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United States Environmental Protection Agency
Region 4

OTIE
Oneida Total Integrated Enterprises

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

FIELD SAMPLING LOGBOOK

Book ____ **of** ____

Inclusive Dates: 12-17-12 to 12-19-12

List of Sampling Team in logbook:

Name	Initials	Organization/Duties
(b) (6)		Doug Fraley, Team Leader
		OTIE
		URS

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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 (≤) 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 ≤ 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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(b) (6)

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.

ADDRESS: (b) (6) PROPERTY ID: FM-0266

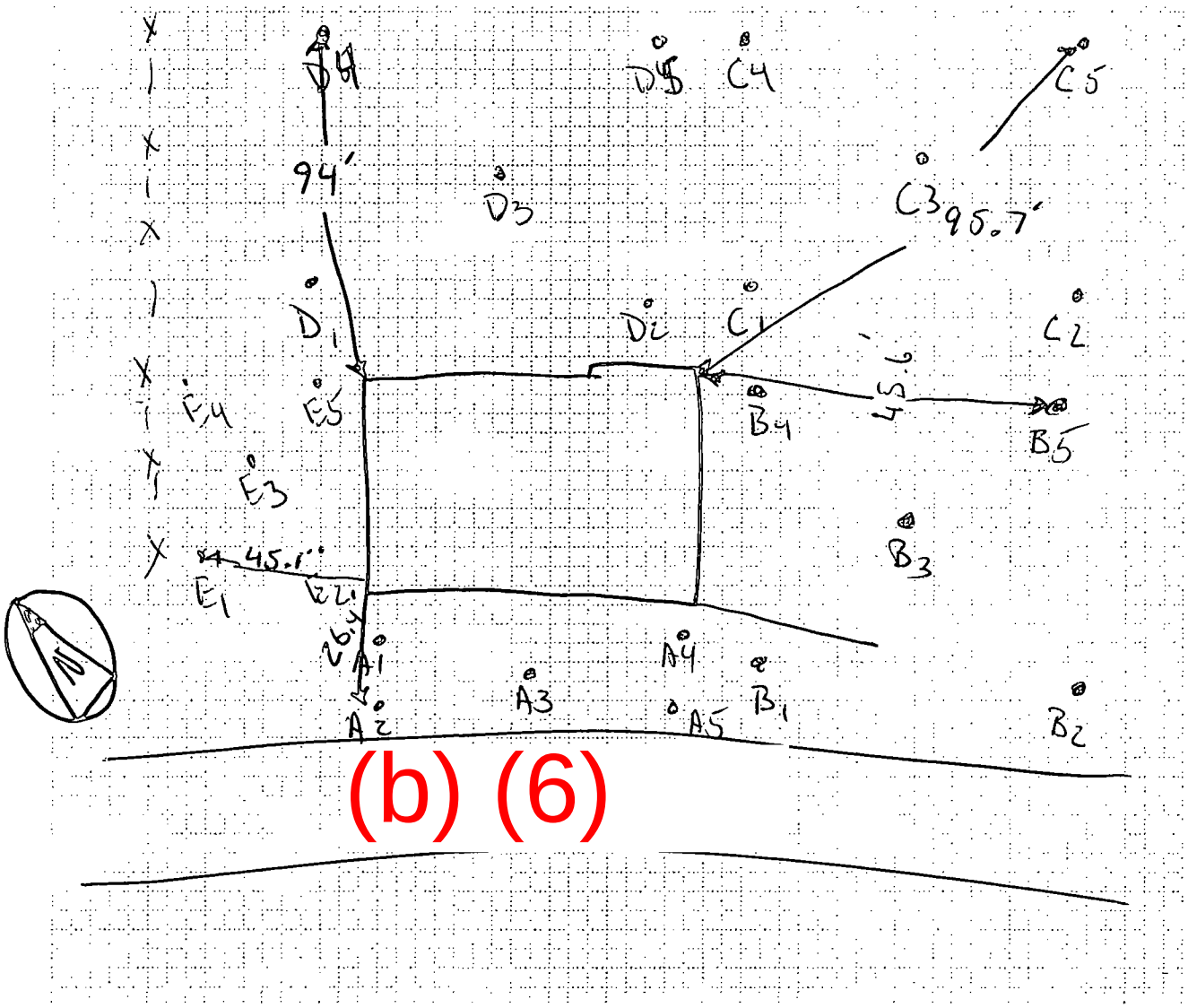
DATE: 12-17-12 ARRIVAL TIME: 1315

Other pertinent information (weather conditions, etc.):

60° Overcast

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: FM-0266 SAMPLE ID: FM-0266A-CS

SAMPLE COLLECTION TIME: 1334

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

FRONT YARD

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 #: 020168 Logged? Y or N

Aliquot #1: *Latitude:* 33.563664057 N *Longitude* 86.813738849 W

Media description: Dark Brown Sandy Soil Refusal @ 3"

Aliquot #2 *Latitude:* 33.563655163 N *Longitude* 86.813745 18 W

Media description: Dark Brown Sandy Soil Refusal @ 3"

Aliquot #3: *Latitude:* 33.563658326 N *Longitude* 86.813771414 W

Media description: Dark Brown Sandy Soil Refusal @ 2"

Aliquot #4: *Latitude:* 33.563663684 N *Longitude* 86.813770770 W

Media description: Dark Brown Sandy Soil with construction debr

Aliquot #5: *Latitude:* 33.563656239 N *Longitude* 86.813771327 W

Media description: SAME AS #3

STATION ID: FM-0266 SAMPLE ID: FM-0266B-CS

SAMPLE COLLECTION TIME: 1331

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

SIDE YARD

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 #: 020168 Logged? Y or N

Aliquot #1: *Latitude:* 33.563652153 N *Longitude* 86.813688950 W

Media description: Dark Brown silty Soil

Aliquot #2 *Latitude:* 33.563639211 N *Longitude* 86.813688907 W

Media description: Dark Brown silty soil

Aliquot #3: *Latitude:* 33.563647099 N *Longitude* 86.813559191 W

Media description: Same as 2

Aliquot #4: *Latitude:* 33.563651587 N *Longitude* 86.813553499 W

Media description: Same as 2

Aliquot #5: *Latitude:* 33.563~~57426~~41650 N *Longitude* 86.813~~45585~~513609 W

Media description: Same as 2 + wet

ADDRESS: CONT PROPERTY ID: FM-0266

DATE: 12/17/2012 ARRIVAL TIME: 1315

Other pertinent information (weather conditions, etc.):

SEE PAGE 6

PROPERTY COMMENTS:

SEE PAGE 6

Grid for property sketch

SEE PAGE 6

STATION ID: Fm-0266 SAMPLE ID: Fm0266C-CS

SAMPLE COLLECTION TIME: 13:48

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

BACK YARD

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 #: 020168 Logged? Y or N

Aliquot #1: *Latitude:* 33.56357420 N *Longitude* 86.81345585 W
Media description: WET SOIL

Aliquot #2 *Latitude:* 33.56340435 N *Longitude* 86.81343578 W
Media description: SAME AS #1

Aliquot #3: *Latitude:* 33.56348765 N *Longitude* 86.81336089 W
Media description: SAME AS #1

Aliquot #4: *Latitude:* 33.56356093 N *Longitude* 86.81325841 W
Media description: SAME AS #1

Aliquot #5: *Latitude:* 33.56341756 N *Longitude* 86.81326411 W
Media description: SAME AS #1

STATION ID: Fm-0266 SAMPLE ID: Fm0266D-CS

SAMPLE COLLECTION TIME: 13:50

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

BACK YARD

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:* 33.56356675 N *Longitude* 86.81343548 W
Media description: SANDY BLACK-DARK BROWN SOIL -WET WITH ORGANIC MATERIALS

Aliquot #2 *Latitude:* 33.56363221 N *Longitude* 86.81325814 W
Media description: SAME AS #1

Aliquot #3: *Latitude:* 33.56369783 N *Longitude* 86.81337916 W
Media description: SAME AS #1

Aliquot #4: *Latitude:* 33.56376380 N *Longitude* 86.81325637 W
Media description: SAME AS #1

Aliquot #5: *Latitude:* 33.56376720 N *Longitude* 86.81345693 W
Media description: SAME AS #1

ADDRESS: Cont PROPERTY ID: FM-0266

DATE: 12-17-12 ARRIVAL TIME: 1315

Other pertinent information (weather conditions, etc.):

SEE PAGE 6

PROPERTY COMMENTS:

SEE PAGE 6

Grid for property sketch

SEE PAGE 6

STATION ID: Fm-0266 **SAMPLE ID:** Fm-0266 E-CS

SAMPLE COLLECTION TIME: 14:04

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

SIDE YARD

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:* 33.563766630 N *Longitude* 86.813502 73 W

Media description: DARK BROWN SILTY SOIL

Aliquot #2 *Latitude:* 33.563667200 N *Longitude* 86.813 49436 W

Media description: SAME AS #1

Aliquot #3: *Latitude:* 33.563 74004 N *Longitude* 86.813 62913 W

Media description: DARK BROWN SANDY SOIL WITH BRICK & GRAVEL FRAGMENTS

Aliquot #4: *Latitude:* 33.563 77128 N *Longitude* 86.813 70619 W

Media description: DAP SAME AS #3

Aliquot #5: *Latitude:* 33.563 66627 N *Longitude* 86.813 72887 W

Media description: SAME AS #3

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: _____

ADDRESS: (b) (6) PROPERTY ID: FM0104

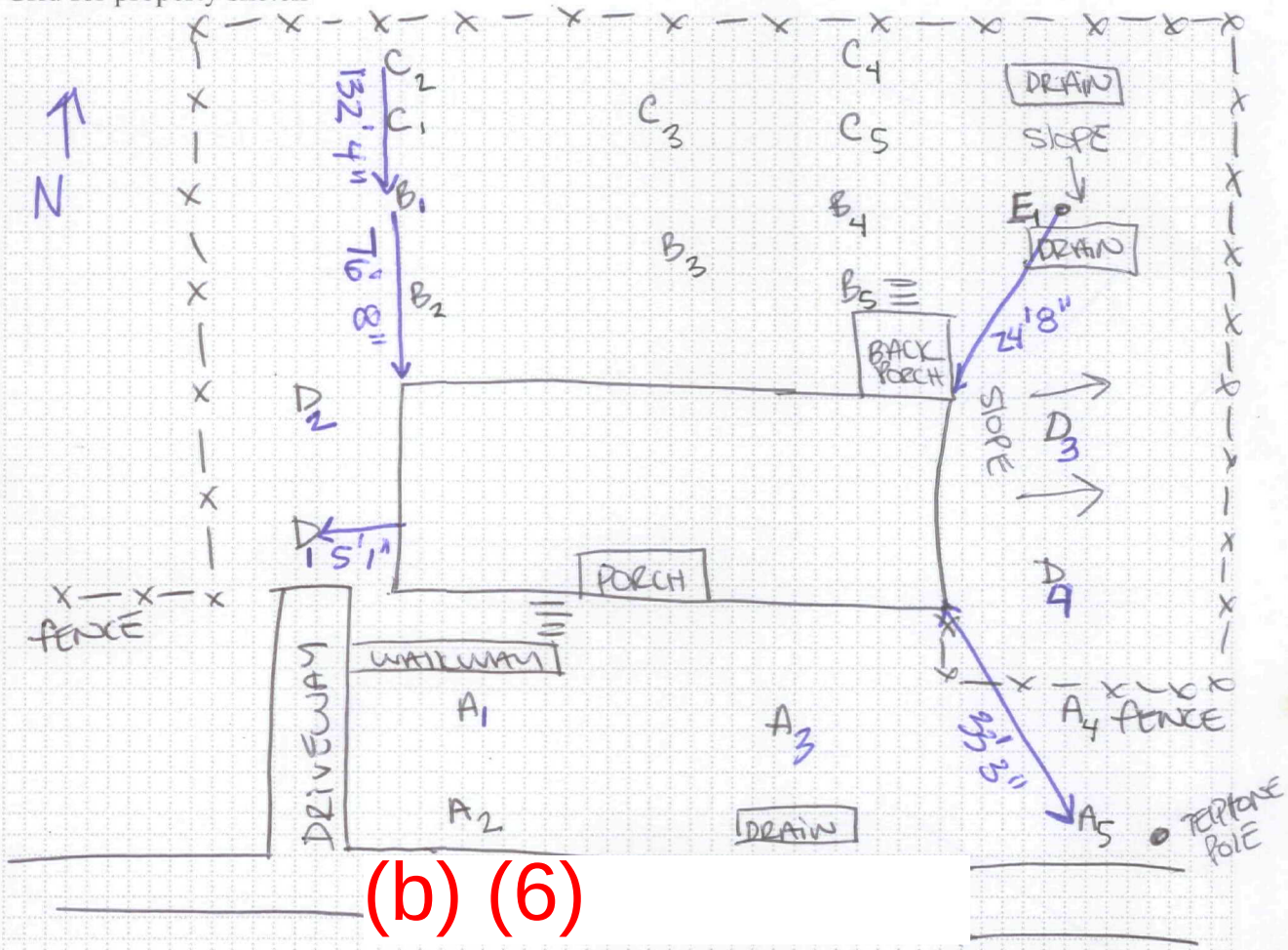
DATE: 12/17/12 ARRIVAL TIME: 9:40

Other pertinent information (weather conditions, etc.):

55°F, PARTLY CLOUDY - FULL CLOUD COVER, SLIGHT WIND

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: FM0104 **SAMPLE ID:** FM0104A-CS

SAMPLE COLLECTION TIME: 1456

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

FRONT YARD

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:* 33.569600802 N *Longitude* 86.80417795 W
Media description: BROWN SILTY SOIL

Aliquot #2 *Latitude:* 33.569600019 N *Longitude* 86.804111388 W
Media description: SAME AS #1

Aliquot #3: *Latitude:* 33.569658609 N *Longitude* 86.804152776 W
Media description: SAME AS #1

Aliquot #4: *Latitude:* 33.569774331 N *Longitude* 86.804179554 W
Media description: SAME AS #1

Aliquot #5: *Latitude:* 33.569773752 N *Longitude* 86.804106653 W
Media description: SAME AS #1

STATION ID: FM0104 **SAMPLE ID:** FM0104B-CS

SAMPLE COLLECTION TIME: 1500

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

BACK YARD

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:* 33.569577765 N *Longitude* 86.804374609 W
Media description: DARK BROWN DAMP SILTY SOIL

Aliquot #2 *Latitude:* 33.569770670 N *Longitude* 86.804736430 W
Media description: DARK BROWN DAMP SILTY SOIL WITH GRAVEL

Aliquot #3: *Latitude:* 33.569766152 N *Longitude* 86.804498211 W
Media description: SAME AS #1

Aliquot #4: *Latitude:* 33.569760253 N *Longitude* 86.804579621 W
Media description: SAME AS #2

Aliquot #5: *Latitude:* 33.569772349 N *Longitude* 86.804571641 W
Media description: SAME AS #1

ADDRESS: (b) (6) PROPERTY ID: FM0104

DATE: 12/17/12 ARRIVAL TIME: 1440

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

SEE PAGE 12

Grid for property sketch

SEE PAGE 12

STATION ID: FM0104 **SAMPLE ID:** FM0104C-CS

SAMPLE COLLECTION TIME: 1610

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

BACK YARD

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:* 33.569599813 N *Longitude* 86.80466134 W

Media description: _____

Aliquot #2 *Latitude:* 33.569672997 N *Longitude* 86.804664283 W

Media description: _____

Aliquot #3: *Latitude:* 33.569666924 N *Longitude* 86.80469999 W

Media description: _____

Aliquot #4: *Latitude:* 33.569661536 N *Longitude* 86.80479057 W

Media description: _____

Aliquot #5: *Latitude:* 33.569730336 N *Longitude* 86.80479560 W

Media description: _____

STATION ID: FM0104 **SAMPLE ID:** FM0104D-CS

SAMPLE COLLECTION TIME: 15:12

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

SIDE YARD

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:* 33.56957891 N *Longitude* 86.80423594 W

Media description: BROWN DAMP SOIL WITH GRAVEL

Aliquot #2 *Latitude:* 33.56957149 N *Longitude* 86.80431011 W

Media description: SAME AS #1

Aliquot #3: *Latitude:* 33.56973117 N *Longitude* 86.80431224 W

Media description: SAME AS #1

Aliquot #4: *Latitude:* 33.56973469 N *Longitude* 86.80420886 W

Media description: SAME AS #1

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

Media description: _____

ADDRESS: (b) (6) PROPERTY ID: FM0104

DATE: 12/17/12 ARRIVAL TIME: 9440

Other pertinent information (weather conditions, etc.):

SEE PAGE 12

PROPERTY COMMENTS:

SEE PAGE 12

Grid for property sketch

SEE PAGE 12

STATION ID: FM0104 **SAMPLE ID:** FM0104E-GS

SAMPLE COLLECTION TIME: 15:22

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

SIDE YARD - BOTTOM OF SLOPE - NEAR DRAIN

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:* 33.56973957 N *Longitude* 86.80439160 W

Media description: DARK BROWN SOIL WITH HIGH GRAVEL CONTENT 3½" DOWN

~~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: _____

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: _____

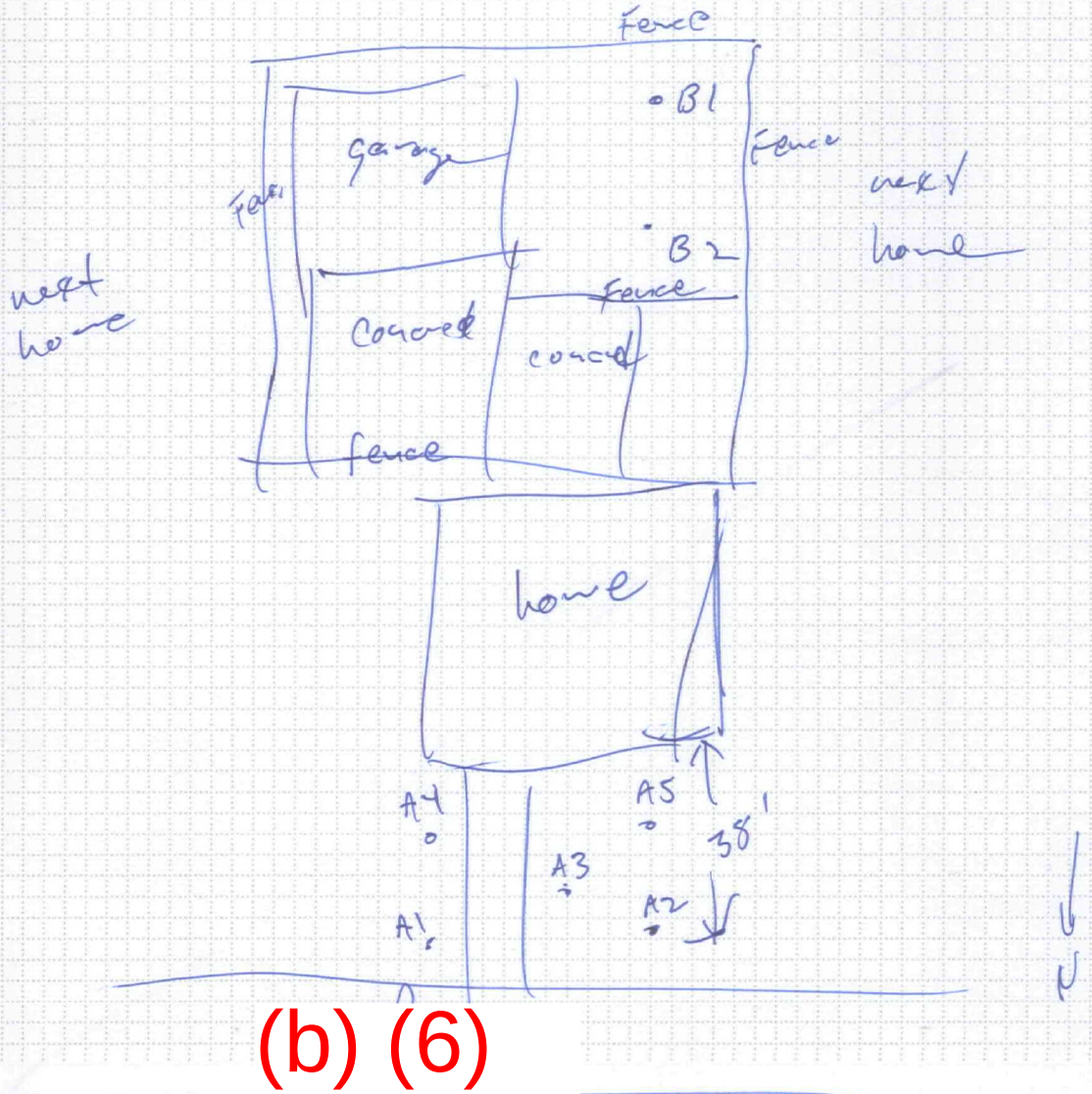
ADDRESS: (b) (6) PROPERTY ID: HP-0156

DATE: 12/18/12 ARRIVAL TIME: 0830

Other pertinent information (weather conditions, etc.):
Clear skies, temp ~ 50°F, lt winds

PROPERTY COMMENTS:
Single story, w/ separate garage

Grid for property sketch



STATION ID: (b) (6) SAMPLE ID: HP0156A-CS

SAMPLE COLLECTION TIME: 0840

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

Front yard

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 [X] Instrument #: 020168 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.56583723 N *Longitude* 86.79485480 W

Media description: dk brn, silty, gravel, coal bits

Aliquot #2 *Latitude:* 33.56584449 N *Longitude* 86.79494643 W

Media description: same

Aliquot #3: *Latitude:* 33.56581116 N *Longitude* 86.79490096 W

Media description: same

Aliquot #4: *Latitude:* 33.56577876 N *Longitude* 86.79485131 W

Media description: same

Aliquot #5: *Latitude:* 33.56576340 N *Longitude* 86.79494284 W

Media description: same

STATION ID: (b) (6) SAMPLE ID: HP0156B-CS

SAMPLE COLLECTION TIME: 0845

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

back yard, 2 points

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 [X] Instrument #: 020168 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.56547464 N *Longitude* 86.79494261 W

Media description: dark brn, silty, gravel, coal bits

Aliquot #2 *Latitude:* 33.56550386 N *Longitude* 86.79493476 W

Media description: same

Aliquot #3: *Latitude:* _____ N *Longitude* _____ W

Media description: _____

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

Media description: _____

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

Media description: _____

ADDRESS: (b) (6) PROPERTY ID: CV-0648

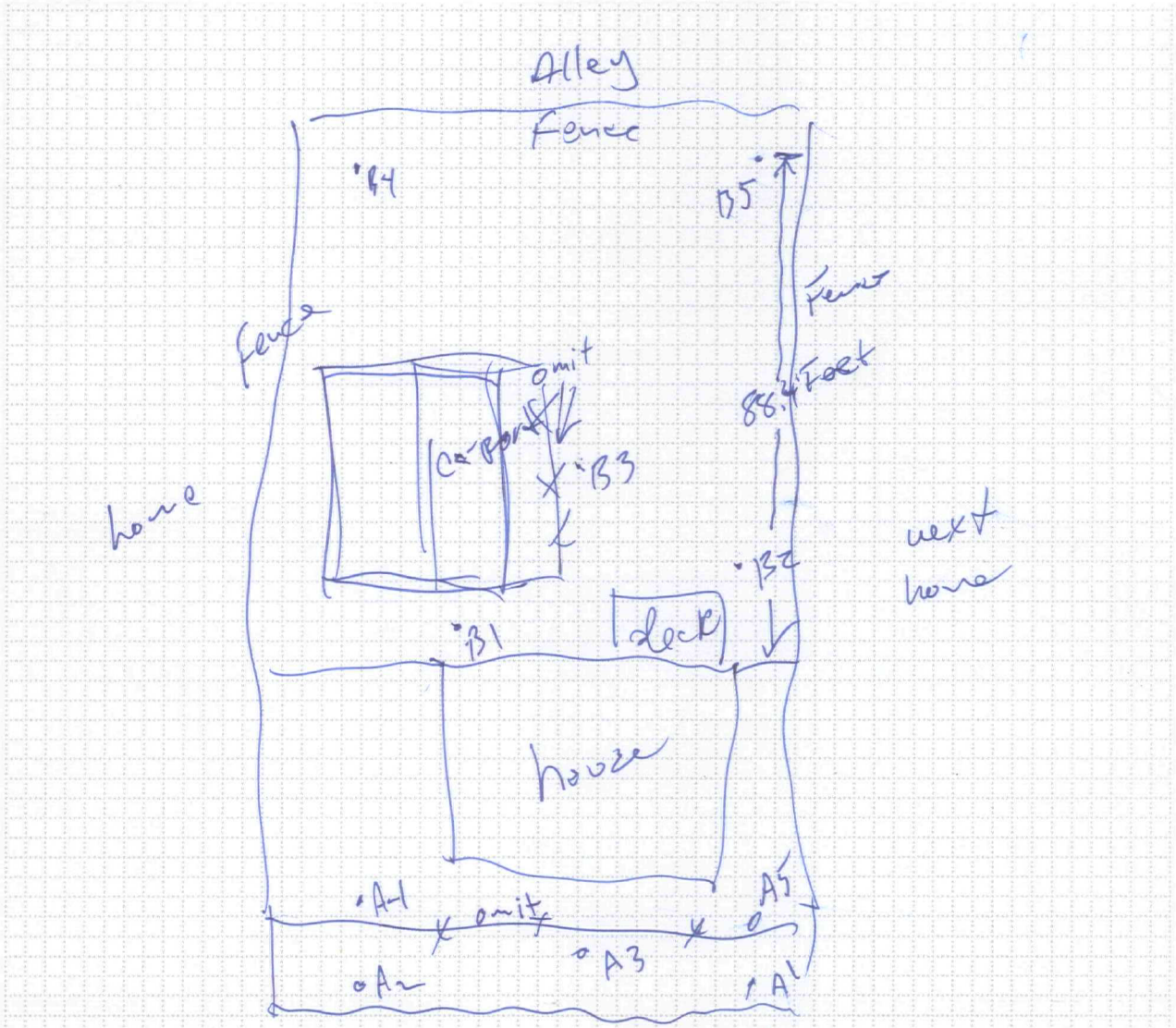
DATE: 12/18/12 ARRIVAL TIME: 0900

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

single story, w/ carport

Grid for property sketch



(b) (6)

STATION ID: (b) (6) SAMPLE ID: CV0648A-CS

SAMPLE COLLECTION TIME: 0915

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

Front yard

Collection: (Composite) or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No *If yes, indicate* Duplicate/split sample station ID: CV0648A-CS-D

GPS Coordinates: Trimble [X] Instrument #: 020168 Logged? Y or N

Aliquot #1: *Latitude:* 33.55884047 N *Longitude* 86.80137329 W

Media description: brn silty soil

Aliquot #2 *Latitude:* 33.55877167 N *Longitude* 86.80144607 W

Media description:

Aliquot #3: *Latitude:* 33.55878868 N *Longitude* 86.80138702 W

Media description:

Aliquot #4: *Latitude:* 33.55875109 N *Longitude* 86.80142449 W

Media description:

Aliquot #5: *Latitude:* 33.55881300 N *Longitude* 86.80133576 W

Media description:

STATION ID: (b) (6) SAMPLE ID: CV0648B-CS

SAMPLE COLLECTION TIME: 0920

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

back yard

Collection: (Composite) or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No *If yes, indicate* Duplicate/split sample station ID: CV0648B-CS-D

GPS Coordinates: Trimble [X] Instrument #: 020168 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.55870505 N *Longitude* 86.80123974 W

Media description: brn silty soil, trash debris

Aliquot #2 *Latitude:* 33.55864859 N *Longitude* 86.80128786 W

Media description:

Aliquot #3: *Latitude:* 33.55860410 N *Longitude* 86.80116807 W

Media description:

Aliquot #4: *Latitude:* 33.55861446 N *Longitude* 86.80105913 W

Media description:

Aliquot #5: *Latitude:* 33.55851584 N *Longitude* 86.80111587 W

Media description:

ADDRESS: (b) (6) PROPERTY ID: CV-0412

DATE: 12/18/12 ARRIVAL TIME: _____

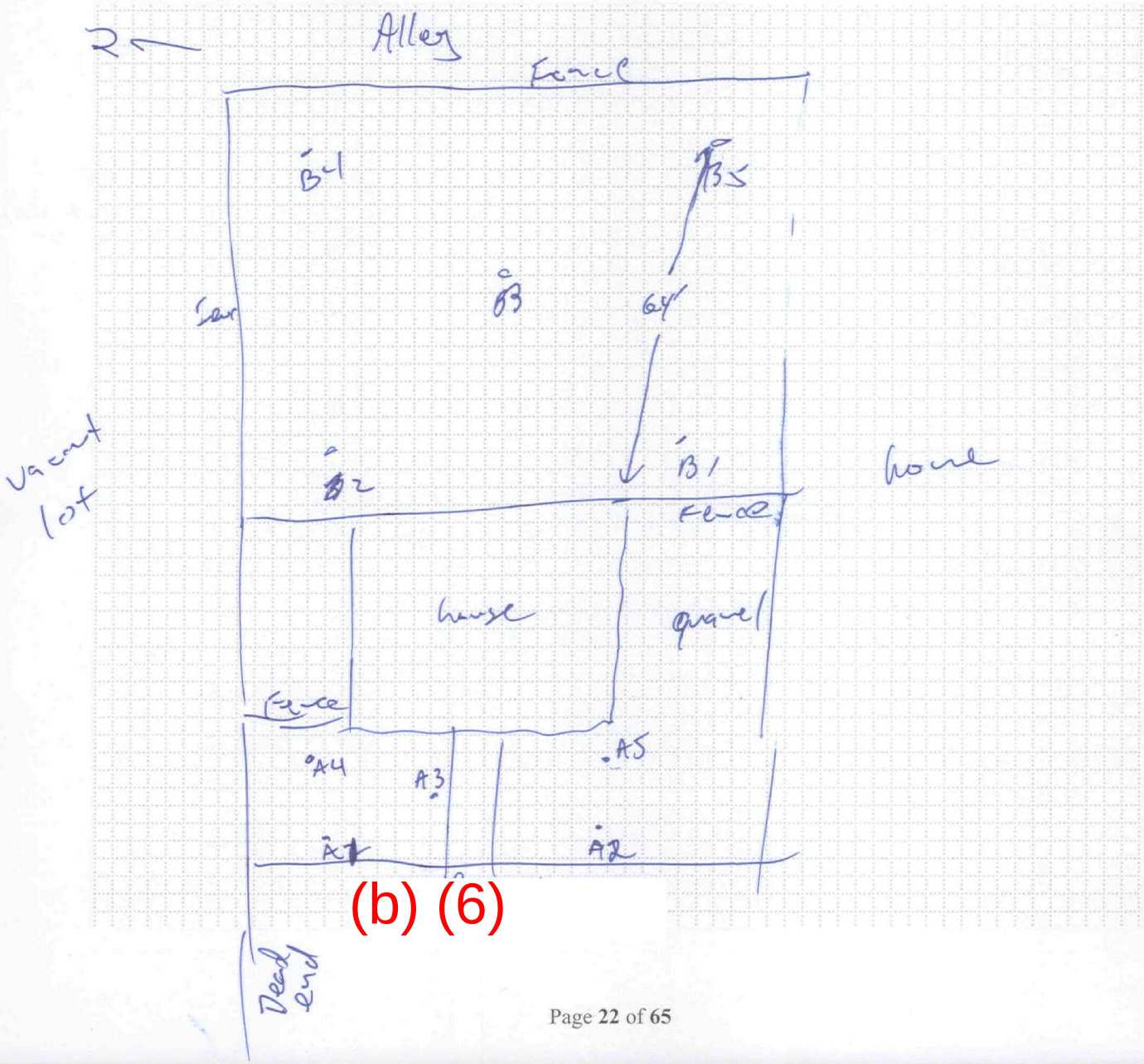
Other pertinent information (weather conditions, etc.):

clear skies, sunny, temp ~ 55°F, Humid

PROPERTY COMMENTS:

single story

Grid for property sketch



STATION ID: (b) (6) SAMPLE ID: CV0412A-CS

SAMPLE COLLECTION TIME: 0955

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

Front yard

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 [X] Instrument #: 020168 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.55857709 N *Longitude* 86.79940449 W

Media description: Reddish brn, silty, soil w/ debris

Aliquot #2 *Latitude:* 33.55851223 N *Longitude* 86.79939017 W

Media description: brn silty soil

Aliquot #3: *Latitude:* 33.55856417 N *Longitude* 86.79937159 W

Media description: same

Aliquot #4: *Latitude:* 33.55858657 N *Longitude* 86.79934167 W

Media description: same

Aliquot #5: *Latitude:* 33.55849795 N *Longitude* 86.79934255 W

Media description: same

STATION ID: (b) (6) SAMPLE ID: CV0412B-CS

SAMPLE COLLECTION TIME: 0950

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

back yard

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 [X] Instrument #: 020168 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.55847339 N *Longitude* 86.79915737 W

Media description: brn silty soil

Aliquot #2 *Latitude:* 33.55856816 N *Longitude* 86.79914960 W

Media description: same

Aliquot #3: *Latitude:* 33.55851884 N *Longitude* 86.79907933 W

Media description: same

Aliquot #4: *Latitude:* 33.55856144 N *Longitude* 86.79896757 W

Media description: same

Aliquot #5: *Latitude:* 33.55846666 N *Longitude* 86.79896471 W

Media description: same

ADDRESS: (b) (6) PROPERTY ID: CV-0370

DATE: 12/18/12 ARRIVAL TIME: 1005

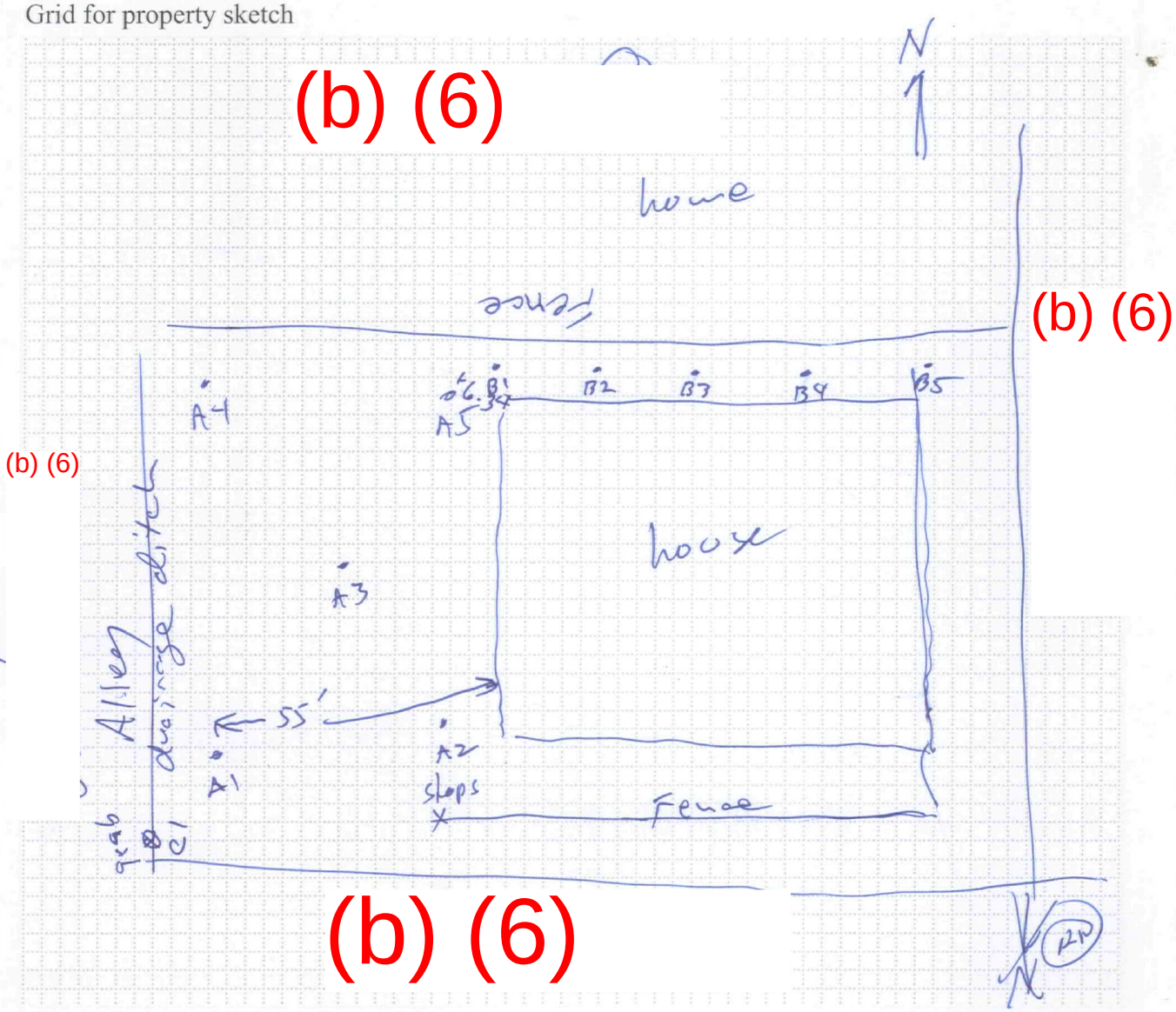
Other pertinent information (weather conditions, etc.):

Clear, sunny, lt winds, temp ~ 53° F

PROPERTY COMMENTS:

front side yard too small to single story

Grid for property sketch



STATION ID: (b) (6) SAMPLE ID: CV0370A-CS

SAMPLE COLLECTION TIME: 1020

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

Back

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 [X] Instrument #: 020168 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.55551313 N *Longitude* 86.79995764 W
Media description: blk silty soil

Aliquot #2 *Latitude:* 33.55550413 N *Longitude* 86.79980509 W
Media description: same

Aliquot #3: *Latitude:* 33.55556674 N *Longitude* 86.79989338 W
Media description: same

Aliquot #4: *Latitude:* 33.55562560 N *Longitude* 86.79997436 W
Media description: same

Aliquot #5: *Latitude:* 33.55563628 N *Longitude* 86.79981071 W
Media description: same

STATION ID: (b) (6) SAMPLE ID: CV0370B-CS

SAMPLE COLLECTION TIME: 1025

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

side yard, north side

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 [X] Instrument #: 020168 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.55562850 N *Longitude* 86.79978384 W
Media description: gravel, dark brown

Aliquot #2 *Latitude:* 33.55562646 N *Longitude* 86.79972752 W
Media description: same

Aliquot #3: *Latitude:* 33.55562452 N *Longitude* 86.79967802 W
Media description: same

Aliquot #4: *Latitude:* 33.55562536 N *Longitude* 86.79962196 W
Media description: same

Aliquot #5: *Latitude:* 33.55562637 N *Longitude* 86.79957393 W
Media description: same

ADDRESS: (b) (6) PROPERTY ID: CV-0370

DATE: 12/18/12 ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch

(b) (6)

STATION ID: ___ **SAMPLE ID:** CV030C-GS

SAMPLE COLLECTION TIME: 1035

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

drainage area on SW corner of lot

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 [X] Instrument #: 020168 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.55549481 N *Longitude* 86.79995231 W

Media description: blk silty soil w/ trash

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: _____

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: _____

ADDRESS: (b) (6) PROPERTY ID: CV - 0361

DATE: 12/18/12 ARRIVAL TIME: 1215

Other pertinent information (weather conditions, etc.):

Cleary, sunny, temp ~ 65°F, 0 wind

PROPERTY COMMENTS:

single story home

Grid for property sketch



(b) (6)

STATION ID: (b) (6) SAMPLE ID: CV0361A-CS

SAMPLE COLLECTION TIME: 1230

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

Front yard

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 [X] Instrument #: 020168 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.55498538 N *Longitude* 86.79957079 W

Media description: Blk silty soil

Aliquot #2 *Latitude:* 33.55486786 N *Longitude* 86.79956925 W

Media description: same as 1

Aliquot #3: *Latitude:* 33.55493748 N *Longitude* 86.79958145 W

Media description: same

Aliquot #4: *Latitude:* 33.55487007 N *Longitude* 86.79960102 W

Media description: Blk silty w/ gravel

Aliquot #5: *Latitude:* 33.55499116 N *Longitude* 86.79955998 W

Media description: Blk silty w/ gravel

STATION ID: (b) (6) SAMPLE ID: CV0361B-CS

SAMPLE COLLECTION TIME: 1236

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

side yard wsw side

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 [X] Instrument #: 020168 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.55486728 N *Longitude* 86.79963484 W

Media description: Blk silty, gravel

Aliquot #2 *Latitude:* 33.55489577 N *Longitude* 86.79963683 W

Media description: same as #1

Aliquot #3: *Latitude:* 33.55488013 N *Longitude* 86.79971492 W

Media description: Blk, silty soil

Aliquot #4: *Latitude:* 33.55487726 N *Longitude* 86.79978922 W

Media description: Blk silty w/ reddish

Aliquot #5: *Latitude:* 33.55489541 N *Longitude* 86.79979531 W

Media description: _____

ADDRESS: _____ PROPERTY ID: _____

DATE: _____ ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

_____

PROPERTY COMMENTS:

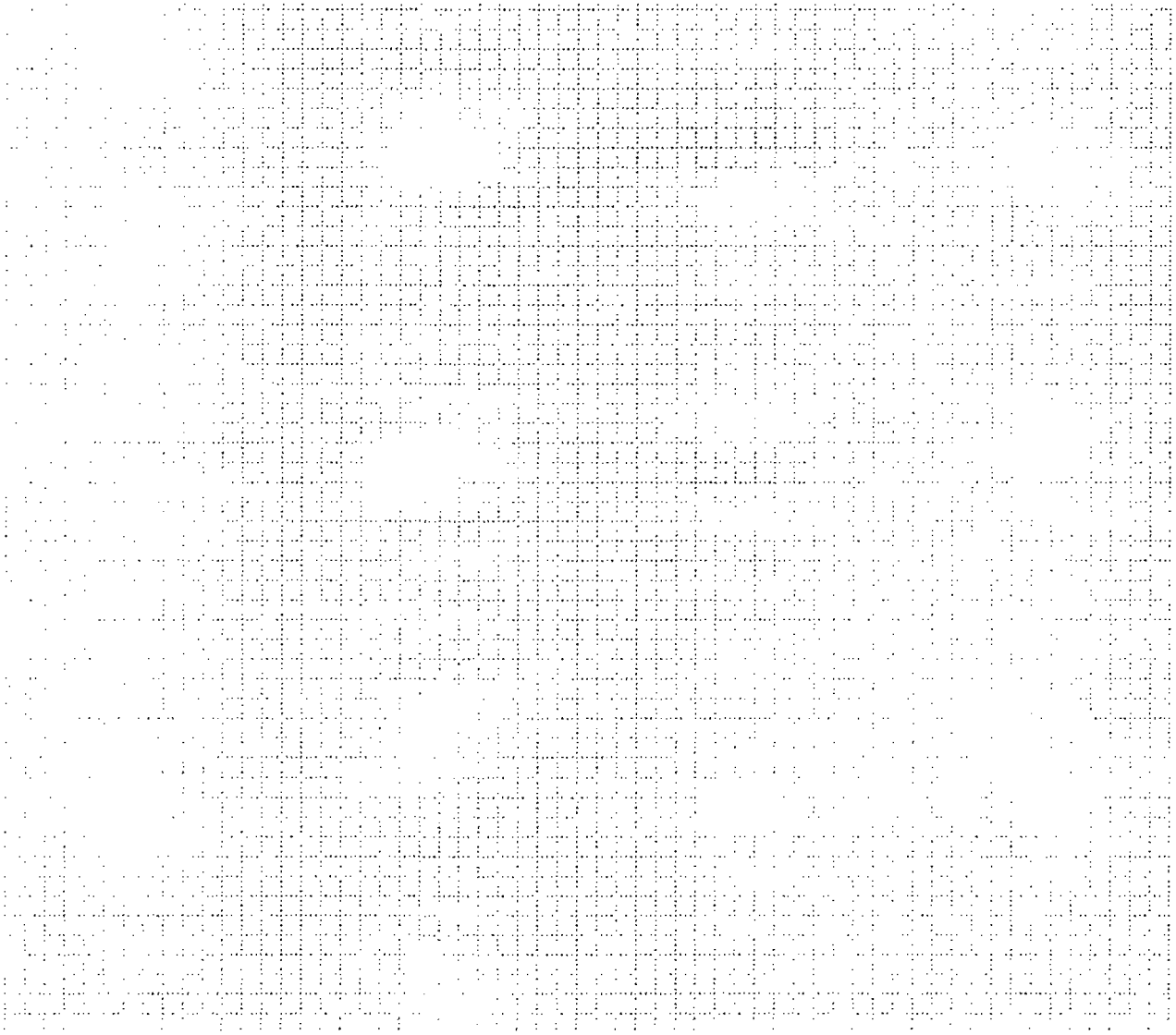
_____

_____

_____

_____

Grid for property sketch



(b) (6)

STATION ID: ____ **SAMPLE ID:** CV0361C-CS

SAMPLE COLLECTION TIME: 1245

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

Back yard

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 [X] Instrument #: 020168 Logged? Y or N

Aliquot #1: *Latitude:* 33.55488025 N *Longitude* 86.79983584 W

Media description: Bl, silty ~~of reddish clay~~

Aliquot #2 *Latitude:* 33, 55498566 N *Longitude* 86.79984807 W

Media description: same

Aliquot #3: *Latitude:* 33.55494499 N *Longitude* 86.79990475 W

Media description: Blk silty, reddish clay

Aliquot #4: *Latitude:* 33.55493763 N *Longitude* 86.79996045 W

Media description: Blk silty soil

Aliquot #5: *Latitude:* 33.55498105 N *Longitude* 86.79998800 W

Media description: same

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: _____

ADDRESS: (b) (6) PROPERTY ID: CV-0294

DATE: 12/18/12 ARRIVAL TIME: 1350

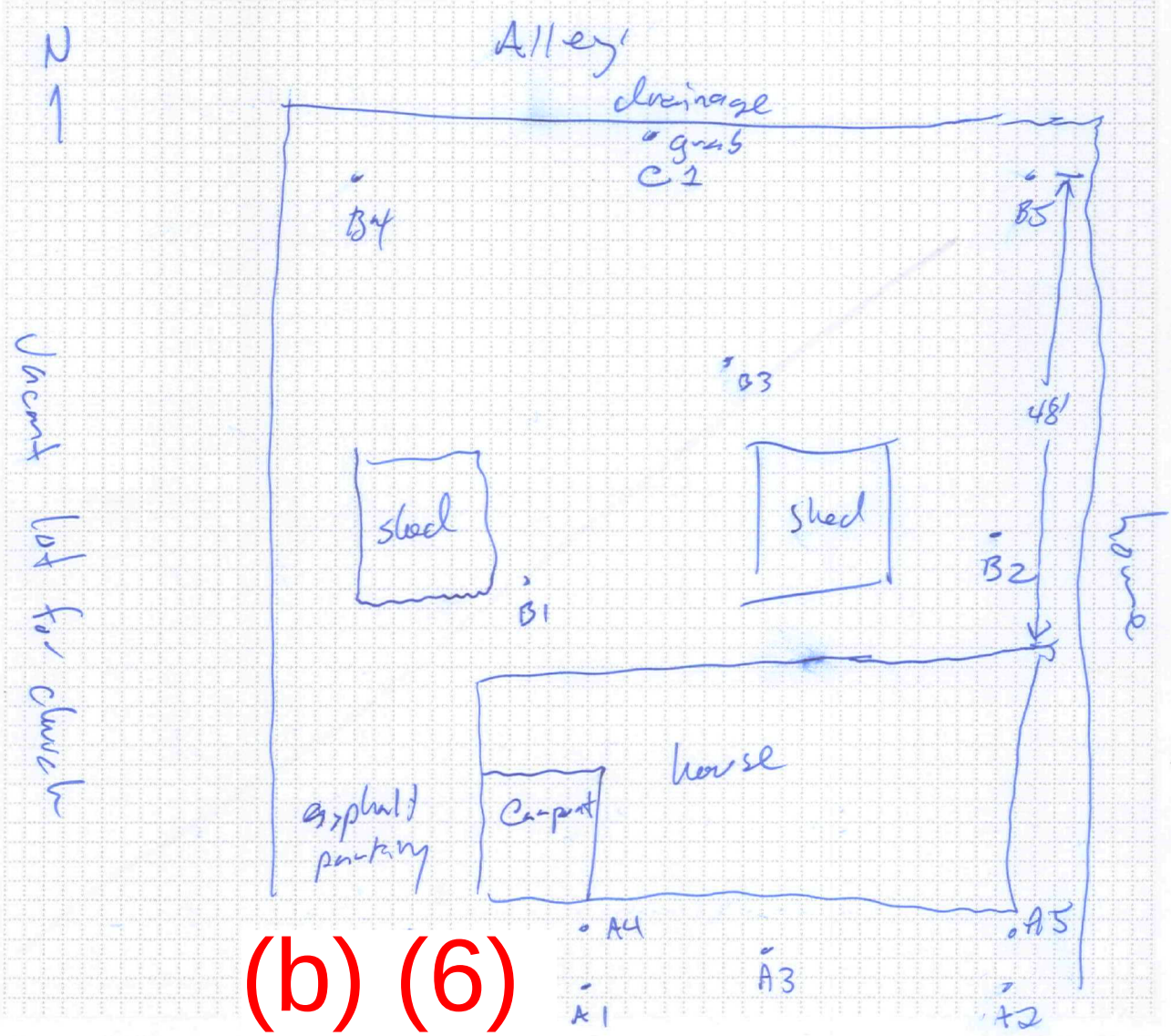
Other pertinent information (weather conditions, etc.):

Clear, sunny, 65°F, lt. wind

PROPERTY COMMENTS:

single story

Grid for property sketch



STATION ID: (b) (6) SAMPLE ID: CV0294A-CS

SAMPLE COLLECTION TIME: 1410

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

Front yard

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 [X] Instrument #: 020168 Logged? Y or N

Aliquot #1: *Latitude:* 33.55531890 N *Longitude* 86.79785586 W

Media description: dark silty soil

Aliquot #2 *Latitude:* 33.55531719 N *Longitude* 86.79776902 W

Media description: _____

Aliquot #3: *Latitude:* 33.55533105 N *Longitude* 86.79780659 W

Media description: _____

Aliquot #4: *Latitude:* 33.55534273 N *Longitude* 86.79777532 W

Media description: _____

Aliquot #5: *Latitude:* 33.55534598 N *Longitude* 86.79785640 W

Media description: _____

STATION ID: (b) (6) SAMPLE ID: CV0294B-CS

SAMPLE COLLECTION TIME: 1415

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

back yard

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 [X] Instrument #: 020168 Logged? Y or N

Aliquot #1: *Latitude:* 33.55549480 N *Longitude* 86.79791177 W

Media description: _____

Aliquot #2 *Latitude:* 33.55550508 N *Longitude* 86.79777883 W

Media description: _____

Aliquot #3: *Latitude:* 33.55555942 N *Longitude* 86.79785677 W

Media description: _____

Aliquot #4: *Latitude:* ~~33~~ 33.55560425 N *Longitude* 86.79792312 W

Media description: _____

Aliquot #5: *Latitude:* 33.55561013 N *Longitude* 86.79778353 W

Media description: _____

ADDRESS: (b) (6) PROPERTY ID: CV-0235

DATE: 12/18/12 ARRIVAL TIME: 1500

Other pertinent information (weather conditions, etc.):

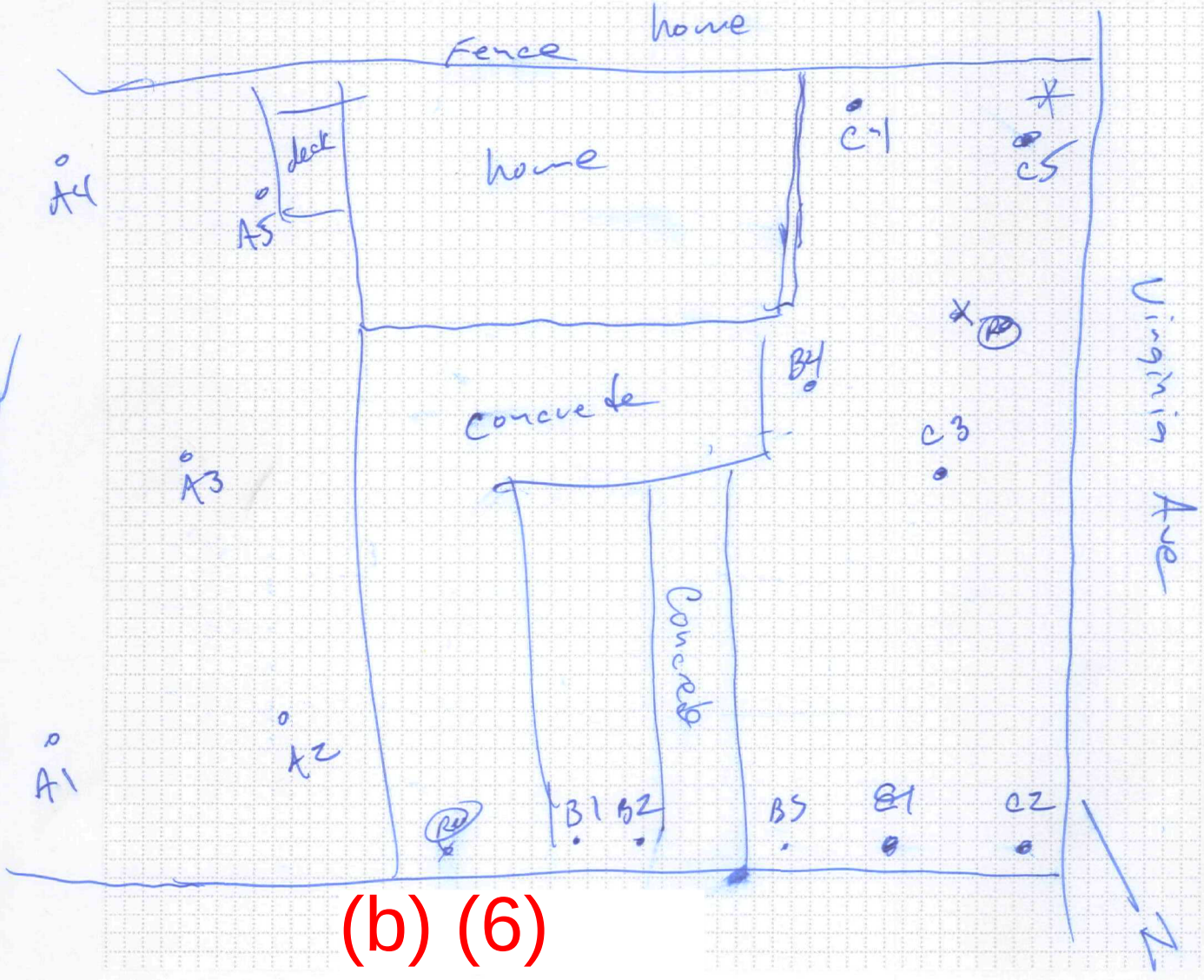
Clear skies, 65°F, lt wind

PROPERTY COMMENTS:

2 story duplex, corner lot ~ 2000 sq'

* vehicle parked

Grid for property sketch



STATION ID: (b) (6) SAMPLE ID: CV0294C-GS

SAMPLE COLLECTION TIME: 1430

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

grab sample, back yard

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 [X] Instrument #: 020168 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.55562695 N *Longitude* 86.79786837 W

Media description: _____

Aliquot #2 *Latitude:* 33.55745751 N *Longitude* 86.80096107 W

Media description: _____

Aliquot #3: *Latitude:* 33.55738275 N *Longitude* 86.80094758 W

Media description: _____

Aliquot #4: *Latitude:* 33.55728665 N *Longitude* 86.80064793 W

Media description: _____

Aliquot #5: *Latitude:* 33.55735451 N *Longitude* 86.80103755 W

Media description: _____

STATION ID: (b) (6) AMPLE ID: CV0235A-CS

SAMPLE COLLECTION TIME: 1515

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

side yard, south end

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 [X] Instrument #: 020168 Logged? (Y) or N

Aliquot #1: *Latitude:* 33 ~~5575 1887~~ (RD) 55741862 N *Longitude* 86 ~~80102168~~ (RD) 80089582 W

Media description: Dark, silty soil

Aliquot #2 *Latitude:* 33 ~~5575 4562~~ (RD) 55745751 N *Longitude* 86 ~~80105472~~ (RD) 80096107 W

Media description: same

Aliquot #3: *Latitude:* 33 ~~5575 7840~~ (RD) 55738275 N *Longitude* 86 ~~80108524~~ (RD) 80094758 W

Media description: same

Aliquot #4: *Latitude:* 33.55728665 N *Longitude* 86.80094793 W

Media description: same

Aliquot #5: *Latitude:* 33.55735451 N *Longitude* 86.80103755 W

Media description: same

ADDRESS: (b) (6) PROPERTY ID: CV-0235

DATE: _____ ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

_____

PROPERTY COMMENTS:

_____

_____

_____

_____

Grid for property sketch

STATION ID: (b) (6) SAMPLE ID: CV0235B-CS

SAMPLE COLLECTION TIME: 1535

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

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 [X] Instrument #: 020168 Logged? (Y) or N

Aliquot #1: *Latitude:* ~~33.55758571~~ 1887 N *Longitude* ~~86.80112881~~ 80102168 W
Media description: sandy, gravel, light

Aliquot #2 *Latitude:* ~~33.5575268~~ 4562 N *Longitude* ~~86.80118356~~ 80105472 W
Media description: same

Aliquot #3: *Latitude:* ~~33.55755551~~ 7846 N *Longitude* ~~86.80119758~~ 80108524 W
Media description: same

Aliquot #4: *Latitude:* ~~33.55750150~~ N *Longitude* ~~86.80122705~~ W (redid)
Media description: interference caused inaccurate GPS reception

Aliquot #5: *Latitude:* ~~33.55755621~~ 33.55754321 N *Longitude* ~~86.80126393~~ 86.80111583 W
Media description:

STATION ID: (b) (6) SAMPLE ID: CV0235C-CS

SAMPLE COLLECTION TIME: 1540

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

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 [X] Instrument #: 020168 Logged? Y or N

Aliquot #1: *Latitude:* 33.55758571 N *Longitude* 86.80112881 W
Media description: Dark, silty, sandy

Aliquot #2 *Latitude:* 33.55752686 N *Longitude* 86.80118356 W
Media description: same

Aliquot #3: *Latitude:* 33.55755551 N *Longitude* 86.80119758 W
Media description: same

Aliquot #4: *Latitude:* 33.55750150 N *Longitude* 86.80122705 W
Media description: same

Aliquot #5: *Latitude:* 33.55755621 N *Longitude* 86.80126393 W
Media description: same

ADDRESS: (b) (6) PROPERTY ID: Fm-0016

DATE: 12/19/12 ARRIVAL TIME: 815

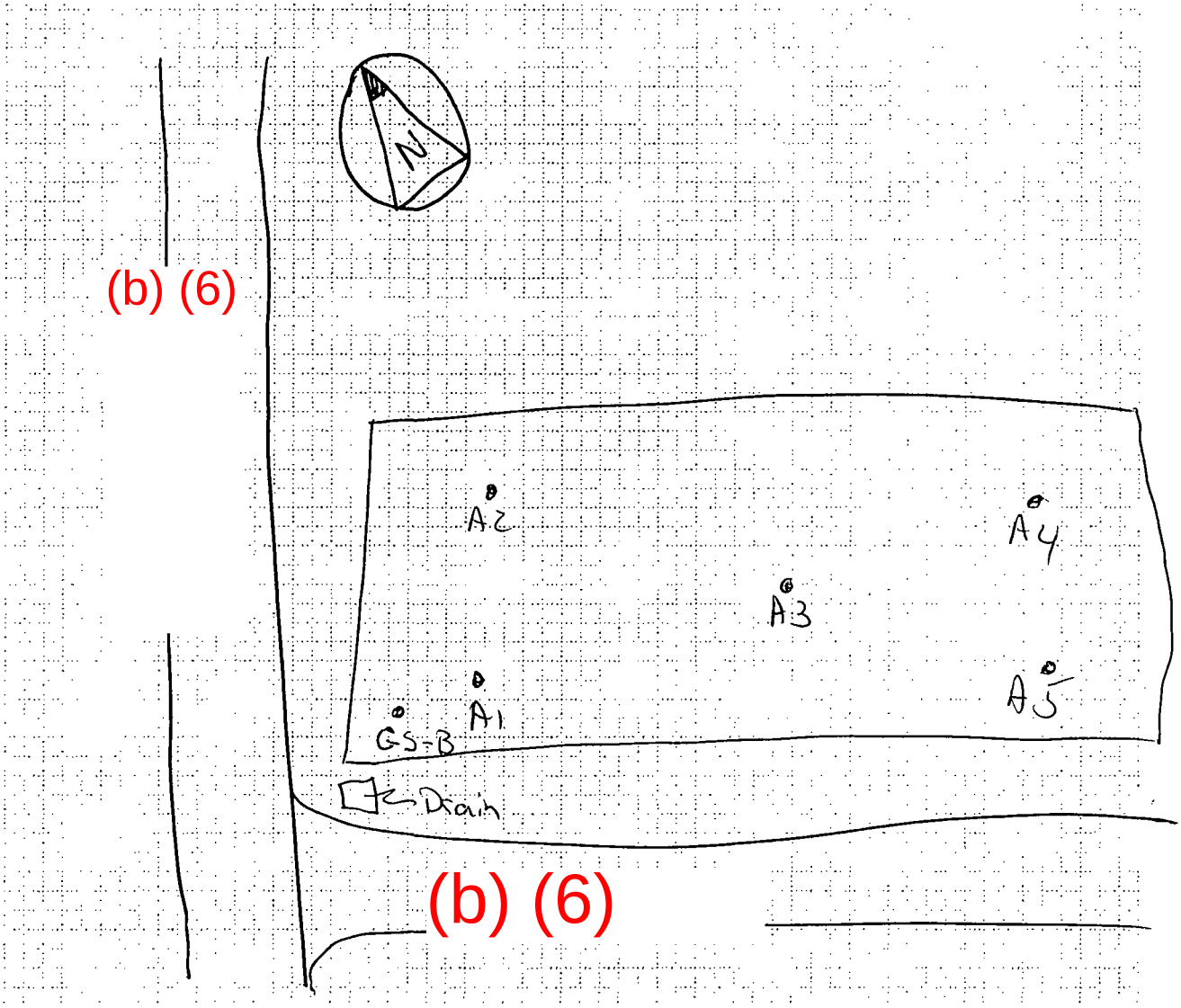
Other pertinent information (weather conditions, etc.):

55° sunny clear

PROPERTY COMMENTS:

city property

Grid for property sketch



STATION ID: Fm-0016 **SAMPLE ID:** Fm-0016A-CS

SAMPLE COLLECTION TIME: 840

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 #: 020168 Logged? Y or N

Aliquot #1: *Latitude:* 33.56433699 N *Longitude* 86.81022052 W
Media description: Black silty loamy Soil

Aliquot #2 *Latitude:* 33.56434472 N *Longitude* 86.81012947 W
Media description: Black silty loamy soil

Aliquot #3: *Latitude:* 33.56424221 N *Longitude* 86.8101880 W
Media description: Black silty loamy soil

Aliquot #4: *Latitude:* 33.56413836 N *Longitude* 86.81020864 W
Media description: Black silty loamy Soil

Aliquot #5: *Latitude:* 33.56412914 N *Longitude* 86.81014670 W
Media description: Black silty loamy Soil

STATION ID: Fm-0016 **SAMPLE ID:** Fm-0016B-GS

SAMPLE COLLECTION TIME: 850

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 #: 020168 Logged? Y or N

Aliquot #1: *Latitude:* 33.56436846 N *Longitude* 86.81023023 W
Media description: Black silty loamy soil

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:

ADDRESS (b) (6) PROPERTY ID: CV0627

DATE: 12/19/12 ARRIVAL TIME: 0900

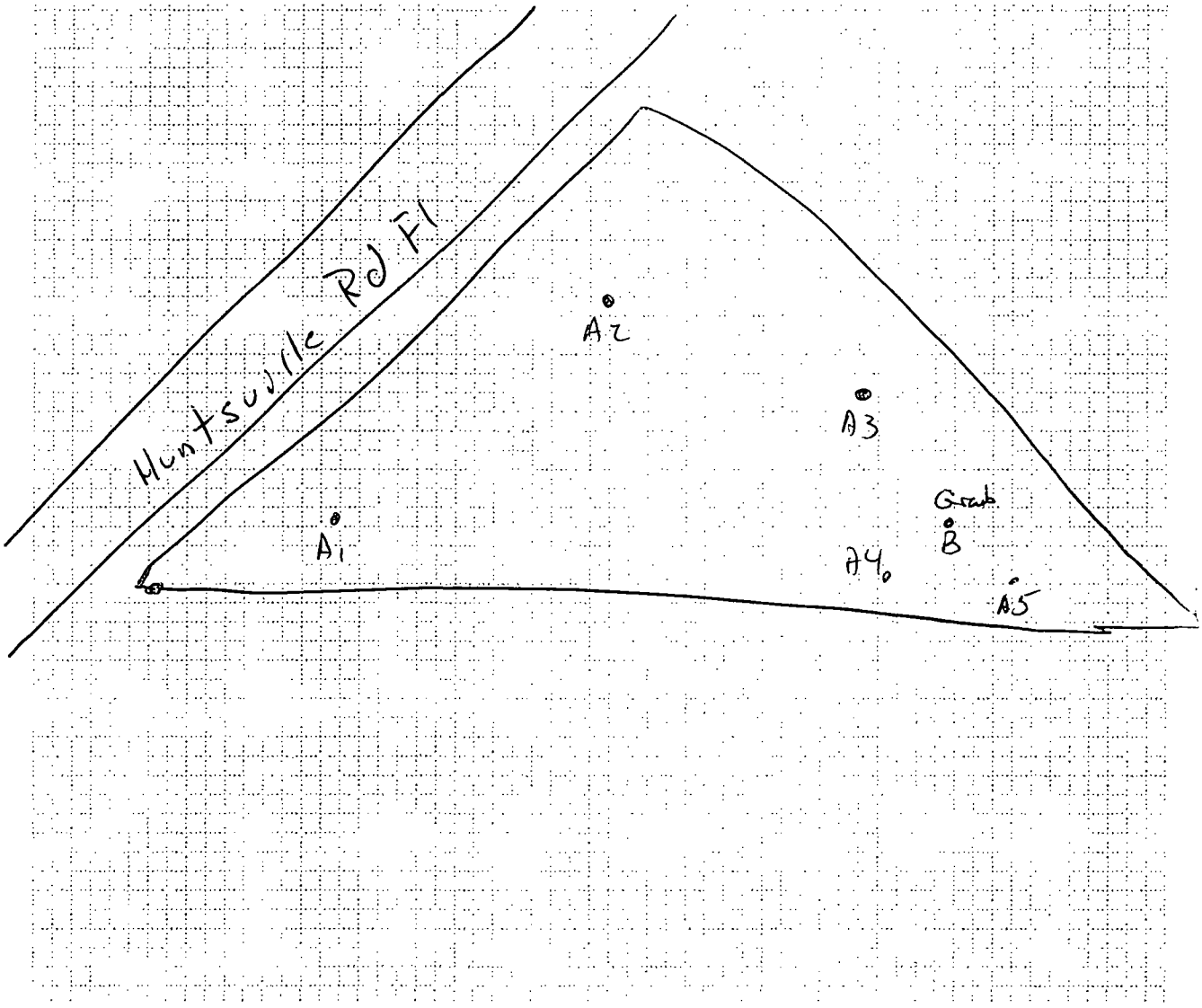
Other pertinent information (weather conditions, etc.):

55° Warm Sunny

PROPERTY COMMENTS:

City Parcel

Grid for property sketch



STATION ID: CV-0627 SAMPLE ID: CV-0627A-CS

SAMPLE COLLECTION TIME: 915

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

City Parcel

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 [4] Instrument #: 020168 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.56061775 N *Longitude* 86.79938140 W

Media description: Black Silty Coal

Aliquot #2 *Latitude:* 33.56067351 N *Longitude* 86.79933028 W

Media description: Blck Soil Sandy with Coal

Aliquot #3: *Latitude:* 33.56060938 N *Longitude* 86.79926742 W

Media description: Black Soil Sandy

Aliquot #4: *Latitude:* 33.56063887 N *Longitude* 86.79922514 W

Media description: Black Soil Sandy

Aliquot #5: *Latitude:* 33.56060742 N *Longitude* 86.79917982 W

Media description: _____

STATION ID: CV0627 SAMPLE ID: CV0627B-GS

SAMPLE COLLECTION TIME: 0925

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

City Parcel

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 [4] Instrument #: 020168 Logged? Y or N

Aliquot #1: *Latitude:* 33.56061347 N *Longitude* 86.79916640 W

Media description: Black silty Soil Sandy

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: _____

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