

LB00068

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: ~~1-23-2013~~ 03/28/2013

List of Sampling Team in logbook:

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

THIS PAGE LEFT INTENTIONALLY BLANK

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.

THIS PAGE LEFT INTENTIONALLY BLANK

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: _____

DATE: 1/23/13 ARRIVAL TIME: 1326

Other pertinent information (weather conditions, etc.):

58° cloudy

PROPERTY COMMENTS:

(b) (6)

Grid for property sketch

GPS & P.I.C @ 1330 - 0800
GPS & P.I.C @ 1350 - 0800
GPS & P.I.C @ 1340 - 0810

DR

Placed points

3/28/13

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: _____

STATION ID: 3/28/13 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: CV1124

DATE: 3/28/13

ARRIVAL TIME: 1300

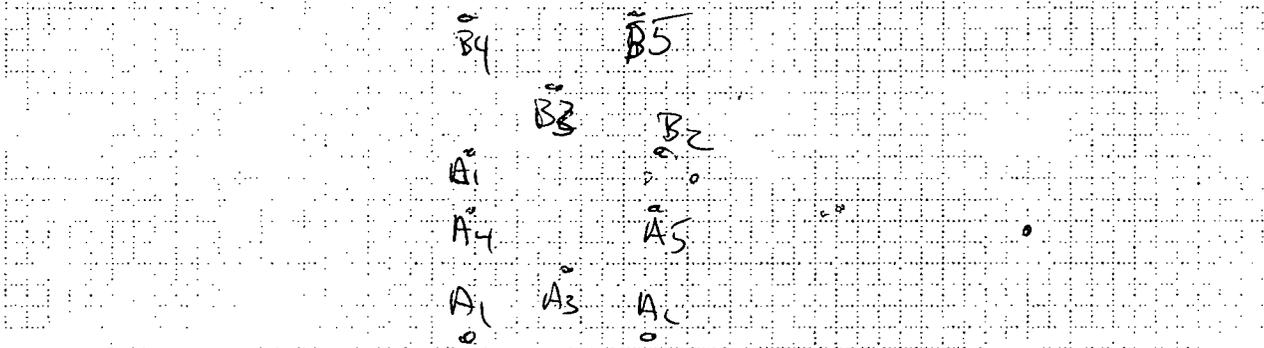
Other pertinent information (weather conditions, etc.):

63° sunny

PROPERTY COMMENTS:

empty City Parcel

Grid for property sketch



(b) (6)



STATION ID: CV 1124 SAMPLE ID: CV1124 A-CS

SAMPLE COLLECTION TIME: 1305

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):
empty 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 <input checked="" type="checkbox"/> Instrument #: <u>020168</u> Logged? Y or N	
Aliquot #1: Latitude: <u>33,55134876</u> N Longitude: <u>86,80404111</u> W	
Media description: <u>medium Brown silty Clay w/ coal</u>	
Aliquot #2 Latitude: SA <u>33,55134576</u> N Longitude: <u>86,80392644</u> W	
Media description: <u>Brown silty Clay w/ gravel</u>	
Aliquot #3: Latitude: same A1 <u>33,55139384</u> N Longitude: <u>86,80399350</u> W	
Media description: <u>same A1</u>	
Aliquot #4: Latitude: same A1 <u>33,55142910</u> N Longitude: <u>86,80403515</u> W	
Media description: <u>same A1</u>	
Aliquot #5: Latitude: <u>33,55142713</u> N Longitude: <u>86,80392973</u> W	
Media description: <u>Brown silty Clay w/ gravel</u>	

STATION ID: CV1124 SAMPLE ID: CV1124 B-CS

SAMPLE COLLECTION TIME: 1315

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):
empty 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 <input checked="" type="checkbox"/> Instrument #: <u>020168</u> Logged? Y or N	
Aliquot #1: Latitude: <u>33,35146259</u> N Longitude: <u>86,80403189</u> W	
Media description: <u>Dark Brown & Red Brown sandy clay</u>	
Aliquot #2 Latitude: <u>33,55146243</u> N Longitude: <u>86,80392788</u> W	
Media description: <u>Dark Brown & clay silt</u>	
Aliquot #3: Latitude: <u>33,55150942</u> N Longitude: <u>86,80398108</u> W	
Media description: <u>same B2</u>	
Aliquot #4: Latitude: <u>33,55155334</u> N Longitude: <u>86,80403026</u> W	
Media description: <u>same B2</u>	
Aliquot #5: Latitude: <u>33,55134822</u> N Longitude: <u>86,80392505</u> W	
Media description: <u>same B2</u>	

ADDRESS: **(b) (6)** PROPERTY ID: CV 1126

DATE: 3/28/13 ARRIVAL TIME: 1300

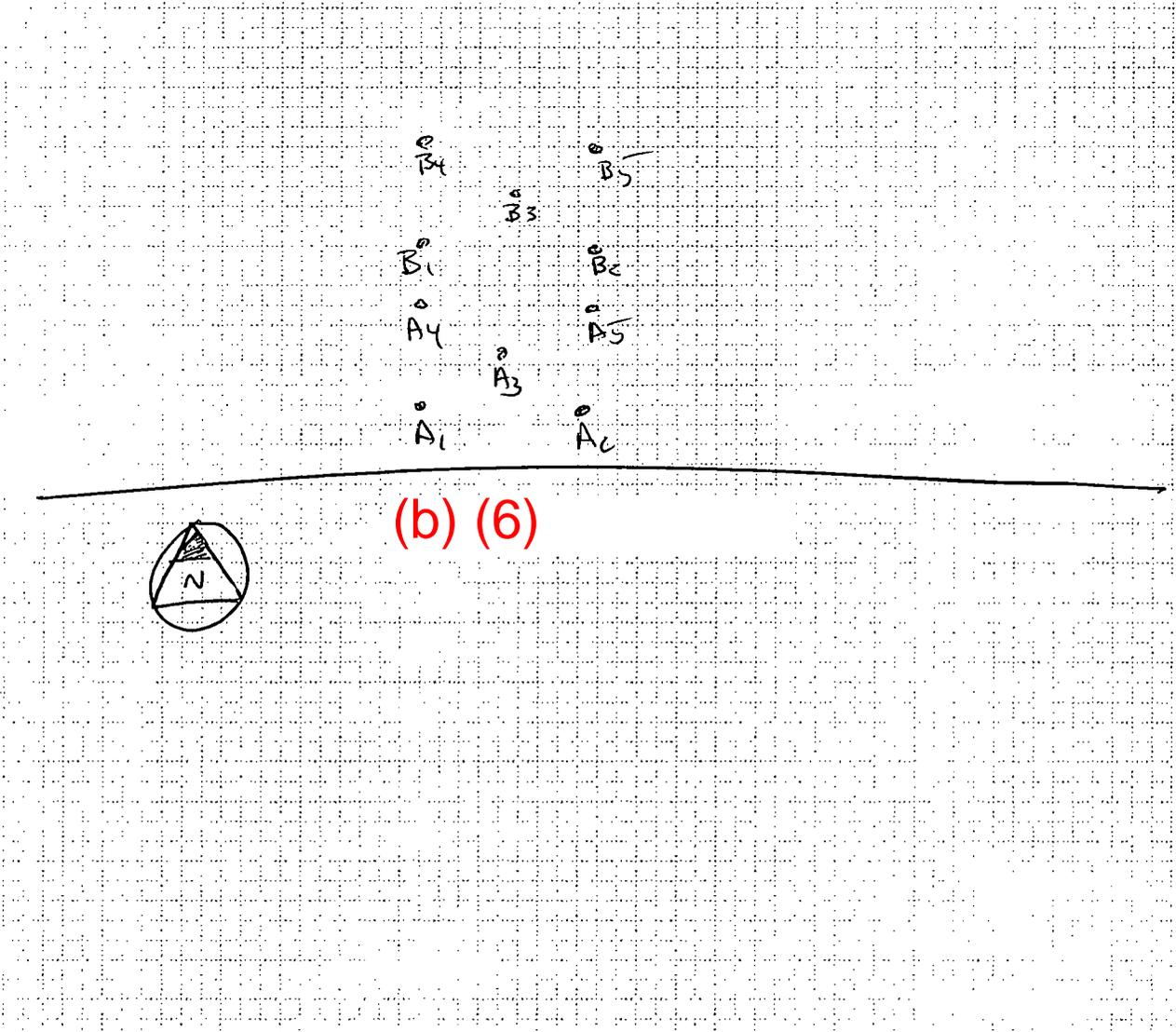
Other pertinent information (weather conditions, etc.):

63° sunny

PROPERTY COMMENTS:

empty City Parcel

Grid for property sketch



STATION ID: CV 1126 SAMPLE ID: CV 1126A-CS

SAMPLE COLLECTION TIME: 1335

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

empty 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 [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33.55133942</u> N Longitude <u>86.80385907</u> W
Media description: <u>medium silty clay</u>
Aliquot #2: Latitude: <u>33.55133860</u> N Longitude <u>86.80375606</u> W
Media description: <u>A1 same</u>
Aliquot #3: Latitude: <u>33.55139278</u> N Longitude <u>86.80381013</u> W
Media description: <u>orange sandy clay w/ gravel</u>
Aliquot #4: Latitude: <u>33.55142531</u> N Longitude <u>86.80383295</u> W
Media description: <u>SAME A3</u>
Aliquot #5: Latitude: <u>33.55142463</u> N Longitude <u>86.80385825</u> W
Media description: <u>Dark Brown clay w/ gravel & coal</u>

STATION ID: CV 1126 SAMPLE ID: CV 1126B-CS

SAMPLE COLLECTION TIME: 1345

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

empty 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 [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33.55146223</u> N Longitude <u>86.80384255</u> W
Media description: <u>medium Brown & sandy Brown clay w/ coal</u>
Aliquot #2: Latitude: <u>33.55146386</u> N Longitude <u>86.80375664</u> W
Media description: <u>Dark Brown sandy clay w/ gravel</u>
Aliquot #3: Latitude: <u>33.55151187</u> N Longitude <u>86.80378978</u> W
Media description: <u>SAME A1</u>
Aliquot #4: Latitude: <u>33.55156036</u> N Longitude <u>86.80384085</u> W
Media description: <u>Dark Brown clay silt</u>
Aliquot #5: Latitude: <u>33.55155212</u> N Longitude <u>86.80374051</u> W
Media description: <u>SAME B4</u>

ADDRESS: **(b) (6)** PROPERTY ID: CV-1141

DATE: 3/28/13 ARRIVAL TIME: 1430

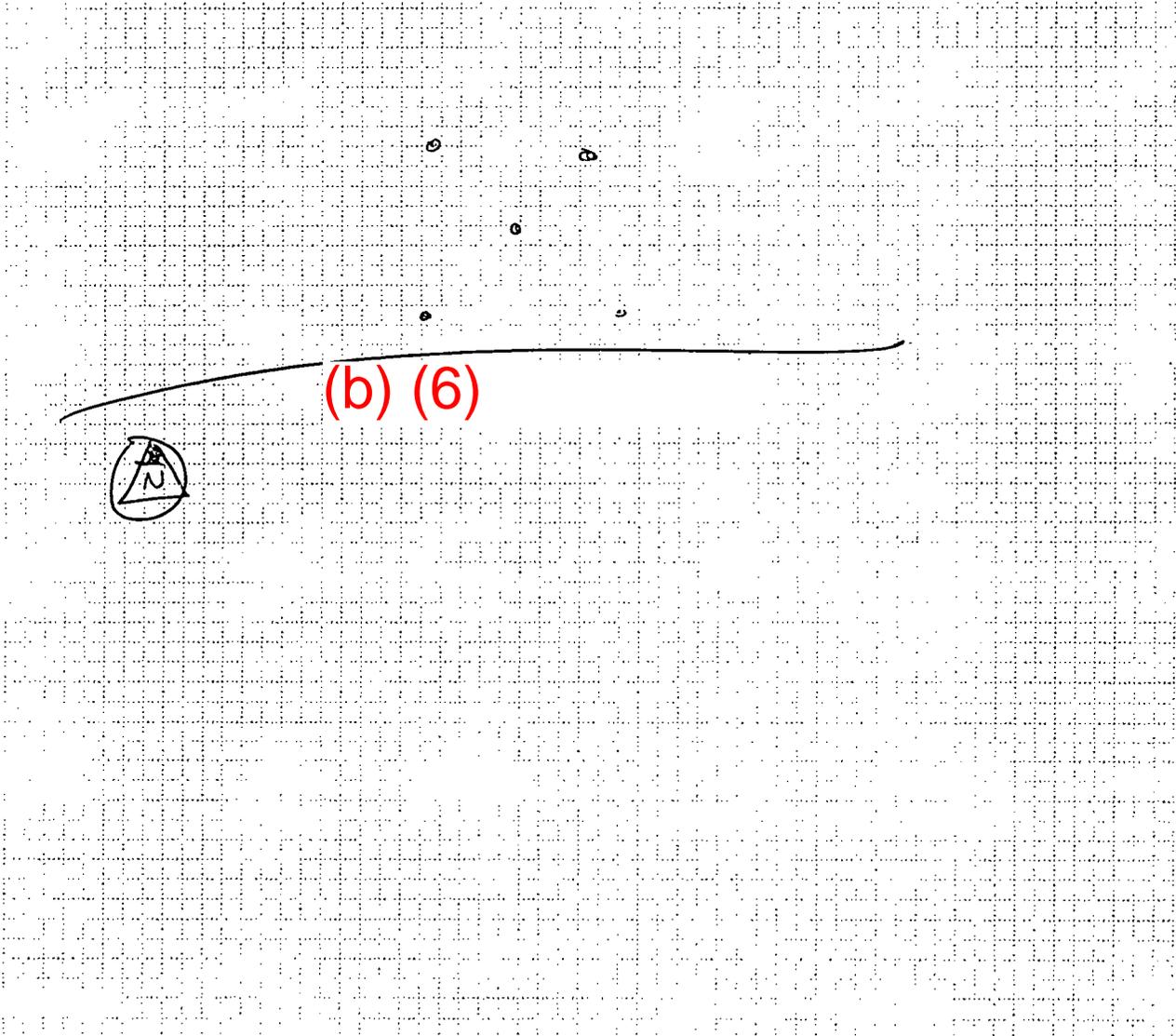
Other pertinent information (weather conditions, etc.):

65° sunny

PROPERTY COMMENTS:

empty City Parcel

Grid for property sketch



STATION ID: CV1141 SAMPLE ID: CV1141A-CS

SAMPLE COLLECTION TIME: 1445

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

empty 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: CV1141A-CS-D

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

Aliquot #1: Latitude: 33.55131300 N Longitude 86.80248072 W

Media description: Medium Brown to Reddish Brown silty sand w/coaly

Aliquot #2 Latitude: 33.55131610 N Longitude 86.80241591 W

Media description: SAME A1

Aliquot #3: Latitude: 33.55142554 N Longitude 86.80245184 W

Media description: SAME A1

Aliquot #4: Latitude: 33.55150495 N Longitude 86.80249154 W

Media description: SAME A1

Aliquot #5: Latitude: 33.55152033 N Longitude 86.80242923 W

Media description: SAME A1

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: 3/28/13 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 1136

DATE: 3/28/13

ARRIVAL TIME: 1430

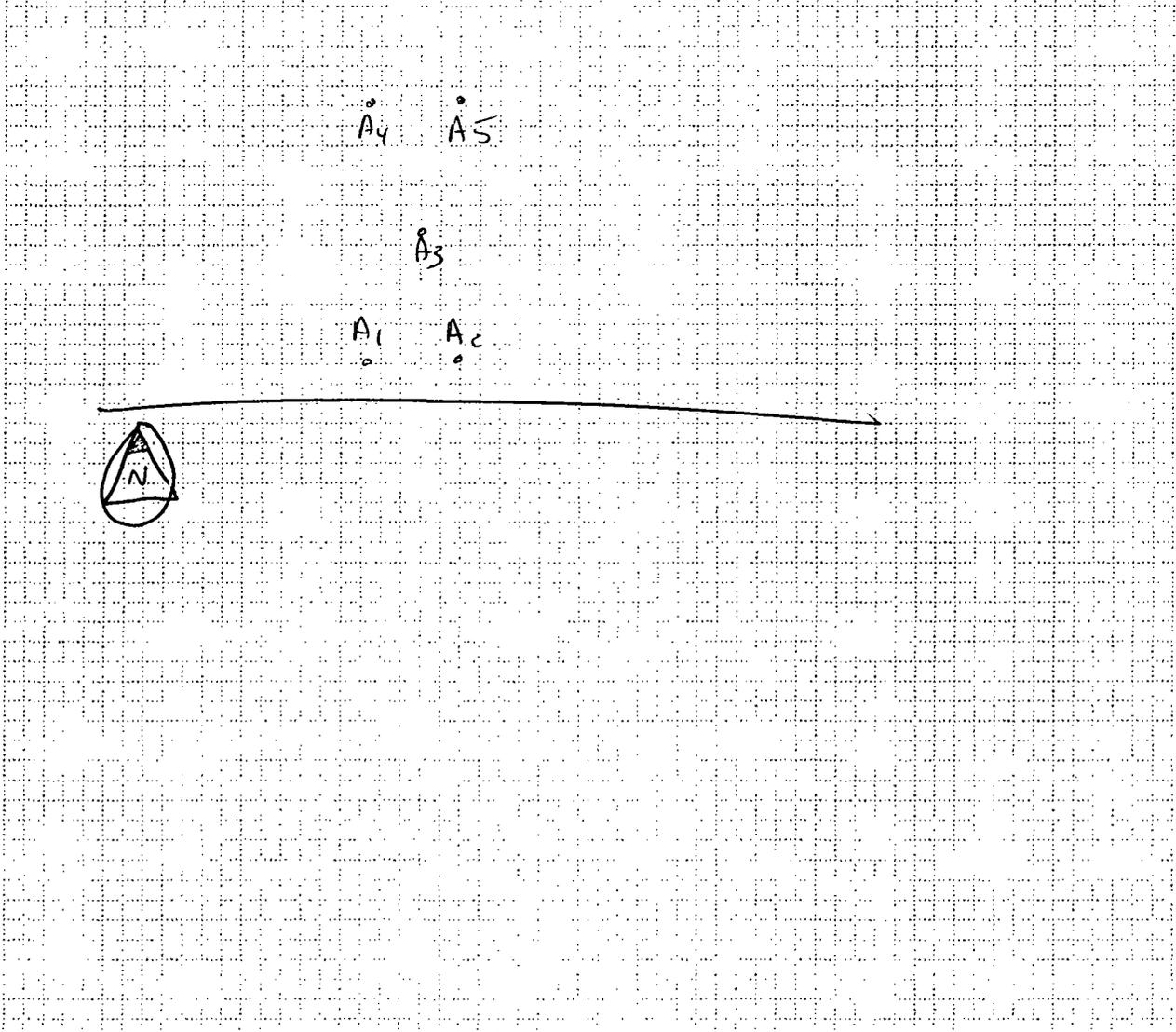
Other pertinent information (weather conditions, etc.):

65° sunny

PROPERTY COMMENTS:

Empty City Parcel

Grid for property sketch



STATION ID: CV 1136 SAMPLE ID: CV 1136A

SAMPLE COLLECTION TIME: 1455

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

Empty 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 [<input checked="" type="checkbox"/>] Instrument #: <u>020168</u> Logged? Y or N
Aliquot #1: Latitude: <u>33.55129639</u> N Longitude <u>86.80283149</u> W Media description: <u>medium Brown sandy silt w/ gravel</u>
Aliquot #2: Latitude: <u>33.55134288</u> N Longitude <u>86.80275801</u> W Media description: <u>SAME A1 + Damp</u>
Aliquot #3: Latitude: <u>33.55142507</u> N Longitude <u>86.80278835</u> W Media description: <u>Black sandy silt</u>
Aliquot #4: Latitude: <u>33.55149450</u> N Longitude <u>86.80281484</u> W Media description: <u>Dark Brown silty clay w/ coal</u>
Aliquot #5: Latitude: <u>33.55148547</u> N Longitude <u>86.80274937</u> W Media description: <u>SAME A4</u>

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: <u>3/28/13</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: _____

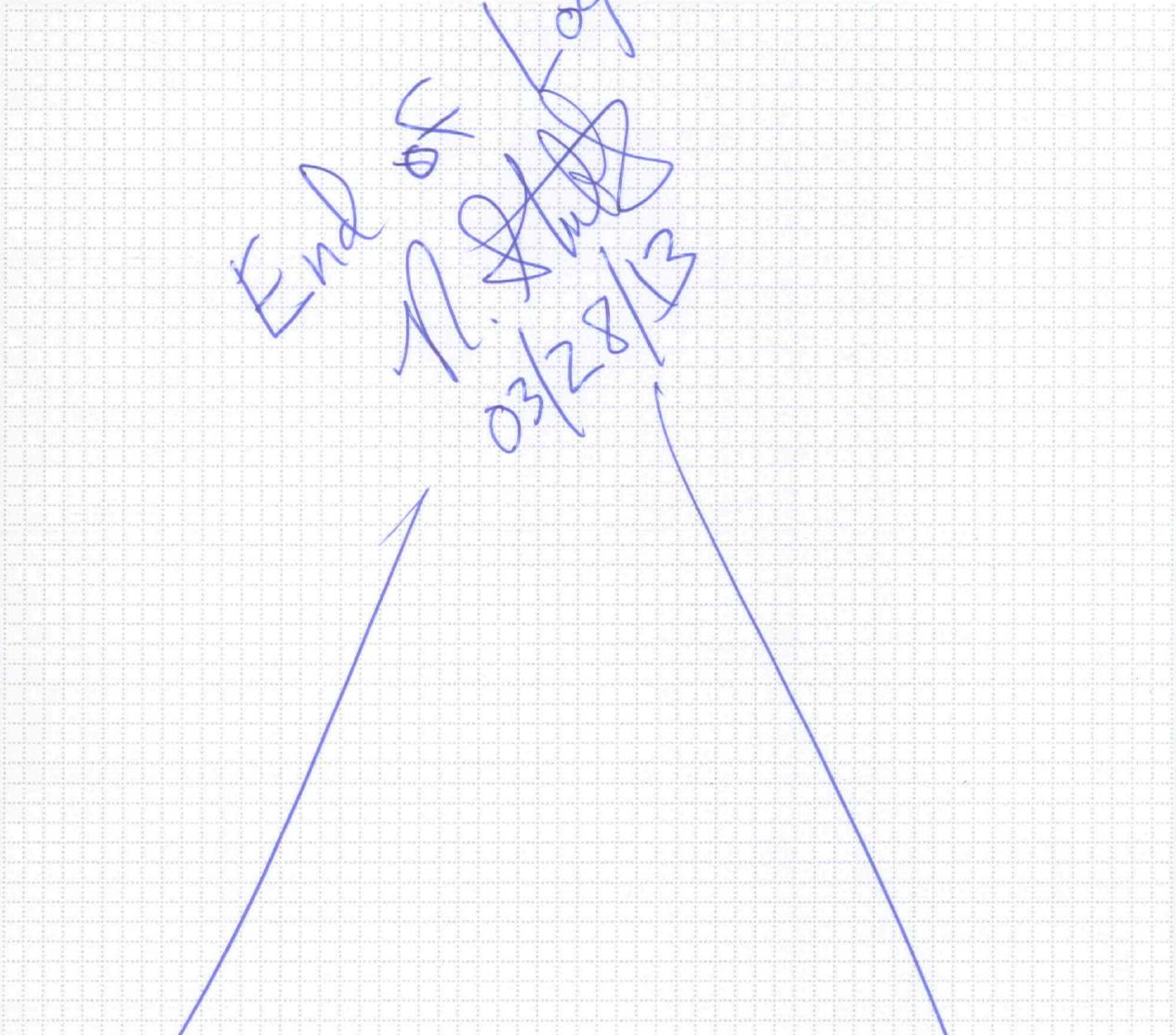
ADDRESS: _____ PROPERTY ID: _____

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.