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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: Week of 4-1-13

List of Sampling Team in logbook:

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

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: _____
DATE: 4-1-75

PROPERTY ID: Fm 0128
ARRIVAL TIME: 1300

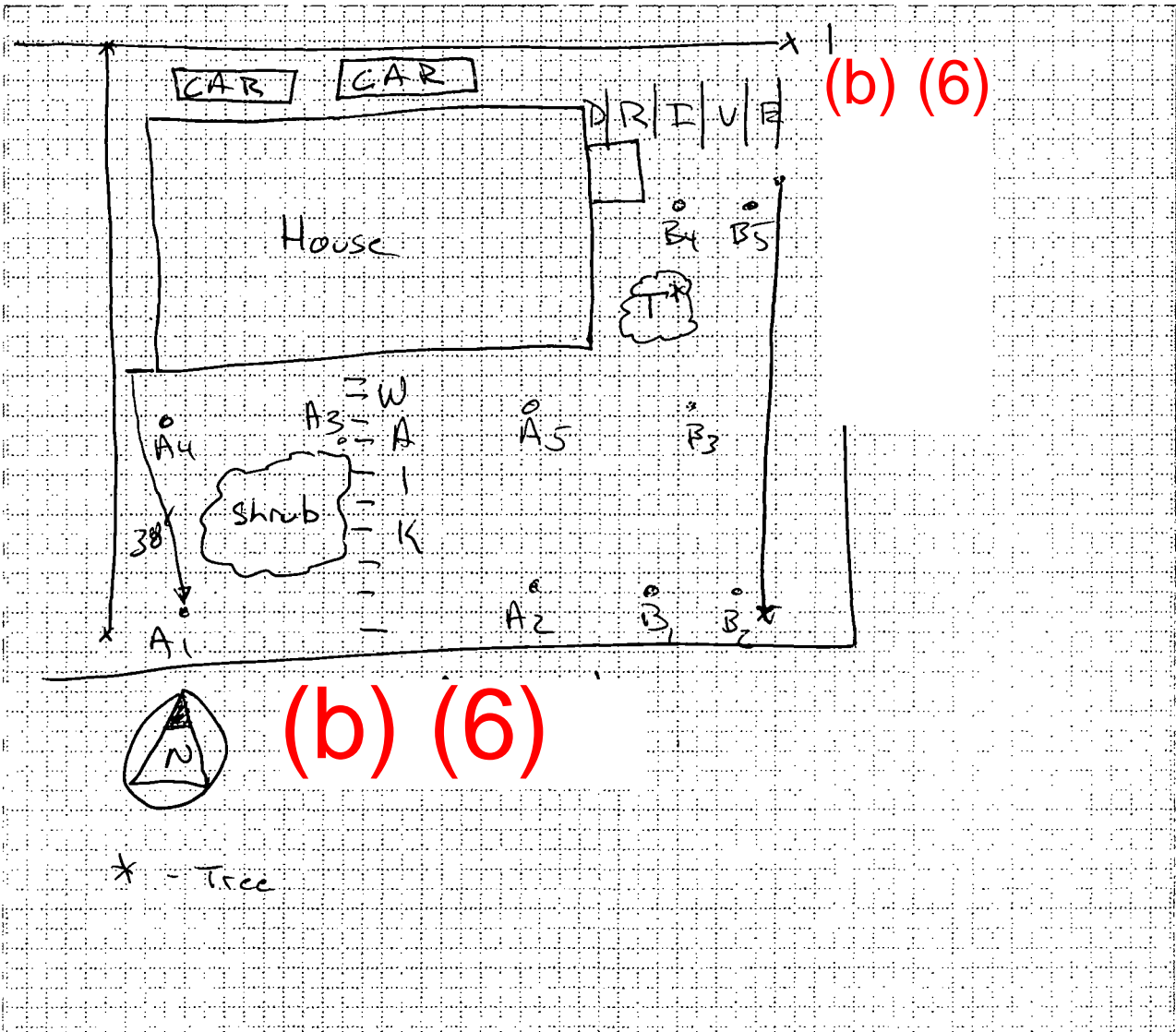
Other pertinent information (weather conditions, etc.):

73° Sunny warm

PROPERTY COMMENTS:

corner lot

Grid for property sketch



STATION ID: Fm0128 SAMPLE ID: Fm0128 B-CS-5A

SAMPLE COLLECTION TIME: 1320

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

Front yard ^{DE} 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 [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33.56627145</u> ^{DE} N Longitude: <u>86.81067280</u> ^{DE} W Media description: <u>Dark Brown Sandy Clay</u> <u>33.566311353</u>
Aliquot #2: Latitude: <u>33.56634876</u> N Longitude: <u>86.81049807</u> <u>86.81044596</u> Media description: <u>SAME B₁</u>
Aliquot #3: Latitude: <u>33.56639635</u> N Longitude: <u>86.81049493</u> W Media description: <u>SAME B₁</u>
Aliquot #4: Latitude: <u>33.56647313</u> N Longitude: <u>86.81051904</u> W Media description: <u>SAME B₁</u>
Aliquot #5: Latitude: <u>33.56649121</u> N Longitude: <u>86.81049235</u> W Media description: <u>SAME B₁</u>

STATION ID: Fm0128 SAMPLE ID: Fm0128 A-CS-5A

SAMPLE COLLECTION TIME: 1330

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

s 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 [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33.56627145</u> N Longitude: <u>86.81067280</u> W Media description: <u>Dark Brown sandy Clay</u>
Aliquot #2: Latitude: <u>33.56629491</u> N Longitude: <u>86.81054481</u> W Media description: <u>Brown clay</u>
Aliquot #3: Latitude: <u>33.56634498</u> N Longitude: <u>86.81063477</u> W Media description: <u>SAME A₁</u>
Aliquot #4: Latitude: <u>33.56634078</u> N Longitude: <u>86.81069823</u> W Media description: <u>SAME A₁</u>
Aliquot #5: Latitude: <u>33.56637359</u> N Longitude: <u>86.81058319</u> W Media description: <u>SAME A₁</u>

(b) (6)

ADDRESS: _____

PROPERTY ID: Cv0501

DATE: 4/1/13

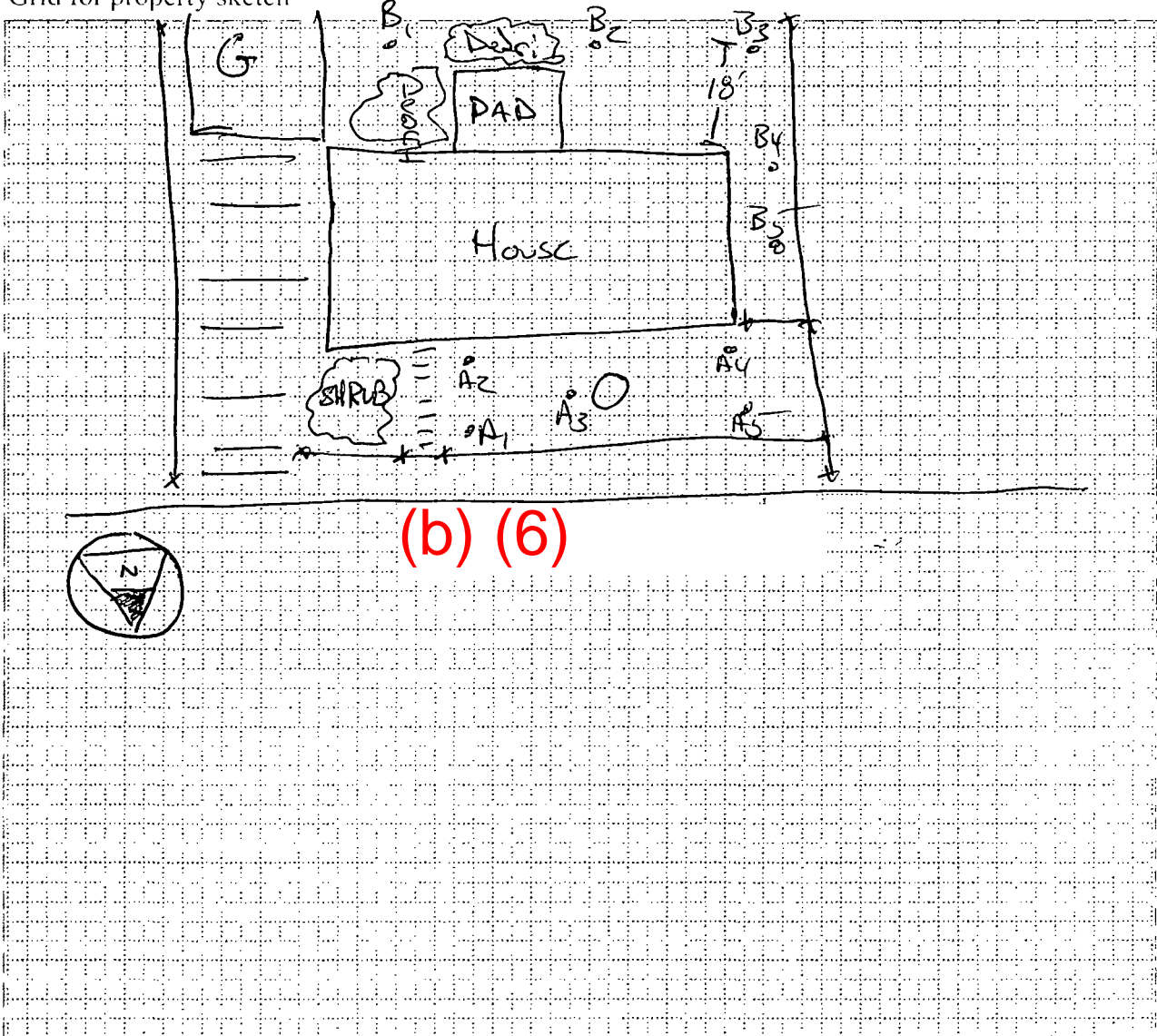
ARRIVAL TIME: 1330

Other pertinent information (weather conditions, etc.):

73° Sunny warm

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: CV0501 SAMPLE ID: CV0501A-CS-SP

SAMPLE COLLECTION TIME: 1450 1350 (VE)

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 <input checked="" type="checkbox"/>	Instrument #: <u>020168</u>	Logged? Y or N
Aliquot #1: Latitude: <u>33.55694838</u>	N Longitude: <u>86.80788163</u>	W
Media description: <u>Dark Brown Sandy Clay</u>		
Aliquot #2: Latitude: <u>33.55698380</u>	N Longitude: <u>86.80787480</u>	W
Media description: <u>SAME A₁</u>		
Aliquot #3: Latitude: <u>33.55695297</u>	N Longitude: <u>86.80791398</u>	W
Media description: <u>SAME A₁</u>		
Aliquot #4: Latitude: <u>33.55694031</u>	N Longitude: <u>86.80794221</u>	W
Media description: <u>SAME A₁</u>		
Aliquot #5: Latitude: <u>33.55698549</u>	N Longitude: <u>86.80793831</u>	W
Media description: <u>SAME A₁</u>		

STATION ID: CV0501 SAMPLE ID: CV0501B-CS-SP

SAMPLE COLLECTION TIME: 1500 1400 (VE)

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 <input checked="" type="checkbox"/>	Instrument #: <u>020168</u>	Logged? Y or N
Aliquot #1: Latitude: <u>33.55676098</u>	N Longitude: <u>86.80787987</u>	W
Media description: <u>medium Brown Sandy Clay</u>		
Aliquot #2: Latitude: <u>33.55676104</u>	N Longitude: <u>86.8079640</u>	W
Media description: <u>Dark Brown Sandy Clay</u>		
Aliquot #3: Latitude: <u>33.55678627</u>	N Longitude: <u>86.80798208</u>	W
Media description: <u>SAME B₁</u>		
Aliquot #4: Latitude: <u>33.55682166</u>	N Longitude: <u>86.80797740</u>	W
Media description: <u>SAME B₁</u>		
Aliquot #5: Latitude: <u>33.55687778</u>	N Longitude: <u>86.80797109</u>	W
Media description: <u>SAME B₁</u>		

(b) (6)

ADDRESS: _____

PROPERTY ID: CV0116

DATE: 4/1/13

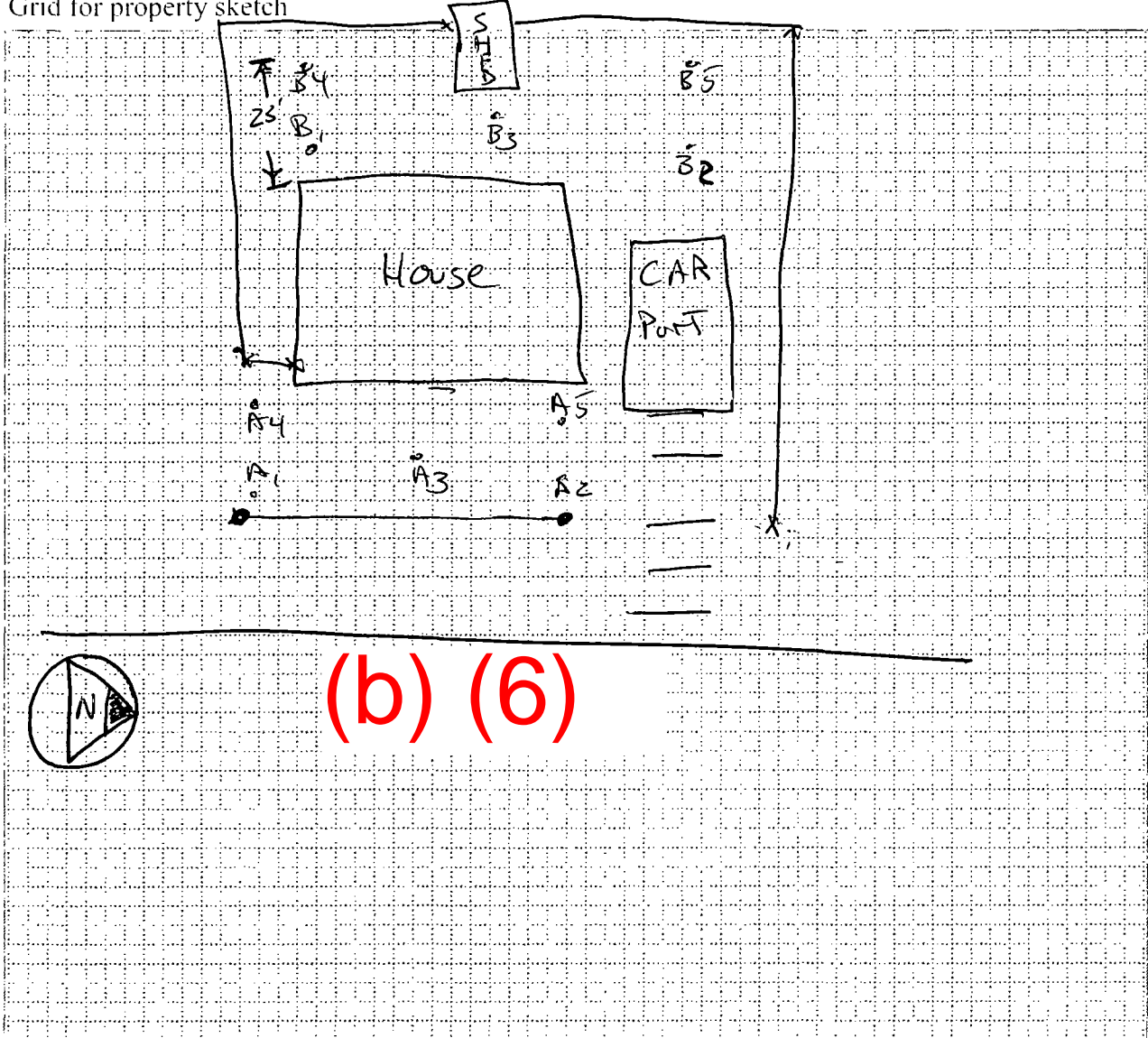
ARRIVAL TIME: 1430 1445

Other pertinent information (weather conditions, etc.):

73° sunny Warm

PROPERTY COMMENTS:

Grid for property sketch



(b) (6)

STATION ID: CV0116 SAMPLE ID: CV0116A-CS-SP

SAMPLE COLLECTION TIME: 1430

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 [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33.55959714</u> N Longitude <u>86.80501489</u> W Media description: <u>Dark Brown silty Clay w/ coal</u>
Aliquot #2: Latitude: <u>33.55963623</u> N Longitude <u>86.80502913</u> W Media description: <u>SAME A1</u>
Aliquot #3: Latitude: <u>33.55959318</u> N Longitude <u>86.80506250</u> W Media description: <u>SAME A1</u>
Aliquot #4: Latitude: <u>33.55966956</u> N Longitude <u>86.80501463</u> W Media description: <u>SAME A1</u>
Aliquot #5: Latitude: 33.55967947 <u>33.55967947</u> N Longitude <u>86.80504281</u> W Media description: <u>SAME A1</u>

STATION ID: CV0116 SAMPLE ID: CV0116B-CS-SP

SAMPLE COLLECTION TIME: 1440

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

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33.55961693</u> N Longitude <u>86.80526349</u> W Media description: <u>Dark Brown s.ilty Clay w/ coal</u>
Aliquot #2: Latitude: <u>33.55970393</u> N Longitude <u>86.80524502</u> W Media description: <u>SAME B1</u>
Aliquot #3: Latitude: <u>33.55964877</u> N Longitude <u>86.80528220</u> W Media description: <u>SAME B1</u>
Aliquot #4: Latitude: <u>33.55960284</u> N Longitude <u>86.80531166</u> W Media description: <u>SAME B1</u>
Aliquot #5: Latitude: <u>33.55969207</u> N Longitude <u>86.80532134</u> W Media description: <u>SAME B1</u>

(b) (6)

ADDRESS:

PROPERTY ID:

HP0257

DATE: 4/2/13

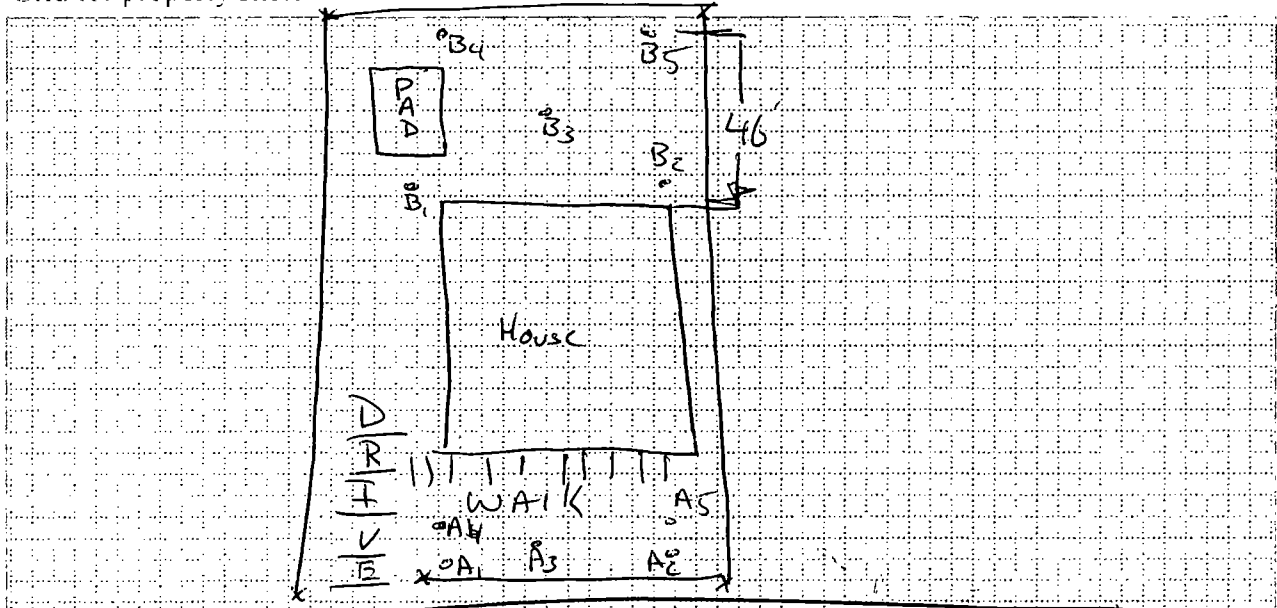
ARRIVAL TIME: 0900

Other pertinent information (weather conditions, etc.):

57° Sunny cool

PROPERTY COMMENTS:

Grid for property sketch



(b) (6)

STATION ID: HP 0257 SAMPLE ID: HP0257A-CS-SP

SAMPLE COLLECTION TIME: 0920

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 [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33.56667053</u> N Longitude <u>86.79012265</u> W Media description: <u>Dark Brown Sandy Clay w/coal & Dap</u>
Aliquot #2: Latitude: <u>33.56666156</u> N Longitude <u>86.79005986</u> W Media description: <u>SAME A₁</u>
Aliquot #3: Latitude: <u>33.56668635</u> N Longitude <u>86.79008858</u> W Media description: <u>SAME A₁</u>
Aliquot #4: Latitude: <u>33.56670593</u> N Longitude <u>86.79012580</u> W Media description: <u>SAME A₁</u>
Aliquot #5: Latitude: <u>33.56669833</u> N Longitude <u>86.79005824</u> W Media description: <u>SAME A₁</u>

STATION ID: HP0257 SAMPLE ID: HP0257B-CS-SP

SAMPLE COLLECTION TIME: 0930

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 [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33.56682301</u> N Longitude <u>86.79015369</u> W Media description: <u>Dark Brown Sandy Clay w/coal & Dap</u>
Aliquot #2: Latitude: <u>33.56689395</u> N Longitude <u>86.79006017</u> W Media description: <u>SAME B₁</u>
Aliquot #3: Latitude: <u>33.56695033</u> N Longitude <u>86.79011385</u> W Media description: <u>SAME B₁</u>
Aliquot #4: Latitude: <u>33.56701469</u> N Longitude <u>86.79015014</u> W Media description: <u>SAME B₁</u>
Aliquot #5: Latitude: <u>33.56700229</u> N Longitude <u>86.79007198</u> W Media description: <u>SAME B₁</u>

(b) (6)

ADDRESS

PROPERTY ID:

HP-0176

DATE:

4-2/13

ARRIVAL TIME:

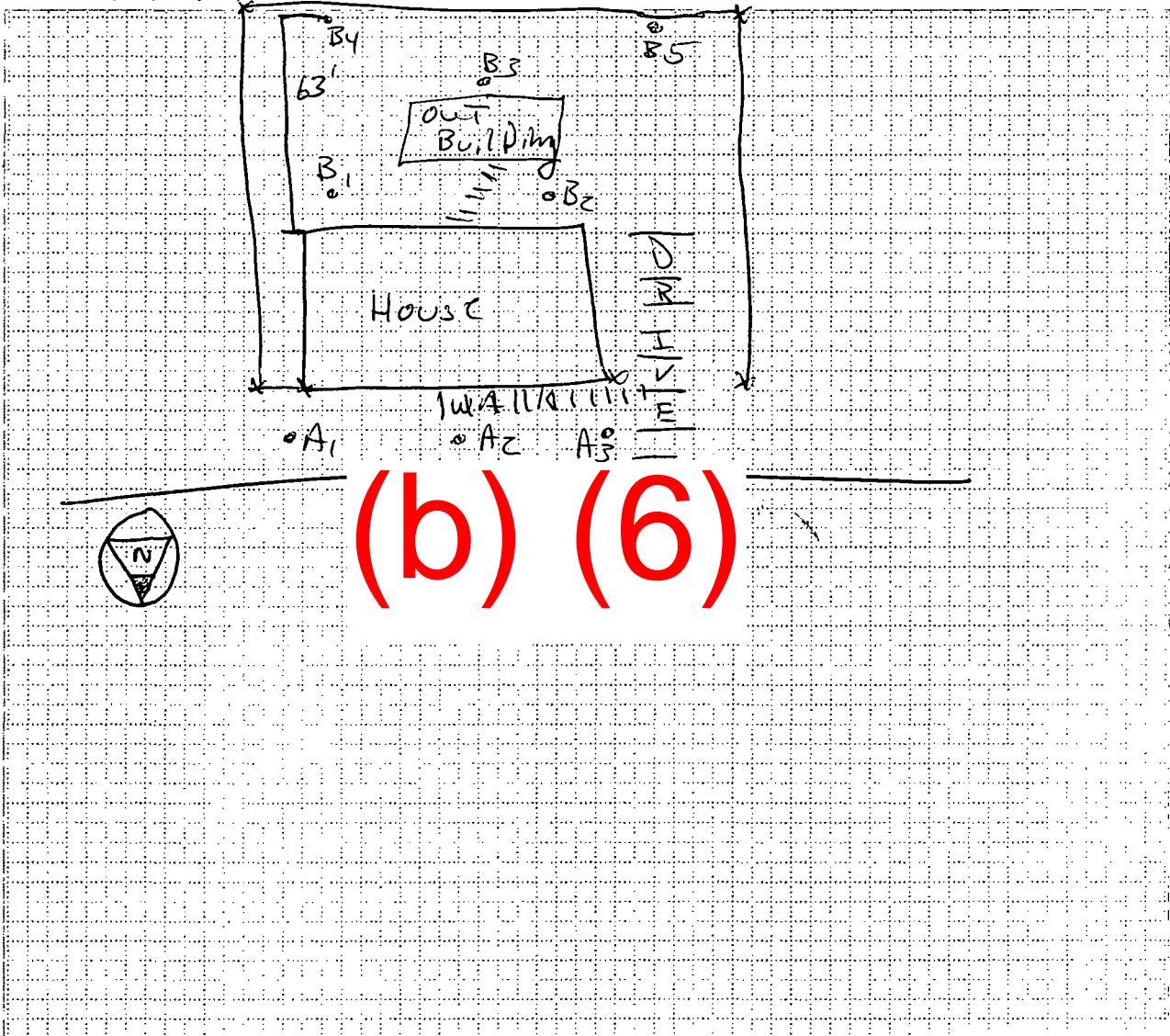
0955

Other pertinent information (weather conditions, etc.):

57° Sunny Cool

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: HP 0176 SAMPLE ID: HP0176A-CS-SP

SAMPLE COLLECTION TIME: 1000

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~~ DR If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33.56576260</u> N Longitude <u>86.792</u> W Media description: <u>OSey clay</u>
Aliquot #2: Latitude: <u>33.56576264</u> N Longitude <u>86.79297044</u> W Media description: <u>Dark Brown clay silt</u>
Aliquot #3: Latitude: <u>33.56575440</u> N Longitude <u>86.79302484</u> W Media description: <u>medium Brown clay silt</u>
Aliquot #4: Latitude: _____ N Longitude _____ W Media description: _____
Aliquot #5: Latitude: _____ N Longitude _____ W Media description: _____

4/2/13

STATION ID: HP0176 SAMPLE ID: HP0176B-CS-SP

SAMPLE COLLECTION TIME: 1010

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~~ DR If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33.56558233</u> N Longitude <u>86.79293146</u> W Media description: <u>medium to Dark Brown sandy clay</u>
Aliquot #2: Latitude: <u>33.56559116</u> N Longitude <u>86.79301316</u> W Media description: <u>same B₁</u>
Aliquot #3: Latitude: <u>33.56551472</u> N Longitude <u>86.79297624</u> W Media description: <u>same B₁</u>
Aliquot #4: Latitude: <u>33.56540055</u> N Longitude <u>86.79293725</u> W Media description: <u>same B₁</u>
Aliquot #5: Latitude: <u>33.56541643</u> N Longitude <u>86.79301314</u> W Media description: <u>same B₁</u>

(b) (6)

ADDRESS:

PROPERTY ID:

4P 0167

DATE: 4/2/13

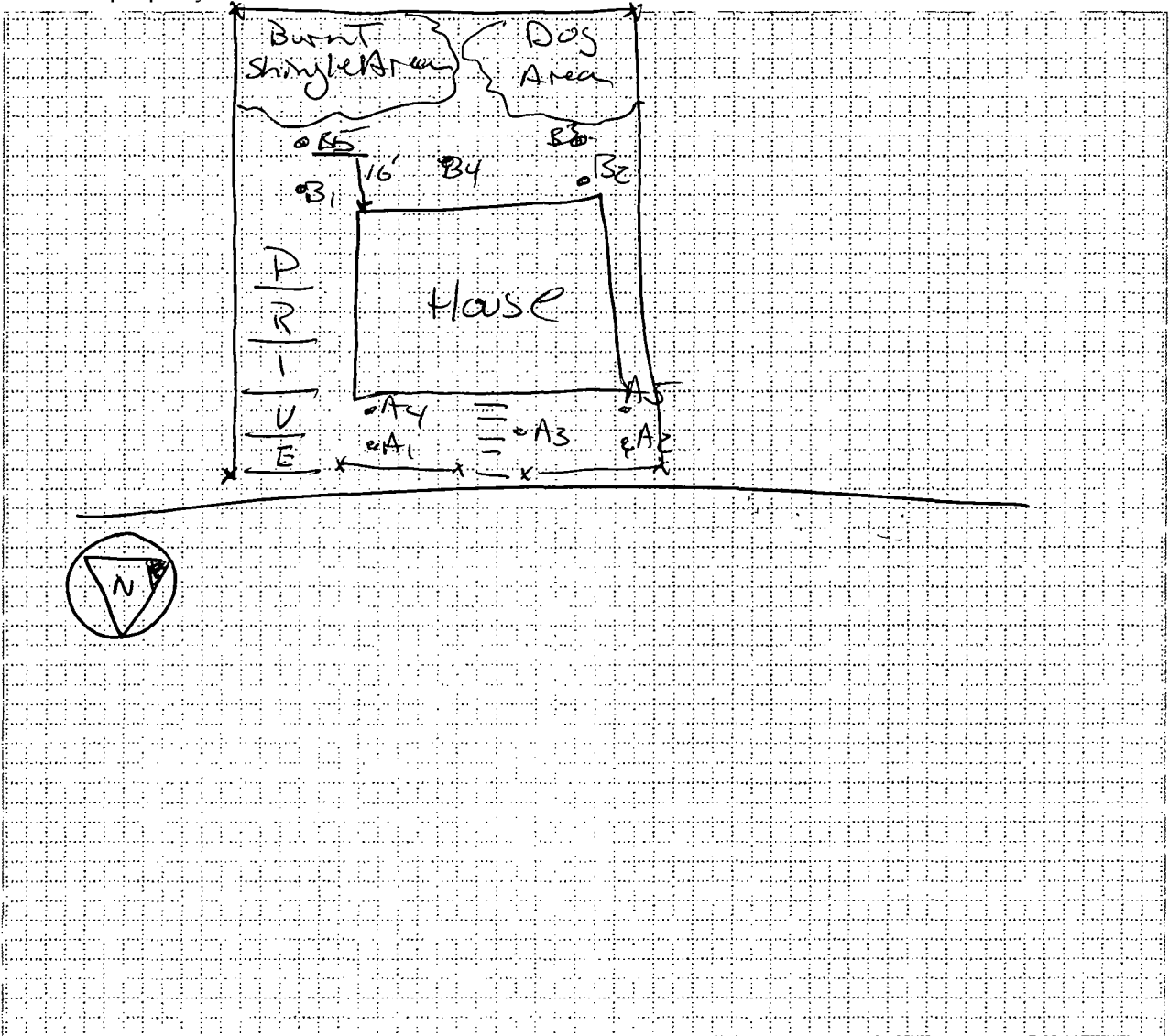
ARRIVAL TIME: 1215

Other pertinent information (weather conditions, etc.):

67° sunny cool

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: HP0167 SAMPLE ID: HP0167A-CS-SP

SAMPLE COLLECTION TIME: 1235

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 <input checked="" type="checkbox"/>	Instrument #: <u>020168</u>	Logged? Y or N
Aliquot #1: Latitude: <u>33.56579293</u>	N Longitude: <u>86.79396195</u>	W
Media description: <u>medium sandy silt w/coal</u>		
Aliquot #2: Latitude: <u>33.56579321</u>	N Longitude: <u>86.79404994</u>	W
Media description: <u>same A₁</u>		
Aliquot #3: Latitude: <u>33.56577456</u>	N Longitude: <u>86.79400894</u>	W
Media description: <u>same A₁</u>		
Aliquot #4: Latitude: <u>33.56575845</u>	N Longitude: <u>86.79396556</u>	W
Media description: <u>same A₁</u>		
Aliquot #5: Latitude: <u>33.56576635</u>	N Longitude: <u>86.79405301</u>	W
Media description: <u>same A₁</u>		

STATION ID: HP0167 SAMPLE ID: HP0167B-CS-SP

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 <input checked="" type="checkbox"/>	Instrument #: <u>020168</u>	Logged? Y or N
Aliquot #1: Latitude: <u>33.56553077</u>	N Longitude: <u>86.79395269</u>	W
Media description: <u>medium sand silt w/coal</u>		
Aliquot #2: Latitude: <u>33.56552603</u>	N Longitude: <u>86.79402403</u>	W
Media description: <u>same B₁</u>		
Aliquot #3: Latitude: <u>33.56550661</u>	N Longitude: <u>86.79398838</u>	W
Media description: <u>same B₁</u>		
Aliquot #4: Latitude: <u>33.56547992</u>	N Longitude: <u>86.79392421</u>	W
Media description: <u>same B₁</u>		
Aliquot #5: Latitude: <u>33.56550001</u>	N Longitude: <u>86.79402308</u>	W
Media description: <u>same B₁</u>		

ADDRESS: **(b) (6)**

PROPERTY ID: CV0954

DATE: 4/2/13

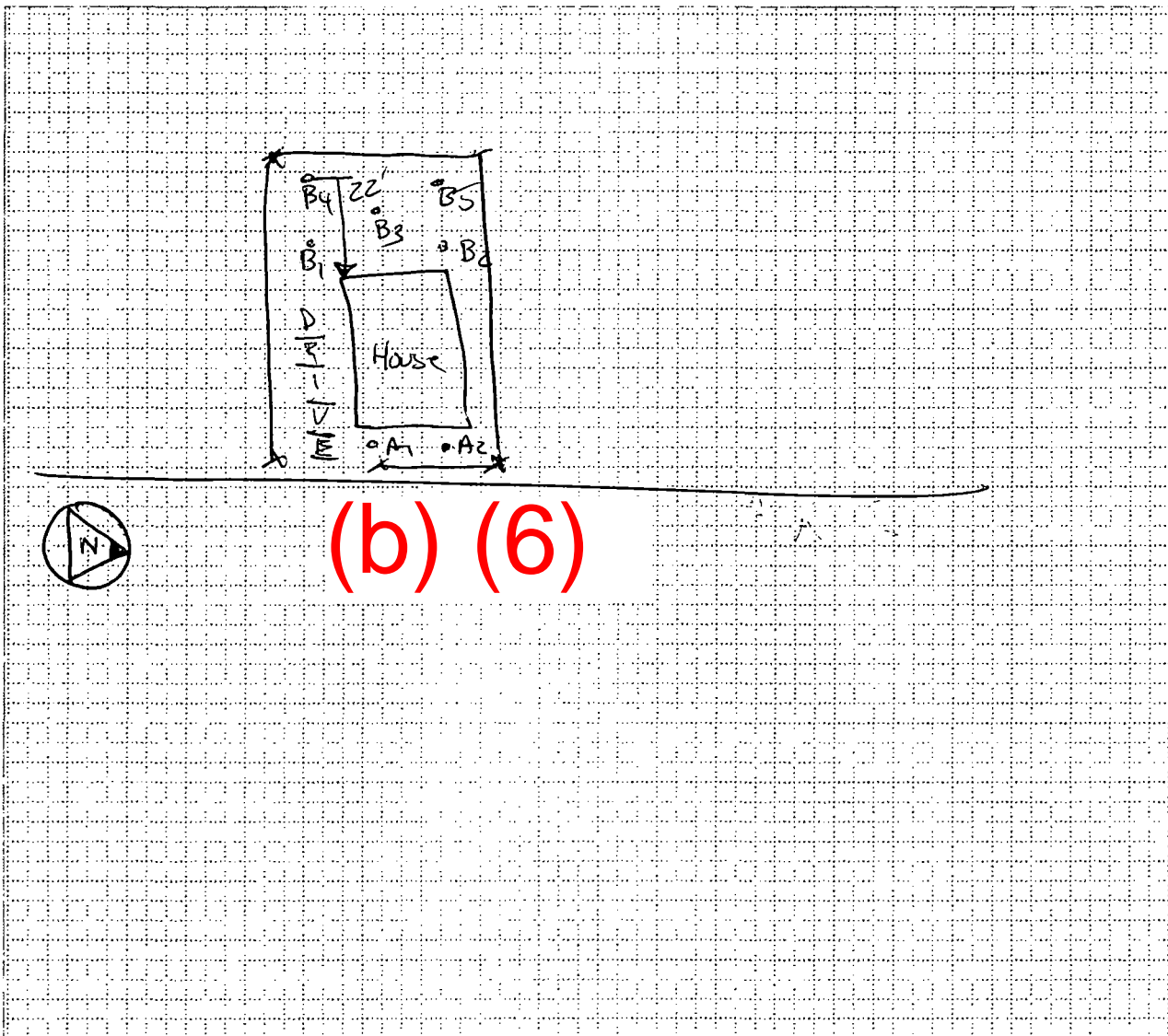
ARRIVAL TIME: 1335

Other pertinent information (weather conditions, etc.):

67° Sunny

PROPERTY COMMENTS:

Grid for property sketch



(b) (6)

STATION ID: CV0954 SAMPLE ID: CV0954A-CS-SP

SAMPLE COLLECTION TIME: 1345

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 [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33.55289039</u> N Longitude: <u>86.79846891</u> W Media description: <u>Dark Brown sandy Clay w/coal</u>
Aliquot #2: Latitude: <u>same A1</u> N Longitude: _____ W Media description: <u>33.55293146 86.79846089</u>
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: CV0954 SAMPLE ID: CV0954B-CS-SP

SAMPLE COLLECTION TIME: 1355

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 [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33.55285524</u> N Longitude: <u>86.79865726</u> W Media description: <u>medium Brown sandy silt</u>
Aliquot #2: Latitude: <u>33.55293117</u> N Longitude: <u>86.79867202</u> W Media description: <u>same B1</u>
Aliquot #3: Latitude: <u>33.55288961</u> N Longitude: <u>86.79868169</u> W Media description: <u>same B1</u>
Aliquot #4: Latitude: <u>33.55285446</u> N Longitude: <u>86.79871476</u> W Media description: <u>same B1</u>
Aliquot #5: Latitude: <u>33.55293149</u> N Longitude: <u>86.79869834</u> W Media description: <u>same B1</u>

(b) (6)

ADDRESS:

PROPERTY ID:

CB0497

DATE:

4-3-13

ARRIVAL TIME:

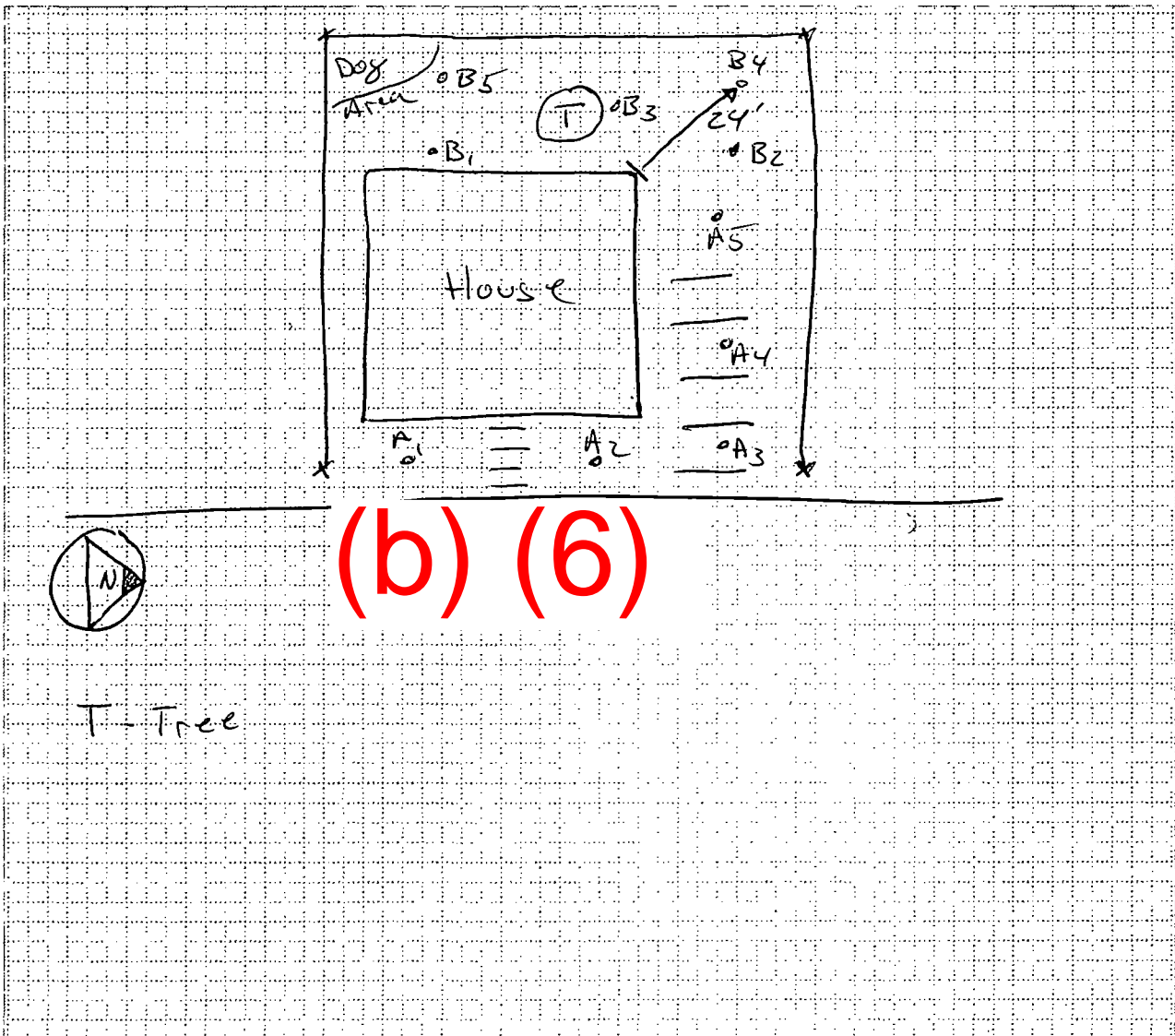
855

Other pertinent information (weather conditions, etc.):

58° overcast

PROPERTY COMMENTS:

Grid for property sketch



T-Tree

STATION ID: CV0497 SAMPLE ID: CV0497A-CS-SP

SAMPLE COLLECTION TIME: 0910

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

Front & Side (North) Area

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>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33.56049526</u> N Longitude <u>86.80265816</u> W
Media description: <u>medium to Dark Brown sandy clay</u>
Aliquot #2: Latitude: <u>33.56055393</u> N Longitude <u>86.80266737</u> W
Media description: <u>SAME A1</u>
Aliquot #3: Latitude: <u>33.56057473</u> N Longitude <u>86.80269141</u> W
Media description: <u>SAME A1</u>
Aliquot #4: Latitude: <u>33.56057319</u> N Longitude <u>86.80274800</u> W
Media description: <u>SAME A1</u>
Aliquot #5: Latitude: <u>33.56057145</u> N Longitude <u>86.80281423</u> W
Media description: <u>SAME A1</u>

STATION ID: CV0497 SAMPLE ID: CV0497B-CS-SP

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: _____

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33.56057320</u> N Longitude <u>86.80287344</u> W
Media description: <u>Light Brown sandy silt</u>
Aliquot #2: Latitude: <u>33.56045623</u> N Longitude <u>86.80287462</u> W
Media description: <u>SAME B1</u>
Aliquot #3: Latitude: <u>33.56051464</u> N Longitude <u>86.80293932</u> W
Media description: <u>SAME B1</u>
Aliquot #4: Latitude: <u>33.56047045</u> N Longitude <u>86.80295692</u> W
Media description: <u>SAME B1</u>
Aliquot #5: Latitude: <u>33.56057290</u> N Longitude <u>86.80293823</u> W
Media description: <u>Black sandy silt</u>

(b) (6)

ADDRESS: _____

PROPERTY ID: CV0496

DATE: 4/3/13

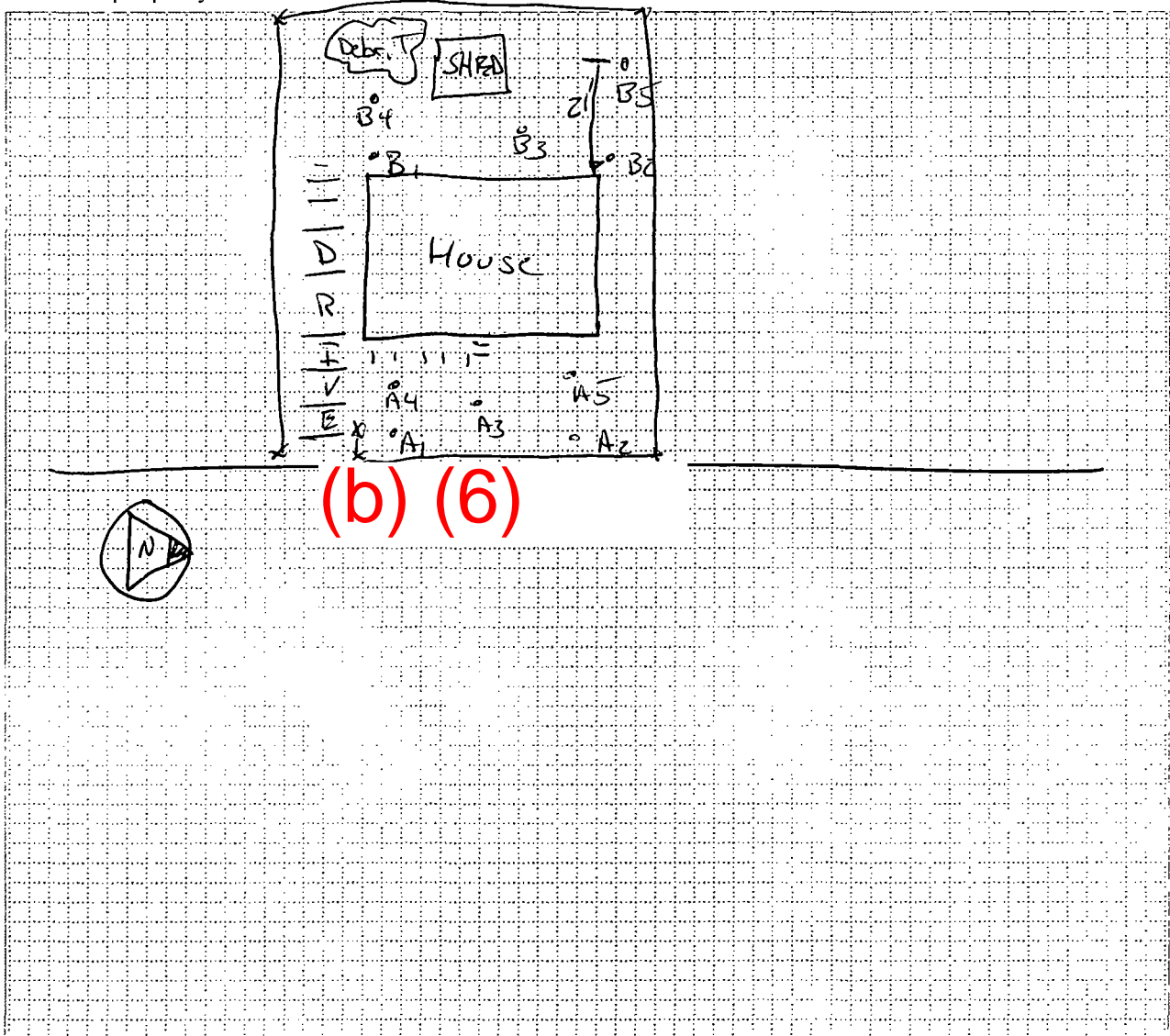
ARRIVAL TIME: 0900

Other pertinent information (weather conditions, etc.):

58° overcast

PROPERTY COMMENTS:

Grid for property sketch



(b) (6)

STATION ID: CV0496 SAMPLE ID: CV0496A-CS-SP

SAMPLE COLLECTION TIME: 0940

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 [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N			
Aliquot #1: Latitude: <u>33.56040263</u>	N Longitude	<u>86.80265692</u>	W
Media description: <u>Tan & orange clay - moist</u>			
Aliquot #2 Latitude: <u>33.56041079</u>	N Longitude	<u>86.80266278</u>	W
Media description: <u>Dark Brown clay silt</u>			
Aliquot #3: Latitude: <u>33.56042621</u>	N Longitude	<u>86.80270128</u>	W
Media description: <u>medium Brown sandy clay w/gravel</u>			
Aliquot #4: Latitude: <u>33.56037435</u>	N Longitude		W
Media description: <u>same A1</u>			
Aliquot #5: Latitude: <u>33.56043920</u>	N Longitude	<u>86.80273479</u>	W
Media description: <u>same A1</u>			

STATION ID: CV0496 SAMPLE ID: CV0496B-CS-SP

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 [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N			
Aliquot #1: Latitude: <u>33.56028641</u>	N Longitude	<u>86.80291630</u>	W
Media description: <u>Dark Brown silty clay w/coal & gravel</u>			
Aliquot #2 Latitude: <u>33.56039400</u>	N Longitude	<u>86.80293419</u>	W
Media description: <u>same B1</u>			
Aliquot #3: Latitude: <u>33.56032502</u>	N Longitude	<u>86.80294637</u>	W
Media description: <u>same B1</u>			
Aliquot #4: Latitude: <u>33.56027037</u>	N Longitude	<u>86.80295846</u>	W
Media description: <u>same B1</u>			
Aliquot #5: Latitude: <u>33.56037712</u>	N Longitude	<u>86.80298448</u>	W
Media description: <u>same B1</u>			

(b) (6)

ADDRESS: _____ PROPERTY ID: CV 1311

DATE: 4/3/13 ARRIVAL TIME: 1010

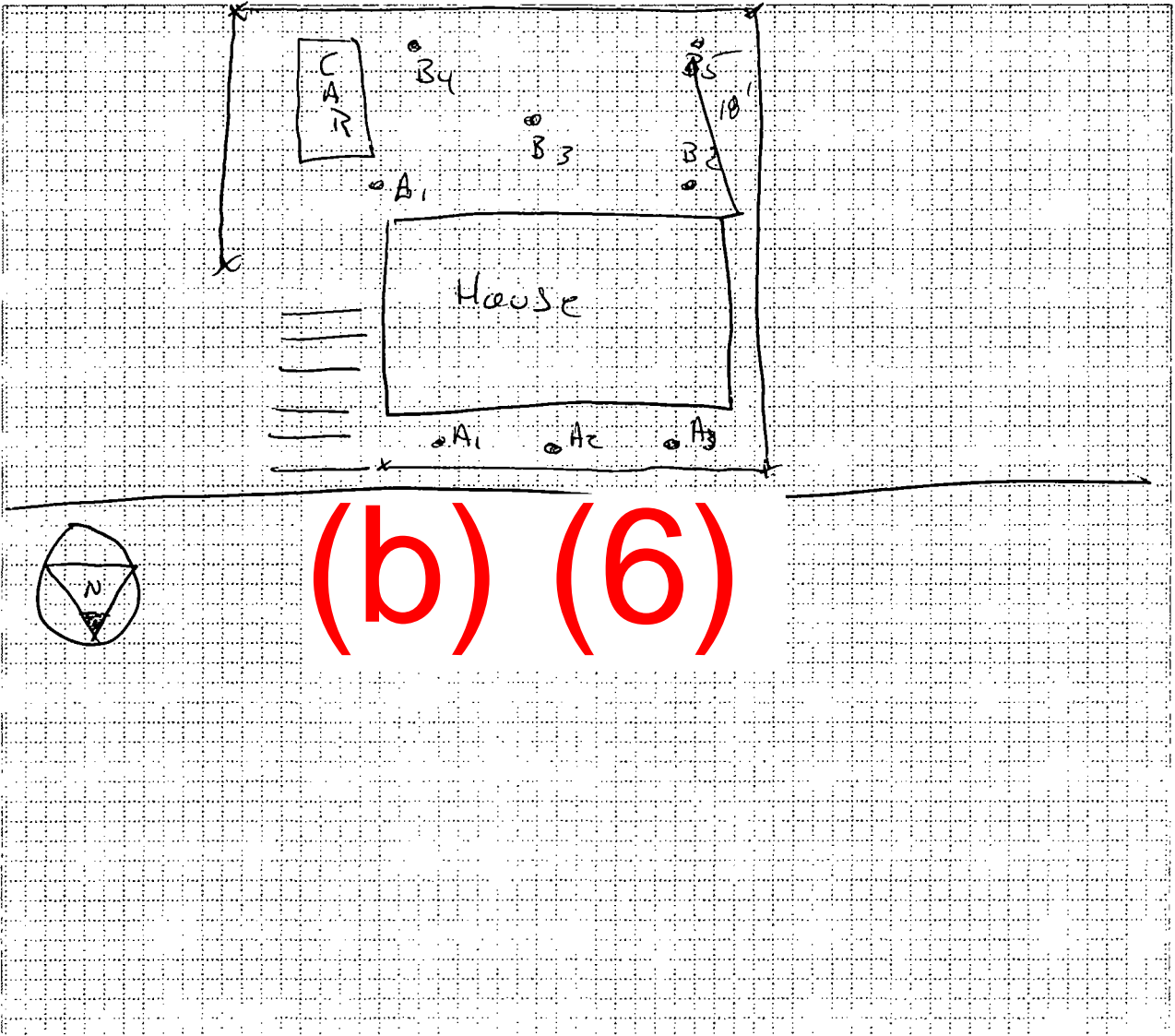
Other pertinent information (weather conditions, etc.):

57° air cast cool

PROPERTY COMMENTS:

A lot of oil ground staining

Grid for property sketch



STATION ID: CV1311 SAMPLE ID: CV1311A-CS-5A

SAMPLE COLLECTION TIME: 1025

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 [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33,55214942</u> N Longitude <u>86,79990679</u> W Media description: <u>Dark Brown clay silt</u>
Aliquot #2: Latitude: <u>33,55216726</u> N Longitude <u>86,79990967</u> W Media description: <u>A1 same</u>
Aliquot #3: Latitude: <u>33,55218114</u> N Longitude <u>86,79991205</u> W Media description: <u>same A1</u>
Aliquot #4: Latitude: _____ N Longitude _____ W Media description: _____
Aliquot #5: Latitude: _____ N Longitude _____ W Media description: _____

STATION ID: CV1311 SAMPLE ID: CV1311B-CS-5A

SAMPLE COLLECTION TIME: 1035

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 [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33,55210798</u> N Longitude <u>86,80008461</u> W Media description: <u>Dark Brown clay silt</u>
Aliquot #2: Latitude: <u>33,55218651</u> N Longitude <u>86,80009569</u> W Media description: <u>same B1</u>
Aliquot #3: Latitude: <u>33,55215931</u> N Longitude <u>86,80011538</u> W Media description: <u>same B1</u>
Aliquot #4: Latitude: <u>33,55213680</u> N Longitude <u>86,80015389</u> W Media description: <u>same B1</u>
Aliquot #5: Latitude: <u>33,55219804</u> N Longitude <u>86,80014646</u> W Media description: <u>same B1</u>

(b) (6)

ADDRESS: _____ PROPERTY ID: CV 1254

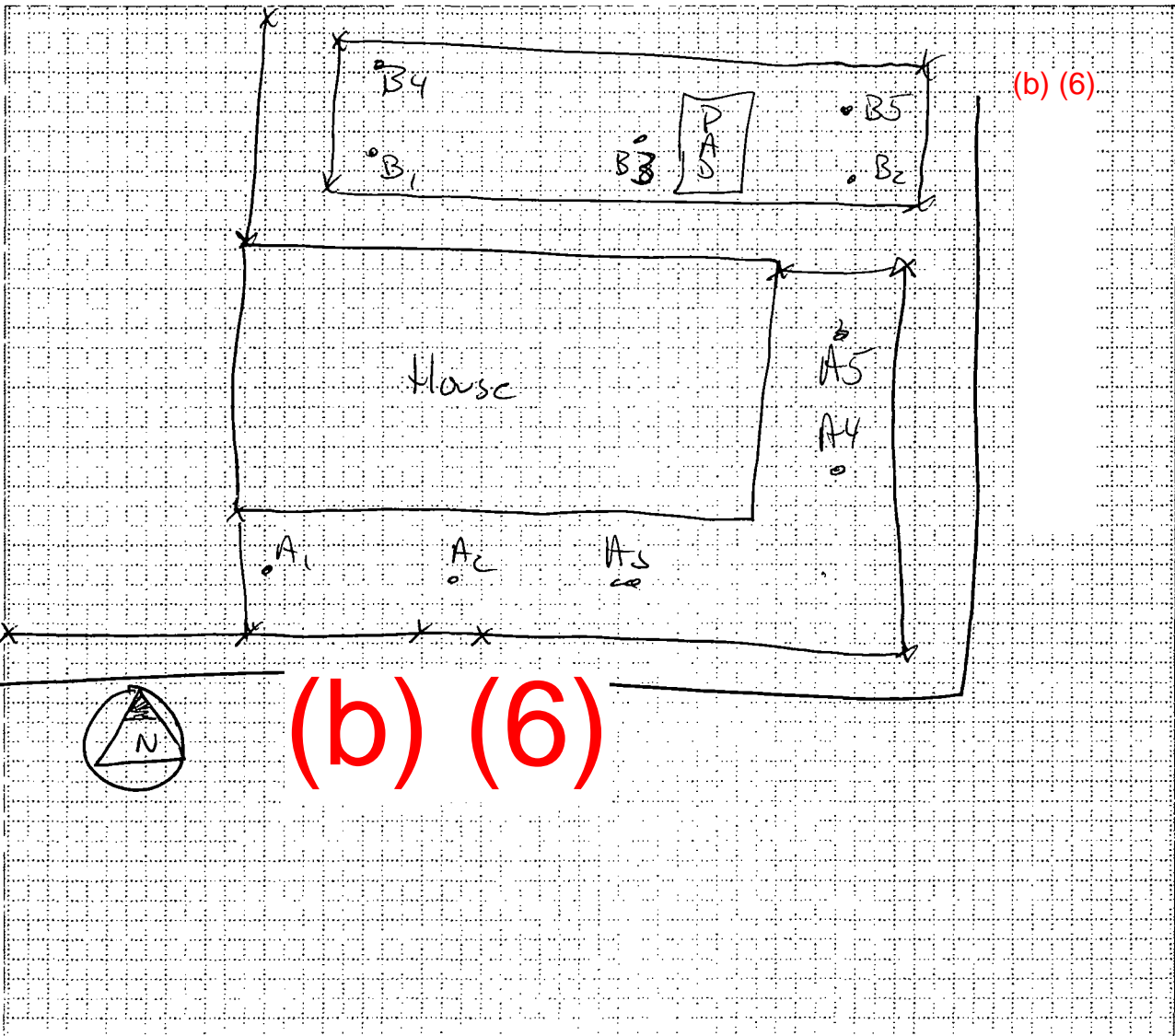
DATE: 4/3/13 ARRIVAL TIME: 1230

Other pertinent information (weather conditions, etc.):

58° overcast cool

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: CV1254 SAMPLE ID: CV1254A-CS-SP

SAMPLE COLLECTION TIME: 1245

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: <u>33,55191516</u>	N Longitude: <u>86,79749932</u>	W	
Media description: <u>Dark Brown Clay silt</u>			
Aliquot #2: Latitude: <u>33,55192849</u>	N Longitude: <u>86.79742270</u>	W	
Media description: <u>Same A1</u>			
Aliquot #3: Latitude: <u>33,55192465</u>	N Longitude: <u>86.79738094</u>	W	
Media description: <u>Same A1</u>			
Aliquot #4: Latitude: <u>33,5515417</u>	N Longitude: <u>86.79737094</u>	W	
Media description: <u>Same A1</u>			
Aliquot #5: Latitude: <u>33,55200342</u>	N Longitude: <u>86.55200342</u>	W	
Media description: <u>Same A1</u>			

STATION ID: CV1254 SAMPLE ID: CV1254B-CS-SP

SAMPLE COLLECTION TIME: 1255

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 [<u>V</u>] Instrument #: <u>020168</u>		Logged? Y or N	
Aliquot #1: Latitude: <u>33.55214512</u>	N Longitude: <u>86.79748671</u>	W	
Media description: <u>Dark Brown Clay silt</u>			
Aliquot #2: Latitude: <u>33.55214512</u>	N Longitude: <u>86.79748671</u>	W	
Media description: <u>Same B1</u>			
Aliquot #3: Latitude: <u>33.55212120</u>	N Longitude: <u>86.79736002</u>	W	
Media description: <u>Same B1</u>			
Aliquot #4: Latitude: <u>33.55220578</u>	N Longitude: <u>86.79749161</u>	W	
Media description: <u>Same B1</u>			
Aliquot #5: Latitude: <u>33.55220523</u>	N Longitude: <u>86.79736625</u>	W	
Media description: <u>Same B1</u>			

(b) (6)

ADDRESS:

ERTY ID: CV-Ditch Grab

DATE: 4/3/13

ARRIVAL TIME: 1300

Other pertinent information (weather conditions, etc.):

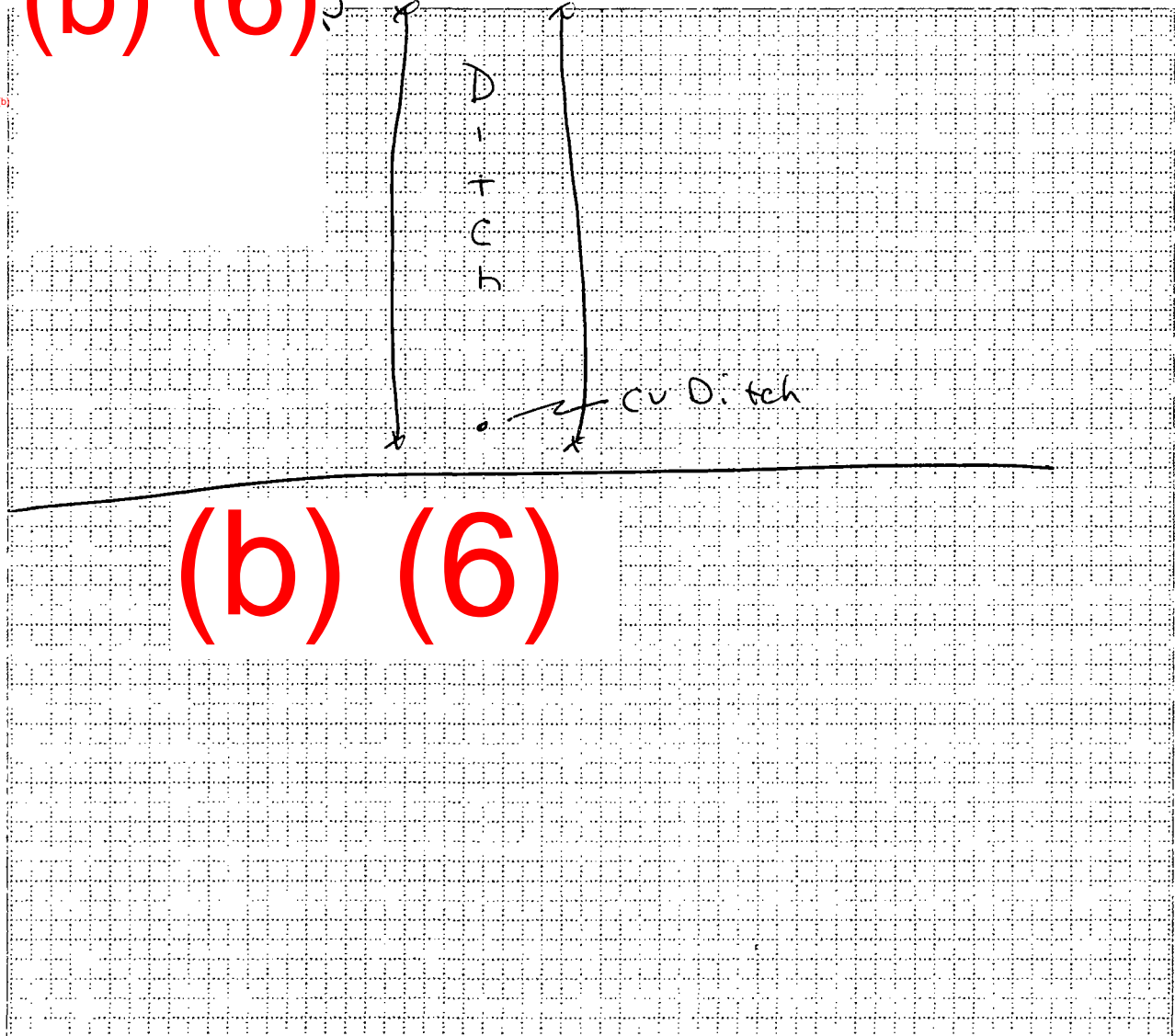
58° overcast

PROPERTY COMMENTS:

This is from a Ditch in Back of BuT NOT part
of Parcel (b) (6)

Ditch looks like it is highly impacted

(b) (6)



STATION ID: CV Ditch Grab SAMPLE ID: CV Ditch Grab

SAMPLE COLLECTION TIME: 1305

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

Drainage Ditch

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

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

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N	
Aliquot #1: Latitude: <u>33.552245</u> N Longitude: <u>86.797358</u> W	
Media description: <u>medium to Dark Brown silty Clay w/Trash</u>	
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: No If yes, indicate Duplicate/split sample station ID: _____

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

(b) (6)

ADDRESS: _____

PROPERTY ID: CV0741

DATE: 4/3/13

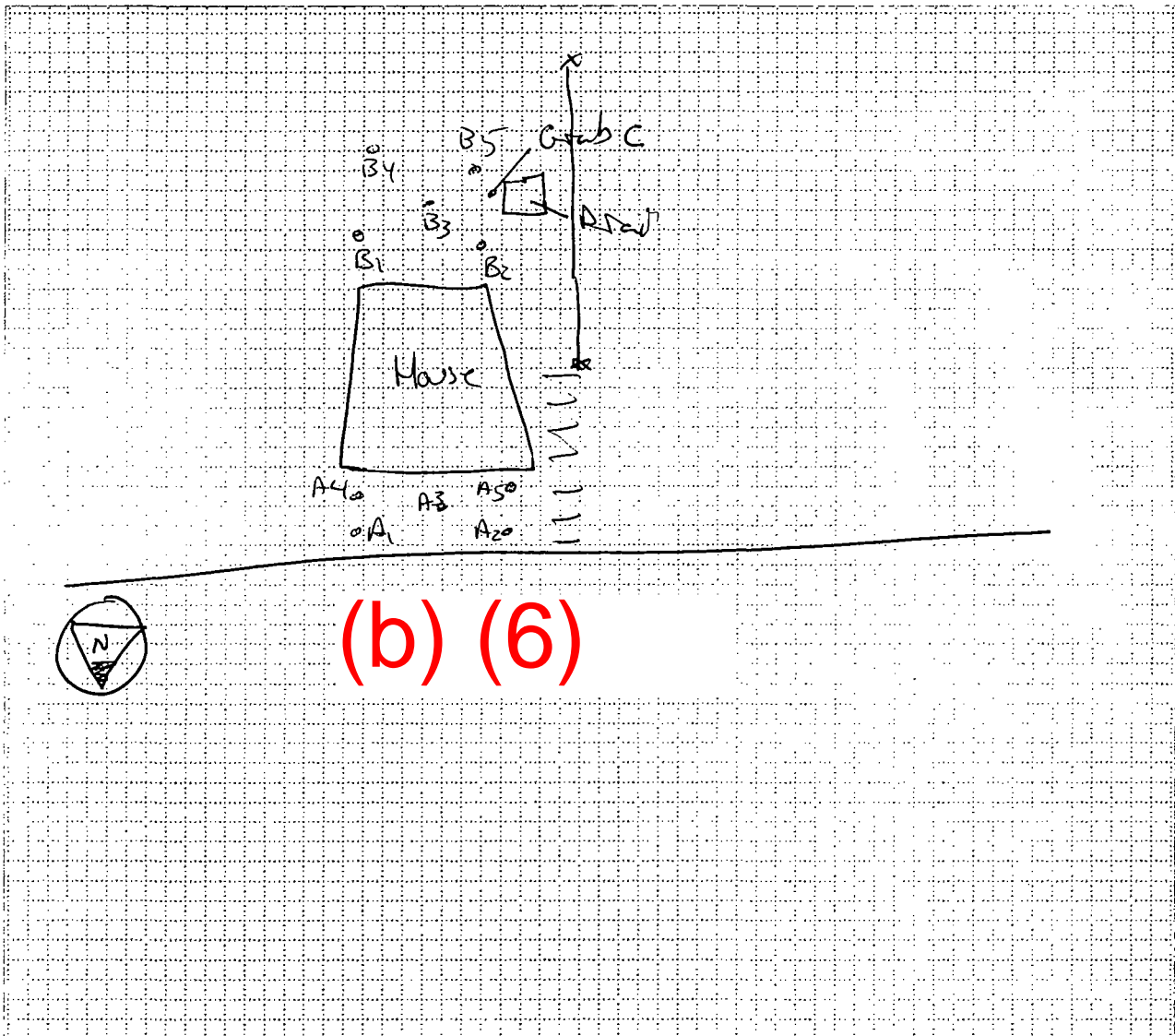
ARRIVAL TIME: 1335

Other pertinent information (weather conditions, etc.):

55° Rain

PROPERTY COMMENTS:

Grid for property sketch



(b) (6)

STATION ID: CV0741 SAMPLE ID: CV0741A-CS-SP

SAMPLE COLLECTION TIME: 1350

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 [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33,55677348</u> N Longitude <u>86,79697905</u> W Media description: <u>Dark Brown s.lty Clay</u>
Aliquot #2: Latitude: <u>33,55677888</u> N Longitude <u>86,79704911</u> W Media description: <u>Same A1</u>
Aliquot #3: Latitude: <u>33,55674908</u> N Longitude <u>86,79699732</u> W Media description: <u>Medium Brown & Orange sandy Clay</u>
Aliquot #4: Latitude: <u>33,55672971</u> N Longitude <u>86,79696452</u> W Media description: <u>Same A3</u>
Aliquot #5: Latitude: <u>33,55672563</u> N Longitude <u>86,79704787</u> W Media description: <u>Same A3</u>

STATION ID: CV0741 SAMPLE ID: CV0741B-CS-SP

SAMPLE COLLECTION TIME: 1400

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 [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33,55653179</u> N Longitude <u>86,79707490</u> W Media description: <u>medium Brown sandy Clay</u>
Aliquot #2: Latitude: <u>33,55653008</u> N Longitude <u>86,79697724</u> W Media description: <u>Same B1</u>
Aliquot #3: Latitude: <u>33,55650260</u> N Longitude <u>86,79703875</u> W Media description: <u>Same B1</u>
Aliquot #4: Latitude: <u>33,55647508</u> N Longitude <u>86,79697929</u> W Media description: <u>Same B1 + w/coal</u>
Aliquot #5: Latitude: <u>33,55648693</u> N Longitude <u>86,79706708</u> W Media description: <u>Same B1</u>

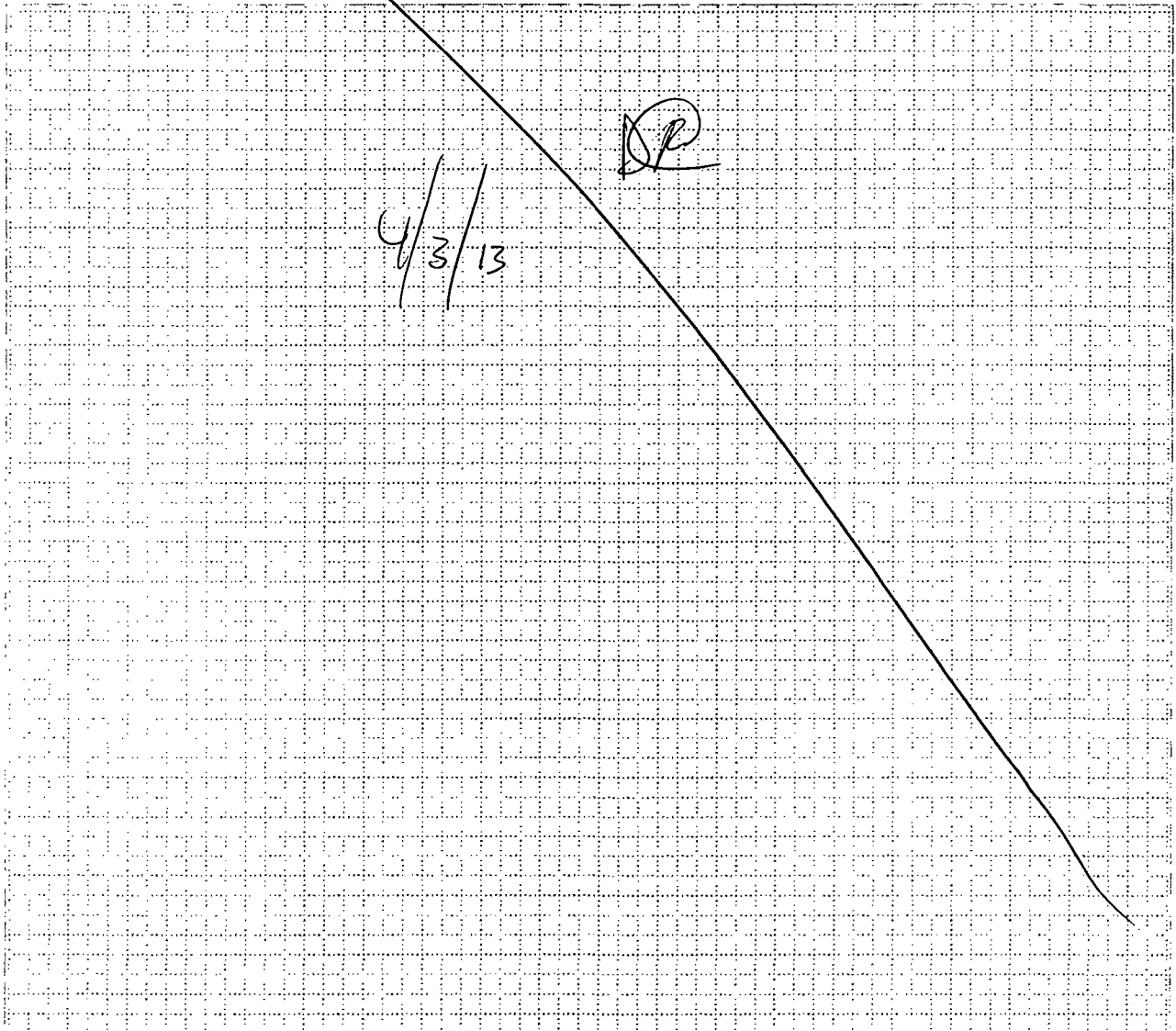
ADDRESS: _____ PROPERTY ID: CV0741

DATE: 4/3/13 ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: CU0741 SAMPLE ID: CU0741C-G-SP

SAMPLE COLLECTION TIME: 1410

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

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>020168</u> Logged? Y or N	
Aliquot #1: Latitude: <u>33,55647988</u> N Longitude: <u>86,79708471</u> W	
Media description: <u>medium Brown Clay w/gravel</u>	
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 [<input type="checkbox"/>] Instrument #: _____ Logged? Y or N	
Aliquot #1: Latitude: _____ N Longitude: _____ W	
Media description: _____	
Aliquot #2: Latitude: <u>4/3/13</u> 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: _____	

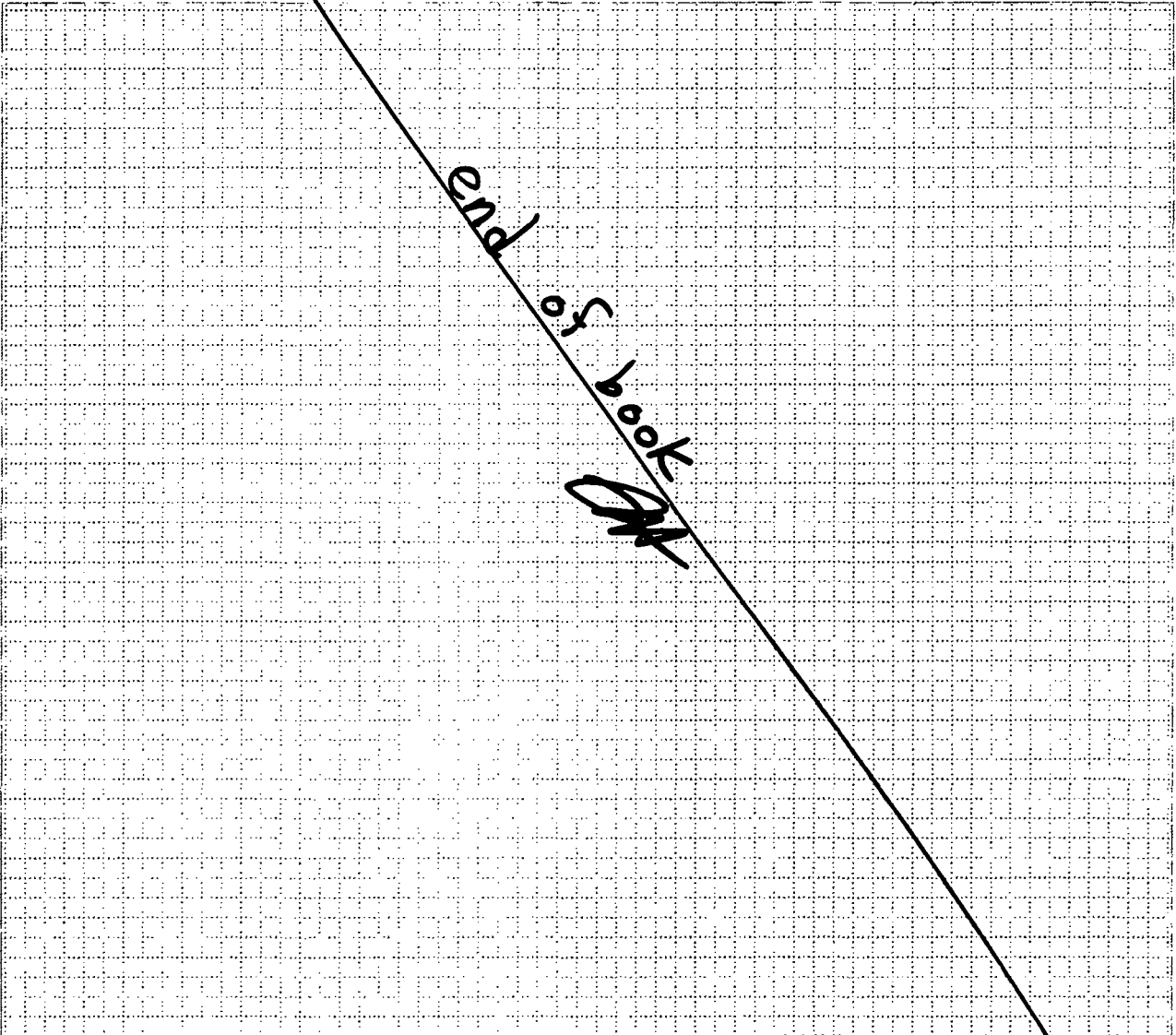
ADDRESS: _____ PROPERTY ID: _____

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.