

LB 000062

REDACTED

United States Environmental Protection Agency
Region 4



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

FIELD SAMPLING LOGBOOK

Book 1 of 1

Inclusive Dates: 3/19/13 - 3/22/13

List of Sampling Team in logbook:

Name	Initials	Organization/Duties
(b) (6)		<u>OTIE</u> , Team Leader
		<u>OTIE</u>

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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 ¼-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 ¼-acre in parcel lot size will be divided into ¼-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

PROPERTY ID:

CV0581

DATE:

3/19/13

ARRIVAL TIME:

1104

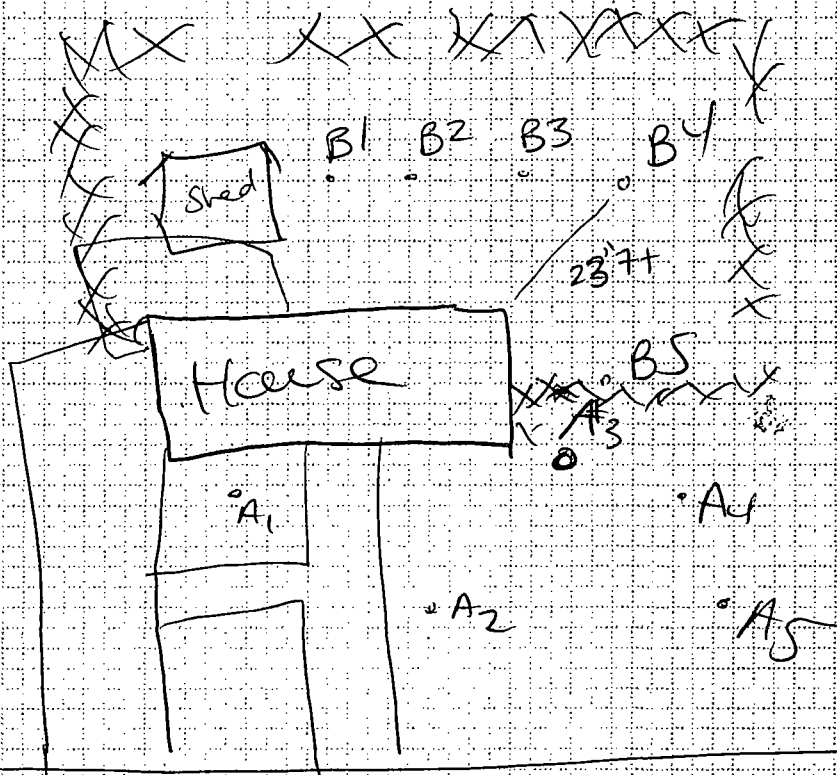
Other pertinent information (weather conditions, etc.):

55°F, Sunny

PROPERTY COMMENTS:

Resident Home

Grid for property sketch



(b) (6)

STATION ID: CV0881A

SAMPLE ID: CV0881-CS

SAMPLE COLLECTION TIME: 1119

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 #: 018594 Logged? or N

Aliquot #1: Latitude: 33.55984016 N Longitude: 86.79879043 W

Media description: Brun/orange silty clay

Aliquot #2 Latitude: 33.55977689 N Longitude: 86.79875153 W

Media description: Brun/orange silty clay

Aliquot #3: Latitude: 33.55982161 N Longitude: 86.79863489 W

Media description: Brun/orange silty clay

Aliquot #4: Latitude: 33.55975520 N Longitude: 86.79866223 W

Media description: Brun/orange silty clay

Aliquot #5: Latitude: 33.55972407 N Longitude: 86.79868928 W

Media description: Brun/orange silty clay w/ coal fragments

STATION ID: CV0881B

SAMPLE ID: CV0881B-CS

SAMPLE COLLECTION TIME: 1125

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 #: 018594 Logged? or N

Aliquot #1: Latitude: 33.55997462 N Longitude: 86.79861245 W

Media description: brown silty clay with gravel damp

Aliquot #2 Latitude: 33.55995061 N Longitude: 86.79858242 W

Media description: brun silty clay w/ gravel damp

Aliquot #3: Latitude: 33.55992674 N Longitude: 86.79855492 W

Media description: brun silty clay w/ gravel damp

Aliquot #4: Latitude: 33.55990018 N Longitude: 86.79854719 W

Media description: brun silty clay w/ gravel damp

Aliquot #5: Latitude: 33.55984379 N Longitude: 86.79857987 W

Media description: brun silty clay w/ gravel damp

ADDRESS **(b) (6)** PROPERTY ID: CW0581

DATE: 3/19/13 ARRIVAL TIME: 1104

Other pertinent information (weather conditions, etc.):

55°F, Sunny

PROPERTY COMMENTS:

Resident Home

Grid for property sketch

~~Refer to page 6
Buttman Brown
3/19/13~~

STATION ID: CV0581C SAMPLE ID: CV0581C-GS

SAMPLE COLLECTION TIME: 1135

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 #: 018594 Logged? [] or N

Aliquot #1: Latitude: 33.55985661 N Longitude: 86.7985550 W
Media description: Brown silty clay

~~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: _____~~

BB
3/19/13

STATION ID: _____ SAMPLE ID: _____

SAMPLE COLLECTION TIME: _____

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 #: _____ 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: _____~~

BB
3/19/13

ADDRESS: (b) (6)

PROPERTY ID: 0V1319

DATE: 3/19/13

ARRIVAL TIME: 1158

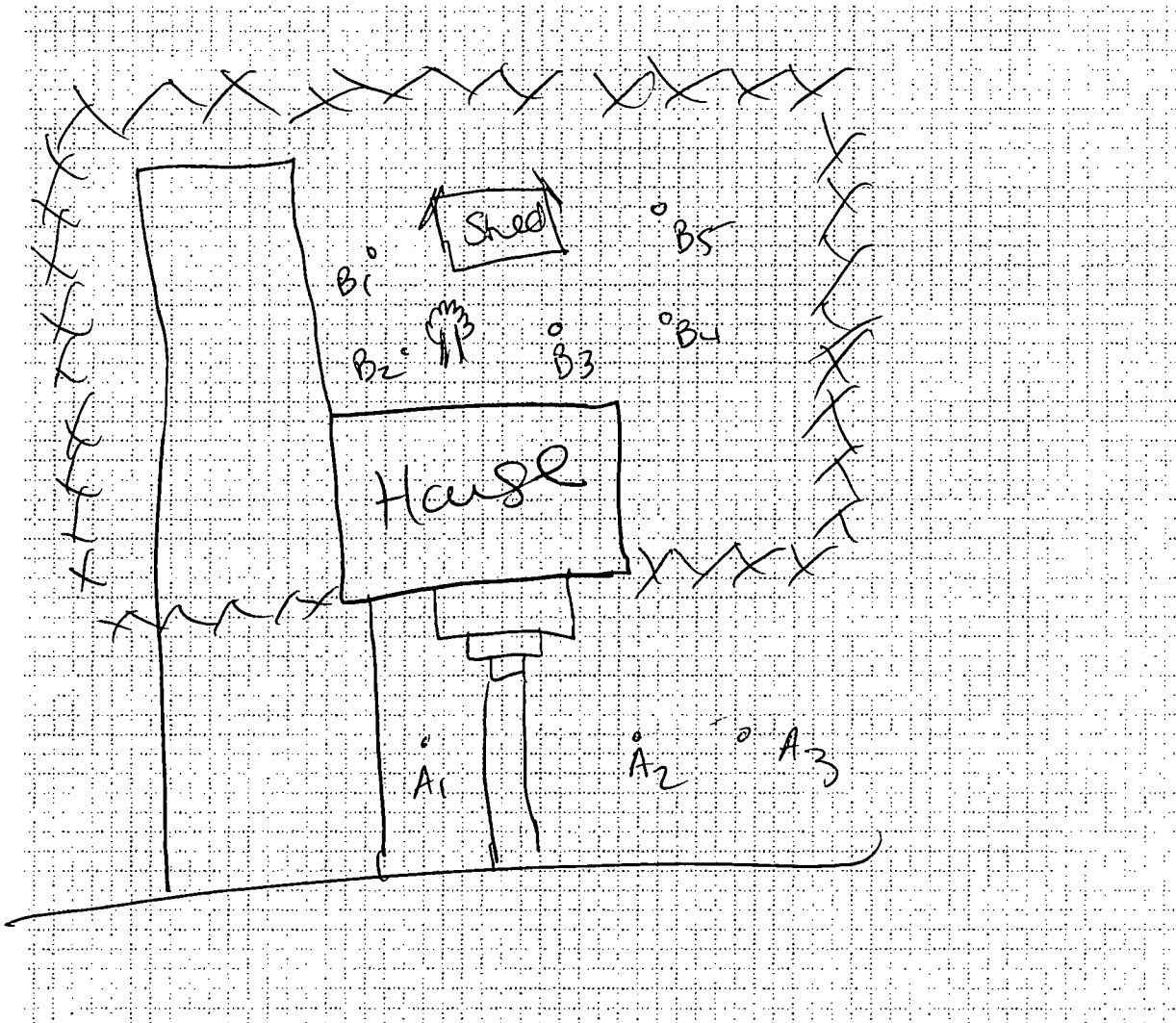
Other pertinent information (weather conditions, etc.):

55°F, Sunny

PROPERTY COMMENTS:

Resident Home

Grid for property sketch



STATION ID: CV1319A SAMPLE ID: CV1319A-CS

SAMPLE COLLECTION TIME: 1205

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 [<input checked="" type="checkbox"/>] Instrument #: <u>018594</u> Logged <input checked="" type="checkbox"/> or N
Aliquot #1: Latitude: <u>33.55263930</u> N Longitude <u>86.79978386</u> W Media description: <u>Brown sandy silt</u>
Aliquot #2: Latitude: <u>33.55260250</u> N Longitude <u>86.79978655</u> W Media description: <u>Brown sandy silt</u>
Aliquot #3: Latitude: <u>33.55256263</u> N Longitude <u>86.79978909</u> W Media description: <u>DK brown/orange silty clay w/coal fragments</u>
Aliquot #4: Latitude: _____ N Longitude _____ W Media description: _____
Aliquot #5: Latitude: _____ N Longitude _____ W Media description: _____

BB 3/19/13

STATION ID: CV1319B SAMPLE ID: CV1319B-CS

SAMPLE COLLECTION TIME: 1215

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 [<input checked="" type="checkbox"/>] Instrument #: <u>018594</u> Logged <input checked="" type="checkbox"/> or N
Aliquot #1: Latitude: <u>33.55264839</u> N Longitude <u>86.79957066</u> W Media description: <u>Brown sandy silt w/coal fragments</u>
Aliquot #2: Latitude: <u>33.55265312</u> N Longitude <u>86.79962116</u> W Media description: <u>same as previous</u>
Aliquot #3: Latitude: <u>33.55259405</u> N Longitude <u>86.79961048</u> W Media description: <u>same as previous</u>
Aliquot #4: Latitude: <u>33.55255362</u> N Longitude <u>86.79960129</u> W Media description: <u>same as previous</u>
Aliquot #5: Latitude: <u>33.79955761</u> N Longitude <u>86.79955761</u> W Media description: <u>same as previous</u>

(b) (6)

ADDRESS

PROPERTY ID:

CV1318

DATE:

3/19/13

ARRIVAL TIME:

1225

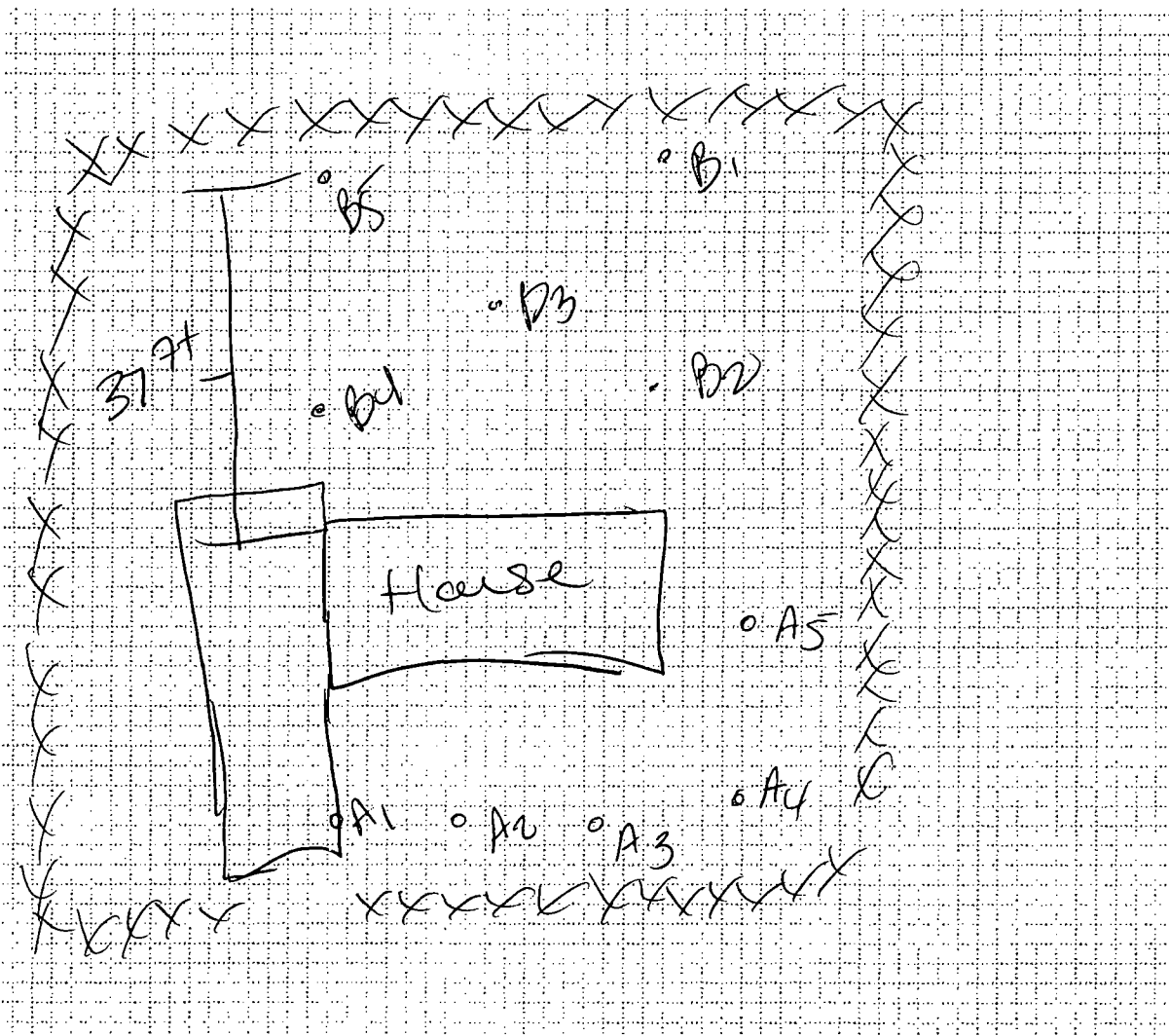
Other pertinent information (weather conditions, etc.):

38°F, sunny

PROPERTY COMMENTS:

Resident Home

Grid for property sketch



STATION ID: CV1318A SAMPLE ID: CV1318A-CS

SAMPLE COLLECTION TIME: 1233

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 #: 018594 Logged? or N

Aliquot #1: Latitude: 33.55260809 N Longitude 86.79993214 W

Media description: OK brown silty clay w/ coal fragments

Aliquot #2 Latitude: 33.55263290 N Longitude 86.79993090 W

Media description: same as previous

Aliquot #3: Latitude: 33.55265840 N Longitude 86.79992789 W

Media description: same as previous

Aliquot #4: Latitude: 33.55269348 N Longitude 86.79992743 W

Media description: same as previous

Aliquot #5: Latitude: 33.55272383 N Longitude 86.79992825 W

Media description: light brown silt

STATION ID: CV1318B SAMPLE ID: CV1318B-CS

SAMPLE COLLECTION TIME: 1240

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 #: 018594 Logged? or N

Aliquot #1: Latitude: 33.55271215 N Longitude 86.80019219 W

Media description: Brown silty clay

Aliquot #2 Latitude: 33.55271557 N Longitude 86.80006188 W

Media description: tan-brown clay

Aliquot #3: Latitude: 33.55265823 N Longitude 86.80013596 W

Media description: Brown silty clay

Aliquot #4: Latitude: 33.55259521 N Longitude 86.80007650 W

Media description: Brown silty clay

Aliquot #5: Latitude: 33.55261039 N Longitude 86.80017248 W

Media description: Brown silty clay

(b) (6)

ADDRESS:

PROPERTY ID:

CV0101

DATE:

3/20/13

ARRIVAL TIME:

0807

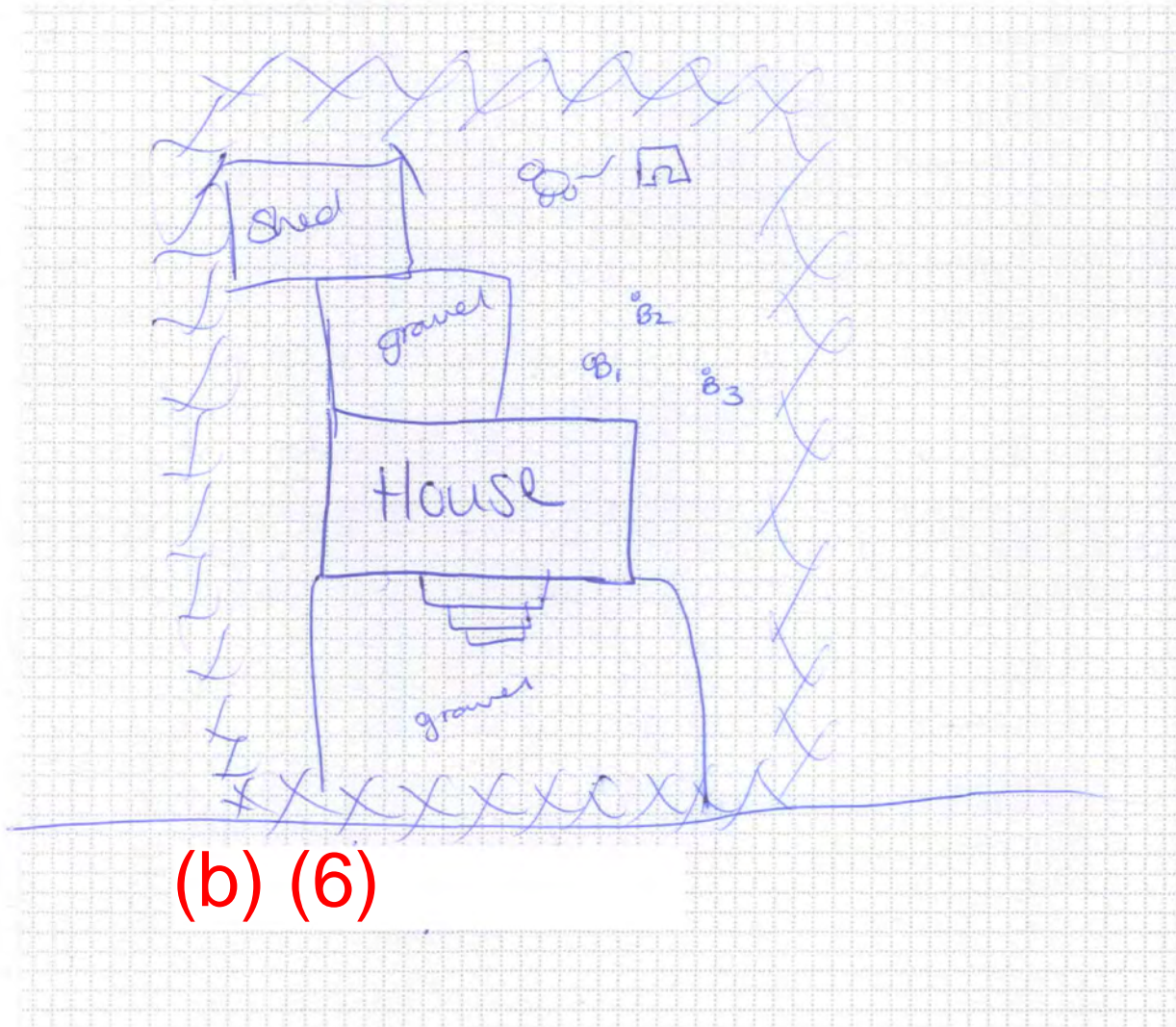
Other pertinent information (weather conditions, etc.):

45°F, Partly cloudy

PROPERTY COMMENTS:

Resident Home

Grid for property sketch



(b) (6)

STATION ID: CVO101A SAMPLE ID: CVO101A-CS

SAMPLE COLLECTION TIME: 0815

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 [<input checked="" type="checkbox"/>] Instrument #: <u>018594</u> Logged? <input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude: _____ N Longitude _____ W Media description: <u>DK brown silt w/ coal BB 3/20/13</u>
Aliquot #2: Latitude: _____ N Longitude _____ W Media description: <u>DK brown silt</u>
Aliquot #3: Latitude: _____ N Longitude _____ W Media description: <u>DK brown silt w/ coal fragments</u>
Aliquot #4: Latitude: _____ N Longitude _____ W Media description: _____
Aliquot #5: Latitude: _____ N Longitude _____ W Media description: _____

~~STATION ID: _____ SAMPLE ID: _____~~

~~SAMPLE COLLECTION TIME: _____~~

~~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 #: _____ 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: _____

BB 3/20/13

(b) (6)

ADDRESS:

PROPERTY ID:

CV 1328

DATE:

3/20/13

ARRIVAL TIME:

0832

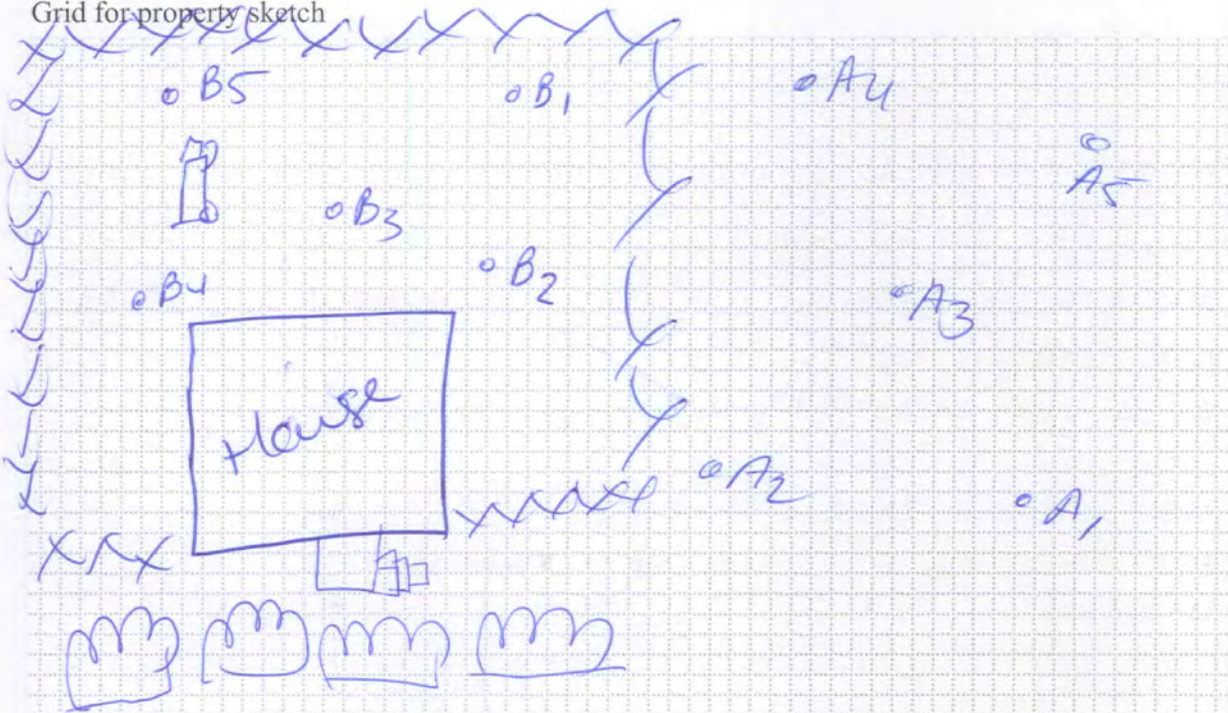
Other pertinent information (weather conditions, etc.):

45°F, Partly Cloudy

PROPERTY COMMENTS:

Resident Home

Grid for property sketch



(b) (6)

STATION ID: CV1328A SAMPLE ID: CV1328A-CS

SAMPLE COLLECTION TIME: 0900

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 #: 018594 Logged? Y or N

Aliquot #1: Latitude: 33.55206570 N Longitude: 86.80024148 W

Media description: brn/tan sandy silt w/ coal fragment S-

Aliquot #2: Latitude: 33.55205908 N Longitude: 86.80035780 W

Media description: Same as previous

Aliquot #3: Latitude: 33.55213322 N Longitude: 86.80029010 W

Media description: Same as previous

Aliquot #4: Latitude: 33.55217693 N Longitude: 86.80035179 W

Media description: Same as previous

Aliquot #5: Latitude: 33.55216147 N Longitude: 86.80024481 W

Media description: Same as previous

STATION ID: CV1328B SAMPLE ID: CV1328B-CS

SAMPLE COLLECTION TIME: 0910

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 #: 018594 Logged? Y or N

Aliquot #1: Latitude: 33.55194967 N Longitude: 86.80048505 W

Media description: DK brn silt w/ coal fragments

Aliquot #2: Latitude: 33.55205123 N Longitude: 86.80048789 W

Media description: DK brn silt w/ coal fragments

Aliquot #3: Latitude: 33.55199795 N Longitude: 86.80036509 W

Media description: orange/brn silt w/ coal fragment

Aliquot #4: Latitude: 33.55203633 N Longitude: 86.80029218 W

Media description: orange/brn silt w/ coal fragment

Aliquot #5: Latitude: 33.55195879 N Longitude: 86.80024552 W

Media description: orange/brn silt w/ coal fragment

(b) (6)

ADDRESS:

PROPERTY ID:

CV0833

DATE:

3/20/13

ARRIVAL TIME:

1251

Other pertinent information (weather conditions, etc.):

80°F, sunny

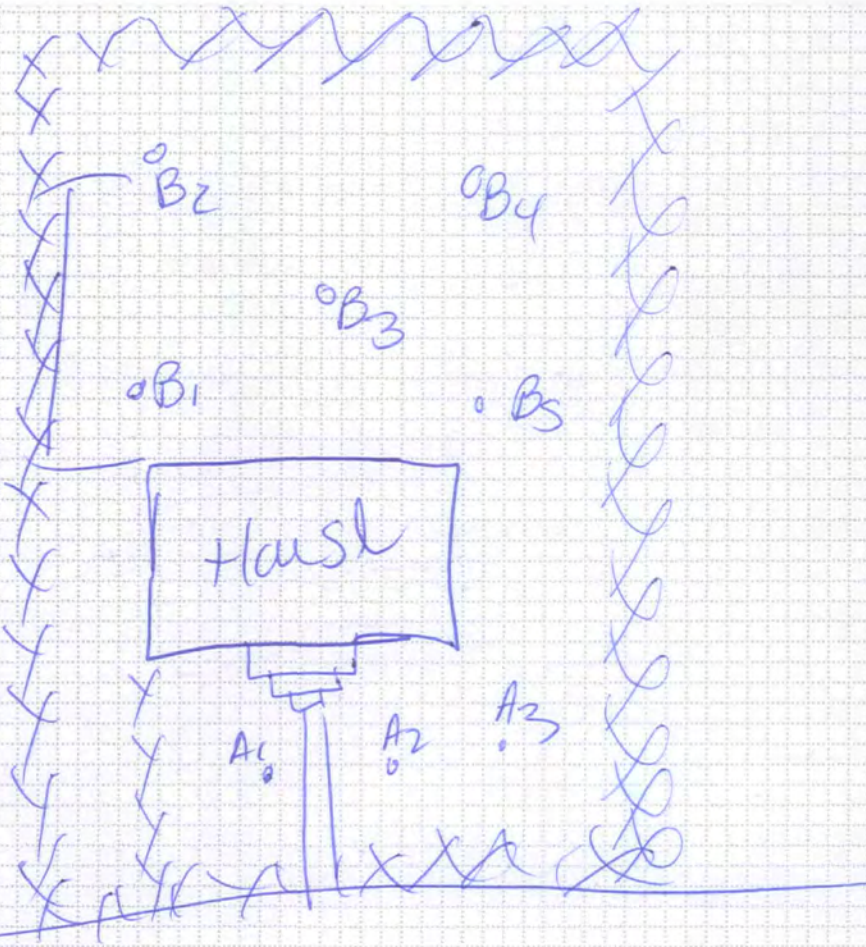
PROPERTY COMMENTS:

Resident Home

w/ (b) (6) legal team

Grid for property sketch

(b) (6)



STATION ID: CV0833A SAMPLE ID: CV0833A-CS
SP

SAMPLE COLLECTION TIME: 1305

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: CV0833A

GPS Coordinates:	Trimble [<input checked="" type="checkbox"/>]	Instrument #:	<u>018594</u>	Logged?	<u>Y</u> or N
Aliquot #1:	Latitude:	<u>33.55367248</u>	N Longitude	<u>86.79670420</u>	W
	Media description:	<u>DK brown silty clay w/ gravel</u>			
Aliquot #2:	Latitude:	<u>33.55367701</u>	N Longitude	<u>86.79667481</u>	W
	Media description:	<u>same as previous</u>			
Aliquot #3:	Latitude:	<u>33.55367512</u>	N Longitude	<u>86.79663931</u>	W
	Media description:	<u>same as previous</u>			
Aliquot #4:	Latitude:		N Longitude		W
	Media description:				
Aliquot #5:	Latitude:		N Longitude		W
	Media description:				

STATION ID: CV0833B SAMPLE ID: CV0833B-CS
SP

SAMPLE COLLECTION TIME: 1315

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: CV0833B

GPS Coordinates:	Trimble [<input checked="" type="checkbox"/>]	Instrument #:	<u>018594</u>	Logged?	<u>Y</u> or N
Aliquot #1:	Latitude:	<u>33.55383918</u>	N Longitude	<u>86.79675975</u>	W
	Media description:	<u>DK brown silt damp</u>			
Aliquot #2:	Latitude:	<u>33.55397527</u>	N Longitude	<u>86.79673736</u>	W
	Media description:	<u>same as previous</u>			
Aliquot #3:	Latitude:	<u>33.55388170</u>	N Longitude	<u>86.79672843</u>	W
	Media description:	<u>same as previous</u>			
Aliquot #4:	Latitude:	<u>33.55395975</u>	N Longitude	<u>86.79666787</u>	W
	Media description:	<u>Blk silt w/ coal fragments</u>			
Aliquot #5:	Latitude:	<u>33.55382084</u>	N Longitude	<u>86.79665933</u>	W
	Media description:	<u>same as previous</u>			

(b) (6)

ADDRESS:

PROPERTY ID:

010876

DATE:

3/20/13

ARRIVAL TIME:

1322

Other pertinent information (weather conditions, etc.):

60°F, Sunny

PROPERTY COMMENTS:

Resident Home

w/ (b) (6) legal team

Grid for property sketch



(b) (6)

STATION ID: CV0876A SAMPLE ID: CV0876A-CSSP

SAMPLE COLLECTION TIME: 1330

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 [<u>Y</u>]	Instrument #:	<u>018594</u>	Logged?	<u>Y</u>	or N
Aliquot #1:	Latitude:	<u>33.55345596</u>	N Longitude	<u>86.80032893</u>	W	
	Media description:	<u>Blk silt w/ coal fragments</u>				
Aliquot #2:	Latitude:	<u>33.55345126</u>	N Longitude	<u>86.80027553</u>	W	
	Media description:	<u>Blk silt w/ coal fragments</u>				
Aliquot #3:	Latitude:	<u>33.55341206</u>	N Longitude	<u>86.80025746</u>	W	
	Media description:	<u>Blk silt w/ debris</u>				
Aliquot #4:	Latitude:	<u>33.55336636</u>	N Longitude	<u>86.80024149</u>	W	
	Media description:	<u>Blk silt w/ coal fragments</u>				
Aliquot #5:	Latitude:		N Longitude		W	
	Media description:					

STATION ID: CV0876B SAMPLE ID: CV0876B-CSSP

SAMPLE COLLECTION TIME: 1340

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 [<u>Y</u>]	Instrument #:	<u>018594</u>	Logged?	<u>Y</u>	or N
Aliquot #1:	Latitude:	<u>33.55332637</u>	N Longitude	<u>86.80029744</u>	W	
	Media description:	<u>DK brown/blk silt w/ coal fragments</u>				
Aliquot #2:	Latitude:	<u>33.55332686</u>	N Longitude	<u>86.80033590</u>	W	
	Media description:	<u>same as previous</u>				
Aliquot #3:	Latitude:	<u>33.55332786</u>	N Longitude	<u>86.80038015</u>	W	
	Media description:	<u>same as previous</u>				
Aliquot #4:	Latitude:	<u>33.55332986</u>	N Longitude	<u>86.80043264</u>	W	
	Media description:	<u>same as previous</u>				
Aliquot #5:	Latitude:	<u>33.55332447</u>	N Longitude	<u>86.80050254</u>	W	
	Media description:	<u>same as previous</u>				

(b) (6)

ADDRESS:

PROPERTY ID:

CV0763

DATE:

3/20/13

ARRIVAL TIME:

1353

Other pertinent information (weather conditions, etc.):

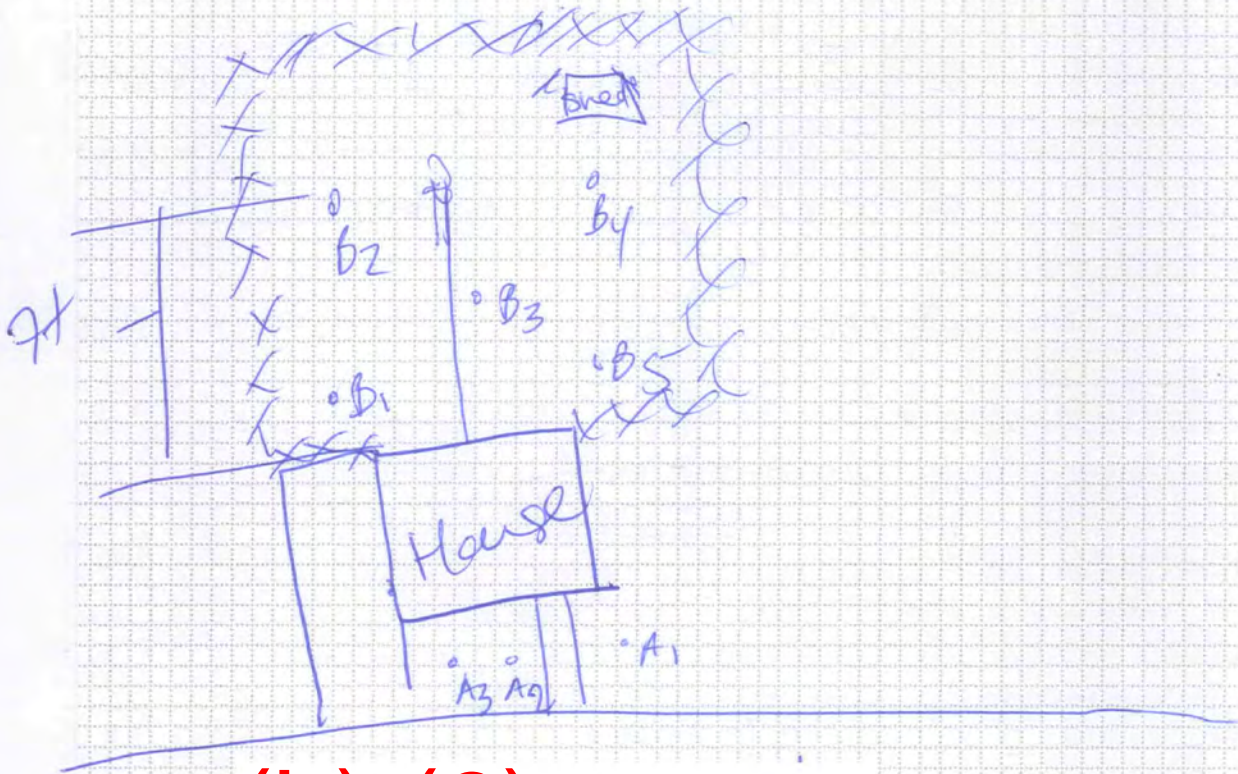
60°F, sunny

PROPERTY COMMENTS:

Resident home

w/ (b) (6) legal team

Grid for property sketch



(b) (6)

STATION ID: CV0763A SAMPLE ID: CV0763A-CS-JF

SAMPLE COLLECTION TIME: 1401

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: CV0763A

GPS Coordinates: Trimble [] Instrument #: 018594 Logged? or N

Aliquot #1: Latitude: 33.55341998 N Longitude 86.80374389 W

Media description: brown silt w/ coal fragments and debris

Aliquot #2: Latitude: 33.55341941 N Longitude 86.80377993 W

Media description: same as previous

Aliquot #3: Latitude: 33.80382940 N Longitude 86.80382940 W

Media description: same as previous

~~Aliquot #4: Latitude: _____ N Longitude _____ W~~

~~Media description: same as previous~~

~~Aliquot #5: Latitude: _____ N Longitude _____ W~~

~~Media description: same as previous~~

BB 3/20/18

STATION ID: CV0763B SAMPLE ID: CV0763B-CS-JF

SAMPLE COLLECTION TIME: 1415

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: CV0763B

GPS Coordinates: Trimble [] Instrument #: 018594 Logged? or N

Aliquot #1: Latitude: 33.55358502 N Longitude 86.80385220 W

Media description: Brown silt w/ coal & debris

Aliquot #2: Latitude: 33.55366514 N Longitude 86.80384621 W

Media description: Blk silt w/ coal

Aliquot #3: Latitude: 33.55361589 N Longitude 86.80380077 W

Media description: Brown silt w/ coal & debris

Aliquot #4: Latitude: 33.55363839 N Longitude 86.80374057 W

Media description: Brown silt w/ coal + debris

Aliquot #5: Latitude: 33.80373989 N Longitude 86.80373989 W

Media description: Brown silt w/ coal + debris

ADDRESS: (b) (6)

PROPERTY ID: Fm0168

DATE: 3/20/13

ARRIVAL TIME: 1433

Other pertinent information (weather conditions, etc.):

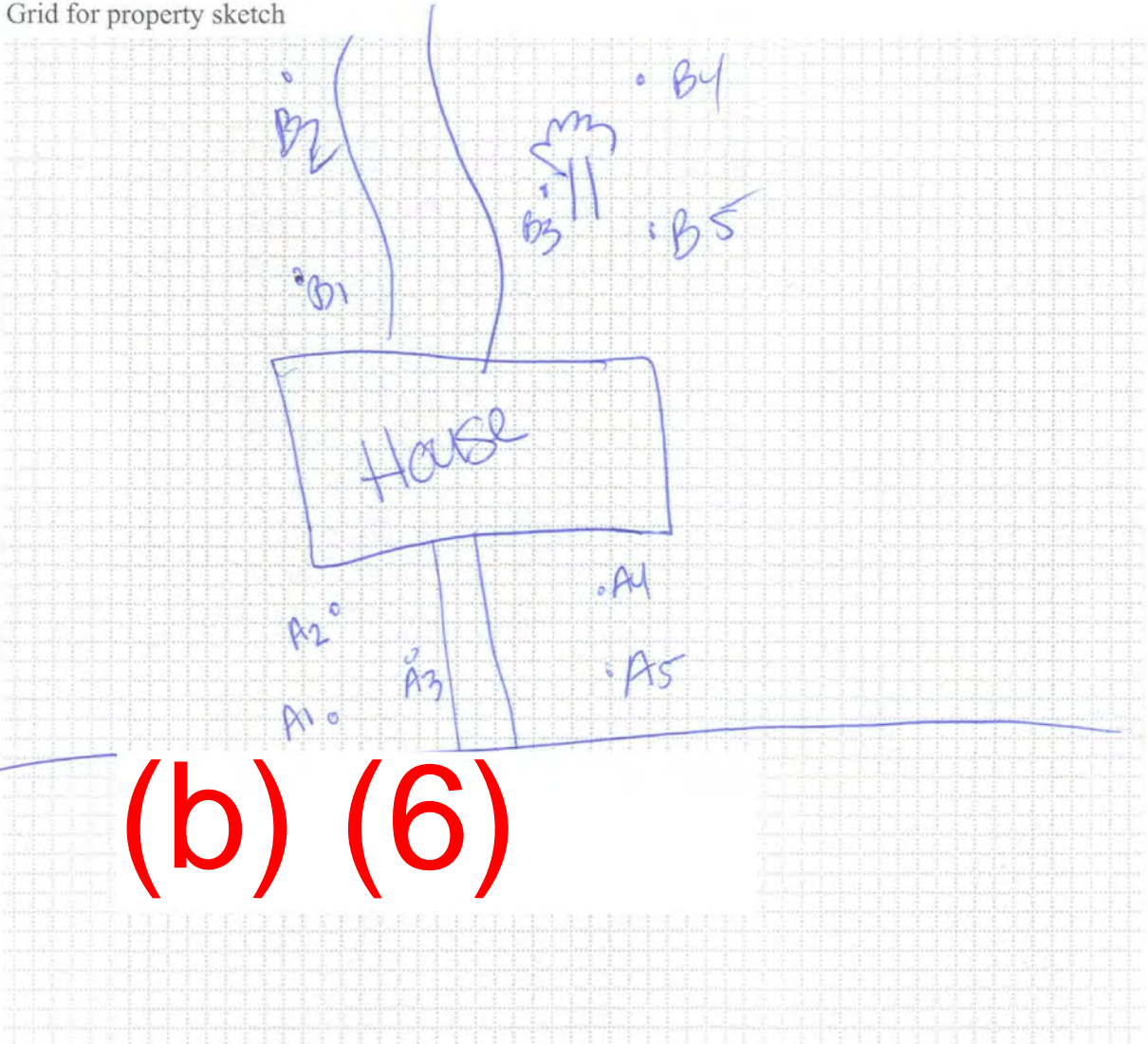
60°F, sunny

PROPERTY COMMENTS:

Resident home

w/ (b) (6) legal team

Grid for property sketch



STATION ID: Fm0168A SAMPLE ID: Fm0168A-CS-SP

SAMPLE COLLECTION TIME: 1447

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: Fm0168A

GPS Coordinates: Trimble [] Instrument #: 018594 Logged? or N

Aliquot #1: Latitude: 33.56954468 N Longitude 86.80741600 W

Media description: light brown silt w/ gravel

Aliquot #2 Latitude: 33.56958067 N Longitude 86.80741818 W

Media description: dark brown sandy silt w/ coal frags

Aliquot #3: Latitude: 33.56956642 N Longitude 86.80736765 W

Media description: same as #2

Aliquot #4: Latitude: 33.56957269 N Longitude 86.80732547 W

Media description: same as #2

Aliquot #5: Latitude: 33.56954282 N Longitude 86.80731593 W

Media description: same as #1

STATION ID: Fm0168B SAMPLE ID: Fm0168B-CS-SP

SAMPLE COLLECTION TIME: 1455

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: Fm0168B

GPS Coordinates: Trimble [] Instrument #: 018594 Logged? or N

Aliquot #1: Latitude: 33.56979425 N Longitude 86.80739929 W

Media description: Brown sandy silt w/ gravel & coal

Aliquot #2 Latitude: 33.56987250 N Longitude 86.80741351 W

Media description: same as previous

Aliquot #3: Latitude: 33.56982133 N Longitude 86.80735874 W

Media description: same as previous

Aliquot #4: Latitude: 33.56985699 N Longitude 86.80730445 W

Media description: same as previous

Aliquot #5: Latitude: 33.56976576 N Longitude 86.80730181 W

Media description: same as previous

(b) (6)

ADDRESS:

PROPERTY ID:

CV0368

DATE:

3/21/13

ARRIVAL TIME:

0810

Other pertinent information (weather conditions, etc.):

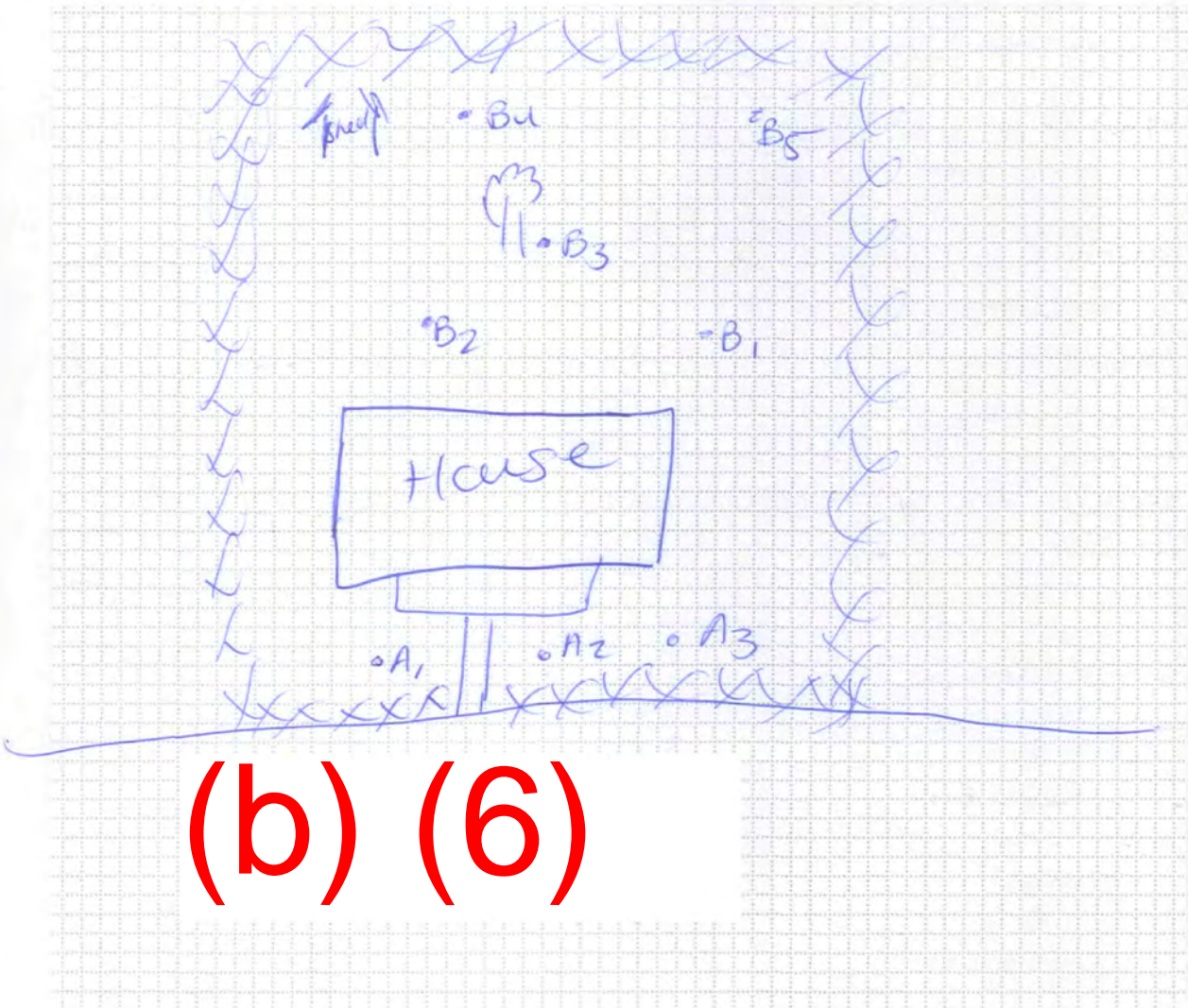
33°F, sunny

PROPERTY COMMENTS:

Resident Home

w/ (b) (6) legal team

Grid for property sketch



(b) (6)

STATION ID: CV0368A SAMPLE ID: CV0368A-CS-SP

SAMPLE COLLECTION TIME: 0816

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: CV0368B

GPS Coordinates: Trimble [] Instrument #: 018594 Logged? Y or N

Aliquot #1: Latitude: 33.55530186 N Longitude: 86.79938385 W

Media description: Brown silt

Aliquot #2 Latitude: 33.55526386 N Longitude: 86.79938625 W

Media description: Brown silt

Aliquot #3: Latitude: 33.55523236 N Longitude: 86.79938834 W

Media description: Brown silt

~~Aliquot #4: Latitude: _____ N Longitude: _____ W~~

~~Media description: _____~~

~~Aliquot #5: Latitude: _____ N Longitude: _____ W~~

~~Media description: _____~~

RF 3/21/13

STATION ID: CV0368B SAMPLE ID: CV0368B-CS-SP

SAMPLE COLLECTION TIME: 0832

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: CV0368B

GPS Coordinates: Trimble [] Instrument #: 018594 Logged? Y or N

Aliquot #1: Latitude: 33.55522833 N Longitude: 86.79908907 W

Media description: DK brown silt damp w/ gravel & coal

Aliquot #2 Latitude: 33.55529921 N Longitude: 86.79909628 W

Media description: Same as previous

Aliquot #3: Latitude: 33.55526332 N Longitude: 86.79906082 W

Media description: Same as previous

Aliquot #4: Latitude: 33.55522987 N Longitude: 86.79899166 W

Media description: Same as previous

Aliquot #5: Latitude: 33.55527556 N Longitude: 86.79897955 W

Media description: Same as previous

(b) (6)

ADDRESS: _____

PROPERTY ID: _____

FM0312

DATE: _____

3/21/13

ARRIVAL TIME: _____

0853

Other pertinent information (weather conditions, etc.):

35°F, sunny

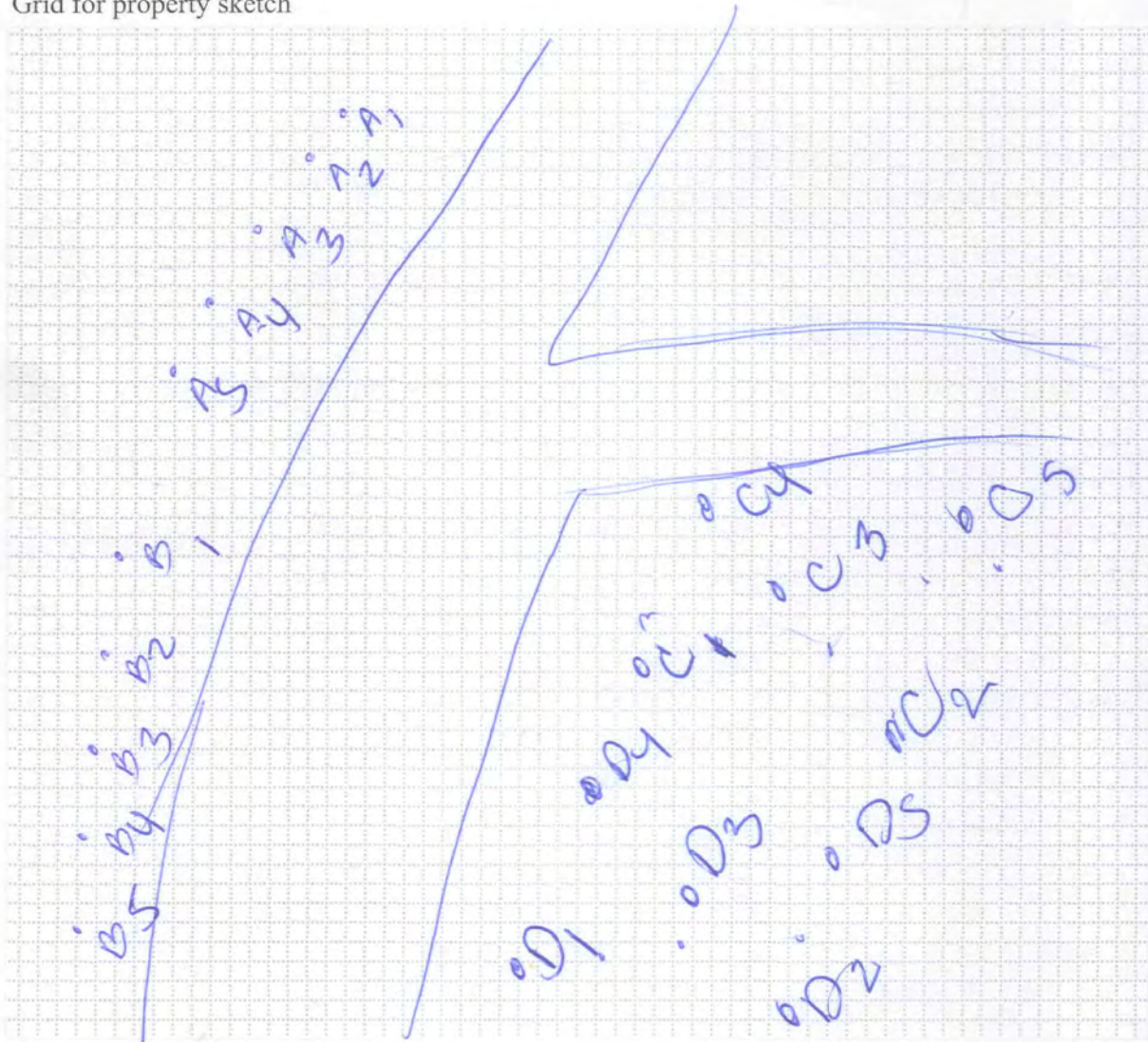
PROPERTY COMMENTS:

Vacant lot

overgrown w/ weeds and trees

w/ (b) (6) legal team

Grid for property sketch



STATION ID: Fm0312A SAMPLE ID: Fm0312A-CS-JP

SAMPLE COLLECTION TIME: 0929

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

west 29th St 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: Fm0312A

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>018594</u> Logged? <input checked="" type="checkbox"/> or N
Aliquot #1: Latitude: <u>33.56861124</u> N Longitude <u>86.81080628</u> W Media description: <u>DK brun sandy silt w/ lots of organic</u>
Aliquot #2: Latitude: <u>33.56853076</u> N Longitude <u>86.81082556</u> W Media description: <u>same as previous</u>
Aliquot #3: Latitude: <u>33.56881220</u> N Longitude <u>86.81086181</u> W Media description: <u>same as previous</u>
Aliquot #4: Latitude: <u>33.56843782</u> N Longitude <u>86.81085363</u> W Media description: <u>same as previous</u>
Aliquot #5: Latitude: <u>33.56837704</u> N Longitude <u>86.81088144</u> W Media description: <u>same as previous</u>

STATION ID: Fm0312B SAMPLE ID: Fm0312B-CS-JP

SAMPLE COLLECTION TIME: 0932

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

Southwest 29th St 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: Fm0312B

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>018594</u> Logged? <input checked="" type="checkbox"/> or N
Aliquot #1: Latitude: <u>33.56833556</u> N Longitude <u>86.81095119</u> W Media description: <u>DK brun sandy silt w/ debris</u>
Aliquot #2: Latitude: <u>33.56829806</u> N Longitude <u>86.81093526</u> W Media description: <u>same as previous</u>
Aliquot #3: Latitude: <u>33.56829629</u> N Longitude <u>86.81097228</u> W Media description: <u>same as previous</u>
Aliquot #4: Latitude: <u>33.56824665</u> N Longitude <u>86.81096551</u> W Media description: <u>same as previous</u>
Aliquot #5: Latitude: <u>33.56819570</u> N Longitude <u>86.81098931</u> W Media description: <u>same as previous</u>

(b) (6)

ADDRESS: _____

PROPERTY ID: Fm0812

DATE: 3/29/13

ARRIVAL TIME: 0853

Other pertinent information (weather conditions, etc.):

35°F, sunny

PROPERTY COMMENTS:

w/ (b) (6) legal team

Grid for property sketch

~~Refer to page 28~~

~~Beethmet
Brown 3/29/13~~

STATION ID: Fm0312C SAMPLE ID: Fm0312C-CS-SP

SAMPLE COLLECTION TIME: 0951

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):
east 29th St 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: Fm0312C

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>018594</u> Logged? <input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude: <u>33.56838374</u> N Longitude <u>86.81069775</u> W Media description: <u>brwn/orange silty clay</u>
Aliquot #2: Latitude: <u>33.56833302</u> N Longitude <u>86.81049401</u> W Media description: <u>same as previous</u>
Aliquot #3: Latitude: <u>33.56842576</u> N Longitude <u>86.81061001</u> W Media description: <u>same as previous</u>
Aliquot #4: Latitude: <u>33.56848206</u> N Longitude <u>86.81065143</u> W Media description: <u>same as previous</u>
Aliquot #5: Latitude: <u>33.56845950</u> N Longitude <u>86.81052616</u> W Media description: <u>same as previous</u>

STATION ID: Fm0312D SAMPLE ID: Fm0312D-CS-SP

SAMPLE COLLECTION TIME: 0945

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):
southeast 29th St 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: Fm0312D

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>018594</u> Logged? <input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude: <u>33.56818623</u> N Longitude <u>86.81085054</u> W Media description: <u>light/orange sandy clay</u>
Aliquot #2: Latitude: <u>33.56817019</u> N Longitude <u>86.81055564</u> W Media description: <u>same as previous</u>
Aliquot #3: Latitude: <u>33.56824804</u> N Longitude <u>86.81072327</u> W Media description: <u>same as previous</u>
Aliquot #4: Latitude: <u>33.56833524</u> N Longitude <u>86.81072394</u> W Media description: <u>same as previous</u>
Aliquot #5: Latitude: <u>33.56829393</u> N Longitude <u>86.81030099</u> W Media description: <u>same as previous</u>

(b) (6)

ADDRESS:

PROPERTY ID:

01V009Z

DATE:

3/21/13

ARRIVAL TIME:

1037

Other pertinent information (weather conditions, etc.):

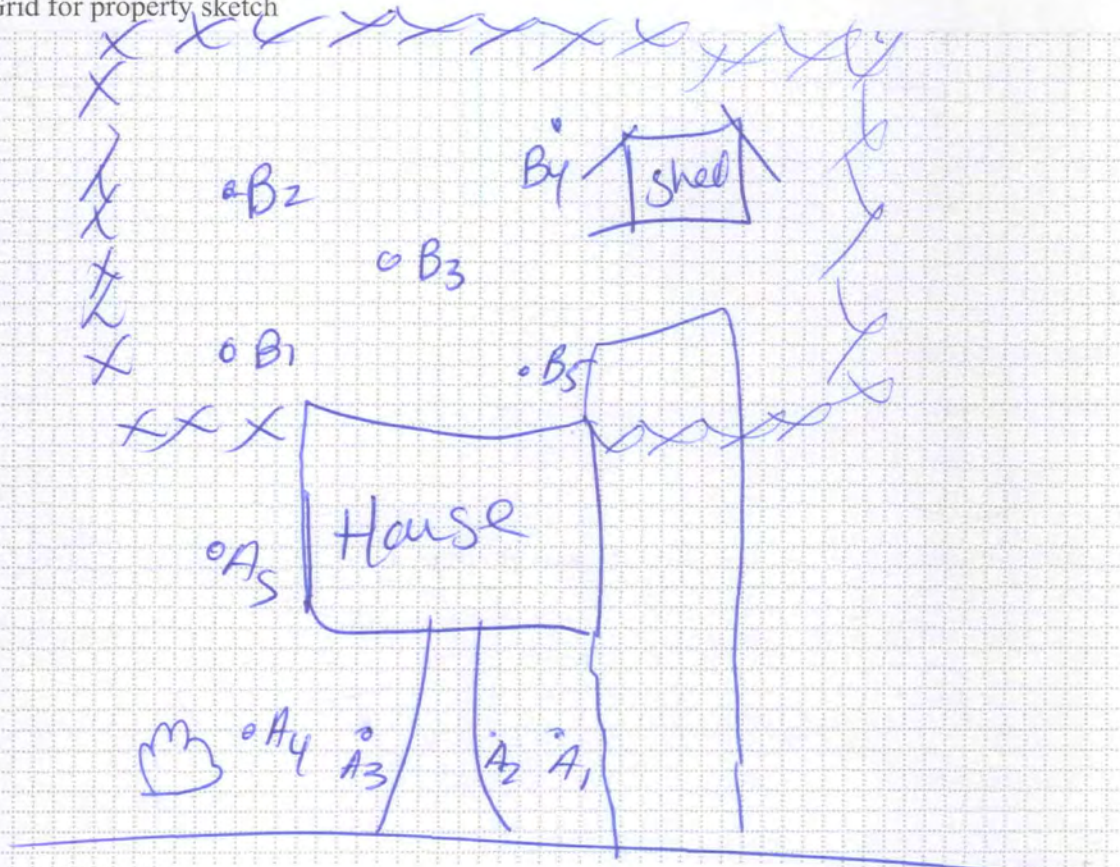
39°F, sunny

PROPERTY COMMENTS:

Resident Home

w/ (b) (6) legal team

Grid for property sketch



(b) (6)

STATION ID: CV0092A SAMPLE ID: CV0092A-CS-SP

SAMPLE COLLECTION TIME: 1046

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: CV0092A

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>018894</u> Logged? <input checked="" type="checkbox"/> Y or N	
Aliquot #1: Latitude: <u>33.55736216</u> N Longitude: <u>86.80486718</u> W	Media description: <u>DK brn/tan silty clay w/ coal damp</u>
Aliquot #2: Latitude: <u>33.55738344</u> N Longitude: <u>86.80486318</u> W	Media description: <u>same as previous</u>
Aliquot #3: Latitude: <u>33.55741548</u> N Longitude: <u>86.80486886</u> W	Media description: <u>same as previous</u>
Aliquot #4: Latitude: <u>33.55745101</u> N Longitude: <u>86.80486287</u> W	Media description: <u>same as previous</u>
Aliquot #5: Latitude: <u>33.55746380</u> N Longitude: <u>86.80482289</u> W	Media description: <u>same as previous</u>

STATION ID: CV0092B SAMPLE ID: CV0092B-CS-SP

SAMPLE COLLECTION TIME: 1055

Description of sample location (back, front, 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: CV0092B

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>018894</u> Logged? <input checked="" type="checkbox"/> Y or N	
Aliquot #1: Latitude: <u>33.55745753</u> N Longitude: <u>86.80464806</u> W	Media description: <u>DK brn silty clay</u>
Aliquot #2: Latitude: <u>33.55744909</u> N Longitude: <u>86.80454964</u> W	Media description: <u>same as previous</u>
Aliquot #3: Latitude: <u>33.55742289</u> N Longitude: <u>86.80456680</u> W	Media description: <u>same as previous</u>
Aliquot #4: Latitude: <u>33.55738225</u> N Longitude: <u>86.80453809</u> W	Media description: <u>same as previous</u>
Aliquot #5: Latitude: <u>33.55740262</u> N Longitude: <u>86.80460221</u> W	Media description: <u>Brn/orange clay w/ coal</u>

ADDRESS: (b) (6) PROPERTY ID: 0V0090

DATE: 3/21/13 ARRIVAL TIME: 1110

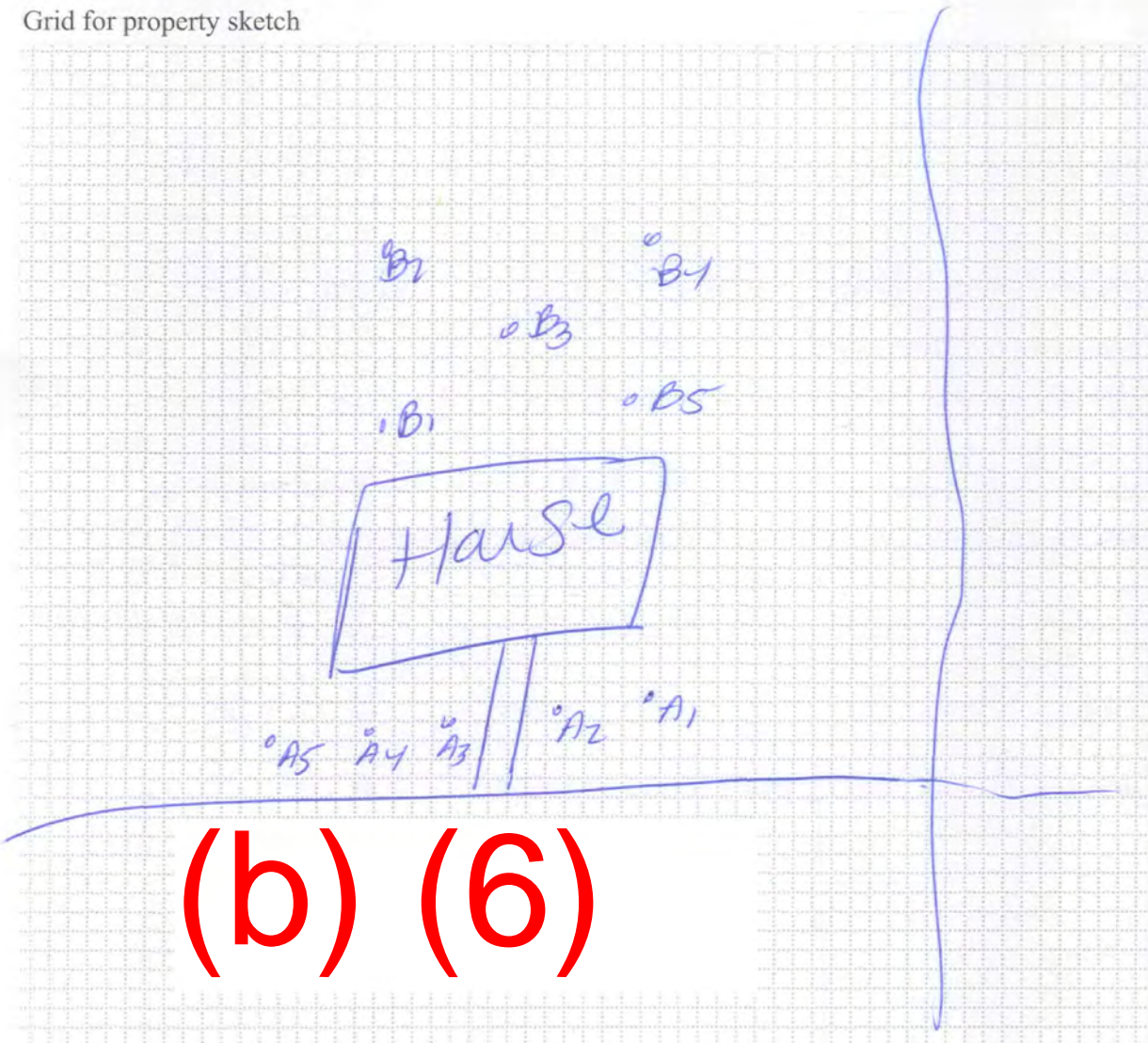
Other pertinent information (weather conditions, etc.):

42°F, sunny

PROPERTY COMMENTS:

Resident home
w/ (b) (6) legal team

Grid for property sketch



STATION ID: CV0090A SAMPLE ID: CV0090A-CS-SP

SAMPLE COLLECTION TIME: 1123

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: CV0090A

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>018594</u> Logged? <input checked="" type="checkbox"/> or N
Aliquot #1: Latitude: <u>33.55706236</u> N Longitude <u>86.80487157</u> W Media description: <u>DK brown silt w/ gravel & coal</u>
Aliquot #2: Latitude: <u>33.55709149</u> N Longitude <u>86.80487158</u> W Media description: <u>same as previous</u>
Aliquot #3: Latitude: <u>33.55711612</u> N Longitude <u>86.80487213</u> W Media description: <u>same as previous</u>
Aliquot #4: Latitude: <u>33.55714012</u> N Longitude <u>86.80487120</u> W Media description: <u>same as previous</u>
Aliquot #5: Latitude: <u>33.55716351</u> N Longitude <u>86.80487321</u> W Media description: <u>same as previous</u>

STATION ID: CV0090B SAMPLE ID: CV0090B-CS-SP

SAMPLE COLLECTION TIME: 1135

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: CV0090B

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>018594</u> Logged? <input checked="" type="checkbox"/> or N
Aliquot #1: Latitude: <u>33.55712684</u> N Longitude <u>86.80469489</u> W Media description: <u>Brown silt w/ gravel & coal</u>
Aliquot #2: Latitude: <u>33.55713246</u> N Longitude <u>86.80457290</u> W Media description: <u>same as previous</u>
Aliquot #3: Latitude: <u>33.55710117</u> N Longitude <u>86.80463642</u> W Media description: <u>same as previous</u>
Aliquot #4: Latitude: <u>33.55706861</u> N Longitude <u>86.80456413</u> W Media description: <u>same as previous</u>
Aliquot #5: Latitude: <u>33.55707265</u> N Longitude <u>86.80469204</u> W Media description: <u>same as previous</u>

(b) (6)

ADDRESS:

PROPERTY ID:

CY0663

DATE:

3/2/13

ARRIVAL TIME:

1307

Other pertinent information (weather conditions, etc.):

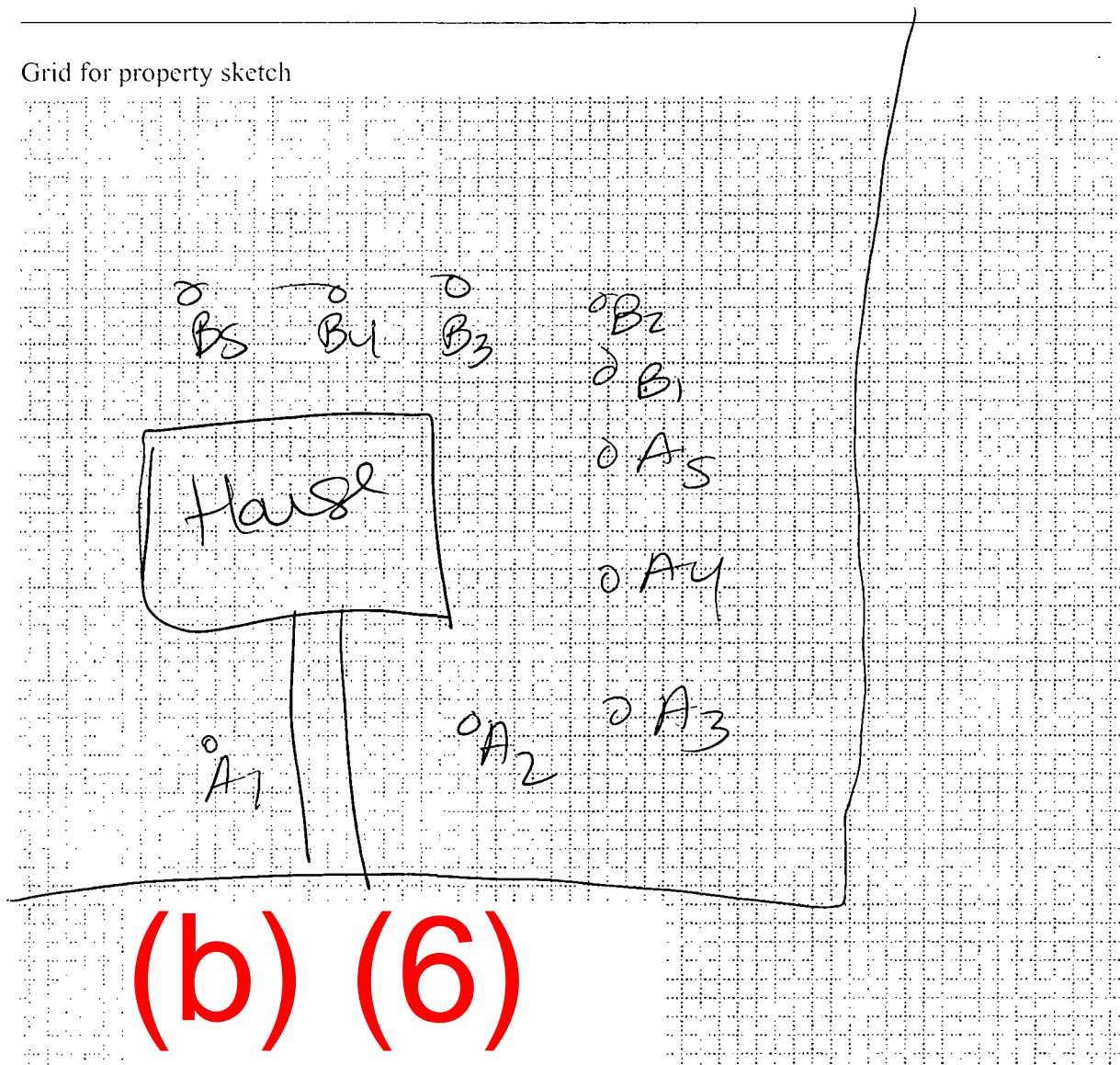
50°F, Sunny

PROPERTY COMMENTS:

Resident Home

w/ (b) (6) legal team

Grid for property sketch



(b) (6)

STATION ID: CV0663A SAMPLE ID: CV0663A-CS-JP

SAMPLE COLLECTION TIME: 1315

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: CV0663A

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>018894</u> Logged <input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude: <u>33.55998132</u> N Longitude <u>86.80008024</u> W Media description: <u>Brown silt w/ gravel</u>
Aliquot #2: Latitude: <u>33.55993532</u> N Longitude <u>86.80012690</u> W Media description: <u>same as previous</u>
Aliquot #3: Latitude: <u>33.55988957</u> N Longitude <u>86.80010871</u> W Media description: <u>same as previous</u>
Aliquot #4: Latitude: <u>33.55986371</u> N Longitude <u>86.80007670</u> W Media description: <u>same as previous</u>
Aliquot #5: Latitude: <u>33.55982632</u> N Longitude <u>86.80002891</u> W Media description: <u>same as previous</u>

STATION ID: CV0663B SAMPLE ID: CV0663B-CS-JP

SAMPLE COLLECTION TIME: 1320

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: CV0663B

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>018894</u> Logged <input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude: <u>33.55978425</u> N Longitude <u>86.79998161</u> W Media description: <u>DK brown/blk silt w/ coal fragment</u> S
Aliquot #2: Latitude: <u>33.55975763</u> N Longitude <u>86.79993823</u> W Media description: <u>same as previous</u>
Aliquot #3: Latitude: <u>33.55976848</u> N Longitude <u>86.79988550</u> W Media description: <u>same as previous</u>
Aliquot #4: Latitude: <u>33.55979283</u> N Longitude <u>86.79985797</u> W Media description: <u>same as previous</u>
Aliquot #5: Latitude: <u>33.55981770</u> N Longitude <u>86.79983308</u> W Media description: <u>same as previous</u>

(b) (6)

ADDRESS:

PROPERTY ID:

Fm0017

DATE:

3/21/13

ARRIVAL TIME:

1336

Other pertinent information (weather conditions, etc.):

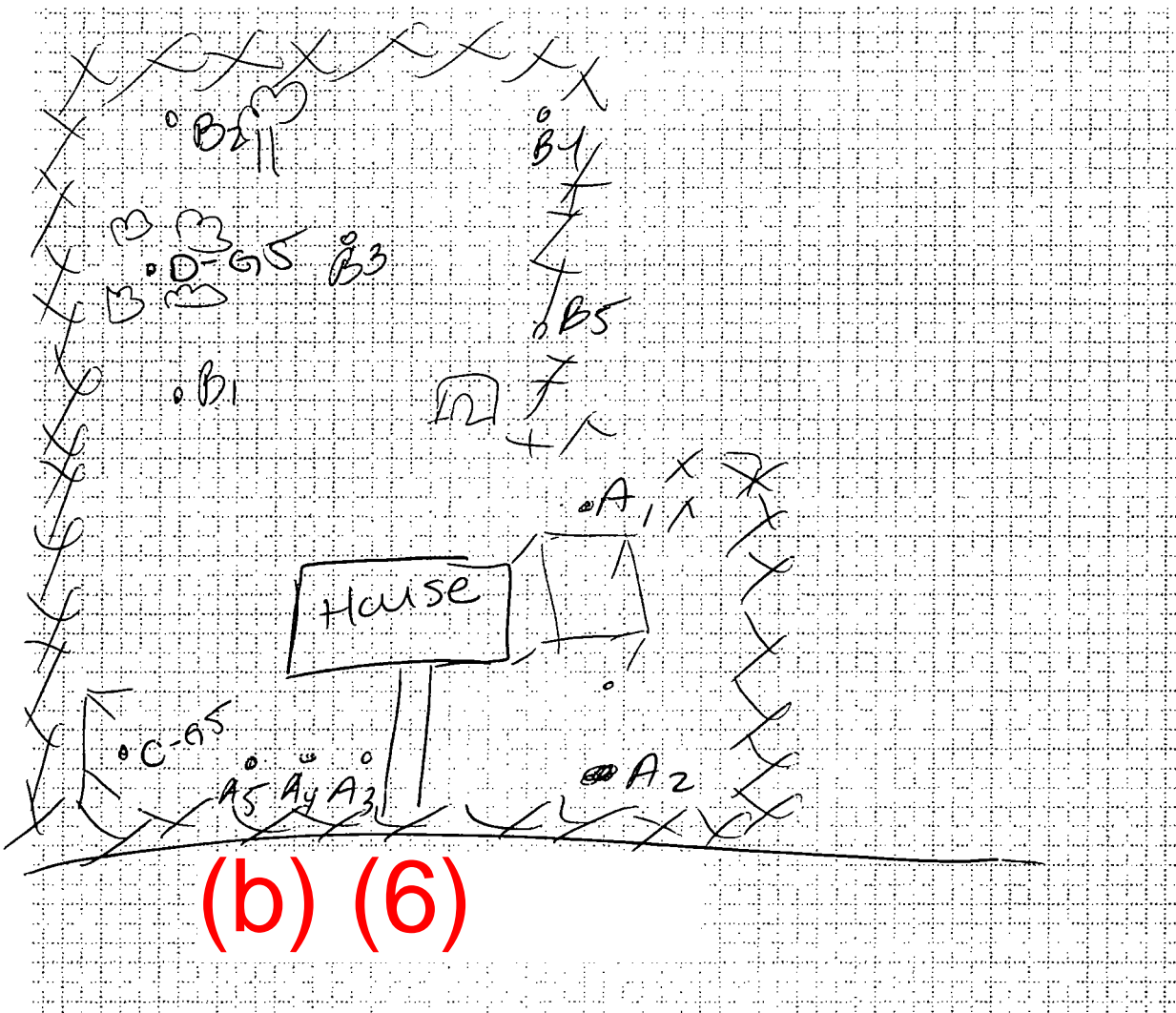
50°F, Sunny

PROPERTY COMMENTS:

Resident Home

w/ (b) (6) legal team

Grid for property sketch



STATION ID: FM0017A SAMPLE ID: FM0017A-CS-JD

SAMPLE COLLECTION TIME: 1355

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: FM0017A

GPS Coordinates:	Trimble <input checked="" type="checkbox"/>	Instrument #:	<u>018594</u>	Logged?	<input checked="" type="checkbox"/>	Y or N
Aliquot #1:	Latitude:	<u>33.56452785</u>	N Longitude	<u>86.81007520</u>	W	
	Media description:	<u>DK brn/tan silty tan w/ccal & debris dump</u>				
Aliquot #2:	Latitude:	<u>33.56453690</u>	N Longitude	<u>86.81018701</u>	W	
	Media description:	<u>same as previous</u>				
Aliquot #3:	Latitude:	<u>33.56460297</u>	N Longitude	<u>86.81019286</u>	W	
	Media description:	<u>same as previous</u>				
Aliquot #4:	Latitude:	<u>33.56466209</u>	N Longitude	<u>86.81019659</u>	W	
	Media description:	<u>same as previous</u>				
Aliquot #5:	Latitude:	<u>33.56471837</u>	N Longitude	<u>86.81019781</u>	W	
	Media description:	<u>same as previous</u>				

STATION ID: FM0017B SAMPLE ID: FM0017B-CS-JD

SAMPLE COLLECTION TIME: 1405

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: FM0017B

GPS Coordinates:	Trimble <input checked="" type="checkbox"/>	Instrument #:	<u>018594</u>	Logged?	<input checked="" type="checkbox"/>	Y or N
Aliquot #1:	Latitude:	<u>33.56478695</u>	N Longitude	<u>86.80999964</u>	W	
	Media description:	<u>DK brn silty clay w/ccal</u>				
Aliquot #2:	Latitude:	<u>33.56476879</u>	N Longitude	<u>86.80984110</u>	W	
	Media description:	<u>light brn/tan clay stained</u>				
Aliquot #3:	Latitude:	<u>33.56472835</u>	N Longitude	<u>86.80992619</u>	W	
	Media description:	<u>DK brn silty clay w/ccal</u>				
Aliquot #4:	Latitude:	<u>33.56469966</u>	N Longitude	<u>86.80986828</u>	W	
	Media description:	<u>light/brn tan clay stained</u>				
Aliquot #5:	Latitude:	<u>33.56470382</u>	N Longitude	<u>86.80998442</u>	W	
	Media description:	<u>DK brn silty clay w/ccal</u>				

(b) (6)

ADDRESS:

PROPERTY ID:

Fm0017

DATE:

3/21/13

ARRIVAL TIME:

1336

Other pertinent information (weather conditions, etc.):

50°F, Sunny

PROPERTY COMMENTS:

Resident Home

w/ (b) (6) legal team

Grid for property sketch

~~Refer to page 38~~

~~Building~~

~~3/21/13~~

STATION ID: FM0017C SAMPLE ID: FM0017C-GJ-SP

SAMPLE COLLECTION TIME: 1400

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: FM0017C

GPS Coordinates: Trimble [4] Instrument #: 018599 Logged? Y or N

Aliquot #1: Latitude: 33.56476107 N Longitude: 86.81016762 W
Media description: DK brown silty clay w/ coal

~~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: _____~~

BB 3/21/13

STATION ID: FM0017D SAMPLE ID: FM0017D-GJ-SP

SAMPLE COLLECTION TIME: 1410

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: FM0017D

GPS Coordinates: Trimble [4] Instrument #: 018599 Logged? Y or N

Aliquot #1: Latitude: 33.56476557 N Longitude: 86.80996166 W
Media description: DK brown silty clay w/ gravel stained

~~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: _____~~

BB

(b) (6)

ADDRESS:

PROPERTY ID:

CVO 443

DATE:

3/21/13

ARRIVAL TIME:

1445

Other pertinent information (weather conditions, etc.):

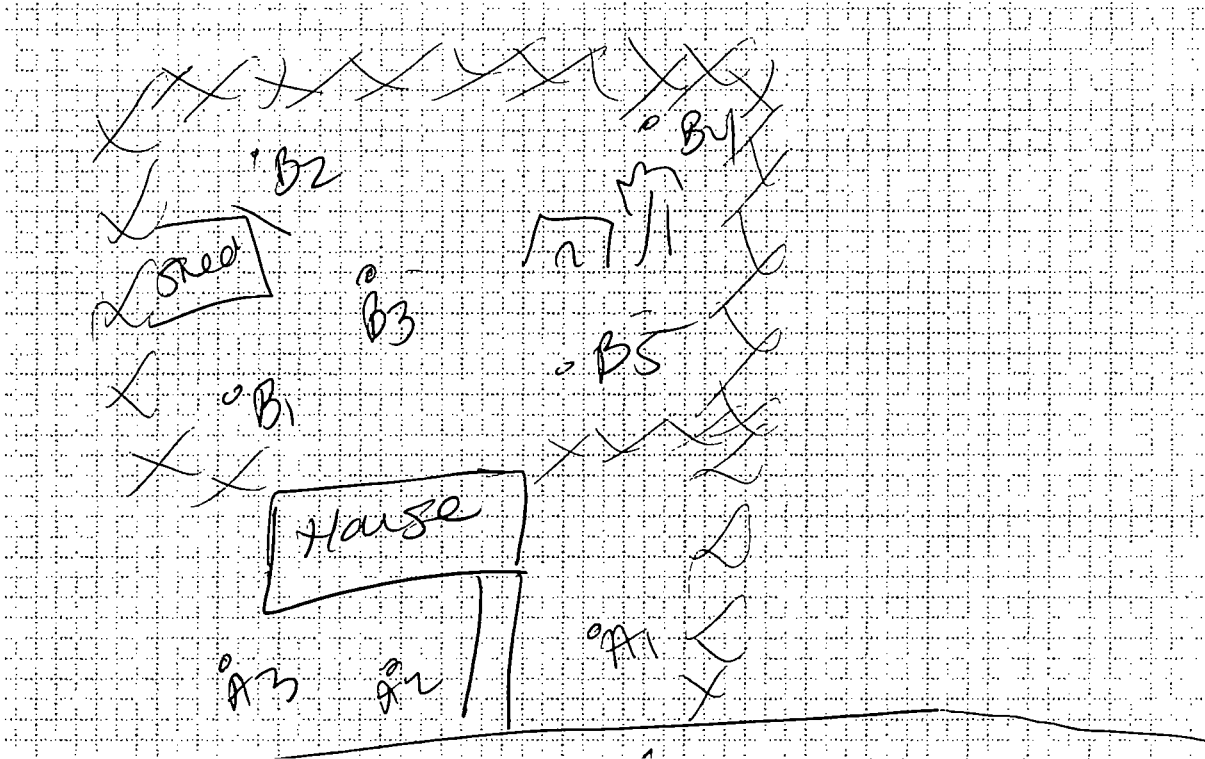
56°F, sunny

PROPERTY COMMENTS:

Resident Home

w/ (b) (6) legal team

Grid for property sketch



(b) (6)

STATION ID: CV0443A SAMPLE ID: CV0443A-CS-JP

SAMPLE COLLECTION TIME: 1457

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: CV0443A

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: <u>018894</u> Logged? <input checked="" type="checkbox"/> or N
Aliquot #1: Latitude: <u>33.55472770</u> N Longitude: <u>86.80064110</u> W Media description: <u>reddish brown silt damp w/ slag + coal</u>
Aliquot #2: Latitude: <u>33.55469643</u> N Longitude: <u>86.80063828</u> W Media description: <u>same as previous</u>
Aliquot #3: Latitude: <u>33.55465688</u> N Longitude: <u>86.80064527</u> W Media description: <u>same as previous</u>
Aliquot #4: Latitude: _____ N Longitude: _____ W Media description: _____
Aliquot #5: Latitude: _____ N Longitude: _____ W Media description: _____

STATION ID: CV0443B SAMPLE ID: CV0443B-CS-JP

SAMPLE COLLECTION TIME: 1459

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: CV0443B

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #: <u>018894</u> Logged? <input checked="" type="checkbox"/> or N
Aliquot #1: Latitude: <u>33.55462866</u> N Longitude: <u>86.80090172</u> W Media description: <u>reddish sandy silt</u>
Aliquot #2: Latitude: <u>33.55465422</u> N Longitude: <u>86.80104931</u> W Media description: <u>DK brun silty clay</u>
Aliquot #3: Latitude: <u>33.55467236</u> N Longitude: <u>86.80097556</u> W Media description: <u>DK brun silty clay</u>
Aliquot #4: Latitude: <u>33.55471682</u> N Longitude: <u>86.80107815</u> W Media description: <u>DK brun silty clay</u>
Aliquot #5: Latitude: <u>33.55470511</u> N Longitude: <u>86.80088842</u> W Media description: <u>reddish sandy silt</u>

(b) (6)

ADDRESS:

PROPERTY ID:

CV0476

DATE:

3/21/13

ARRIVAL TIME:

1524

Other pertinent information (weather conditions, etc.):

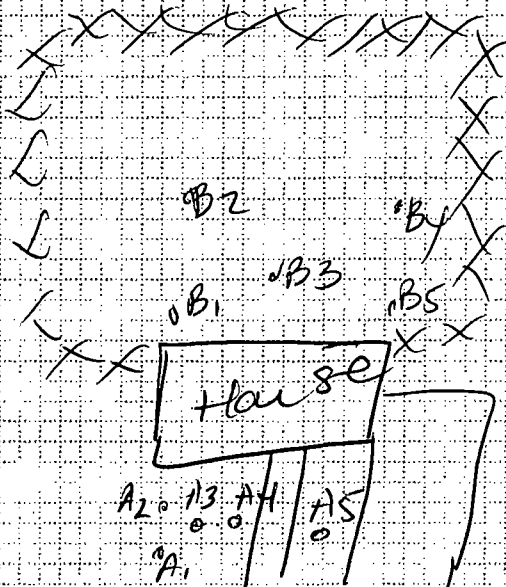
50°F, Sunny

PROPERTY COMMENTS:

Resident Home

w/ (b) (6) legal team

Grid for property sketch



(b) (6)

STATION ID: CV0476A SAMPLE ID: CV0476A-CS-SP

SAMPLE COLLECTION TIME: 1535

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: CV0476A

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>018594</u> Logged? [<input checked="" type="checkbox"/>] or N
Aliquot #1: Latitude: <u>33.55747060</u> N Longitude <u>86.80042439</u> W Media description: <u>orange/brown silty clay</u>
Aliquot #2: Latitude: <u>33.55747112</u> N Longitude <u>86.80037077</u> W Media description: <u>same as previous</u>
Aliquot #3: Latitude: <u>33.55743542</u> N Longitude <u>86.80040802</u> W Media description: <u>same as previous</u>
Aliquot #4: Latitude: <u>33.55741743</u> N Longitude <u>86.80040881</u> W Media description: <u>same as previous</u>
Aliquot #5: Latitude: <u>33.55739814</u> N Longitude <u>86.80041184</u> W Media description: <u>same as previous</u>

STATION ID: CV0476B SAMPLE ID: CV0476B-CS-SP

SAMPLE COLLECTION TIME: 1544

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: CV0476B

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>018594</u> Logged? [<input checked="" type="checkbox"/>] or N
Aliquot #1: Latitude: <u>33.55744933</u> N Longitude <u>86.80017668</u> W Media description: <u>orange/brown silty clay damp</u>
Aliquot #2: Latitude: <u>33.55744565</u> N Longitude <u>86.80004622</u> W Media description: <u>same as previous</u>
Aliquot #3: Latitude: <u>33.55744518</u> N Longitude <u>86.80009554</u> W Media description: <u>same as previous</u>
Aliquot #4: Latitude: <u>33.55738433</u> N Longitude <u>86.80003143</u> W Media description: <u>same as previous</u>
Aliquot #5: Latitude: <u>33.55738207</u> N Longitude <u>86.80016714</u> W Media description: <u>same as previous</u>

(b) (6)

ADDRESS: _____

PROPERTY ID: CV0866

DATE: 3/21/13

ARRIVAL TIME: 1552

Other pertinent information (weather conditions, etc.):

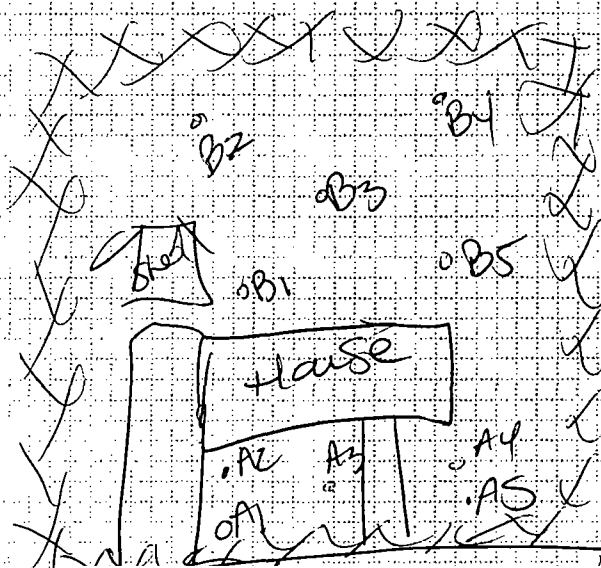
SSOF, sunny

PROPERTY COMMENTS:

Resident Home

w/ (b) (6) legal team

Grid for property sketch



(b) (6)

STATION ID: CV0566A SAMPLE ID: CV0566A-CS-SP

SAMPLE COLLECTION TIME: 1601

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: CV0566A

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>018894</u> Logged? <u>Y</u> or N
Aliquot #1: Latitude: <u>33.55786288</u> N Longitude <u>86.79845525</u> W Media description: <u>reddish brown silty clay w/ coal</u>
Aliquot #2: Latitude: <u>33.55786151</u> N Longitude <u>86.79849719</u> W Media description: <u>reddish brown silty clay</u>
Aliquot #3: Latitude: <u>33.55790691</u> N Longitude <u>86.79847500</u> W Media description: <u>reddish brown silty clay w/ coal</u>
Aliquot #4: Latitude: <u>33.55793456</u> N Longitude <u>86.79850172</u> W Media description: <u>reddish brown silty clay</u>
Aliquot #5: Latitude: <u>33.55793538</u> N Longitude <u>86.79845311</u> W Media description: <u>reddish brown silty clay</u>

STATION ID: CV0566B SAMPLE ID: CV0566B-CS-SP

SAMPLE COLLECTION TIME: 1610

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: CV0566B

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>018894</u> Logged? <u>Y</u> or N
Aliquot #1: Latitude: <u>33.55784891</u> N Longitude <u>86.79868541</u> W Media description: <u>orange/brown silty clay damp w/ slag</u>
Aliquot #2: Latitude: <u>33.55785747</u> N Longitude <u>86.79885330</u> W Media description: <u>same as previous</u>
Aliquot #3: Latitude: <u>33.55789765</u> N Longitude <u>86.79878021</u> W Media description: <u>same as previous</u>
Aliquot #4: Latitude: <u>33.55792343</u> N Longitude <u>86.79885243</u> W Media description: <u>same as previous</u>
Aliquot #5: Latitude: <u>33.55792455</u> N Longitude <u>86.79869204</u> W Media description: <u>same as previous</u>

(b) (6)

ADDRESS:

PROPERTY ID:

HP0084

DATE:

3/22/13

ARRIVAL TIME:

0747

Other pertinent information (weather conditions, etc.):

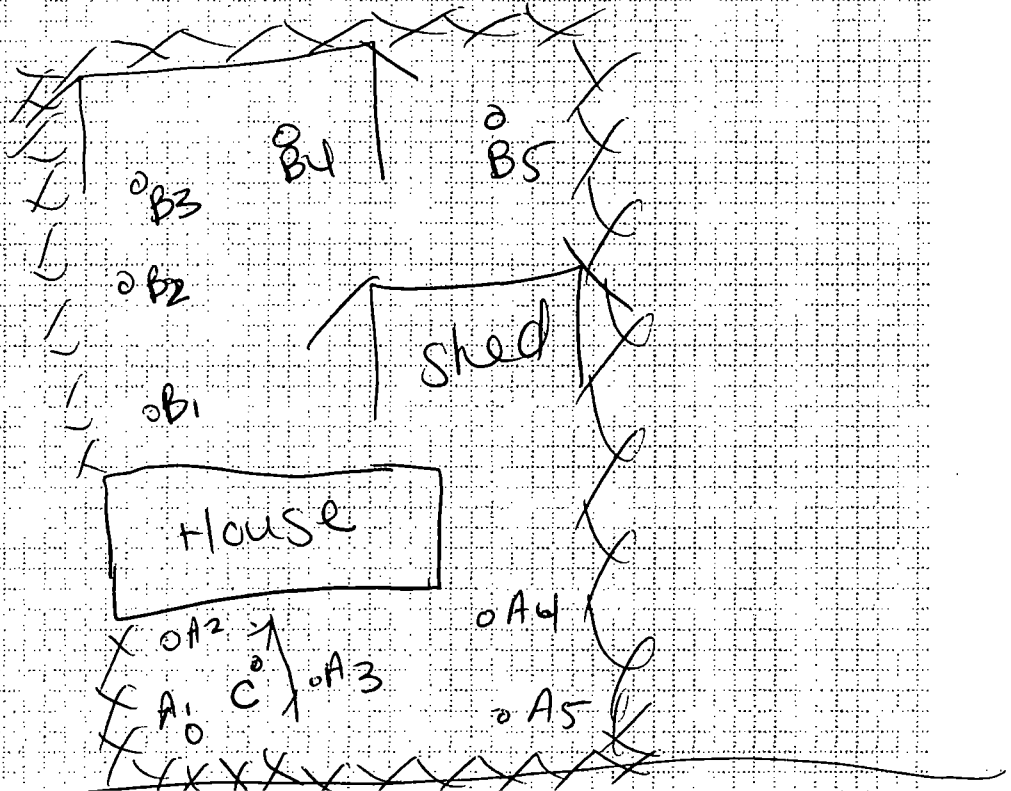
41°F, Partly cloudy

PROPERTY COMMENTS:

Resident Home

w/ (b) (6) legal team

Grid for property sketch



(b) (6)

STATION ID: HP0084A SAMPLE ID: HP0084A-CS-SD

SAMPLE COLLECTION TIME: 0805

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: HP0084A

GPS Coordinates:	Trimble [<input checked="" type="checkbox"/>]	Instrument #:	<u>018594</u>	Logged:	<input checked="" type="checkbox"/> Y or N
Aliquot #1:	Latitude:	<u>33.56506773</u>	N Longitude	<u>86.79531610</u>	W
	Media description:	<u>Brun silt w/ organic debris damp</u>			
Aliquot #2:	Latitude:	<u>33.56509723</u>	N Longitude	<u>86.79531366</u>	W
	Media description:	<u>same as previous</u>			
Aliquot #3:	Latitude:	<u>33.56509594</u>	N Longitude	<u>86.79529900</u>	W
	Media description:	<u>same as previous</u>			
Aliquot #4:	Latitude:	<u>33.56509468</u>	N Longitude	<u>86.79526840</u>	W
	Media description:	<u>same as previous</u>			
Aliquot #5:	Latitude:	<u>33.56506543</u>	N Longitude	<u>86.79526884</u>	W
	Media description:	<u>same as previous</u>			

STATION ID: HP0084B SAMPLE ID: HP0084B-CS-SD

SAMPLE COLLECTION TIME: 0815

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: HP0084B

GPS Coordinates:	Trimble [<input checked="" type="checkbox"/>]	Instrument #:	<u>018594</u>	Logged:	<input checked="" type="checkbox"/> Y or N
Aliquot #1:	Latitude:	<u>33.56525047</u>	N Longitude	<u>86.79539421</u>	W
	Media description:	<u>DK brun silt</u>			
Aliquot #2:	Latitude:	<u>33.56532560</u>	N Longitude	<u>86.79538677</u>	W
	Media description:	<u>DK brun silt</u>			
Aliquot #3:	Latitude:	<u>33.56534672</u>	N Longitude	<u>86.79537928</u>	W
	Media description:	<u>DK brun silt</u>			
Aliquot #4:	Latitude:	<u>33.56538325</u>	N Longitude	<u>86.79535876</u>	W
	Media description:	<u>DK brun silt</u>			
Aliquot #5:	Latitude:	<u>33.56539310</u>	N Longitude	<u>86.79529966</u>	W
	Media description:	<u>DK brun silt</u>			

(b) (6)

ADDRESS:

PROPERTY ID:

HP0084

DATE:

3/22/13

ARRIVAL TIME:

0747

Other pertinent information (weather conditions, etc.):

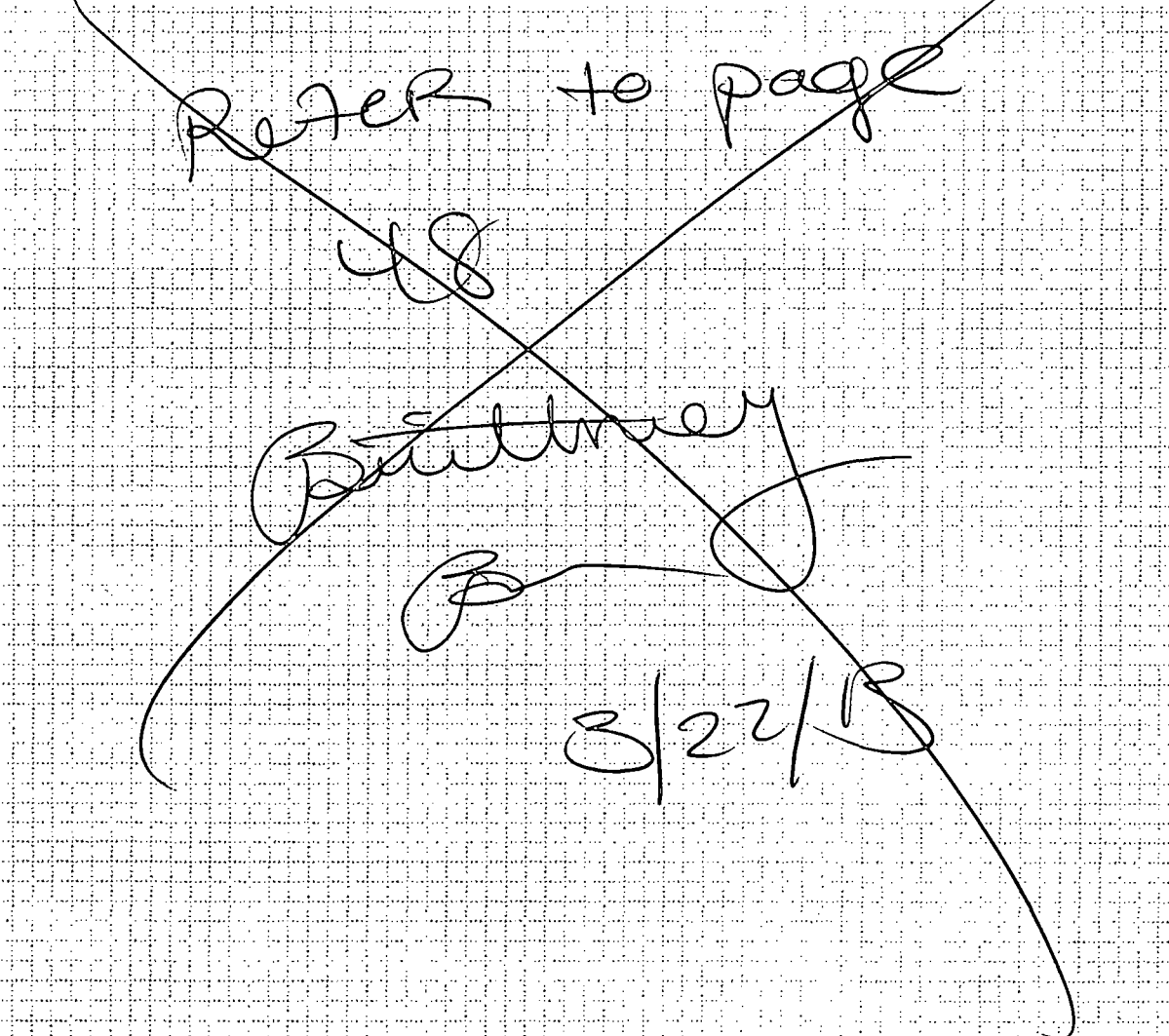
41°F, Partly cloudy

PROPERTY COMMENTS:

Resident Home

w/ (b) (6) legal team

Grid for property sketch



STATION ID: HP0084C SAMPLE ID: HP0084C-GS-SP

SAMPLE COLLECTION TIME: 0808

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: HP0084C

GPS Coordinates: Trimble [] Instrument #: 018894 Logged? [] or N

Aliquot #1: Latitude: 33.56508867 N Longitude: 86.79529374 W
Media description: Brown silt dry

~~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: _____~~

AS 3/22/13

STATION ID: _____ SAMPLE ID: _____

SAMPLE COLLECTION TIME: _____

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 #: _____ 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: _____

AS 3/22/13

(b) (6)

ADDRESS:

ID: CV0664

DATE: 3/22/13

ARRIVAL TIME: 0847

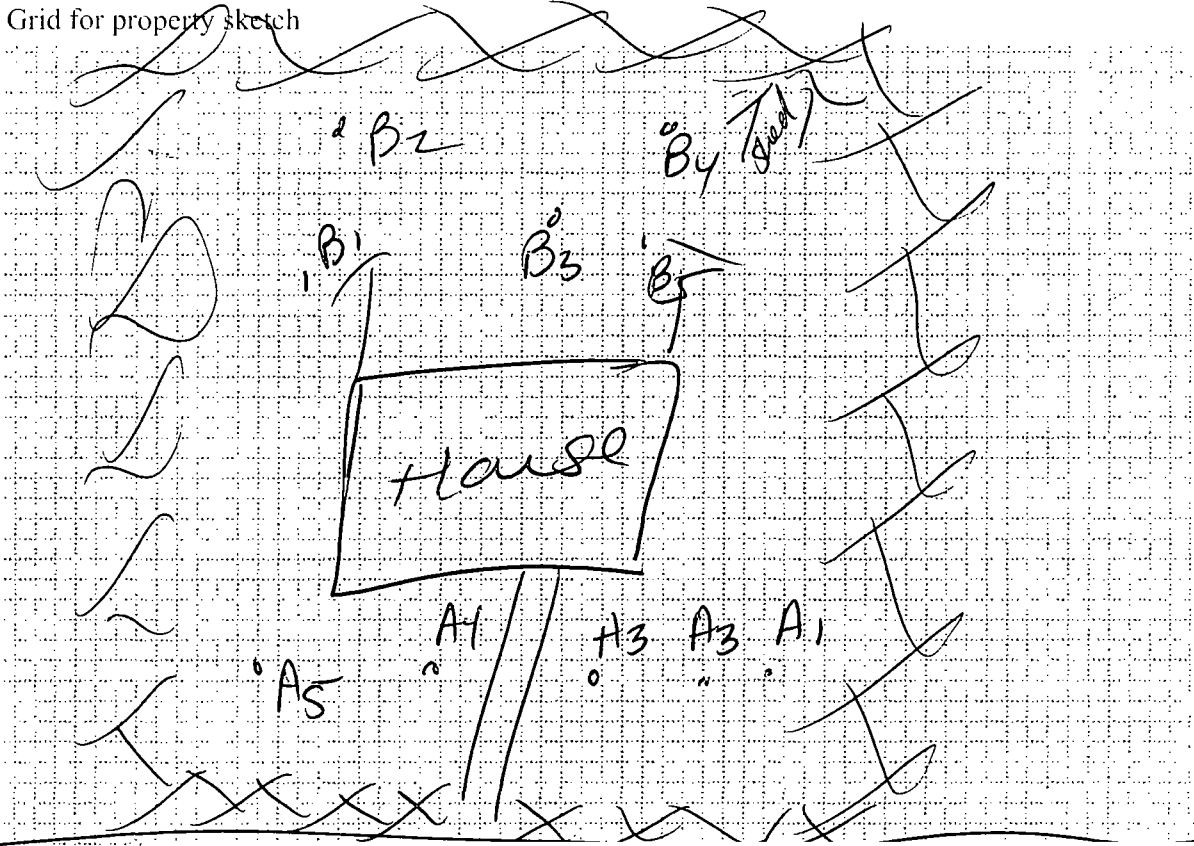
Other pertinent information (weather conditions, etc.):

46°F, Rainy, Cloudy

PROPERTY COMMENTS:

Resident Home
w/ (b) (6) legal team

Grid for property sketch



(b) (6)

STATION ID: CV0664A SAMPLE ID: CV0664A-C2-JP

SAMPLE COLLECTION TIME: 0856

Description of sample location (C front, C back, side C 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: CV0664A

GPS Coordinates:	Trimble [<u>Y</u>] Instrument #: <u>018594</u>	Logged? [<u>Y</u>] or N
Aliquot #1:	Latitude: <u>33.86001201</u> N Longitude: <u>86.80004029</u> W	Media description: <u>brwn/red silty clay w/ coal</u>
Aliquot #2:	Latitude: <u>33.86003783</u> N Longitude: <u>86.80001569</u> W	Media description: <u>brwn/red silty clay</u>
Aliquot #3:	Latitude: <u>33.86005433</u> N Longitude: <u>86.79999378</u> W	Media description: <u>brwn/red silty clay w/ coal</u>
Aliquot #4:	Latitude: <u>33.86007677</u> N Longitude: <u>86.79997240</u> W	Media description: <u>same as previous</u>
Aliquot #5:	Latitude: <u>33.86009658</u> N Longitude: <u>86.79994144</u> W	Media description: <u>same as brwn/red silty clay</u>

STATION ID: CV0664B SAMPLE ID: CV0664B-C5-JP

SAMPLE COLLECTION TIME: 0905

Description of sample location (C front, C back, side C 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: CV0664B

GPS Coordinates:	Trimble [<u>Y</u>] Instrument #: <u>018594</u>	Logged? [<u>Y</u>] or N
Aliquot #1:	Latitude: <u>33.55993053</u> N Longitude: <u>86.79981181</u> W	Media description: <u>DK brwn silt w/ gravel</u>
Aliquot #2:	Latitude: <u>33.55987067</u> N Longitude: <u>86.79970682</u> W	Media description: <u>same as previous</u>
Aliquot #3:	Latitude: <u>33.55988376</u> N Longitude: <u>86.79972963</u> W	Media description: <u>same as previous</u>
Aliquot #4:	Latitude: <u>33.55982864</u> N Longitude: <u>86.79974384</u> W	Media description: <u>same as previous</u>
Aliquot #5:	Latitude: <u>33.55989142</u> N Longitude: <u>86.79984468</u> W	Media description: <u>same as previous</u>

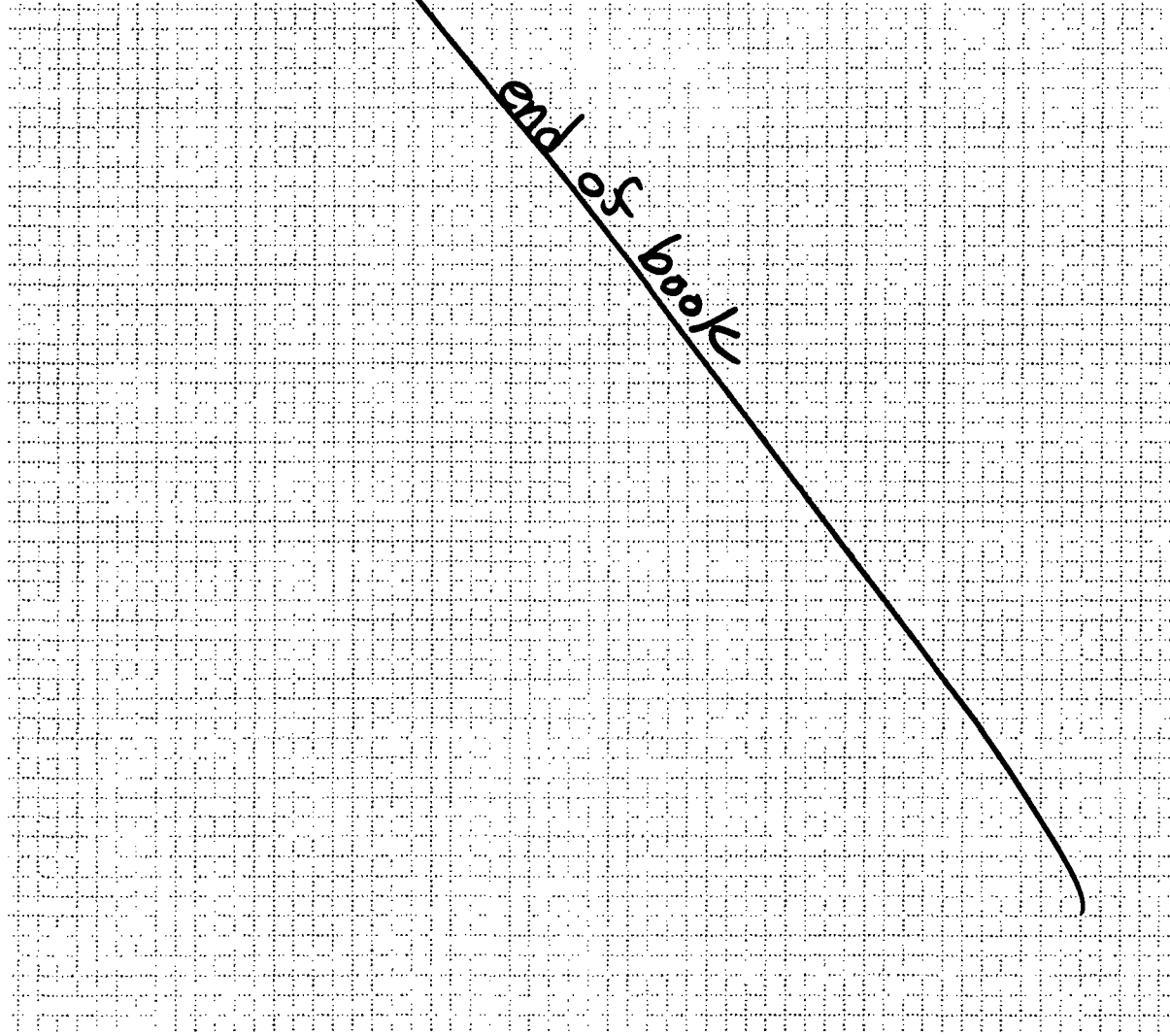
ADDRESS: _____ PROPERTY ID: _____

DATE: _____ ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



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