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United States Environmental Protection Agency
Region 4



35TH AVENUE REMOVAL INVESTIGATION
BIRMINGHAM, ALABAMA
JEFF CROWLEY, ON-SCENE COORDINATOR

FIELD SAMPLING LOGBOOK

Book ____ of ____

Inclusive Dates: 11/8/12 -

List of Sampling Team in logbook:

Name	Initials	Organization/Duties
(b) (6)		_____, Team Leader

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Sampling Procedures and Methodology

Unless specified elsewhere in this logbook, all soil samples will be collected in accordance with the EPA Science and Ecosystem Division (SESD) Field Branches Quality System and Technical Procedures (FBQSTP) Soil Sampling (SESDPROC-300-R2) based on the following design.

The total number of 5-point composite surface soil samples (0-4 inches below ground surface) to be collected from each property will be based on the lot size as follows:

- For residential properties with a total parcel lot size equal to or less than (\leq) 5,000 square feet - the front yard and back yards of each property. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may also be collected from the side yard. Aliquots will be collected away from influences with drip lines and burn areas in a five dice configuration (each of the four corners and the center).
- For residential properties with a total parcel lot size greater than ($>$) 5,000 square feet and $\leq \frac{1}{4}$ -acre - the property should be divided into two roughly equal surface areas. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may be collected from the side yard with the remainder of the property being divided into two roughly equal surface areas. Aliquots will be collected away from influences including drip lines and burn areas with reasonably equal spacing between aliquots.
- Residential properties over $\frac{1}{4}$ -acre in parcel lot size will be divided into $\frac{1}{4}$ -acre sections. When dividing any such property with a substantial side yard (primarily corner lots), one composite soil sample may be collected from the side yard. Aliquots will be collected away from influences including drip lines and burn areas in a five dice configuration, if possible, with reasonably equal spacing between aliquots.

Grab surface soil samples will be collected from apparent exposure pathways where active play sets are located.

Three-point composite surface soil samples will be collected from distinct vegetable gardens from each residential property.

Samples shall not be collected under paved areas or under stationary fixed structures.

Grab sediment samples will be collected in accordance with EPA SESD FBSTP Sediment Sampling (SESDPROC-200-R2) from any surface water drainage pathways located on individual properties, as directed by the OSC, and in and along the banks of the 34th Street North Ditch.

Each surface soil or sediment sample should be homogenized in a stainless steel bowl. One 8-ounce jar will be filled and the remaining sample material will be placed in zip-top bags for screening. Information identifying the location, sample, and date/time will be inscribed on each jar and zip-top bag.

All sample bags will be screened for metals in accordance with SESD FBQSTP Field XRF Measurement (SESDPROC-107-R2) using a Niton XRF. The sample will be dried before sieving or analysis is performed. Once the sample has dried, the sample will be divided into two subsamples; one subsample will be sieved through a #10 screen (2 mm) and the other will be left unsieved. Once separated into sieved and unsieved samples, the zip-top bag will be compressed by folding over the excess plastic and removing as much air and space from the sample as possible. The XRF will be placed directly on the exterior of the compressed sample in the plastic zip-top bag to measure metals concentrations. Following XRF screening, the unsieved portion of the sample material will be containerized into one 8-ounce jars and the sieved portion of the sample will be containerized into another 8-ounce jar.

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Based on the site DQOs the 8-ounce jars of surface soil and sediment samples should be submitted to PEL, Tampa, Florida (a NELAC certified laboratory) for low level PAH, and/or TCL SVOC, RCRA metals, PCB, and/or Hexavalent Chromium analysis. RCRA metals will be analyzed from both the sieved and unsieved portions of the sample. All other analysis will be conducted on the unsieved portion.

The location of each aliquot will also be logged in accordance with SESD FBQSTP Global Positioning System (SESDPROC- 110-R3) using a Trimble GPS.

A description of the color and texture of the aliquot material will be recorded in each box.

The **station ID** for each location will consist of seven characters, beginning with the six digit Property ID designation for the property followed by a alphabetic letter beginning with "A".

e.g. CV0001A would be the station ID for the front yard 5-pt composite sample collected at the property with Property ID CV0001.

The **sample ID** for each sample is the station ID with "CS" (composite soil), "GS" (grab soil), "SD" (sediment), or "SW" (surface water) appended, therefore, the sample ID for this sample would be CV0001A-CS. Co-located duplicates will be designated by appending a "D" to the end of the sample ID. Pan splits will be identified by appending an "SP" to the end of the sample ID.

(b) (6)

ADDRESS: (b) (5)
DATE: 11/8/12

PROPERTY ID: CV0722
ARRIVAL TIME: 0930
DEPART = 1115

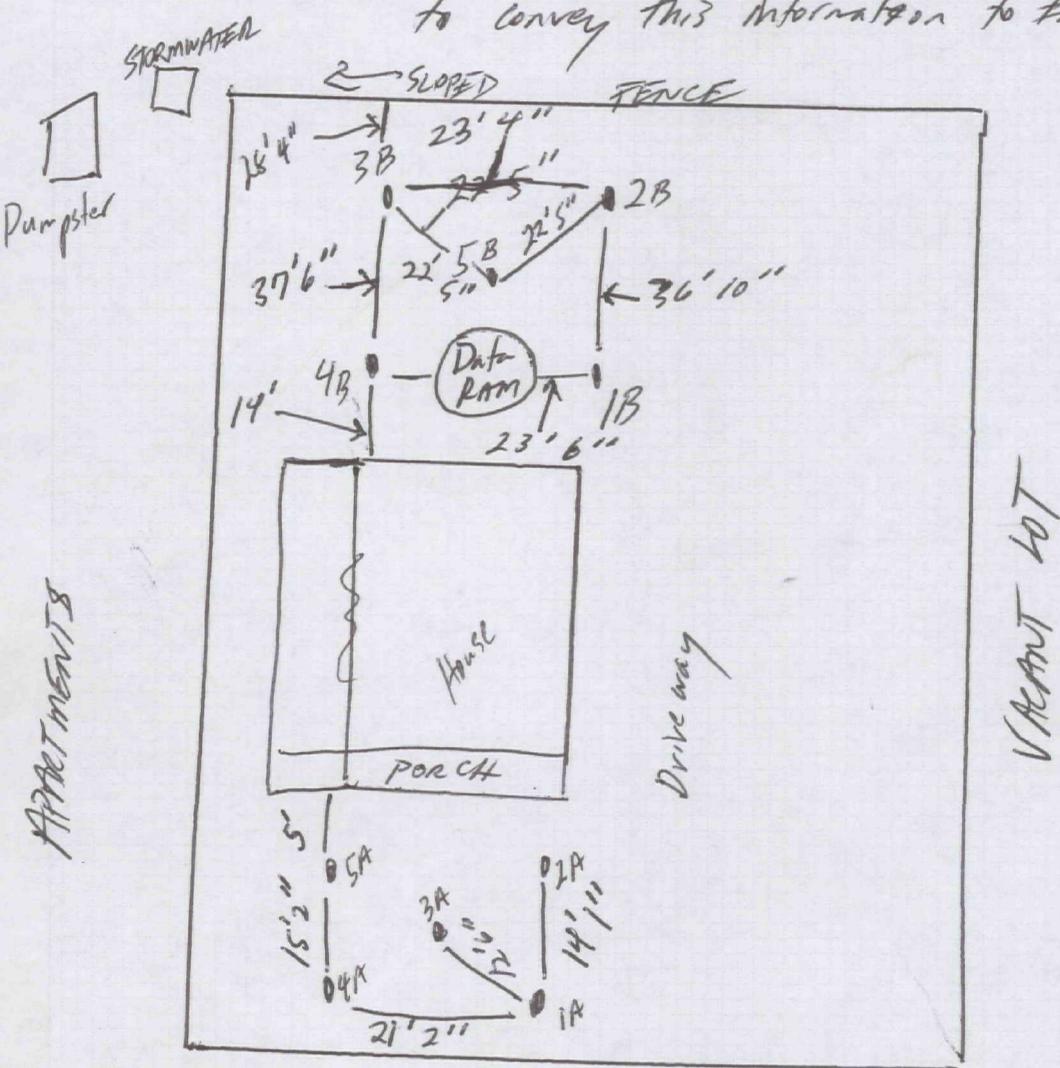
Other pertinent information (weather conditions, etc.):

Overcast, 45° Slight N wind

PROPERTY COMMENTS:

No resident at address. No visible address on house. Confirmed address of D. Fraley. Parcel does not include vacant lot on N side. According to Property owner, vacant lot to N is also owned by him but has different address. Note to convey this information to FSAOSC.

Grid for property sketch



NTS

→ 2

STATION ID: CV0222 A SAMPLE ID: CV0222 ACS

SAMPLE COLLECTION TIME: 1015

Description of sample location (front, back, side yard, vegetable garden; play set; ditch, etc):

Front (small) grass yard

Collection: Composite or Grab

MS/MSD? Y or

Field Duplicate or Split: Yes or If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble Instrument #: 00042948 Logged? or N

Aliquot #1: Latitude: 33°33'21.874" N Longitude 86°48'06.247" W

Media description:

Aliquot #2 Latitude: 33°33'21.899" N Longitude 86°48'06.392" W

Media description:

Aliquot #3: Latitude: 33°33'21.791" N Longitude 86°48'06.335" W

Media description:

Aliquot #4: Latitude: 33°33'21.659" N Longitude 86°48'06.252" W

Media description:

Aliquot #5: Latitude: 33°33'21.650" N Longitude 86°48'06.399" W

Media description:

Note - sample media soil has some pieces of broken glass, brick pieces.

STATION ID: CV0222 B SAMPLE ID: CV0222 BCS

SAMPLE COLLECTION TIME: 1056

Description of sample location (front, back, side yard, vegetable garden; play set; ditch, etc):

Large back yard, grass, no trash! slopes to SW in SW corner

Collection: Composite or Grab

MS/MSD? Y or

Field Duplicate or Split: Yes or If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble Instrument #: 00042948 Logged? or N

Aliquot #1: Latitude: 33°33'21.995" N Longitude 86°48'07.344" W

Media description:

Aliquot #2 Latitude: 33°33'22.005" N Longitude 86°48'07.782" W

Media description:

Aliquot #3: Latitude: 33°33'21.772" N Longitude 86°48'07.798" W

Media description:

Aliquot #4: Latitude: 33°33'21.747" N Longitude 86°48'07.355" W

Media description:

Aliquot #5: Latitude: 33°33'21.877" N Longitude 86°48'07.855" W

Media description:

Air Monitoring - Data RAM START 0935 STOP 1105
Lat 33°33'21.722" Long 86°48'07.542"

Personal Pump's START 0945 Page 7 of 65 PAUSE 1115

(b) (6)

ADDRESS: _____ PROPERTY ID: CVQ237

DATE: 11/8/12 ARRIVAL TIME: 4440 1125

Other pertinent information (weather conditions, etc.):

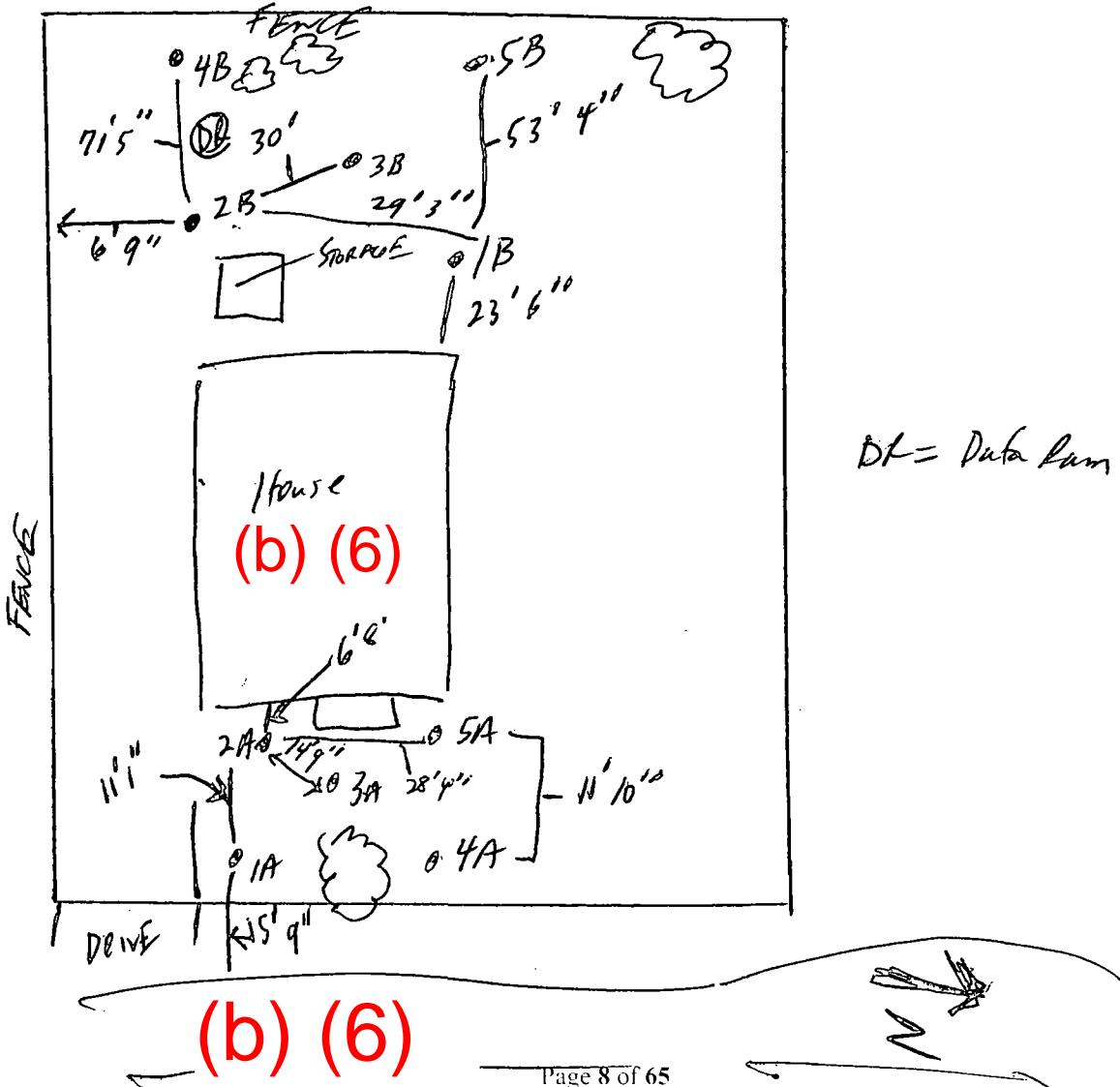
Sunny, 52° F Wind NW @ 3-5

PROPERTY COMMENTS:

Resident (Mrs. C. Price) at address and granted permission to sample. She is a rater. Slight odor @ location. Resident confirmed address & would like to have sample results when available.

Grid for property sketch

(b) (6)



STATION ID: CV0237A SAMPLE ID: CV0237A-CS

SAMPLE COLLECTION TIME: 11:56

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Front yard small all grass

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble <input checked="" type="checkbox"/>	Instrument #:	<u>00042948</u>	Logged? <input checked="" type="checkbox"/> or N
Aliquot #1: Latitude:	<u>33° 33' 31.509"</u>	N Longitude	<u>86° 48' 09.510"</u> W
Media description:			
Aliquot #2 Latitude:	<u>33° 33' 31.425"</u>	N Longitude	<u>86° 48' 09.581"</u> W
Media description:			
Aliquot #3: Latitude:	<u>33° 33' 31.601"</u>	N Longitude	<u>86° 48' 09.659"</u> W
Media description:			
Aliquot #4: Latitude:	<u>33° 33' 31.660"</u>	N Longitude	<u>86° 48' 09.785"</u> W
Media description:			
Aliquot #5: Latitude:	<u>33° 33' 31.630"</u>	N Longitude	<u>86° 48' 09.88849"</u> W
Media description:			

STATION ID: CV0237B SAMPLE ID: CV0237B-CS

SAMPLE COLLECTION TIME: 1220

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Bush yard large area all grass few trees

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble <input checked="" type="checkbox"/>	Instrument #:	<u>00042948</u>	Logged? <input checked="" type="checkbox"/> or N
Aliquot #1: Latitude:	<u>33° 33' 31.111"</u>	N Longitude	<u>86° 48' 10.329"</u> W
Media description:			
Aliquot #2 Latitude:	<u>33° 33' 30.752"</u>	N Longitude	<u>86° 48' 10.338"</u> W
Media description:			
Aliquot #3: Latitude:	<u>33° 33' 30.815"</u>	N Longitude	<u>86° 48' 10.454"</u> W
Media description:			
Aliquot #4: Latitude:	<u>33° 33' 30.370"</u>	N Longitude	<u>86° 48' 10.672"</u> W
Media description:			
Aliquot #5: Latitude:	<u>33° 33' 30.709"</u>	N Longitude	<u>86° 48' 10.804"</u> W
Media description:			

DATA RAM START 1230 (13.8 µg/m³) LAT 33° 33' 30.717"
STOP 1230 (20.9 µg/m³) LONG 86° 48' 10.409"

PERSONAL PUMPS START 1230

(b) (6)

ADDRESS: _____ PROPERTY ID: B-1043

PROPERTY ID: 8V8239

DATE: 11/8/12 ARRIVAL TIME: 1320

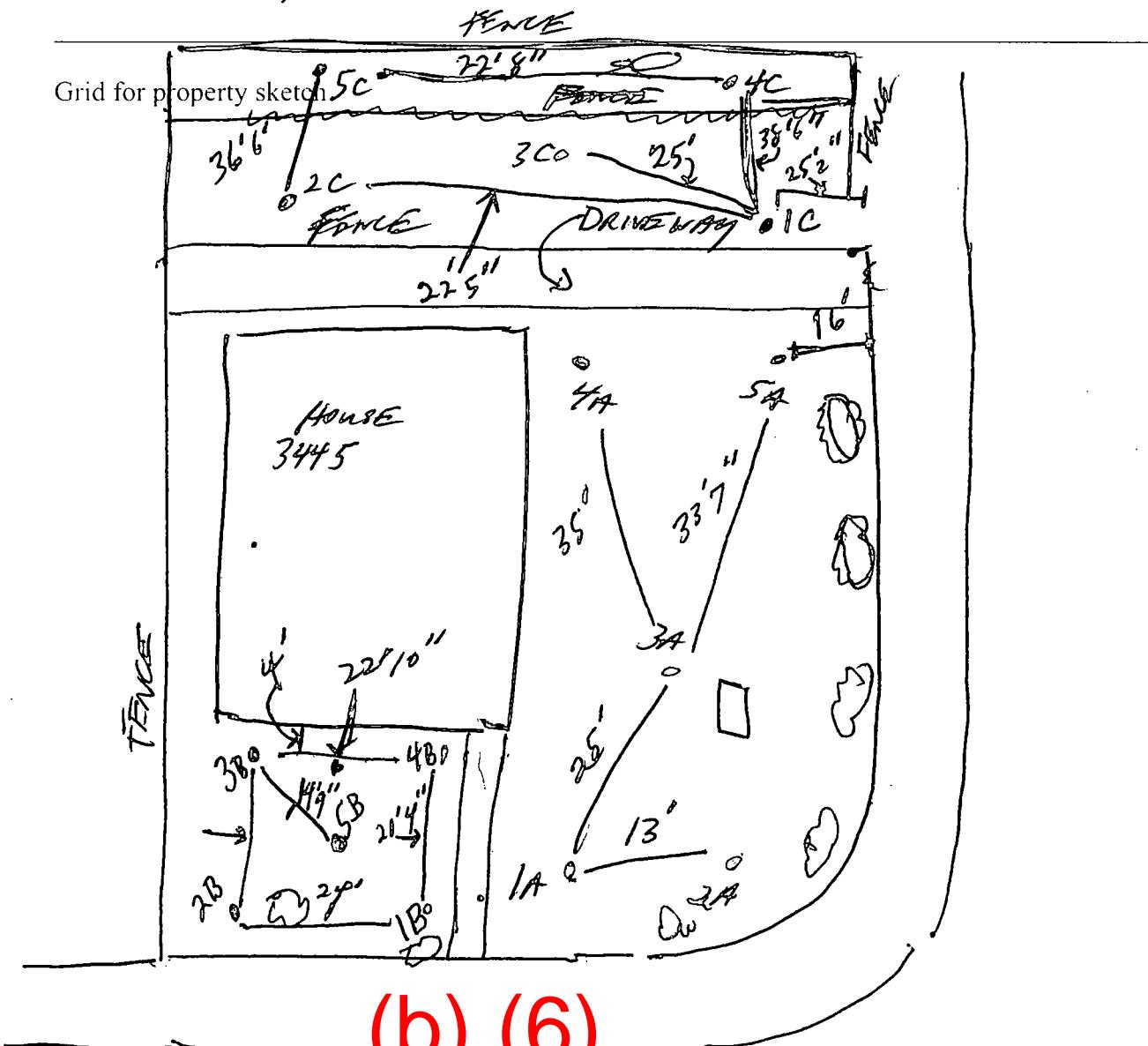
Other pertinent information (weather conditions, etc.):

Current information (weather conditions, etc.):
57°F, Clear, Sunny N Wind 0-5
GTY COMMENTS:

PROPERTY COMMENTS:

Resident not at home. Slight odor noticed while sampling. Front yard is grassy & small. No back yard.

Grid for property sketch



.(b) (6)

STATION ID: CV0239A SAMPLE ID: CV0239A-CS

SAMPLE COLLECTION TIME: 1359

Description of sample location (front, back, side yard, vegetable garden; play set; ditch, etc):

Side yard, grassy very small

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [] Instrument #: 33,55901297

Logged? Y or N

Aliquot #1: Latitude 33,55903465 N Longitude 86.80267764 W

Media description: 33,55903465

Aliquot #2 Latitude: 33,55899145 N Longitude

86.80272103 W

Media description: _____

Aliquot #3: Latitude: 33,55896272 N Longitude

86.80266069 W

Media description: _____

Aliquot #4: Latitude: 33,55891995 N Longitude

86.80257248 W

Media description: _____

Aliquot #5: Latitude: 33,55888736 N Longitude

86.80259346 W

Media description: _____

STATION ID: CV0239B

SAMPLE ID: CV0239B-CS

SAMPLE COLLECTION TIME: 1416

Description of sample location (front, back, side yard, vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [] Instrument #: 33,55903465

Logged? Y or N

Aliquot #1: Latitude: 33,55903465 N Longitude 86.80267764 W

Media description: _____

Aliquot #2 Latitude: 33,55908550 N Longitude

86.80261813 W

Media description: _____

Aliquot #3: Latitude: 33,55905376 N Longitude

86.80258298 W

Media description: _____

Aliquot #4: Latitude: 33,55900653 N Longitude

86.80263414 W

Media description: _____

Aliquot #5: Latitude: 33,55904574 N Longitude

86.80263002 W

Media description: _____

DATA RAM START 1325 STOP 1445 ~~86.80267764~~ (12.5 $\mu\text{g}/\text{m}^3$) LAT 33,55898195
(13.6 $\mu\text{g}/\text{m}^3$) LONG 86.80265687

PERSONAL MONITORS START 1325 STOP NOT STOPPED

ADDRESS: _____ PROPERTY ID: _____

DATE: _____ ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch

jl

STATION ID: CV0239 C SAMPLE ID: CV0239C-CS
SAMPLE COLLECTION TIME: 1444

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Back yard grassy with several small trees

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [] Instrument #:	Logged? <u>Y</u> or N
Aliquot #1: Latitude: <u>33,55886104°</u>	N Longitude <u>86,80251463°</u> W
Media description: _____	
Aliquot #2 Latitude: <u>33,55890264°</u>	N Longitude <u>86,80246125°</u> W
Media description: _____	
Aliquot #3: Latitude: <u>33,55886009</u>	N Longitude <u>86,80244096°</u> W
Media description: _____	
Aliquot #4: Latitude: <u>33,55879217</u>	N Longitude <u>86,80242000</u> W
Media description: _____	
Aliquot #5: Latitude: <u>33,55882583</u>	N Longitude <u>86,80238708</u> W
Media description: _____	

STATION ID: _____ SAMPLE ID: _____

SAMPLE COLLECTION TIME: _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc): Se

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [] Instrument #:	Logged? Y or N
Aliquot #1: Latitude: _____	N Longitude _____ W
Media description: _____	
Aliquot #2 Latitude: _____	N Longitude _____ W
Media description: _____	
Aliquot #3: Latitude: _____	N Longitude _____ W
Media description: _____	
Aliquot #4: Latitude: _____	N Longitude _____ W
Media description: _____	
Aliquot #5: Latitude: _____	N Longitude _____ W
Media description: _____	

(b) (6)

ADDRESS: _____

PROPERTY ID: CV0238

DATE: 11/8/12

ARRIVAL TIME: 1450

Other pertinent information (weather conditions, etc.):

Sunny, clear 55° F Wind N @ 5 mph

PROPERTY COMMENTS:

Resident at location. No front large side yard
on west side of parcel backs up to 32nd ST N.

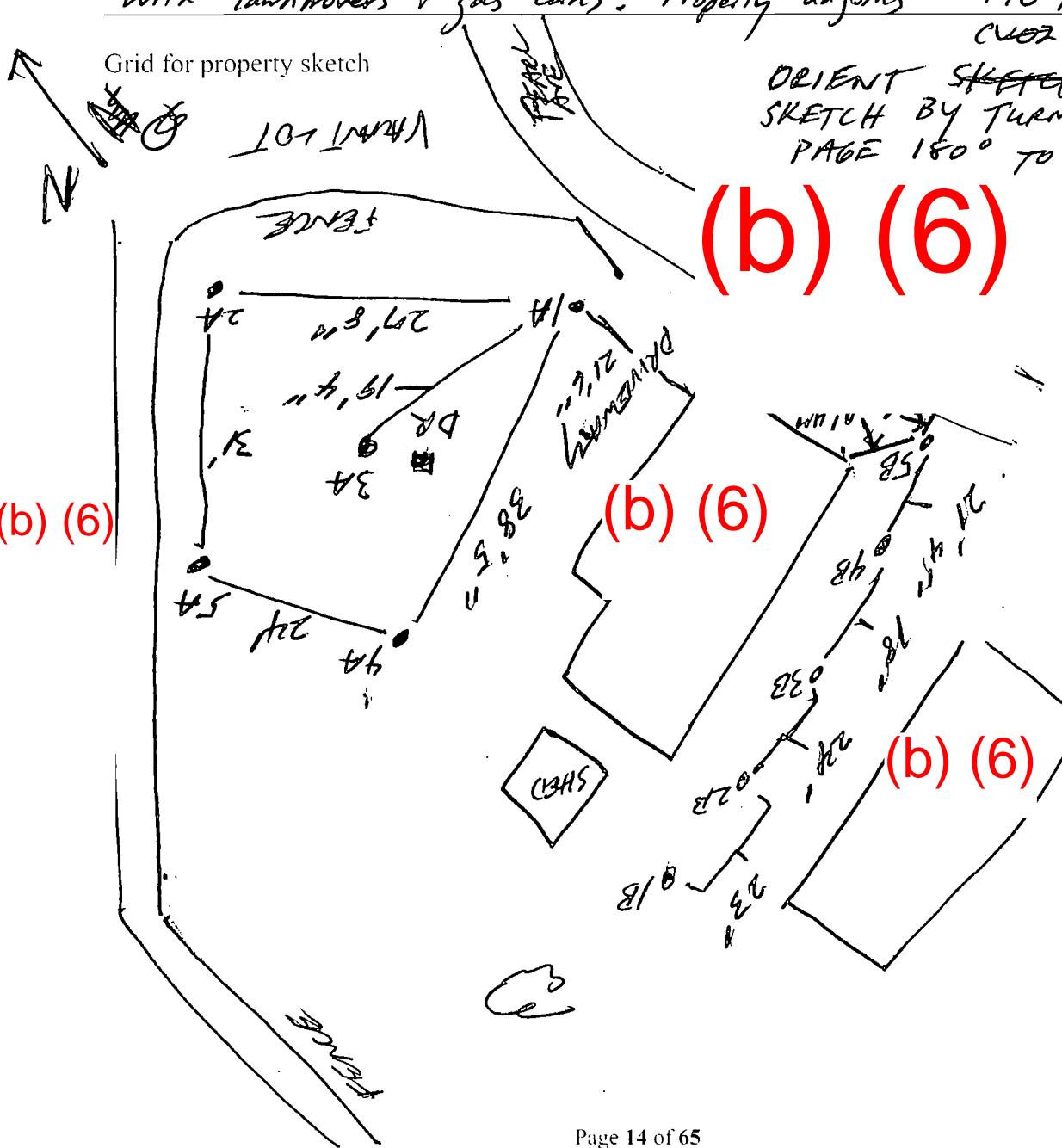
Very clean, well-maintained yard. Small shop in back
with lawnmowers & gas cans. Property adjoining 3440 PARCEL
C40237

Grid for property sketch

~~ORIENT SKETCH~~
SKETCH BY TURNING
PAGE 180° TO

(b) (6)

(b) (6)



STATION ID: CV0238

SAMPLE ID: CV0238A-CS

SAMPLE COLLECTION TIME: 1515

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Side yard on west north side of property

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble Instrument #: _____ Logged? Y or N

Aliquot #1: Latitude: 33,55888251 N Longitude 86.80289257 W

Media description: _____

Aliquot #2 Latitude: 33,55892921 N Longitude 86.8029536 W

Media description: _____

Aliquot #3: Latitude: 33,55887084 N Longitude 86.80295729 W

Media description: _____

Aliquot #4: Latitude: 33,55881002 N Longitude 86.80297259 W

Media description: _____

Aliquot #5: Latitude: 33,55886070 N Longitude 86.80301015 W

Media description: _____

STATION ID: CV0238

SAMPLE ID: CV0238B-CS

SAMPLE COLLECTION TIME: 1540

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Side yard on south side of house adjoins 3440 32ND PL N.

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble Instrument #: _____ Logged? Y or N

Aliquot #1: Latitude: 33,55869083 N Longitude 86.80295994 W

Media description: _____

Aliquot #2 Latitude: 33,55867917 N Longitude 86.80288543 W

Media description: _____

Aliquot #3: Latitude: 33,55871603 N Longitude 86.80283744 W

Media description: _____

Aliquot #4: Latitude: 33,55875957 N Longitude 86.80279553 W

Media description: _____

Aliquot #5: Latitude: 33,55881079 N Longitude 86.80275716 W

Media description: _____

DATA PTM - START: 1450 (17.3 ug/m³) LAT - 33.55887053
STOP : 1540 (9.5 ug/m³) LONG - 86.80294016

PERSONAL MONITORS - CONTINUED FROM PREVIOUS LOCATION.

The remaining pages in this logbook are blank and have not been scanned.