", 8'	1
PVC PIPE 3", 8'	1
PVC pipe 3/4" 24'	1
PVC Pipe 4", 2' length	1
PVC Pipe fitting	1
PVC pipe fittings	6
Rake	1
Refrigerator shelf	1
Remote	5
Remote controls	2
Ribbon	8
Rifle	1
Rocking chair	2
Roll of 3/4 inch gas tubing	1
Roll of stuffing	1
Roll of visqueen	1
Rolling garbage can	1
Rolling toolbox	1
Rope, 3' length	1
Rubber mallet	1
Rubber tube	1
Rugs	2
Sander	1
Saw	2
Scarf	19
Scrub brush	1
Seat	1
Sevendust spray bottle	1
Sheets	17
Shelf	5
Shirt	41
Shoe rack	1
Shop vac filter	1

**Inventory of Personal Items Disposed
624 Apache Trail (Woodstock, Georgia)**

Item Description	Quantity
Shop vac filters	1
Shorts	4
Shovel	1
Skate board	2
Skateboard decks	3
Skateboard wheels in ammo box	1
Slow cooker	1
Small bat	1
Small Cabinet	1
Small capacitor	1
Small Cooler	1
Small garbage	1
Small metal table	1
Small shop vac	2
Small space heater	1
Small wire shelf	1
Sock	1
Socket set boxes	2
Sofa cushion	3
Solder kit	1
Space heater	1
Speaker	1
Spray paint can	3
Sprayer	1
Stapler	1
Starter	1
Step ladder	1
Stereo cabinet	1
Straw window blind	1
Stuffed Animal	8
Suit case full of magazines	1
Suitcase	3
Sunglasses	2
Surfboard	1
Surge protector	3
Sword	1
T.V.	3
Table	4
Table leaf	2
Table legs	4
Table runner	1
Tablecloth and chair covers	1
Tackle boxes	2
Tape dispenser	1

Inventory of Personal Items Disposed
624 Apache Trail (Woodstock, Georgia)

Item Description	Quantity
Telephone cable	2
Tent stick	1
Throw Rug	14
Thumb brace	1
Tie	1
Tire rim	3
Toilet brush	1
Tool bag	1
Tool bag, empty	1
Tool boxes	1
Toolbox	1
Tow strap	1
Towels	62
Toy	16
Trash	1
Tray stand	1
Tripod	1
Trowel	1
Tubes of caulk	8
Tubing insulation	1
TV Stand	1
Unopened bag of insulation	1
Unopened roll of insulation	1
Unused tire	1
Utility brush	3
Utillity brush	1
Vacuum	1
Vacuum accessories	3
Vacuum accessory	1
Vacuum Cleaner	1
Vacuum hose	3
Vacuum hoses	3
Vacuum nozzle	1
Vase	11
Vhs	25
Video game	3
Video tape	2
Video tapes	3
Vinyl blind	2
Vinyl panel kit	1
Wall electrical plate covers	5
Wall hangers	1
Wall hung basket	1
Washing Machine	1

Inventory of Personal Items Disposed
624 Apache Trail (Woodstock, Georgia)

Item Description	Quantity
Weed eater	1
Weed eater accessory	1
Weed eater string	1
Weedeater string	1
Weght plate - 10 lb.	1
Weight bar	1
Weight bench	2
Weight bench accessory	1
Weight bench seat	1
Weight plate	9
Weight plate - 25 lb.	2
Weight plate - 35 lb.	1
Weight plates	5
Weight rack	2
Wetsuit	3
Whiteboard, 6'	1
Wicker basket	2
Wicker headrest	1
Wicker loveseat	1
Wicker pet bed	1
Wicker seat bottom	1
Women's Bathrobe	1
Women's Blouse	110
Women's Boots	2
Women's Hat	17
Women's Jacket	3
Women's Nightgown	1
Women's Shoes	37
Women's Skirt	3
Women's Slacks	1
Women's Socks	26
Women's Sweater	19
Women's Sweatshirt	1
Wood birdhouse	1
Wood organizer	1
Wood Shelf	2
Wood shelving	3
Wooden crate	2
Wooden silverware drawer organizer	1
Wooden tray	1
Work light	1
Workbench	1
Wrapping paper	14
Wreath	1

Inventory of Personal Items Disposed
624 Apache Trail (Woodstock, Georgia)

Item Description	Quantity
Wrought iron grate	1
Yearbook	1
Yoga mat	2

Inventory of Personal Items Disposed
510 Cove Road (Canton, Georgia)

Item Description	Quantity
Back Rest	1
Backpack	2
Baseball	2
Baseball Glove	1
Baseball helmet	1
Bath Robe	1
Blanket	13
Blanket (baby)	18
Blanket (electric)	1
Books (hardback)	3
Boxer (shorts)	5
Bra	9
Bucket	1
Calculator (basic)	1
Computer Case (Targus)	1
Cowboy Boots	1
Dinner Tray	1
Football	1
Hamper	1
Hamper	1
Hangers	10
Hats	8
Hoodie	3
Jacket	2
Jacket (boys)	1
Jacket (Hollister)	1
Jeans	17
Jeans (girls)	11
Lamps	2
Mattress (queen)	1
Pajamas	3
Pants	7
Pants (mens)	5
Patches	10
Photo Album	1
Picture (framed)	1
Pillow	5
Posters	4
Sheets (sets)	3
Shirts (boys)	32
Shirts (long-sleeve)	5
Shirts (mens)	5
Shoes (girls)	6
Shoes (tennis)	1

Inventory of Personal Items Disposed
510 Cove Road (Canton, Georgia)

Item Description	Quantity
Shop Vacuum	1
Shorts (girls)	5
Slippers	2
Socks (childrens)	3
Socks (girls)	25
Socks (mens)	10
Sports Bag	1
Storage Container (plastic)	1
Stuffed Animal	6
Sweater	3
Sweaters (girls)	5
Sweatshirts (girls)	2
Tools (miscellaneous hand tools)	5
Towel	7
Towels	10
Toys (childrens)	10
T-shirts (boys)	10
T-Shirts (girls)	35
T-shirts (mens)	10
Underwear (boys)	5
Underwear (childrens)	3
Underwear (girls)	30
Underwear (mens)	10
Vacuum Cleaner	1
Video Game	1

ENCLOSURE 4
CLEARANCE TEST RESULTS
(Five Pages)

Clearance Screening Results
525 Sycamore Point

Room		Time					5-hour Average
		12:00	13:00	14:00	15:00	16:00	
Living Room	Conc (ng/m ³)	835	913	888	1,100	1,082	963.6
	Temp (°F)	75.0	77.0	72.0	75.0	77.0	75.2
Den	Conc (ng/m ³)	812	833	843	1,019	1,014	904.2
	Temp (°F)	76.0	73.0	70.0	73.0	76.0	73.6
Basement	Conc (ng/m ³)	776	842	837	1,058	1,016	905.8
	Temp (°F)	79.0	77.0	71.0	74.0	76.0	75.4
Upstairs Hallway	Conc (ng/m ³)	849	875	874	1,054	1,062	942.8
	Temp (°F)	76.0	70.0	71.0	73.0	74.0	72.8
Master Bedroom	Conc (ng/m ³)	723	729	717	905	879	790.6
	Temp (°F)	64.0	66.0	59.0	58.0	63.0	62.0
Girl's Bathroom	Conc (ng/m ³)	838	867	872	1,062	1,071	942.0
	Temp (°F)	68.0	67.0	68.0	65.0	69.0	67.4
Girl's Bedroom	Conc (ng/m ³)	739	738	735	896	896	800.8
	Temp (°F)	60.0	59.0	58.0	59.0	58.0	58.8
Avg House Concentration		796.0	828.1	823.7	1,013.4	1,002.9	892.8
Avg House Temperature		71.1	69.9	67.0	68.1	70.4	69.3

Notes:

°F: Degrees Fahrenheit

ng/m³: Nanograms per cubic meter

Data collection began at 1200 on 2/21/15 and was completed at 1600 on 2/21/15.

The house was closed (not venting) for at least one hour prior to data collection.

Readings were collected at waist level with a Lumex 915+.

Clearance Screening Results
624 Apache Trail

Room		Time					5-hour Average
		09:30	10:30	11:30	12:30	13:30	
Upper Level							
Dining Room	Conc (ng/m ³)	2,444	2,490	2,313	2,365	2,607	2,443.8
	Temp (°F)	65.0	64.0	64.0	64.0	65.0	64.4
Living Room	Conc (ng/m ³)	2,099	2,439	2,224	1,751	2,311	2,164.8
	Temp (°F)	65.0	64.0	64.0	64.0	65.0	64.4
Kitchen	Conc (ng/m ³)	1,846	1,491	1,530	1,601	1,175	1,528.6
	Temp (°F)	65.0	64.0	64.0	64.0	65.0	64.4
Master Bathroom #1	Conc (ng/m ³)	1,877	2,094	1,381	1,675	2,002	1,805.8
	Temp (°F)	65.0	64.0	64.0	64.0	65.0	64.4
Master Bedroom	Conc (ng/m ³)	1,782	1,821	1,661	1,811	2,022	1,819.4
	Temp (°F)	65.0	64.0	64.0	64.0	65.0	64.4
Hallway #1	Conc (ng/m ³)	2,101	2,046	1,670	1,488	1,800	1,821.0
	Temp (°F)	65.0	64.0	64.0	64.0	65.0	64.4
Bedroom #1	Conc (ng/m ³)	1,507	2,151	1,670	1,702	1,622	1,730.4
	Temp (°F)	65.0	64.0	64.0	64.0	65.0	64.4
Bathroom #2	Conc (ng/m ³)	2,386	2,690	2,775	1,561	1,771	2,236.6
	Temp (°F)	65.0	64.0	64.0	64.0	65.0	64.4
Bedroom #2	Conc (ng/m ³)	1,791	1,990	1,414	1,103	1,458	1,551.2
	Temp (°F)	65.0	64.0	64.0	64.0	65.0	64.4

Clearance Screening Results
624 Apache Trail

Room		Time					5-hour Average
		09:30	10:30	11:30	12:30	13:30	
Lower Level							
Bedroom #3	Conc (ng/m ³)	3,108	2,938	2,513	2,847	3,074	2,896.0
	Temp (°F)	65.0	64.0	64.0	64.0	65.0	64.4
Bedroom #4	Conc (ng/m ³)	3,276	3,204	2,721	2,970	2,858	3,005.8
	Temp (°F)	65.0	64.0	64.0	64.0	65.0	64.4
Living Room	Conc (ng/m ³)	3,026	3,086	2,952	3,381	3,324	3,153.8
	Temp (°F)	65.0	64.0	64.0	64.0	65.0	64.4
Hallway #2	Conc (ng/m ³)	3,124	3,285	3,322	3,655	3,031	3,283.4
	Temp (°F)	65.0	64.0	64.0	64.0	65.0	64.4
Bathroom #3	Conc (ng/m ³)	3,252	3,994	3,873	4,147	4,085	3,870.2
	Temp (°F)	65.0	64.0	64.0	64.0	65.0	64.4
Hallway #3	Conc (ng/m ³)	2,545	3,221	2,462	3,006	2,473	2,741.4
	Temp (°F)	65.0	64.0	64.0	64.0	65.0	64.4
Garage	Conc (ng/m ³)	2,485	2,970	3,202	3,700	2,950	3,061.4
	Temp (°F)	65.0	64.0	64.0	64.0	65.0	64.4
	Avg House Concentration	2,415.6	2,619.4	2,355.2	2,422.7	2,410.2	2,444.6
	Avg House Temperature	65.0	64.0	64.0	64.0	65.0	64.4

Notes:

°F: Degrees Fahrenheit

ng/m³: Nanograms per cubic meter

Data collection began at 0930 on 3/15/15 and was completed at 1330 on 3/15/15.

Readings were collected at waist level with a Lumex 915+.

Clearance Screening Results
510 Cove Road

Room		Time					5-hour Average
		15:00	16:00	17:00	18:00	19:00	
Living Room / Kitchen	Conc (ng/m ³)	1,609	1,459	1,959	2,093	1,627	1,749.4
	Temp (°F)	72.0	71.5	72.0	73.0	72.5	72.2
Upstairs Bedroom 1	Conc (ng/m ³)	1,894	1,690	2,217	2,300	1,833	1,986.8
	Temp (°F)	71.5	70.5	71.0	72.0	71.5	71.3
Upstairs Bedroom 2	Conc (ng/m ³)	1,647	1,496	1,888	2,266	1,817	1,822.8
	Temp (°F)	70.5	71.0	71.5	72.0	72.0	71.4
Downstairs Parents Room	Conc (ng/m ³)	1,491	1,252	1,860	1,893	1,406	1,580.4
	Temp (°F)	66.5	65.0	65.5	66.5	66.0	65.9
Downstairs Baby Room	Conc (ng/m ³)	1,566	1,208	1,885	2,013	1,495	1,633.4
	Temp (°F)	68.0	66.5	66.0	67.0	67.5	67.0
Downstairs Living Room	Conc (ng/m ³)	1,462	1,220	2,171	1,768	1,406	1,605.4
	Temp (°F)	66.5	66.5	66.0	67.0	67.0	66.6
Avg House Concentration		1,611.5	1,387.5	1,996.7	2,055.5	1,597.3	1,729.7
Avg House Temperature		69.2	68.5	68.7	69.6	69.4	69.1

Notes:

Conc: Concentration

°F: Degrees Fahrenheit

ng/m³: Nanograms per cubic meter

Temp: Temperature

Data collection began at 15:00 hours on 3/4/15 and was completed at 19:00 hours on 3/4/15.

The house was closed (not venting) for at least one hour prior to data collection.

Readings were collected at waist level with a Lumex 915+.

Screening Results
8871 Knox Bridge Highway (Ace Academy)

Location Description	Conc.
Background:	50 ng/m ³
Locker No.:	
217	500-900 ng/m ³
348	Background
100 Hall:	
Room 108	Background
Room 110	Background
Room 112	Background
Room 115	Background
Room 119	Background
Boy's Bathroom	Background
Girl's Bathroom	Background
200 Hall:	Background
Room 201	Background
Room 205	Background
Room 206	Background
Room 209	Background
Room 218	Background
Boy's Bathroom	Background
Girl's Bathroom	Background
300 Hall:	
Room 303	Background
Room 309	Background
Boy's Bathroom	Background
Girl's Bathroom	Background
Cafeteria:	Background
Principal's Office:	105 ng/m ³
Janitor's Closet (Main Hall):	105 ng/m ³
Trash Can	400 ng/m ³
Vacuum	200 ng/m ³
Janitor's Closet (200 Hall):	
Mop	180 ng/m ³
Vacuum	150 ng/m ³

Notes:

Conc: Concentration

ng/m³: Nanograms per cubic meter

ENCLOSURE 5

TETRA TECH FIELD LOGBOOK NOTES

(32 Pages)

TT-01-017

SYCAMORE PAINT MERCURY

103X902701017



Logbook # 01

Rite in the Rain

ALL-WEATHER

UNIVERSAL

Nº 371

INCH

Rite in the Rain
ALL-WEATHER WRITING PAPER



Name _____

Address _____

Phone _____

Project _____

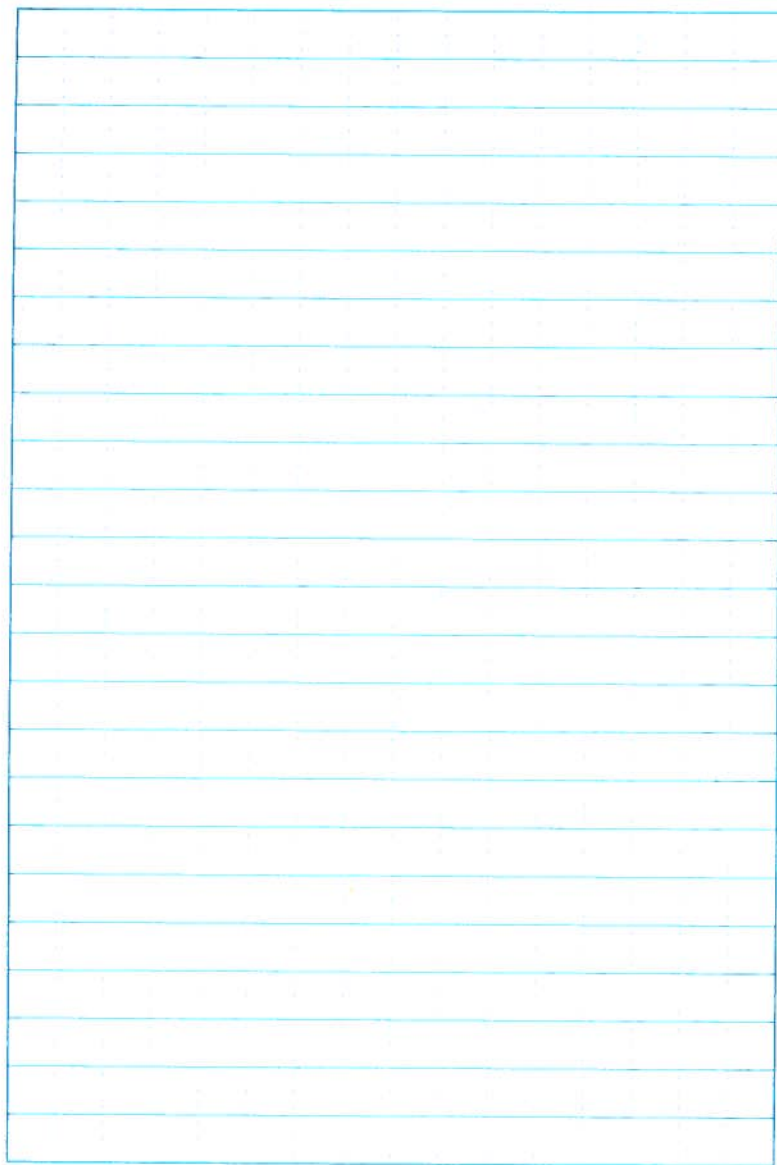
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CONTENTS

PAGE

REFERENCE

DATE



Scale: 1 square = _____

525 Sycamore Pt. L.O.

2/18/15

Front door ~~2,202~~ ^{L.O.} ng/m^3 22,000 ng/m^3

Living room ~~1,500~~ ^{L.O.} ng/m^3 15,000 ng/m^3

Downstairs in front of telephone 13,000 ng/m^3

Upstairs Master Bedroom 10,000 ng/m^3

Upstairs Bedroom 2 (girl's room) > 50,000 ng/m^3

Upstairs Bedroom 3 (guest room) 13,000 ng/m^3

Washer 750,000 ng/m^3

Dryer 20,000 ng/m^3

Girl's clothes and her boyfriend both have readings well above ambient levels. Family is putting their current clothes in individual trash bags to test at a later time. Shoes are also going in separate bags for testing. The family is going to change clothes and try to find somewhere to stay after being

Scale: 1 square = _____

Rite in the Rain

525 Sycamore Pl.

2/18/15

screened for contamination.

1450 - health department showed up

1515 - Meeting at Grandmother's house with health department

- Source location is Jake Smith's friend's house.

- Jake said he spilled it originally. It was a gallon plastic jar/container

- Jake and Tori (girlfriend) played with it and attempted cleaning it up

- Nolan notes: 624 Apache Trail. Jake's friend's grandfather's house. This is the source location.

- 611 Apache Trail. Jake's house. Potentially contaminated

- Tori said small amount of mercury got on her scalp and it stayed for 1 day.

- (770) 899-9824 Nolan's phone #

- Mercury is downstairs in the basement and garage. Floor is tiled. This is at 624 Apache Trail.

Scale: 1 square = _____

2/18/15

1745 OSL Bull contacts Nolan to discuss

the spill at his grand father's.

Nolan describes that his grandfather cleaned up the mercury. Declines EPA access.

OSL Bull contacts Timothy Smith who also refuses EPA access

2008 Longwood Drive screening measurements

Kitchen	652	ng/m ³
Dining Room	129	ng/m ³
Bedroom 1	65	ng/m ³
Bathroom 1	41	ng/m ³
Master Bedroom	452-490 ^{LO}	ng/m ³
Master Bathroom	490	ng/m ³
Upstairs hall	285	ng/m ³
Office	156	ng/m ³
Bathroom 2	63	ng/m ³
Bedroom 2	14	ng/m ³
Bedroom 3	43	ng/m ³
Bathroom 3	43	ng/m ³
Living Room	226	ng/m ³
Sunroom	520	ng/m ³

Scale: 1 square = _____

Rite in the Rain

2/20/15

0800 - Arrived on site at ~~625~~⁶²⁵ 525 Sycamore Rd

0807 - Safety meeting with OSC Ball, Tetra Tech, and ERS

0835 Screening of house

Living room 1,000 ng/m³Source bedroom 3,000 - 12,000 ng/m³" " hamper 12,000 ng/m³" " bed 5,000 ng/m³" " carpet 14,000 ng/m³" " drawer >50,000 ng/m³upstairs hall 8,000 ng/m³Girl's shower 8,000 ng/m³washer 12,000 ng/m³dryer 5,000 ng/m³Master Bedroom 1,700 ng/m³Guest Bedroom 1,700 ng/m³Bagged clothing from wed. 2/18/15 >50,000 ng/m³Downstairs near drums 1,000 ng/m³Downstairs bedroom 400 ng/m³Downstairs t.v. room 1,000 ng/m³

1125 Screen house

living room 140 ng/m³stairs 150 ng/m³upstairs hall 200 ng/m³

Scale: 1 square =

Quirkely 2/20/15

2/20/15⁷laundry room 300 ng/m³washer 500 ng/m³dryer 300 ng/m³girls room 150 ng/m³dresser 1200 ng/m³floors 400 ng/m³bathroom 300 ng/m³shower drain 1700 ng/m³trashcan 1000 ng/m³sink drain 350 ng/m³linen closet 300 ng/m³master bedroom 450 ng/m³1130 Removing dresser from
girl's room wrapped in plastic.
Will screen again around 1300.

1325 House Screening

living room 500 ng/m³stairs 520 ng/m³upstairs hall 800 ng/m³laundry room 800 ng/m³bathroom 500 ng/m³shower drain 2400 ng/m³girl's room 570 ng/m³closet 600 ng/m³

Scale: 1 square =

Quirkely 2/20/14

Rite in the Rain

2/20/14

laundry Rm floor 3500 ng/m³
 bathroom floor 1000 ng/m³
 1510 House Screening
 Den 640 ng/m³ 60°F
 Laundry Rm Floor 1000 ng/m³
 Girls Bathroom 70°F 1500 ng/m³
 Master Bedroom 700 ng/m³
 Tori's Rm 500 ng/m³
 Basement 500 ng/m³

Items were removed from girl's room, screened, segregated, & inventoried. Items below 30,000 ng/m³ were placed into the heat tent, items greater than 50,000 ng/m³ were placed into the disposal pile. Bags of items were screened twice more. Bags below 1,000 ng/m³ were placed into the return pile. All other items were placed into the heat tent pile. 1730 All items were put into the garage overnight. The house is heating & sealed. EPA, START, & ERRS off site.

Scale: 1 square = Quikley 2/20/15

2/21/15

0805 Tailgate Safety meeting.
 Ops today include heat tent house & items, & possibly clearance.
 Temps inside house between 70 & 75°F.

0840 House screening
 living room 850 ng/m³
 Den 832 ng/m³
 master bedroom 738 ng/m³
 girl's room 812 ng/m³

1000 House Screening
 living room 1,100 ng/m³ 69°F
 Den 1075 63°F
 master bedroom 1080 54°F
 girl's room 1175 59°F

1020 Action items: Remove washer from laundry room; Seal off Shower drain; Seal return in girl's room; Seal up girl's room, bathroom, & laundry room; turn heat back on.

1100 House closed. Will screen again around 1200.

Quikley 2/21/15

Scale: 1 square =

Rite in the Rain

2/21/15

1200 House Screening ① Clearance
 living room 835 ng/m³ 75°F
 Den 812 ng/m³ 76°F
 basement 716 ng/m³ 79°F
 upstairs hall 849 ng/m³ 76°F
 master bedroom 723 64°F
 girl's bathroom 838 68°F
 girl's room 739 ng/m³ 60°F

1300 house screening ② ng/m³ Clearance
 living room = 913 @ 77°F
 den 833 ng/m³ @ 73°F
 basement 842 ng/m³ @ 77°F
 upstairs hall 875 ng/m³ @ 70°F
 master bedroom 729 ng/m³ @ 66°F
 girl's bathroom 867 ng/m³ @ 67°F
 girl's room 738 ng/m³ @ 59°F

1400 House screening ③ Clearance
 living room 888 ng/m³ 72°F
 den 843 ng/m³ 70°F
 basement 837 ng/m³ 71°F
 upstairs hall 814 ng/m³ 71°F
 master bedroom 717 ng/m³ 59°F
 girl's bathroom 872 ng/m³ 68°F
 girl's bedroom 735 ng/m³ 58°F

Scale: 1 square =

Quikley 2/21/15

2/21/15¹¹

1500 House Screening ④ Clearance
 living room 1,100 ng/m³ 75°F
 den 1,019 ng/m³ 73°F
 basement 1,058 ng/m³ 74°F
 upstairs hall 1,054 ng/m³ 73°F
 master bedroom 905 ng/m³ 58°F
 girl's bathroom 1,062 ng/m³ 65°F
 girl's bedroom 896 ng/m³ 59°F

1600 House Screening ⑤ Clearance
 living room 1,082 ng/m³ 77°F
 den 1,014 ng/m³ 76°F
 basement 1,016 ng/m³ 76°F
 upstairs hall 1,062 ng/m³ 74°F
 master bedroom 879 ng/m³ 63°F
 girl's bathroom 1,071 ng/m³ 69°F
 girl's bedroom 896 ng/m³ 58°F

The 5-hour average is below the 1,000 ng/m³ threshold. Activities inside the house are complete. A final determination on the items removed from the house was made. See the inventory for specific items either returned or disposed.

Scale: 1 square =

Quikley 2/21/15

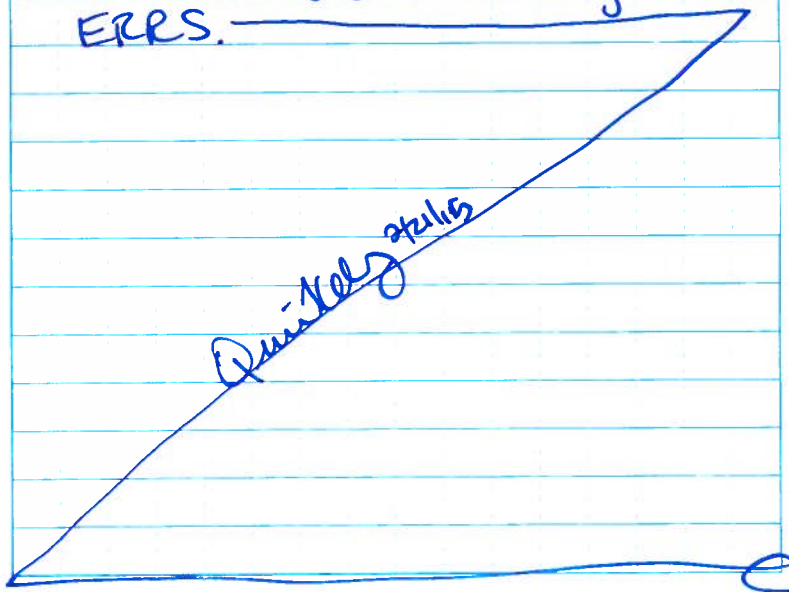
Rite in the Rain

2/11/15

1700 After ERPS finished cleaning the house, START took final pictures. The residents were on site to look at the items that will be disposed. Certain items with sentimental value were removed from the bags and placed into the heat tent in an effort to save them.

1830 The rolloff truck arrives to pick up the disposal items.

1900 START demobs along with ERPS.



Scale: 1 square = _____

510 Cove Rd

03/02/15

0800 TT Pys & Owens arrive at 510 Cove road

0810 Luxe test reads R% = 17 #149 EPA #A35739

0822 initial screening of house at front door
6,000, 7,000 ng/m³

Living room 8,500 ng/m³

upstairs BR 1 8,250 ng/m³

exercise room 7,800 ng/m³

upstairs bedroom 1 8,300 ng/m³

upstairs bedroom 2 33,000 ng/m³

downstairs entrance 4,400 ng/m³

laundry room 8,000 ng/m³

downstairs playroom 6,400 ng/m³

downstairs bedroom 8,000 ng/m³

washer 43,000 ng/m³

garage 6,500 ng/m³

0915 second screening of house

Living room 800 ng/m³

kitchen 670 ng/m³

upstairs BR 700 ng/m³

Exercise room 1,300 ng/m³

upstairs bedroom 1 1250 ng/m³

upstairs bedroom 2 18,000 ng/m³

0930 ERPS bringing items bagged out of hot bedroom

Scale: 1 square = _____

Rite in the Rain

SIO LOVE RD

3/02/15

1000 Bagged items placed in heating test
for heating/venting

1123 Leave for lunch

1210 Back from lunch

1220 Screening and marking bags

Bag 001 39,700 g/m^3 Bag 002 >50,000 g/m^3 Bag 003 >50,000 g/m^3 Bag 004 >50,000 g/m^3 Bag 005 4,400 g/m^3 Bag 006 23,000 g/m^3 Bag 007 >50,000 g/m^3 Bag 008 15,000 g/m^3 Bag 009 55 g/m^3 >50,000Bag 010 >50,000 g/m^3 Bag 011 47,000 g/m^3 Bag 012 >50,000 g/m^3 Bag 013 >50,000 g/m^3

1250 Switched Luxon to 834 BA# A80190

Ant Bag 014 12,000 g/m^3 (mattress)Bag 015 48,000 g/m^3 Bag 016 47,600 g/m^3 Bag 017 >50,000 g/m^3 washer >50,000 g/m^3

Scale: 1 square = _____

SIO LOVE RD

3/02/15

1256 Closed up house / shut off HVAC

1326 Screen furniture

Bag 018 1,900 g/m^3 Bag 019 8,500 g/m^3 Bag 020 3,400 g/m^3 Bag 021 8,400 g/m^3 Bag 022 2,500 g/m^3 Bag 023 29,000 g/m^3 Bag 028 1,500 g/m^3 Bag 024 8,000 g/m^3 Bag 025 3,200 g/m^3 Bag 026 26,000 g/m^3

1340 Screening of house

Front Door 3,150 g/m^3 Living room 3,000 g/m^3 upstairs bathroom 1,200 g/m^3 center 1,000 g/m^3 Exercise room door 550 g/m^3 center 640 g/m^3 master bedroom at door 1250 g/m^3 center 1020 g/m^3 bedroom 2 door 1230 g/m^3 center 600 g/m^3 bedroom 2 closet 4,750 g/m^3 hall closet 2,000 g/m^3 door to downstairs 2700 g/m^3 laundry room 2,600 g/m^3 downstairs bedroom 2,400 g/m^3 at door 2700 at center

Scale: 1 square = _____

Rite in the Rain

SIO CREEK RD

3/2/15

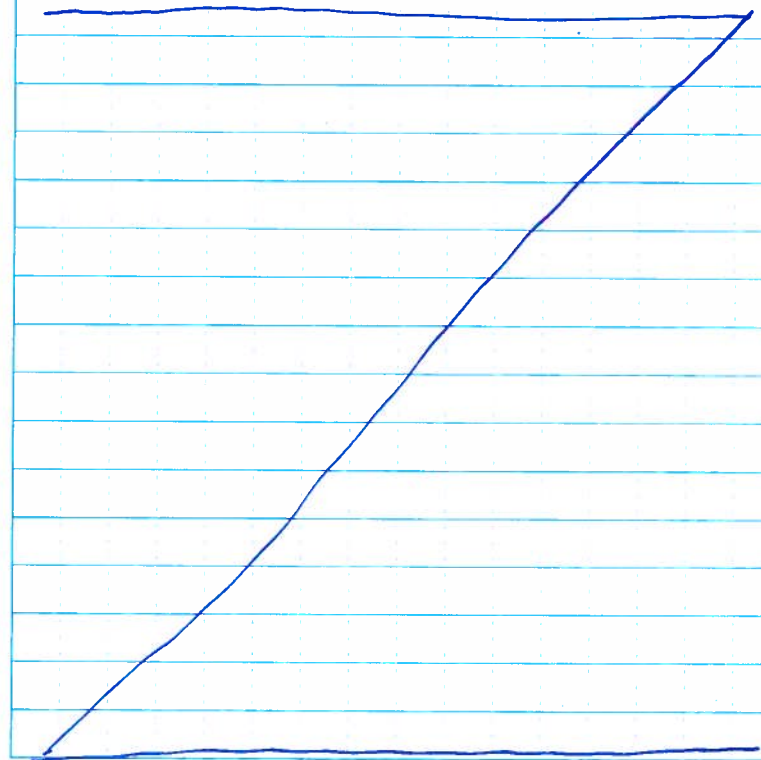
playroom 1,800 $\mu\text{g}/\text{m}^3$
 master bedroom at base of the door 3,300 $\mu\text{g}/\text{m}^3$
 master bedroom bed spread 1,400 $\mu\text{g}/\text{m}^3$
 master bedroom slippers 3,200 $\mu\text{g}/\text{m}^3$
 master bedroom dresser 2,700-3,500 $\mu\text{g}/\text{m}^3$
 master bedroom closet 6,300 $\mu\text{g}/\text{m}^3$
 1445 Post merc-vac screening
 Front Door 1,330 $\mu\text{g}/\text{m}^3$
 upstairs bedroom 2 (source) 1,680 $\mu\text{g}/\text{m}^3$
 upstairs bedroom 2 closet 2,000 $\mu\text{g}/\text{m}^3$
 spots on the floor as high as 6,500 $\mu\text{g}/\text{m}^3$
 Carpet gripper strips are going to be ripped up
 in source room. strip across from closet reads
 6,500 $\mu\text{g}/\text{m}^3$. All other strips are $\sim 870 \mu\text{g}/\text{m}^3$
 Carpet gripper strips in closet $\sim 1,800 \mu\text{g}/\text{m}^3$
 Strips in the hallway 650-1,000 $\mu\text{g}/\text{m}^3$. Floor
 in the hall 1,000-1,500 $\mu\text{g}/\text{m}^3$.
 1540 screening of house after carpet vac removed, vaced
 and soaked
 upstairs source bedroom 1,550 $\mu\text{g}/\text{m}^3$
 spots where the carpet vac was previously
 6,500 $\mu\text{g}/\text{m}^3$ are now 1,800-2,500 $\mu\text{g}/\text{m}^3$
 closet floor 2,200 $\mu\text{g}/\text{m}^3$
 hall ambient 1,900 $\mu\text{g}/\text{m}^3$

Scale: 1 square = _____

SIO CREEK RD

3/2/15

upstairs hallway 1,300 (door to source room) to 800
 (stairway)
 downstairs playroom 1,700 $\mu\text{g}/\text{m}^3$
 1600 doors opened and fans placed in the
 house for venting overnight. Filter for HVAC
 removed. Doors & windows locked. Fan set
 to On and temp set to 90°F
 1630 EPA & START demo Pan SIO creek rd.



Scale: 1 square = _____

Rite in the Rain

510 CAVE RD

3/3/15

0800 START PAYS AND CERM DORRY / ED/EX
on site. WARMED up LUMEX #834
(EPA # A80190) AND CHECKED CALIBRATION
R% = 3.

0815 START CONDUCTED SCREENING OF HOUSE.
HOUSE WAS CLOSED AND HEAT WAS TURNED
UP TO 90°F. ONLY UPSTAIRS BEDROOM
2 REMAINED WITH AN OPEN WINDOW ^(PP)
WITH A BOX FAN FOR EXHAUST. THE HOUSE
WAS 80°F UPON ENTRY AND SCREENING
READINGS ARE AS FOLLOWS:

- AT FRONT DOOR 3400 ng/m³
- LIVING ROOM (CENTER) 7300 ng/m³
- UPSTAIRS BEDROOM 2 AT DOOR 3900 ng/m³
- UPSTAIRS BEDROOM 2 (CENTER) 3850 ng/m³
- CHILD'S ROOM (CENTER) 4300-4400 ng/m³
- LOWER STAIRWELL AREA 1000-1100 / 1700-1800 ng/m³

0900 START CONDUCTED SCREENING OF HOME
TO CHECK CURRENT AMBIENT LEVELS:

- DOWNSTAIRS baby RM 700-800 ng/m³
- LOWER STAIRS (FLOOR) 400-500 ng/m³
- LIVING RM (COUCH SEAM) 1500-5000 ng/m³
- LIVING RM (FLOOR-NEAR WINDOW) 6000 ng/m³
- KITCHEN FLOOR ^(PP) AMBIENT 100-400 ng/m³

Scale: 1 square



510 CAVE RD

3/3/15

0900 (cont)-Kitchen Floor 350-450 ng/m³

- upstairs bathroom trash can > 50,000 ng/m³
- upstairs bathroom floor 600-700 ng/m³
- ~~upstairs closet floor 800-900 ng/m³~~ ^(PP)
- upstairs bedroom 1 closet floor 800-900 ng/m³
- upstairs bedroom 1 perimeter floor 450-850 ng/m³
- upstairs bedroom 1 door threshold 1200-1800 ng/m³
- upstairs bedroom 1 floor 900-2000 ng/m³
- downstairs parents RM ambient 725 ng/m³
- downstairs parents RM floor 1700-1800 / 2000-2900
- downstairs baby RM floor 500-1000 ng/m³

0930 OSC BERRY TACKLED ER TO REMOVE ALL

ITEMS AND CLOTHING AND CARPET INCLUDING
TACK STRIPS FROM ^(PP) THE UPSTAIRS LIVING ROOM
~~UPSTAIRS BEDROOM 1~~ ^(PP). ER WAS ALSO TASKED WITH
REMOVING THE CARPET, TACK STRIPS, AND
COUCHES. FLOORS WERE TO BE SWEEPED WITH
MERCURY VACUUM AND MAPPED WITH
A MERCURY ABSORBANT SOLUTION. ALL
ITEMS WERE WRAPPED/BAGGED AND STAGED
IN THE GARAGE WHERE THEY WERE
HEATED AND VENTED.

1130 EPA AND START AT LUNCH FOR 30 MIN.

1230 CONDUCTED SCREENING IN DOWNSTAIRS

Scale: 1 square



510 CNE RD

3/3/15

1230 (cont) living room AREA. Readings in ng/m^3

- Ambient 1700
- couch (GREEN) 1000-1400
- minnie mouse chair 1200
- easy chair (GREEN) 1800-2200
- floor carpet 1400-12,000
- downstairs parents Rm 1040

1330 SCREENED DOWNSTAIRS ^{living} ~~parents~~ ^(M) Room.Ambient levels were 3600 ng/m^3 1345 SCREENED DOWNSTAIRS baby Room AND PARENTS ROOM. RESULTS WERE 1400 ng/m^3 AND 1450 ng/m^3 RESPECTIVELY.1430 SCREENED bagged items AFTER heating AND venting that WERE stored in the garage. Readings in ng/m^3 .

- Bag 028 3100
- Bag 029 2600
- Bag 030 19,500
- Bag 031 2500
- Bag 032 >50,000
- Bag 033 11,600
- Bag 034 5200
- Bag 035 7800
- Bag 036 6000

Scale: 1 square =

510 LOVER RD.

3/3/15

1430 (cont) Bag 037 >50,000

- Bag 038 6900
- Bag 039 35,000
- Bag 040 3300
- Bag 041 3000
- Bag 042 3600
- Bag 043 9350
- Bag 044 15,050
- Bag 045 >50,000
- Bag 046 6550
- Bag 047 12,500
- Bag 048 >50,000
- Bag 049 >50,000
- Bag 051 >50,000

1600 SCREENED living room couch AND ottoman. RESULTS WERE 5300-6300 AND 41,000 RESPECTIVELY.

1715 START AND EPA INVENTORIES ITEMS IDENTIFIED FOR DISPOSAL. SEE FIELD SHEETS FOR ITEM DESCRIPTIONS, bag numbers, mercury levels, AND photo numbers.

1830 FRED MARTUS ARRIVED AT HIS HOME TO look at all of the items identified for

Scale: 1 square =

Rite in the Rain

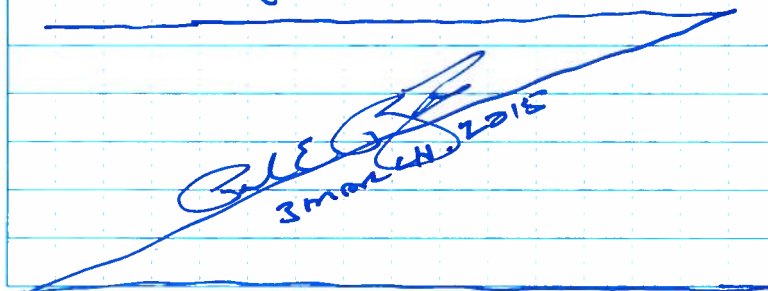
SIO COVERD

3/3/15

1830 (cont) Disposal. He looked at everything but Will's belongings. EPA also updated Mr. Mortus on removal activities and led him on a tour of the house.

1900 EPA tasked START with removing the clothes from the dresser, the queen size foam mattress and blanket from bed, and dog blankets/pillow. Items were staged in the upstairs hallway. EPA and START closed and locked all windows. The thermostat was turned up to 90°F to heat the house overnight. The window in Nolan's room (upstairs bedroom 1) remained open with a box fan in it exhausting out.

1930 EPA locked the house and EPA and START departed the site.



Scale: 1 square = _____

SIO COVERD

3/4/15

0800 START Pays and EPA Berry and Englehart on site. ER personnel also on site.

START Pays warmed up Lumex unit 834 (EPA A90190) and check calibration (K7.02)

0915 START Pays and EPA Berry entered to house to conduct a pre-test cleaning. ^(RP) screening. Temp in the house was 81°F by the home thermostat. All readings in ng/m³.

- At door entrance 2200
- Living Rm/Kitchen 2550
- Upstairs bedroom 1 (Nolan) 1350
- Upstairs bedroom 2 (master) 1770
- Exercise room 1800
- Downstairs parents Rm 2300
- Downstairs baby Rm 3000
- Downstairs living Rm 4000
- Laundry room 3200

Conducted additional screening in downstairs living room at floor

TV	Wall 1	3000-3200
①	Wall 2	2700-3000
②	Wall 3	2700-3000
③	closet floor perimeter	1800-2000

Scale: 1 square = _____

Rite in the Rain

SIO CAFE RD

3/4/15

0815 closet floor 1800-2000

Room floor 700-1200

0830 STARTED VENTING THE HOUSE.

0910 SCREENED bags from the upstairs
bedroom 2 (master). Readings in ng/m^3 .

Bag 056 750,000

Bag 057 44,000

Bag 058 1100

Bag 059 5200

Bag 060 4900

0920 SCREENED upstairs bathroom while
house was venting. Readings in ng/m^3

- Baby bath canopy 100-200

- Ambient 200

- Sink drain 1500

- bath tub drain 1000 spikes to 3000

SCREENED home. Readings in ng/m^3 .

- Living Rm (center) 110

- upstairs Bedroom 2 (Nolan) 40

- upstairs Bedroom 1 (master) 300

- EXERCISE ROOM 116

- downstairs parents Rm 300

- downstairs baby Rm 280

- downstairs living Rm 40

Scale: 1 square

Cal 2 

SIO CAFE RD

3/4/15

0955 CONDUCTED ADDITIONAL SCREENING OF
HOUSE. Readings in ng/m^3 .

- Living Room 170

- EXERCISE ROOM 120

- upstairs Bedroom 2 (Nolan's) 20

- upstairs Bedroom 1 (master) 220-230

- downstairs parents Rm 200

- downstairs baby Rm 170

- downstairs living Rm 30

READINGS WERE TAKEN WHILE HOUSE WAS
STILL VENTING.

1010 OSC BERRY SCREENED ADDITIONAL BAGS.

Bag 061 (walker) 2200 ng/m^3 Bag 062 (fat burner) 5500 ng/m^3 ER MOVED BAGS FROM LAUNDRY ROOM TO
GARAGE. SCREENED THE WASHER DRAIN:
900-1000 ng/m^3 .1050 PRE-TEST SCREENING. READINGS IN ng/m^3 .

- Living Rm/Kitchen 550

- EXERCISE ROOM 280

- upstairs Bedroom 2 (Nolan) 420

- upstairs Bedroom 1 (master) 404

- downstairs parents Rm 820

- downstairs baby Rm 720

- downstairs living Rm 420

Scale: 1 square =

SID COVE RD

3/4/15

1110 Conducted additional screening outside
downstairs baby room. in HVAC ROOM.

Readings in ng/m^3 .

- Floor perimeter 1000-3000
- Ambient 1000-1100
- Floor at baby Rm door 2400-5000
- Floor rest of room 1000-1600

SCREENED LAUNDRY ROOM.

- Ambient 1300-1400
- Floor perimeter 1000-1300
- Rest of floor 900-1300

1135 START PRYS AT LUNCH FOR 45 MIN. WHILE
GONE, house was closed up to check
mercury concentrations upon return.

1220 WARMED UP LUMEX. R70 = 4. Conducted

screening of house. Temp upstairs:
73°F. Temp downstairs: 65°F. (ng/m^3)

- Living Rm/Kitchen 1530
- EXERCISE ROOM 400
- upstairs BEDROOM 2 (Nolan) 800
- upstairs bedroom 1 (master) 300
- downstairs parents Rm 1300
- downstairs baby Rm 1380
- downstairs living Rm 1300

Scale: 1 square =

Gallegos

SID COVE RD

3/4/15

1220 (cont) - HVAC Rm (Rm o/s of baby Rm) 1900

- Laundry room 2700/1040

OSC BERRY tacked ER to REMOVE THE
CARPET IN THE DOWNSTAIRS PARENTS ROOM
AND THE HVAC ROOM (ROOM OUTSIDE OF
THE BABY ROOM). ER ALSO REMOVED THE
LINOLEUM FROM THIS LAUNDRY ROOM.

AFTER REMOVAL WAS COMPLETED, FLOORS
WERE SWEEP WITH A MERCURY VACUUM
AND MOPPED WITH A MERCURY ABSORBANT
SOLUTION.

1310 START SCREENED 2 more bags.

BAG 063 4000 ng/m^3

BAG 064 37,000 ng/m^3

SCREENED upstairs bedroom 1 (master)
1620 ng/m^3 .

1330 WILL MARTIN ARRIVED AT THE HOUSE TO
LOOK OVER PERSONAL ITEMS. SCREENED
AND RETURNED SOME ITEMS. WILL
INFORMED OSC BALL THAT HE, GIRLFRIEND,
AND BABY WOULD NOT BE MOVING BACK
INTO THE HOUSE. OSC BALL INFORMED
WILL THAT ALL RETURNED ITEMS NEEDED
ADDITIONAL VENTILATION AND NEEDED

Scale: 1 square =

Gallegos *Rite in the Rain*

510 CLEVELAND RD

3/4/15

1330 (cont.) to be kept away from the baby.

1410 CONDUCTED ADDITIONAL SCREENING of the house. Temp upstairs was 73°F.

- Living Room/Kitchen	1800
- EXERCISE ROOM	680
- Upstairs Bedroom 2 (Nolan)	950
- Upstairs Bedroom 1 (master)	2750
- Downstairs parents room	1340
- Downstairs baby room	1400
- HVAC Room	1340
- Laundry Room	1250
- Downstairs living room	1175

1425 OSC BERRY AND BAIL DISCUSSED the SCREENING results with ATSDR. BASED on the discussion with WILL FORTUS AND they AND the baby would not be moving back in, ATSDR is expected to INCREASE the clearance values to 2000-3000 ng/m³. Final values from ATSDR ARE expected later today. START AND EPA CLOSED up the house AND set the TEMP at 73°F.

1445 OSC BERRY conducted closed bay screening of DANGER: 2008 ^{PM} ng/m³.

Scale: 1 square = 

510 CLEVELAND RD.

3/4/15 3/4/15


1500 EPA AND START began clearances

SCREENING of home. SEE pg 30 of this logbook for SCREENING results.

SCREENED plastic bin OLC: 6200 ng/m³.

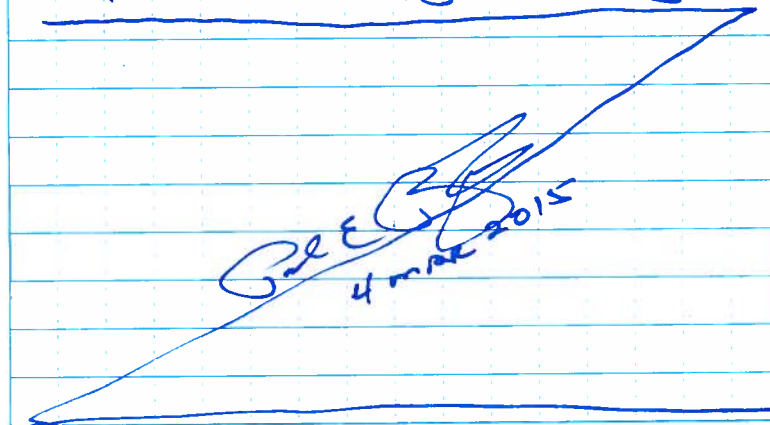
Placed the bin INSIDE of the garage.

Packed up AND SCREENED EPA equipment.

SENT EPA AND START equipment  with ER to Apache Trail home.

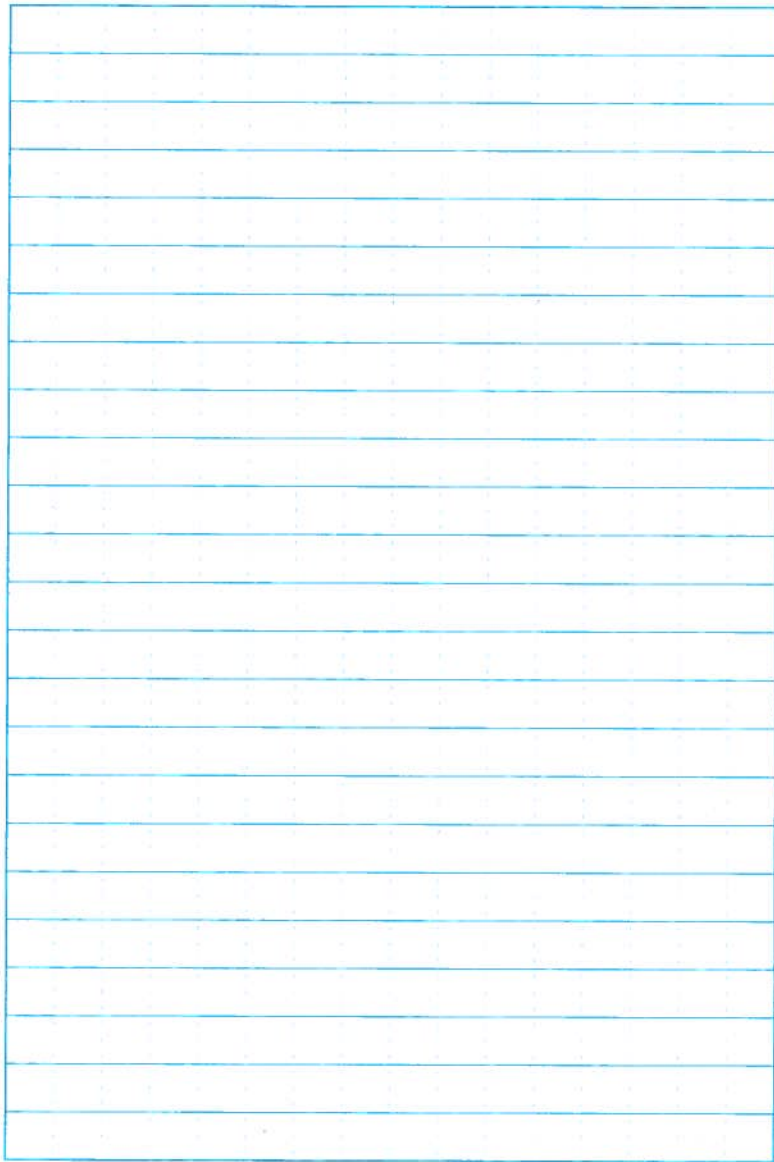
1900 CLEARANCE sampling completed. After 5 readings. EPA closed up AND locked the house.

1930 EPA AND START off-site. START DROPPED of equipment to START Apache TRAIL CREW for use at that site. House floor plan located on pg 31 of this logbook.

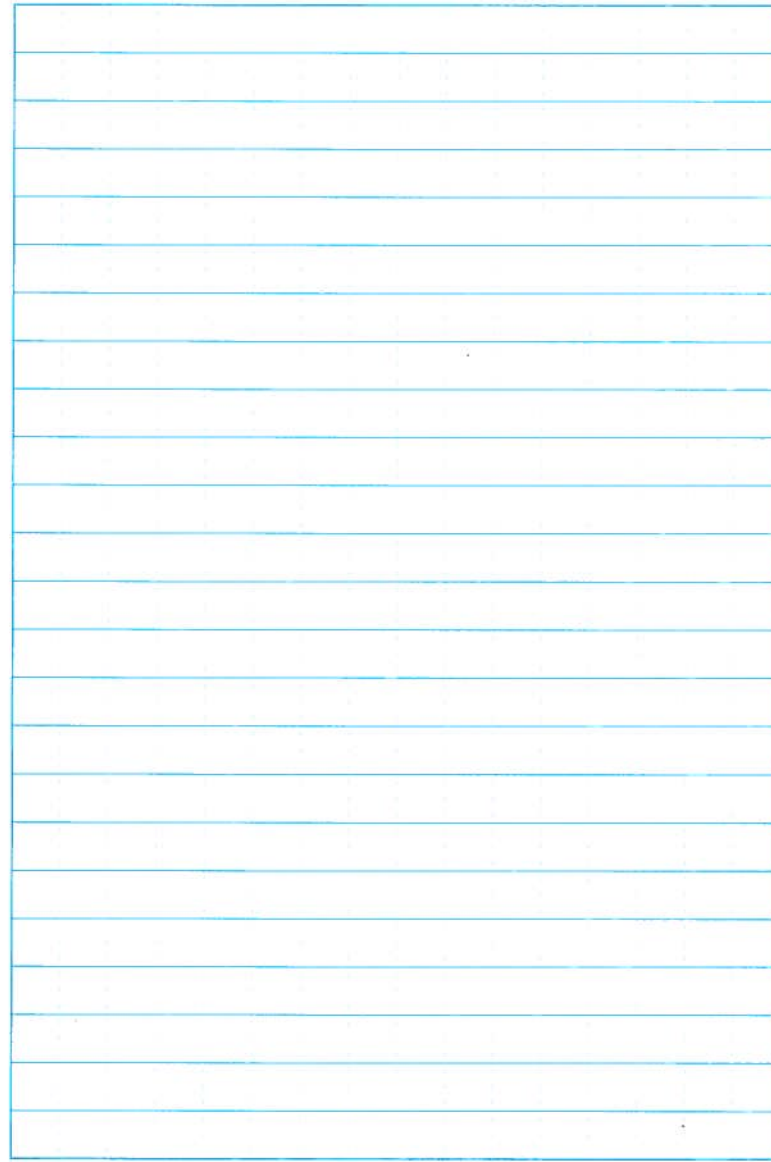


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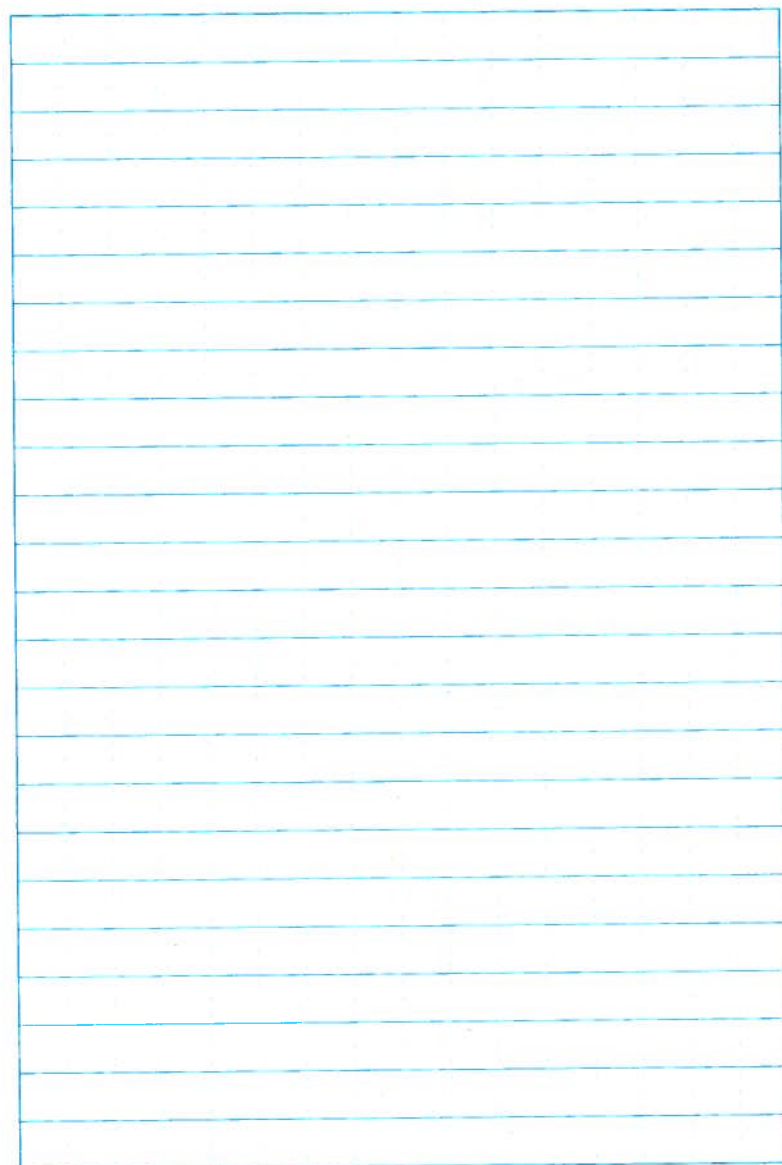


Scale: 1 square = _____



Scale: 1 square = _____

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Scale: 1 square = _____



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SYCAMORE POINT MERCURY

Logbook # 02



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Nº 371

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PAGE

REFERENCE

DATE _____

2/20/15

B. Craft

- 0950 START Craft onsite @ 525 Sycamore Pt.,
Woodstock, GA - meet w/ OSC Ball & Tt Q. Kelly &
C. Owens
- ER removing personal items from daughter's bedroom

1130 outside of OSC Ball

1230 arrive @ school - Ace Academy

- GA EID (-2) Cleat, Hugh
- Cherokee School Supervisor or Maintenance
- conduct initial Hg screening using Lunex RA-7154
(serial # A20189) → %R = 2

background rdgs in parking lot = 10-15 ng/m³

outside temp = 29°F

locker 217 = 500-900 ng/m³ (inside on books)

Locker 348 - background

Rm	Rdg	Rm	Rdg	Rm	Rdg
115	background	209	background	303	background
108	↓	218	↓	309	↓
114	↓	205	↓	boys	↓
119	↓	206	↓	booth	↓
112	↓	201	↓	girls	↓
boys	↓	boys	↓	booth	↓
booth	↓	girls	↓		↓
girls	↓	booth	↓		↓
booth	↓		↓		↓

celebraria background
principal's office = 105 ng/m³
main hall = 105 ng/m³
→ trash can = 4000
vacuum = 2000
1 cabinet closet (hall) = 2000 ng/m³
map = 120
vacuum = 150

Scale: 1 square = OSC 2/20/15

2/20/15

B. Craft

1445 return to 525 Sycamore Pt.

1715 START Craft offsite

LATE NAME: OSC

Scale: 1 square =

OSC 2/20/15

Rite in the Rain

2/22/15

1600 meet @ 624 Apache Trail, Winkstock, GA
w/ OSC Paul

- Jimmy & Jennifer Duggard

- beads of mercury visible in driveway & yard

Jeane readings @ top deck bar to house:

"HL" = $> 1 \text{ mg/m}^3$

- ER arrived onsite to initiate cleanup activities

- using mercury vacuum on Apache Trail

road surface to pick up visible mercury

- used traffic cones & caution tape to

isolate primary impacted area

2200 START Craft offsite

OSC 2/24/15

Scale: 1 square = _____

2/23/15

B. Craft

① 855 START Craft & Vicer arrive @

Apache Trail residence

ER continues mercury vacuum ops in Apache Trail,
roadside ditch, & driveway

- also using shop vacuums

- shoveling larger quantities from soil areas
into drums

Scale: 1 square = _____

Rite in the Rain

$$6 \quad 2 \mid 23 \mid 15$$

B. Craft

1430 begin residential screening ^{Time}

626 Apache Trail Michael ~~DeF~~ Lawrence
max $\rho_g = 105 \text{ ng/m}^3$

622 Agave Trail

$$\text{max } \rho_g = 149 \text{ kg/m}^3$$

619 Apache Trail

$$\text{max } r_d = 21 \text{ ng km}^{-3}$$

621 Apache Trail = Doug Mosley

- he did not want interior of house

Scored- exterior max $\rho_y = 8 \text{ ng/m}^3$

61B Apache Trail

$$\text{max } r_{dy} = 54 \text{ ng/m}^2$$

6th Apache Trail

$$\text{max } \rho_j = 48 \text{ g/m}^3$$

6.13 Apache Trail

$$\rho_{\text{avg}} = 37 \text{ kg/m}^3$$

615 Apache Trail

max $\sigma_y = 44 \text{ kg/m}^2$

628 Apache Trail

- declined monitoring - deferred to results

hem letle Agache trail

1845 offside

BSC 2/20/15

Scale: 1 square = _____

2/24/5

B. Court

0750 ~~SECRET~~ Craft = Vespene cruiser @ Apache Trail location

ER personnel properly equipment for application of Decen Gel = pilot test - will use tapered heaters to melt snow and prepare areas for application

1120 ER has closed school from

Area 1 (on Apache Trail asphalt) - Southhill

$$L_{\text{max}} = \max \rho_d = 4.100 \text{ ng/m}^3$$

Area 2 (day edge of asphalt)

$$\text{max vol} = 11,400 \text{ ng/m}^3$$

Area 3 (on Apache Trail) - uphill

max. rdy = 2200 ng/m³

note: initial temp of road surface = 44°F

1200 Decol Gel applied - begin set time

1400 conduct residential screening

617 Apache Trail

$$\text{max } r_{dy} = 28 \text{ ng/lm}^3$$

Ek continues application of Decon Gel - testing in a new area of driveway near house

1530 conduct residential screening @

6/11 Apache trail (home of Jacob Smith & Thos Smith - boyfriend of Toni)



Scale: 1 square = 650

Rite in the Rain

2/24/15

B. Craft

Inside house readings:

- Jacob's bedroom = $2,600 \text{ ng/m}^3$
- Scuba room = $1,050 \text{ ng/m}^3$
- rest of house < $1,000 \text{ ng/m}^3$

exterior of house:

- Cycle trailer @ front = $> 50,000 \text{ ng/m}^3$
 ↳ carpet from Scuba room
- back of tanks > $50,000 \text{ ng/m}^3$
 ↳ back porch
- washing machine = $40,000 \text{ ng/m}^3$

note: Tom Smith to throw out boxes removed
 from Jacob's room & house

1751 Screen wipe samples from road

Area 1 = $32,700 \text{ ng/m}^3$ Area 3 = $> 50,000 \text{ ng/m}^3$

1752 Depart site

~~from Varnen~~~~2-24-15~~

Scale: 1 square = _____

2-25-15

11:00 Arrive at 510 Love Rd to
 screen. The house is the residence
 of grandsons of the Daggar
 family

Living Room - $16,500 \text{ ng/m}^3$ Kitchen - $18,300 \text{ ng/m}^3$ Nolan's BR - $37,000 \text{ ng/m}^3$ Parent's BR - $18,000 \text{ ng/m}^3$ Basement - $17,500 \text{ ng/m}^3$ Washing Machine - $> 50,000 \text{ ng/m}^3$ Will's BR1 - $17,500 \text{ ng/m}^3$ Will's BR2 - $17,500 \text{ ng/m}^3$

1130 EPA & Health Dept discuss options
 for cleanup.

Homeowner will contact EPA with
 a decision

1300 Demobilize

~~from Varnen~~~~2-25-15~~

Scale: 1 square = _____

Rite in the Rain

2-27-15

0800 START BU & TT on site, and OSC and 6 ERRS

Tasks for the day include

- prepping the road for decongel
- removing mercury from under the stairs to the deck
- drying decongel on driveway near garage

1430 Mr. Mortus gives permission to conduct removal at 510 Cove Rd

1700 - Decon Gel applied to roadway in front of residence

- 10'x10' area near garage is covered with decongel
- Approximately $\frac{1}{3}$ cup of mercury recovered from under steps; along with 6 bags of mercury contaminated soil

1800 the gel is setting up on the road but not really on the driveway. OSC Ball decides to encapsulate the mercury on the driveway with latex paint and dispose at the end of the job

Scale: 1 square =

By [signature] 2-27-15

2-28-15

0800 START BU & TT on site. OSC Ball and 6 ERRS

0830 - ERRS begins applying paint to the driveway and continues free mercury removal under the stairs.

- START & OSC search for reported hidden mercury behind neighbors house but do not find any.

- START & OSC search for mercury at 515 Cherokee Mills Rd but find no elevated levels

- Property management group for 510 Cove Rd signs access agreement.

0945 ERRS completes painting of driveway

1315 - ERRS begins removing decongel from roadway.

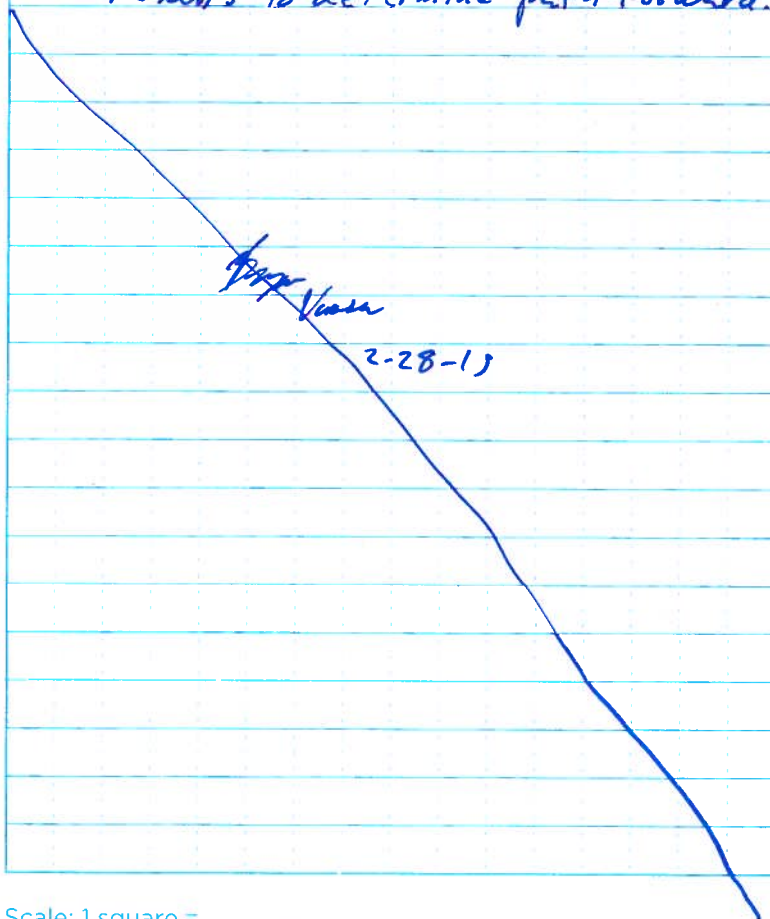
- START begins a test for transmissible mercury on the road, driveway, and yard. START dons yellow booties and then tyvek booties. Tyvek booties are changed between sampling areas.

Scale: 1 square =

By [signature] 2-28-15
Rite in the Rain

2-28-15

1700 Results of the transferable mercury test indicate potential mercury contamination on all driveway and road surfaces. More testing is required prior to interpretation of results to determine path forward.



Scale: 1 square = _____

3-1-15

0900 START HM, BV, TT on site. OSC Bell and 6 ERRS. Safety Briefing

0900 Rolloff container arrives.

ERRS begins staging heat tent and decon area

EPA and START enter house.

Jerome readings in $\mu\text{g}/\text{m}^3$

Back door way 76 $\mu\text{g}/\text{m}^3$

Mother in law suite 153 $\mu\text{g}/\text{m}^3$

Garage 36 $\mu\text{g}/\text{m}^3$

shop vac 1 613 $\mu\text{g}/\text{m}^3$

shop vac 2 145 $\mu\text{g}/\text{m}^3$

5-gal bucket HL > 999 $\mu\text{g}/\text{m}^3$

Opened 3 doors and 1 window upstairs

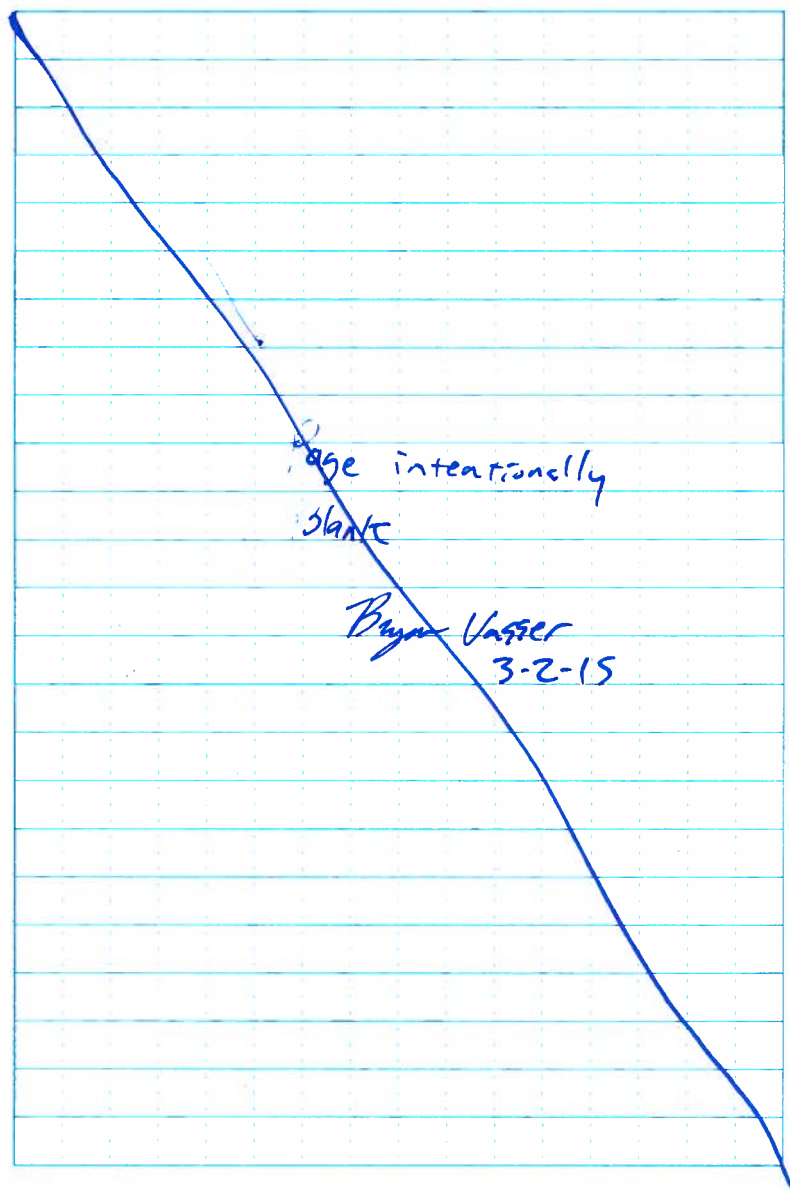
opened the garage doors and 2 windows downstairs for ventilation

A door separates the upstairs and downstairs and will stay closed for now to limit air flow from the basement up the stairs. Staging and preparation continues throughout the day.

~~Vapor/Vacuum~~ 3-1-15

Scale: 1 square = _____

Rite in the Rain



Scale: 1 square = _____

3-2-15

0800 START HM, BV, TT on site, 5
ERRS and OSC Ball today

0830 ERRS begins vacuuming mercury
on the tile portion of the downstairs
and removing items from the garage.
When removing items they are bagged
and then screened by START with
the Lunex, inventoried, and photographed.
1145 ERRS has completed ~90% of gross
decon in the basement living area.

Most bags have screened
>50,000 ng/m³ without waiting
the typical 15 minutes. Those
bags are being inventoried and
disposed of. Items identified
by the homeowner as sentimental
or deemed during inventory to
be potential heirlooms or sentimental
items are being saved to discuss
disposal with the homeowner.

1815 START demobes

Byron Vasser

3-2-15

Scale: 1 square = _____

Rite in the Rain

3-3-15

0800 START BV, TT, and BC on site.

GERRS and OSC Ball are onsite

0830 START and EPA screen the house at 624 Apache Trail.

0915 ERRS begins removing items from the garage again.

0930 EPA OSC Ball, EPA Glenn Adams, and START BV attend a conference call to discuss cleanup alternatives - Sulfur with sweeping agitation is recommended for cleaning the road.

1100 Arrive at Gwinnett County School Bus Yard and screen buses that transport kids that were involved in the spill. All buses were clean. Bus 532 was screened as specifically requested by a neighbor on Apache Trail.

1400 OSC Ball coordinates with ATSDR regarding the maximum cleanup level for 510 Love Rd.

1800 Demobe site

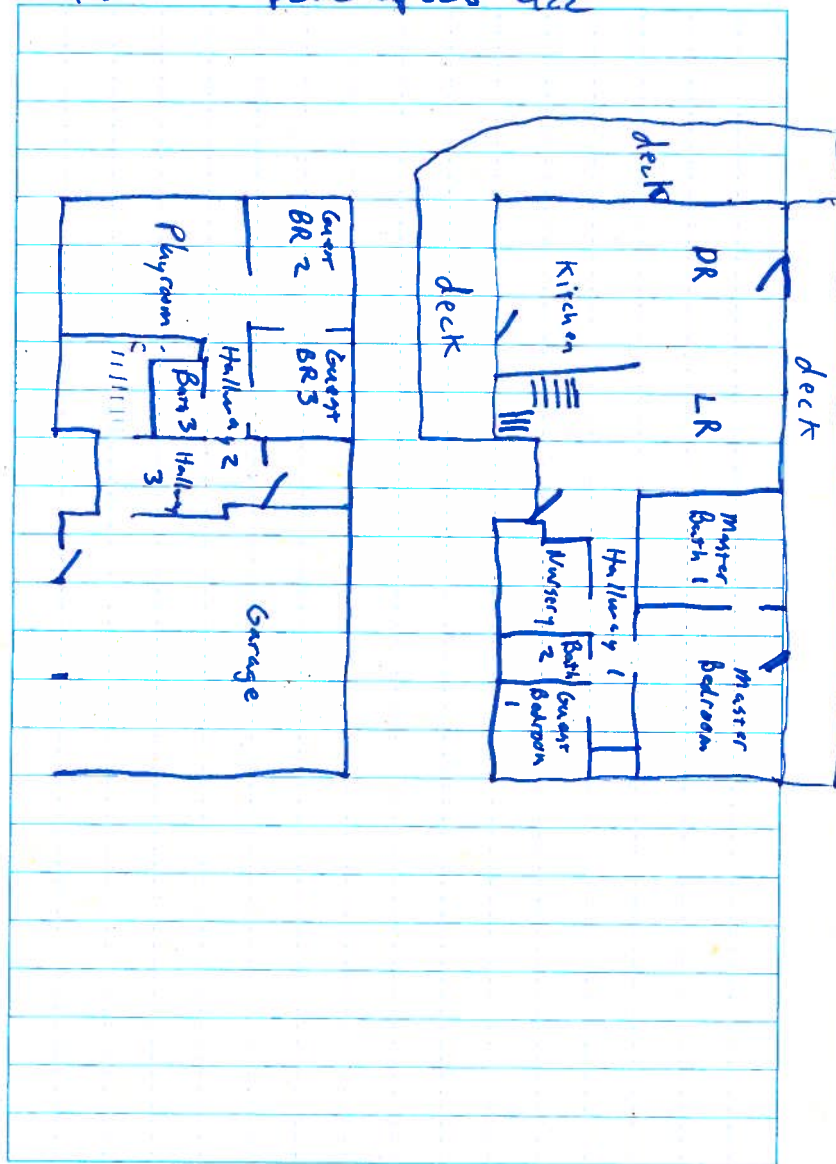
~~Page 16~~ 3-3-15

Scale: 1 square = _____

Scale: 1 square = _____

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Will & Alcega - picked up cab 2/22



Scale: 1 square = _____

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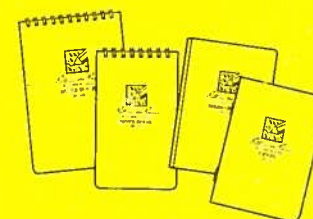
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