LB00131

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** 1 **of** 1

**Inclusive Dates:** 9/21/15 - 9/24-15

**List of Sampling Team in logbook:**

| Name | Initials | Organization/Duties |
|---|---|---|
| Terry Parker | TP | OTIE ,Team Leader |
| Cal Williams | CW | Cardno ATC |
| Adam Sickels | AS | Adam Sickels |
| | | |
| | | |
| | | |

# 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.

ALD 0000 828848

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.

FM 0344

**ADDRESS:** 4032 FAIRMONT PL N **PROPERTY ID:** ~~HD0344~~ JB 9/21/15

**DATE:** 9/21/15 **ARRIVAL TIME:** 1430

**Other pertinent information (weather conditions, etc.):**

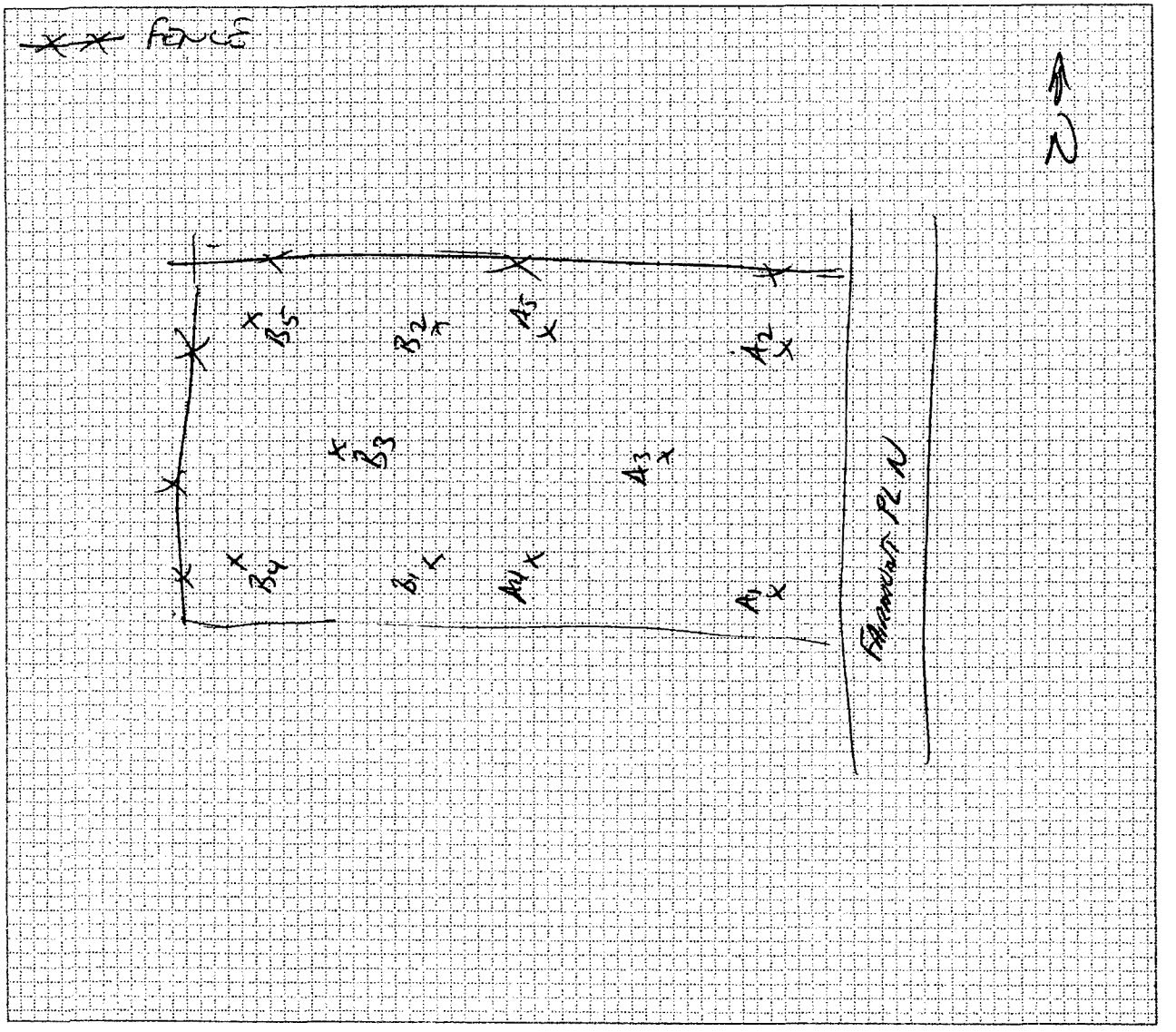
PARTLY CLOUDY 72°F

**PROPERTY COMMENTS:**

VACANT LOT

PROPERTY APPROX 3-5 FT ABOVE ROAD GRADE

Grid for property sketch



STATION ID: FM 0344A SAMPLE ID: FM0344A-CSD-4

SAMPLE COLLECTION TIME: 1450

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

VACANT 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 #: D27850 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.56424357 N *Longitude* 86.81391457 W

Media description: GRASS BWN SANDY SILT W/GRAVEL, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.56428539 N *Longitude* 86.81390796 W

Media description: SAA

Aliquot #3: *Latitude:* 33.56427920 N *Longitude* 86.81400614 W

Media description: SAA

Aliquot #4: *Latitude:* 33.56426071 N *Longitude* 86.81407628 W

Media description: SAA

Aliquot #5: *Latitude:* 33.56432148 N *Longitude* 86.81406458 W

Media description: SAA

SAA - SAME AS ABOVE

STATION ID: FM 0344B SAMPLE ID: FM0344B-CSD-4

SAMPLE COLLECTION TIME: 1505

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

VACANT LOT

Collection: (Composite) or Grab MS/MSD? Y or (N) @1510

(Field Duplicate or Split:) (Yes) *or No If yes, indicate* Duplicate/split sample station ID: FM0344B-CSD-0-4

GPS Coordinates: Trimble [X] Instrument #: D27850 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.56425492 N *Longitude* 86.81412214 W

Media description: GRASS, BWN SANDY SILT W/GRAVEL, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.56432010 N *Longitude* 86.81410878 W

Media description: SAA

Aliquot #3: *Latitude:* 33.56428661 N *Longitude* 86.81419160 W

Media description: SAA

Aliquot #4: *Latitude:* 33.56425933 N *Longitude* 86.81429730 W

Media description: SAA

Aliquot #5: *Latitude:* 33.56433234 N *Longitude* 86.81431206 W

Media description: SAA

SAA - SAME AS ABOVE

ADDRESS: 3700 44TH AVE N PROPERTY ID: HP0251

DATE: 9/22/15 ARRIVAL TIME: 0855

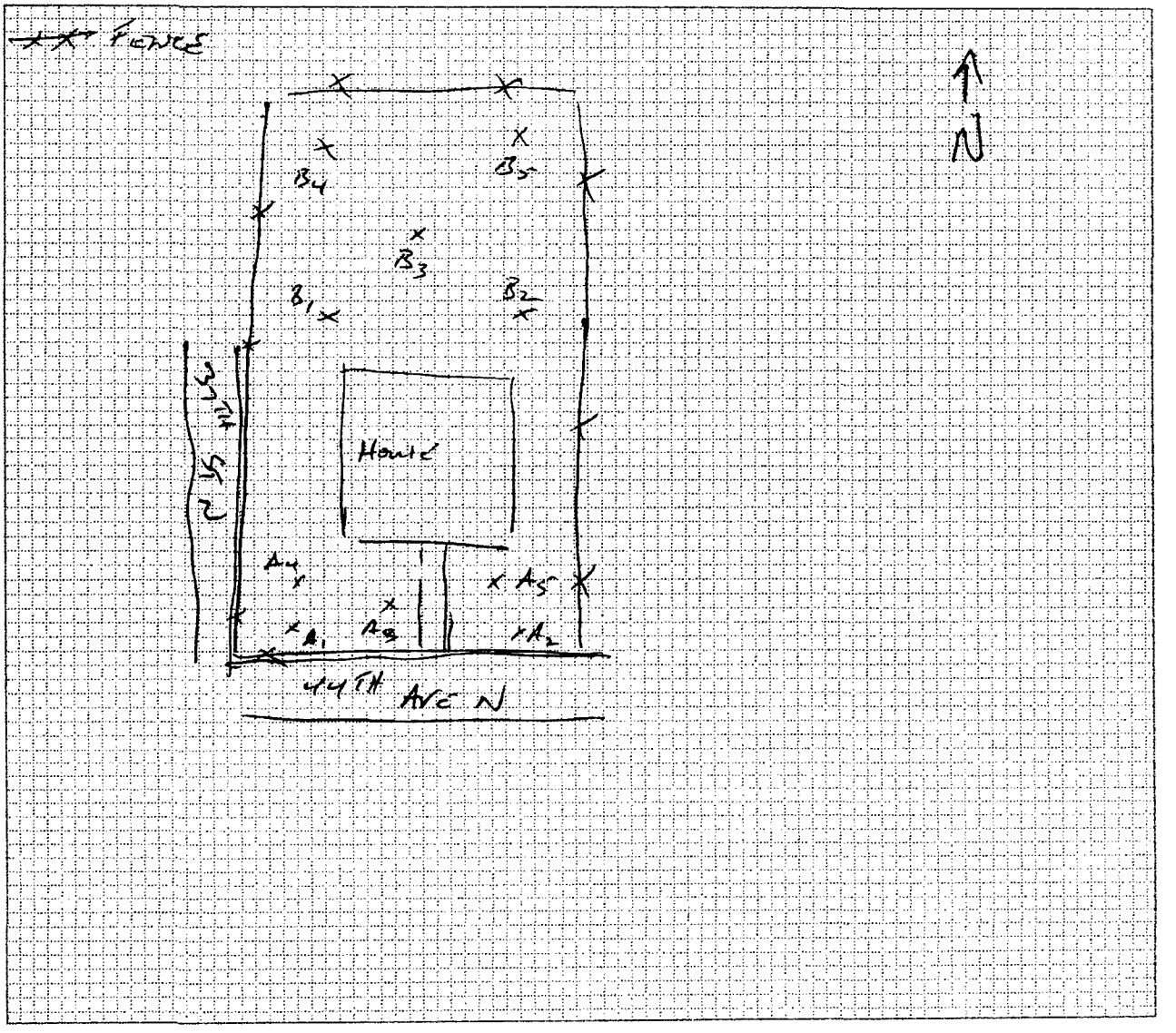
Other pertinent information (weather conditions, etc.):

SUNNY 70°F

PROPERTY COMMENTS:

RESIDENTIAL

Grid for property sketch



**STATION ID:** HB0251A **SAMPLE ID:** HB0251A-CS0-4

**SAMPLE COLLECTION TIME:** 0910

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

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

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

**GPS Coordinates:** Trimble [X] Instrument #: 027850 Logged? Y or N

Aliquot #1: *Latitude:* 33.56668219 N *Longitude* 86.79068090 W

Media description: GRASS, BRWN SANDY SILT W/TRACE COAL FRAGS + GRAVEL, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.5666 8739 N *Longitude* 86.79059736 W

Media description: SAA

Aliquot #3: *Latitude:* 33.56670601 N *Longitude* 86.79066413 W

Media description: SAA

Aliquot #4: *Latitude:* 33.56671986 N *Longitude* 86.79069058 W

Media description: SAA

Aliquot #5: *Latitude:* 33.56672512 N *Longitude* 86.79061481 W

Media description: SAA

SAA - SAME AS ABOVE

**STATION ID:** HB0251B **SAMPLE ID:** HB0251B-CS0-4

**SAMPLE COLLECTION TIME:** 0920

**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 [X] Instrument #: 027850 Logged? Y or N

Aliquot #1: *Latitude:* 33.56668022 N *Longitude* 86.79069015 W

Media description: GRASS, BRWN SANDY SILT W/TRACE COAL FRAGS + GRAVEL, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.56687241 N *Longitude* 86.79060969 W

Media description: SAA

Aliquot #3: *Latitude:* 33.56692419 N *Longitude* 86.79063752 W

Media description: SAA

Aliquot #4: *Latitude:* 33.56698569 N *Longitude* 86.79067292 W

Media description: SAA

Aliquot #5: *Latitude:* 33.56699551 N *Longitude* 86.79059640 W

Media description: SAA

SAA - SAME AS ABOVE

ADDRESS: 3737 45TH AVE N PROPERTY ID: HP0287

DATE: 9/22/15 ARRIVAL TIME: 0930

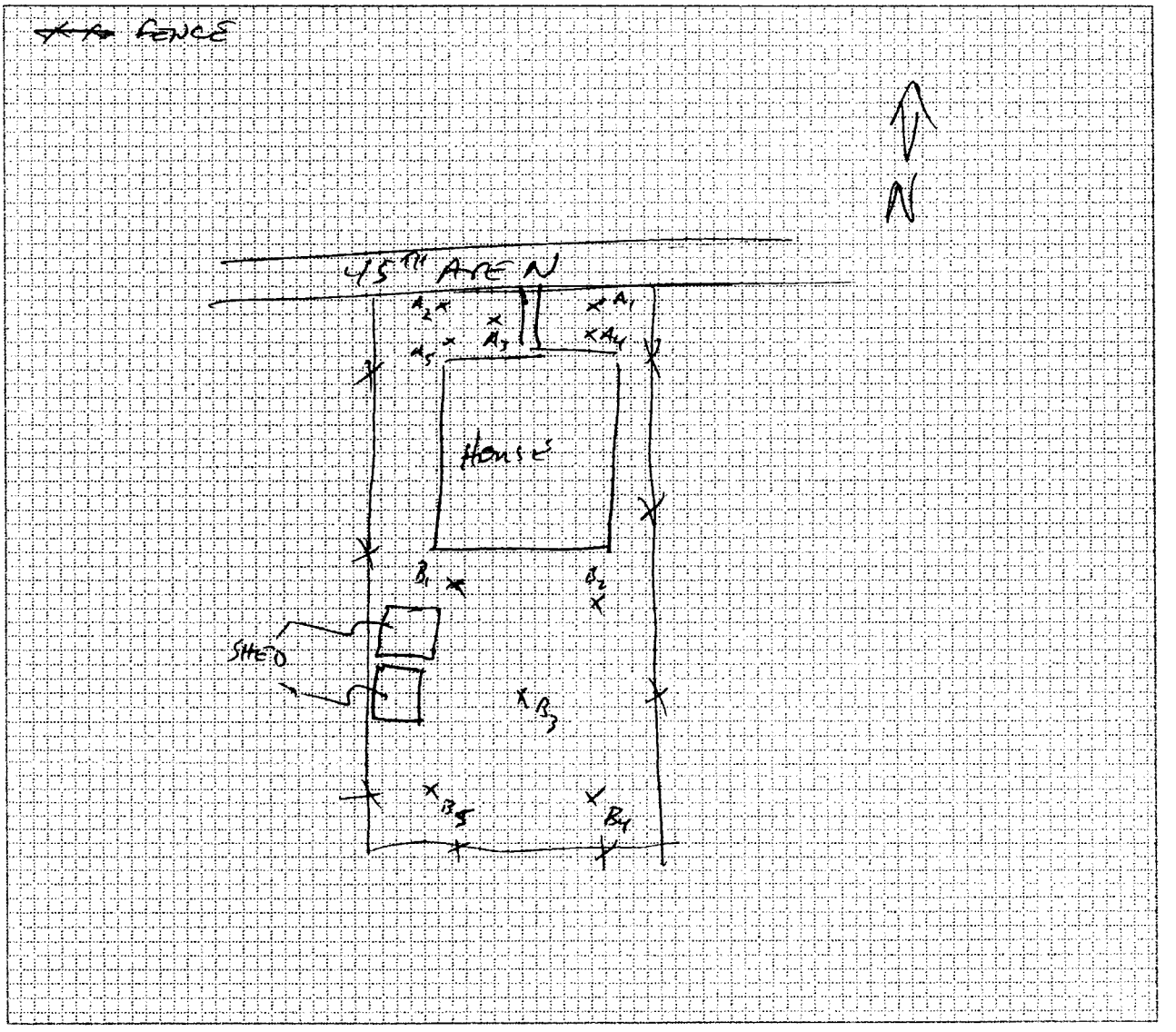
**Other pertinent information (weather conditions, etc.):**

Sunny 70°F

**PROPERTY COMMENTS:**

RESIDENTIAL

Grid for property sketch



STATION ID: HP0287A SAMPLE ID: HP0287A-CS0-4

SAMPLE COLLECTION TIME: 0945

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 [X] Instrument #: 028750 Logged? Y or N

Aliquot #1: *Latitude:* 33.56741394 N *Longitude* 86.78944423 W

Media description: GRASS, BWN SANDY SILT W/GRAVEL, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.56741519 N *Longitude* 86.78952224 W

Media description: SAA

Aliquot #3: *Latitude:* 33.56740127 N *Longitude* 86.78948833 W

Media description: SAA

Aliquot #4: *Latitude:* 33.56735607 N *Longitude* 86.78943258 W

Media description: SAA

Aliquot #5: *Latitude:* 33.56738732 N *Longitude* 86.78953813 W

Media description: SAA

SAA - SAME AS ABOVE

STATION ID: HP0287B SAMPLE ID: HP0287-CS0-4

SAMPLE COLLECTION TIME: 0955

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 [X] Instrument #: 028750 Logged? Y or N

Aliquot #1: *Latitude:* 33.56720620 N *Longitude* 86.78945797 W

Media description: GRASS, BWN SANDY SILT W/GRAVEL, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.56719718 N *Longitude* 86.78953482 W

Media description: SAA

Aliquot #3: *Latitude:* 33.56715981 N *Longitude* 86.78948924 W

Media description: SAA

Aliquot #4: *Latitude:* 33.56708139 N *Longitude* 86.78947366 W

Media description: SAA

Aliquot #5: *Latitude:* 33.56705850 N *Longitude* 86.78952850 W

Media description: SAA

SAA - SAME AS ABOVE

**ADDRESS:** 3368 34TH AVE N **PROPERTY ID:** CV0565

**DATE:** 9/22/15 **ARRIVAL TIME:** 1330

**Other pertinent information (weather conditions, etc.):**

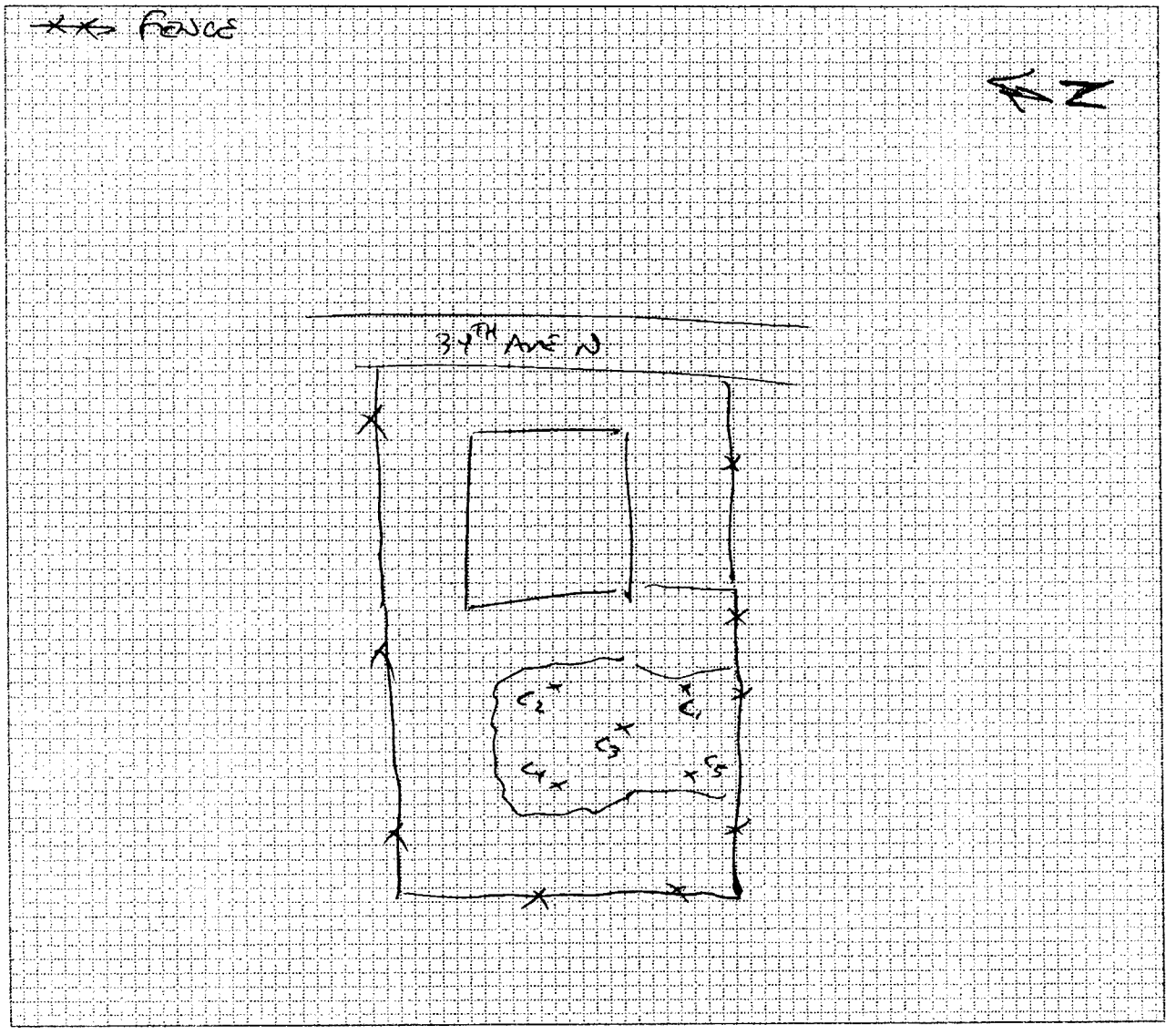
SUNNY 82°F

**PROPERTY COMMENTS:**

RESIDENTIAL

COLLECT SAMPLE AROUND FORMER TREE; EPA INDICATES CALL SAMPLE 'C'

Grid for property sketch



STATION ID: CV0565C SAMPLE ID: CV0565C-CS0-4

SAMPLE COLLECTION TIME: 1345

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

AREA OF FORMER TREE

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 #: 028750 Logged? Y or N

Aliquot #1: *Latitude:* 33.55772495 N *Longitude* 86.79880108 W

Media description: BROWN SANDY SILT W/GRAVEL, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.55777369 N *Longitude* 86.79879078 W

Media description: SAA

Aliquot #3: *Latitude:* 33.55773969 N *Longitude* 86.79883127 W

Media description: SAA

Aliquot #4: *Latitude:* 33.55775676 N *Longitude* 86.79885682 W

Media description: SAA

Aliquot #5: *Latitude:* 33.55771760 N *Longitude* 86.79887462 W

Media description: SAA

SAA - SAME AS ABOVE

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:

9/22/15

ADDRESS: 3546 33RD TERRACE N PROPERTY ID: CV0895

DATE: 9/22/15 ARRIVAL TIME: 1500

Other pertinent information (weather conditions, etc.):

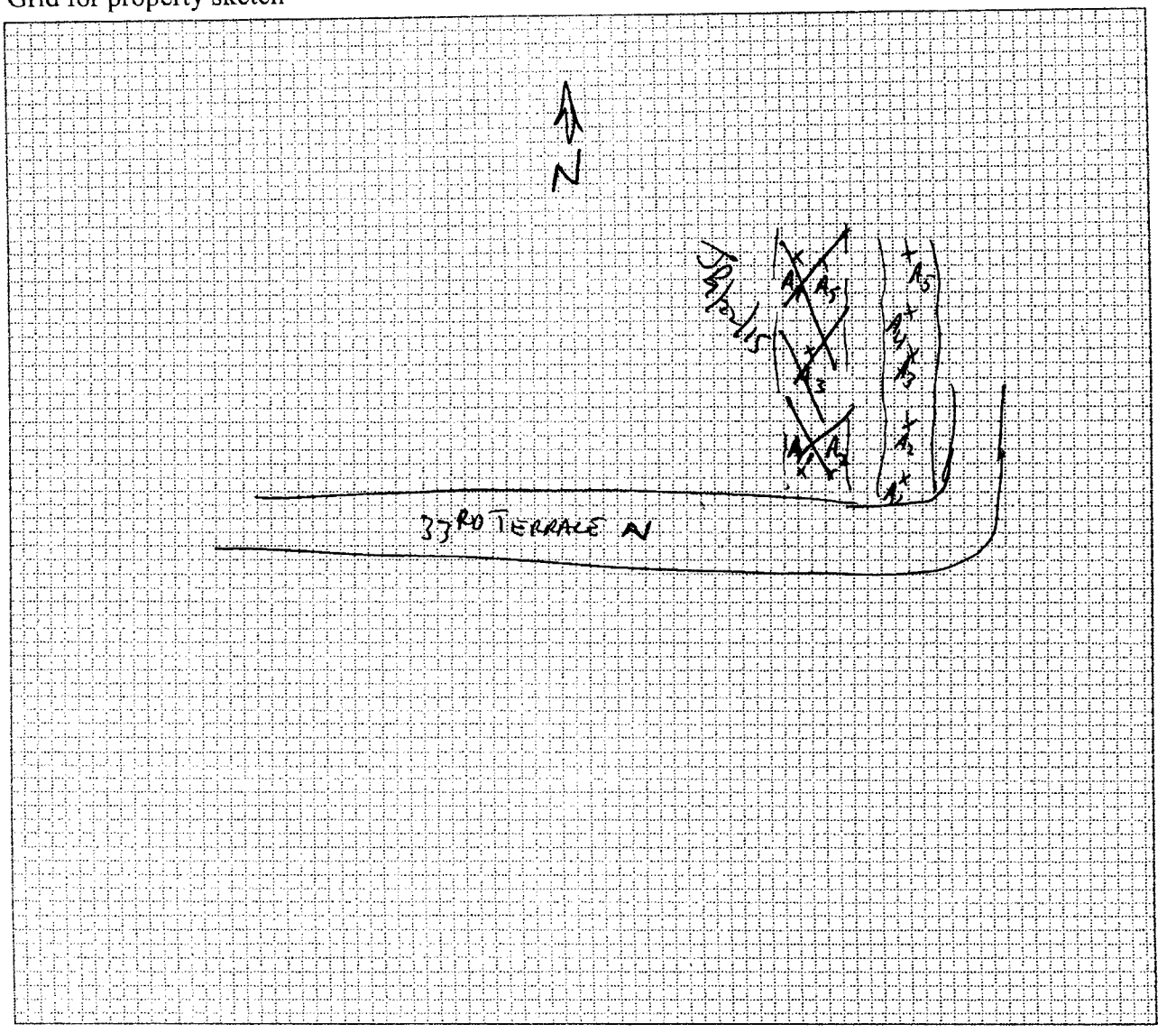
SUNNY 84°F

PROPERTY COMMENTS:

VACANT LOT

SINGLE SAMPLE

Grid for property sketch



**STATION ID:** CV089SA **SAMPLE ID:** CV089SA-CS 0-4

**SAMPLE COLLECTION TIME:** 1520

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

VACANT 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 #: 028750 Logged? Y or N

Aliquot #1: *Latitude:* 33.55686350 N *Longitude* 86.79419687 W

Media description: GRASS, BWN SANDY SILT W/GRAVEL, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.55691752 N *Longitude* 86.79417954 W

Media description: SAA

Aliquot #3: *Latitude:* 33.55696205 N *Longitude* 86.79417053 W

Media description: SAA

Aliquot #4: *Latitude:* 33.55700001 N *Longitude* 86.79416672 W

Media description: SAA

Aliquot #5: *Latitude:* 33.55705309 N *Longitude* 86.79416464 W

Media description: SAA

SAA - SAME AS ABOVE

**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: 3501 34TH CT N PROPERTY ID: CV0942

DATE: 9/23/15 ARRIVAL TIME: 0820

Other pertinent information (weather conditions, etc.):

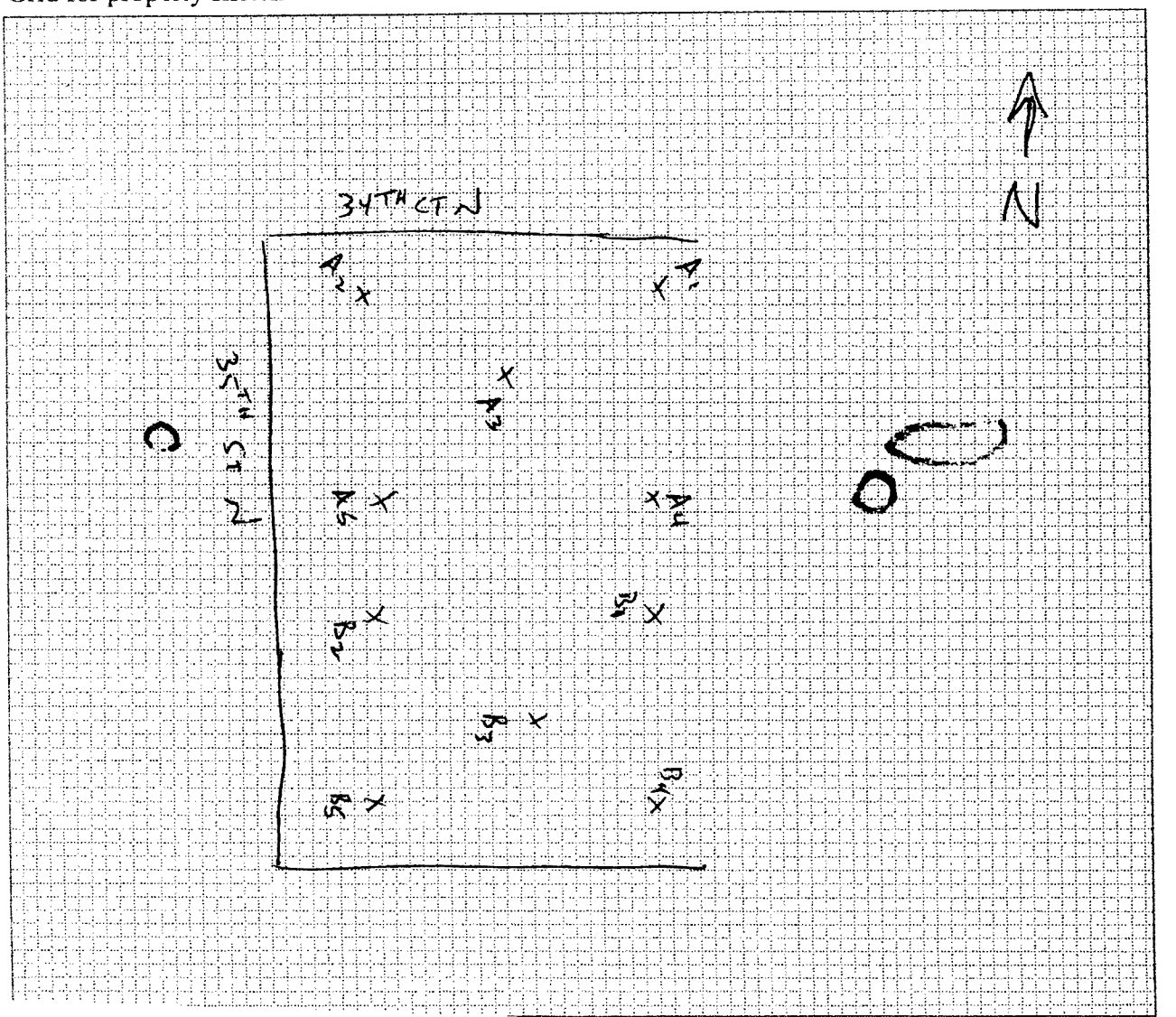
Sunny 69°F

PROPERTY COMMENTS:

VACANT LOT

~~Sto~~ JP 9/23/15

Grid for property sketch



**STATION ID:** CV0942A **SAMPLE ID:** CV0942A-CS0-4

**SAMPLE COLLECTION TIME:** 0840

**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 [X] Instrument #: 028750 Logged? Y or N

Aliquot #1: *Latitude:* 33.55821551 N *Longitude* 86.79586958 W

Media description: GRASS, DK BWN SANDY SILT W/GRAVEL, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.55820665 N *Longitude* 86.79603206 W

Media description: SAA

Aliquot #3: *Latitude:* 33.55813990 N *Longitude* 86.79597219 W

Media description: SAA

Aliquot #4: *Latitude:* 33.55809552 N *Longitude* 86.79588737 W

Media description: SAA

Aliquot #5: *Latitude:* 33.55809661 N *Longitude* 86.79605244 W

Media description: SAA

SAA - SAME AS ABOVE

**STATION ID:** CV0942B **SAMPLE ID:** CV0942B-CS0-4

**SAMPLE COLLECTION TIME:** 0850

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

**Collection:** Composite or Grab **MS/MSD?** Y or N @ 0855

**Field Duplicate or Split:** Yes *or No* *If yes, indicate* **Duplicate/split sample station ID:** CV0942B-CS0 0-4

**GPS Coordinates:** Trimble [X] Instrument #: 028750 Logged? Y or N

Aliquot #1: *Latitude:* 33.55805157 N *Longitude* 86.79590310 W

Media description: GRASS, DK BWN SANDY SILT W/GRAVEL, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.55805858 N *Longitude* 86.79604733 W

Media description: SAA

Aliquot #3: *Latitude:* 33.55800747 N *Longitude* 86.79596944 W

Media description: SAA

Aliquot #4: *Latitude:* 33.55796740 N *Longitude* 86.79590910 W

Media description: SAA

Aliquot #5: *Latitude:* 33.55797328 N *Longitude* 86.79602880 W

Media description: SAA

SAA - SAME AS ABOVE

ADDRESS: 3212 31ST PL N PROPERTY ID: CV0081

DATE: 9/23/15 ARRIVAL TIME: 1025

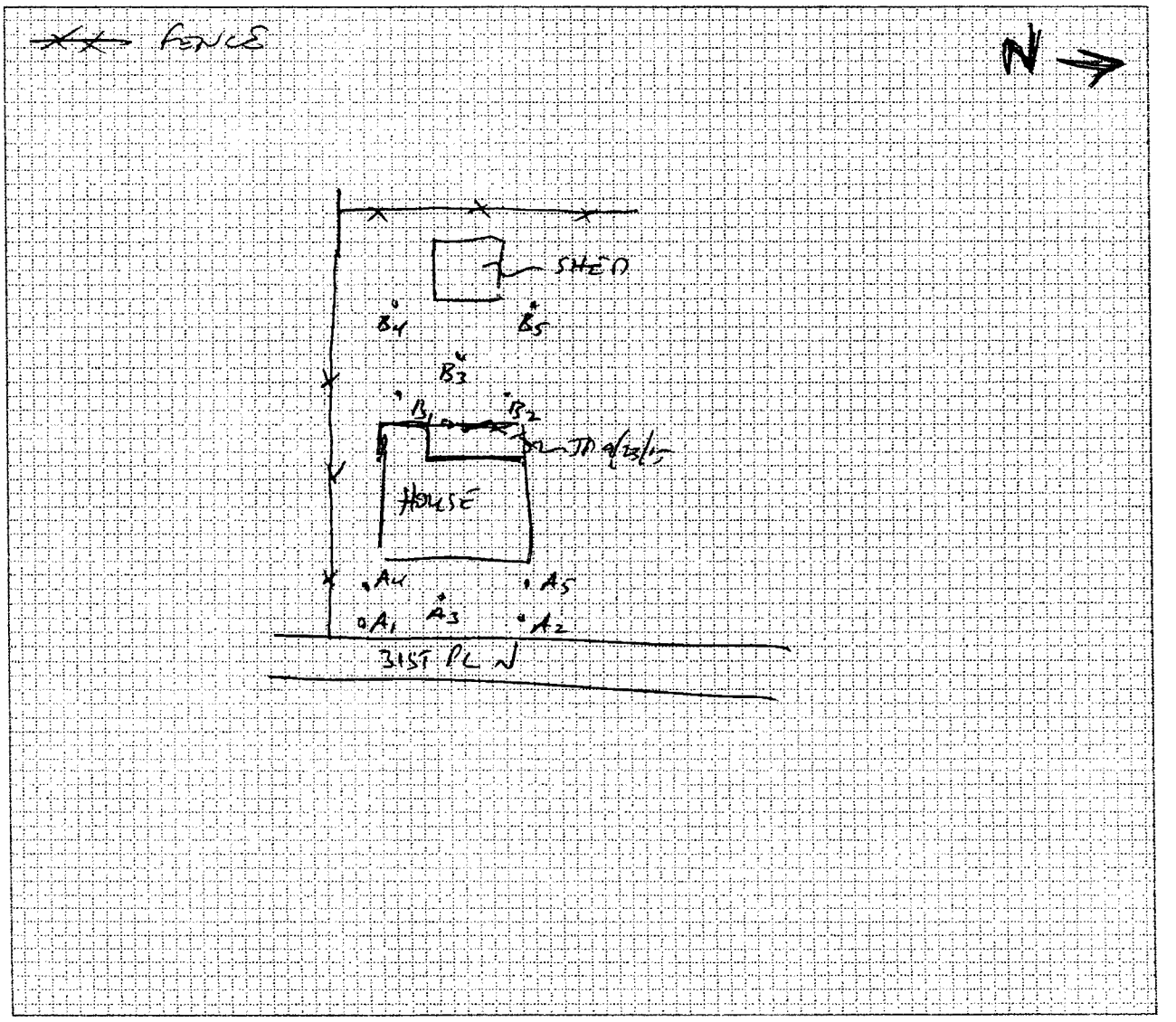
Other pertinent information (weather conditions, etc.):

SUNNY 77°F

PROPERTY COMMENTS:

RESIDENTIAL HOUSE

Grid for property sketch



STATION ID: CV0081A SAMPLE ID: CV0081A-CS-0-4

SAMPLE COLLECTION TIME: 1040

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 [X] Instrument #: 028750 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.55495640 N *Longitude* 86.80378072 W

Media description: GRASS, BRN SANDY SILT W/GRAVEL + COAL FRAGS, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.55504694 N *Longitude* 86.80378703 W

Media description: SAA

Aliquot #3: *Latitude:* 33.55498750 N *Longitude* 86.80381771 W

Media description: SAA

Aliquot #4: *Latitude:* 33.55495354 N *Longitude* 86.80383116 W

Media description: SAA

Aliquot #5: *Latitude:* 33.55504679 N *Longitude* 86.80383142 W

Media description: SAA

SAA - SAME AS ABOVE

STATION ID: CV0081B SAMPLE ID: CV0081B-CS0-4

SAMPLE COLLECTION TIME: 1050

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

Aliquot #1: *Latitude:* 33.55495606 N *Longitude* 86.80402215 W

Media description: GRASS, BRN SANDY SILT W/GRAVEL + COAL FRAGS, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.55504545 N *Longitude* 86.80396813 W

Media description: SAA

Aliquot #3: *Latitude:* 33.55501411 N *Longitude* 86.80405744 W

Media description: SAA

Aliquot #4: *Latitude:* 33.55495661 N *Longitude* 86.80413380 W

Media description: SAA

Aliquot #5: *Latitude:* 33.55504399 N *Longitude* 86.80408548 W

Media description: SAA

SAA - SAME AS ABOVE

ADDRESS: 3003 33RD ST N PROPERTY ID: CV0874

DATE: 9/23/15 ARRIVAL TIME: 1230

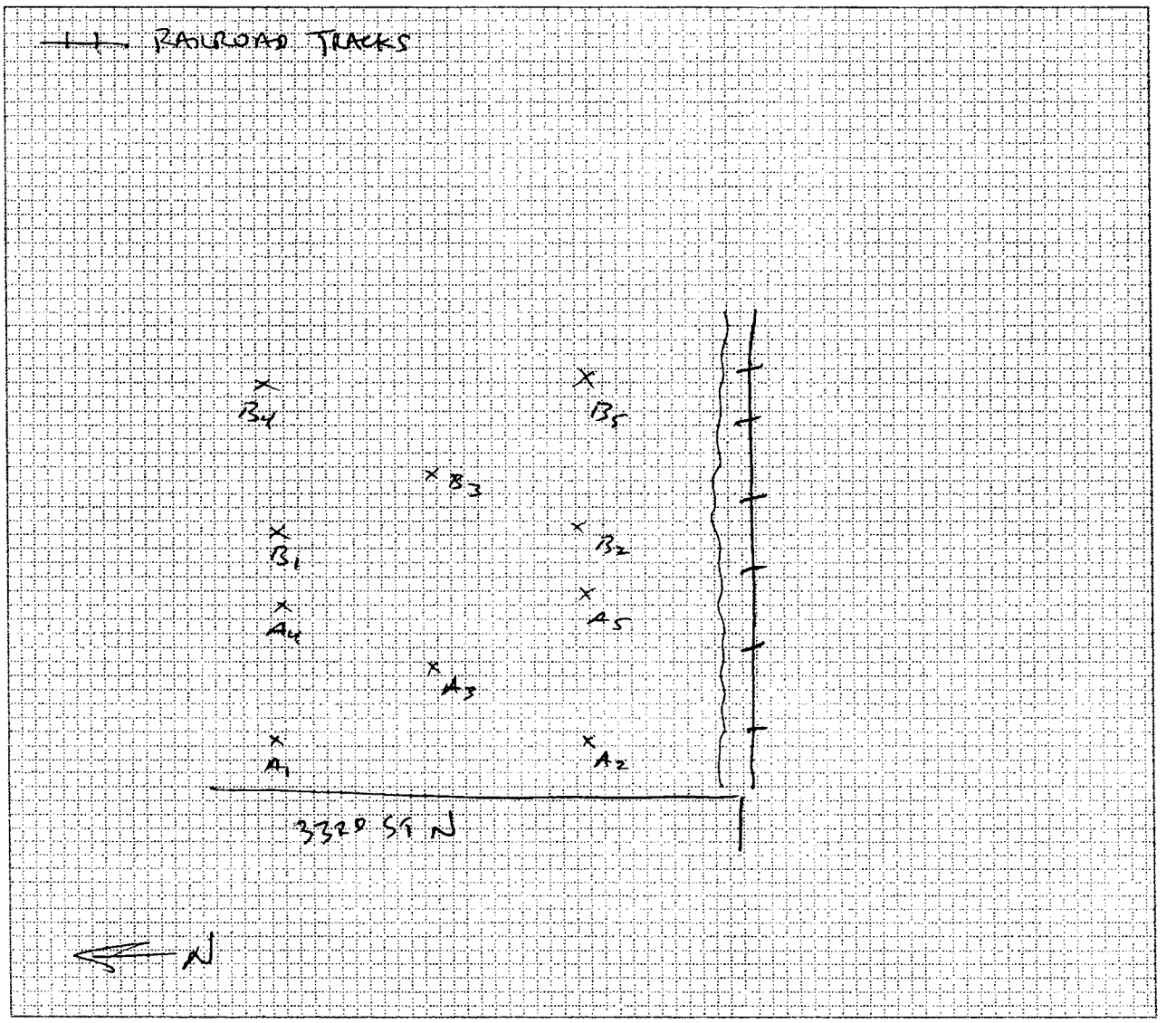
**Other pertinent information (weather conditions, etc.):**

SUNNY 82°F

**PROPERTY COMMENTS:**

VACANT LOT : CONCRETE + GRAVEL

Grid for property sketch



**STATION ID:** CV0874A **SAMPLE ID:** CV0874A-CS-0-4

**SAMPLE COLLECTION TIME:** 1255

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

VACANT 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 #: 028750 Logged? Y or N

Aliquot #1: *Latitude:* 33.55314051 N *Longitude* 86.80050922 W

Media description: BWN SANDY SILT W/ GRAVEL, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.55300132 N *Longitude* 86.80051432 W

Media description: SAA

Aliquot #3: *Latitude:* 33.55309191 N *Longitude* 86.80046946 W

Media description: SAA

Aliquot #4: *Latitude:* 33.55312452 N *Longitude* 86.80042672 W

Media description: SAA

Aliquot #5: *Latitude:* 33.55299743 N *Longitude* 86.80044936 W

Media description: BWN SANDY SILT W/ GRAVEL + COAL FRAGS, DRY, NO ODOR

**STATION ID:** CV0874B **SAMPLE ID:** CV0874B-CS0-4

**SAMPLE COLLECTION TIME:** 1305

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

VACANT 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 #: 028750 Logged? Y or N

Aliquot #1: *Latitude:* 33.55312325 N *Longitude* 86.80032713 W

Media description: BWN SANDY SILT W/ GRAVEL, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.55300067 N *Longitude* 86.80040261 W

Media description: SAA

Aliquot #3: *Latitude:* 33.55306202 N *Longitude* 86.80033705 W

Media description: SAA

Aliquot #4: *Latitude:* 33.55311665 N *Longitude* 86.80027009 W

Media description: BWN SANDY SILT W/ GRAVEL + COAL FRAGS, DRY, NO ODOR

Aliquot #5: *Latitude:* 33.55301889 N *Longitude* 86.80029502 W

Media description: BWN SANDY SILT W/ GRAVEL, DRY, NO ODOR

**ADDRESS:** 3003 33RD PL N **PROPERTY ID:** CV0849

**DATE:** 9/23/15 **ARRIVAL TIME:** 1315

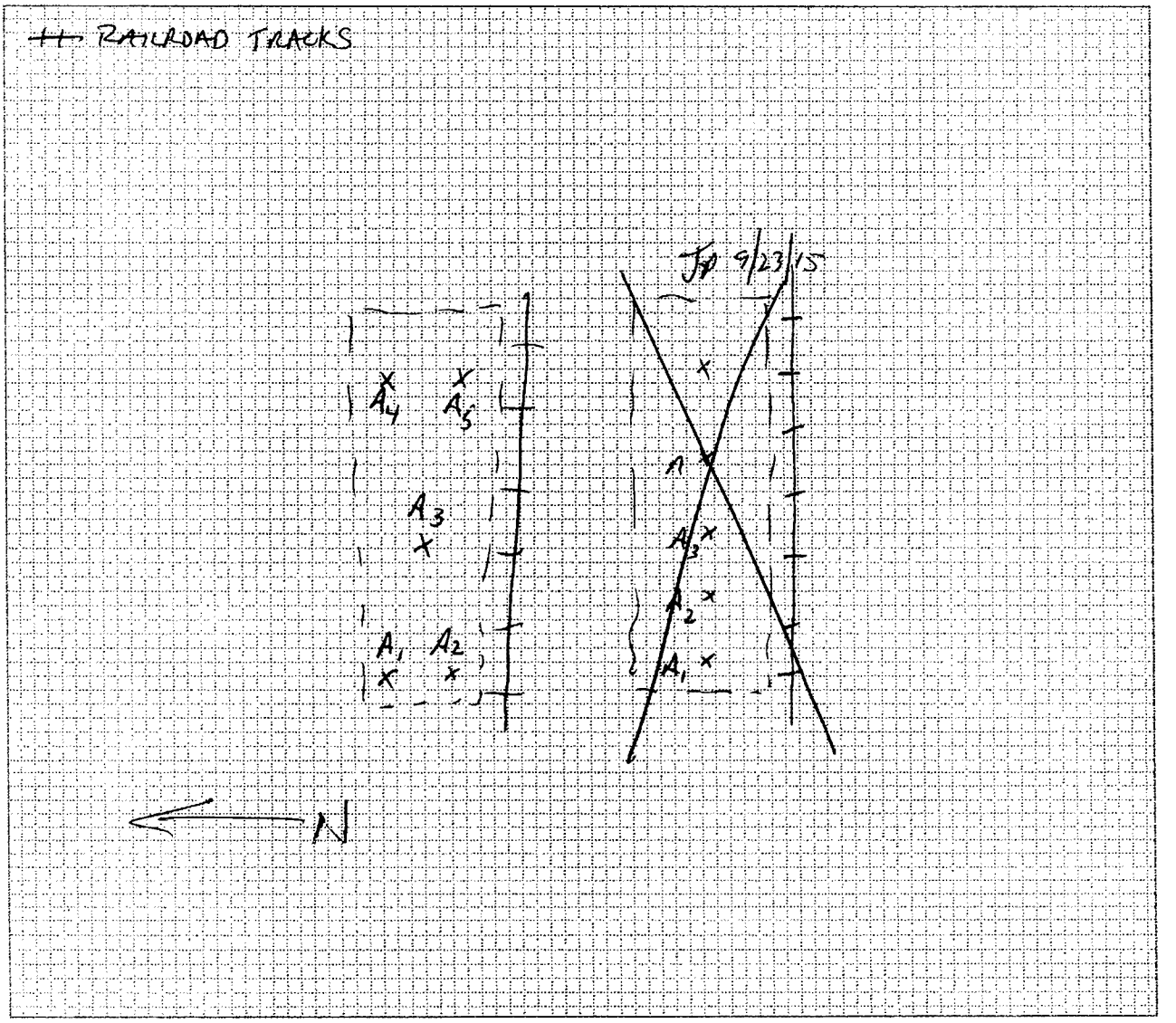
**Other pertinent information (weather conditions, etc.):**

Sunny 82°F

**PROPERTY COMMENTS:**

VACANT LOT

Grid for property sketch



STATION ID: CV0849A SAMPLE ID: CV0849A-CS 0-4

SAMPLE COLLECTION TIME: 1315

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

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

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

**GPS Coordinates:** Trimble [X] Instrument #: 028750 Logged? (Y) or N

Aliquot #1: *Latitude:* 33.55291536 N *Longitude* 86.80014786 W

Media description: GRASS, BWN SANDY SILT W/GRAVEL, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.55286423 N *Longitude* 86.80014645 W

Media description: SAA

Aliquot #3: *Latitude:* 33.55289656 N *Longitude* 86.80003529 W

Media description: SAA

Aliquot #4: *Latitude:* 33.55290604 N *Longitude* 86.79994983 W

Media description: SAA

Aliquot #5: *Latitude:* 33.55287533 N *Longitude* 86.79995512 W

Media description: SAA

SAA - SAME AS ABOVE

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:

JP 2/23/15

ADDRESS: 3001 33RD PL N PROPERTY ID: CV0850

DATE: 9/23/15 ARRIVAL TIME: 1400

**Other pertinent information (weather conditions, etc.):**

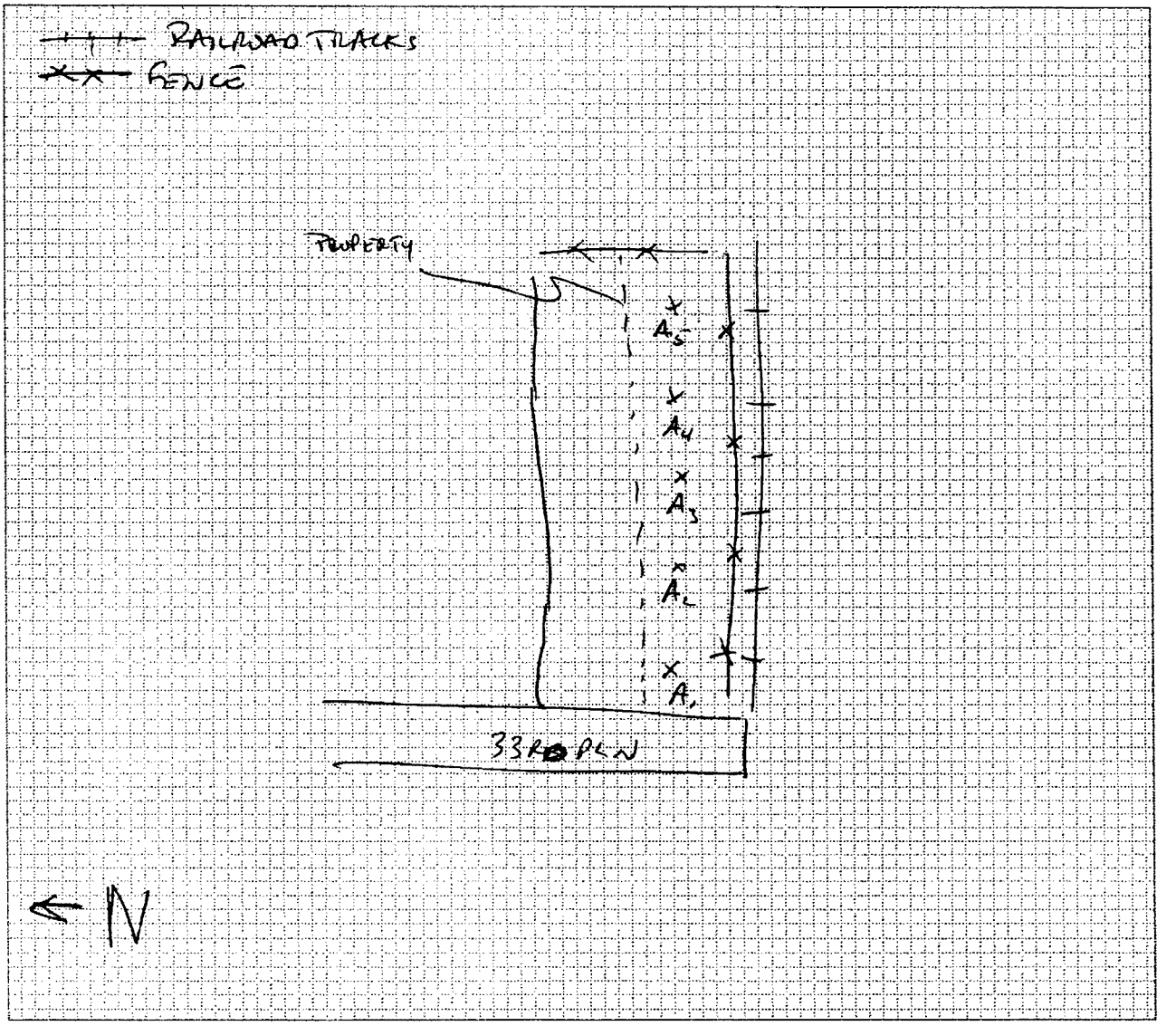
SUNNY 84°F

**PROPERTY COMMENTS:**

VACANT LOT

SINGLE SAMPLE

Grid for property sketch



**STATION ID:** CV0850A **SAMPLE ID:** CV0850A-CS0-4

**SAMPLE COLLECTION TIME:** 1415

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

VACANT 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 #: 028750 Logged? Y or N

Aliquot #1: *Latitude:* 33.55288010 N *Longitude* 86.79980473 W

Media description: GRASS, BWN SANDY SILT, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.55287572 N *Longitude* 86.79973509 W

Media description: SAA

Aliquot #3: *Latitude:* 33.55287015 N *Longitude* 86.79968362 W

Media description: SAA

Aliquot #4: *Latitude:* 33.55286803 N *Longitude* 86.79962327 W

Media description: SAA

Aliquot #5: *Latitude:* 33.55286743 N *Longitude* 86.79957049 W

Media description: SAA

SAA - SAME AS ABOVE

**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:

9/23/15

**ADDRESS:** 3728 43RD AVE N **PROPERTY ID:** HP0214

**DATE:** 9/23/15 **ARRIVAL TIME:** 1515

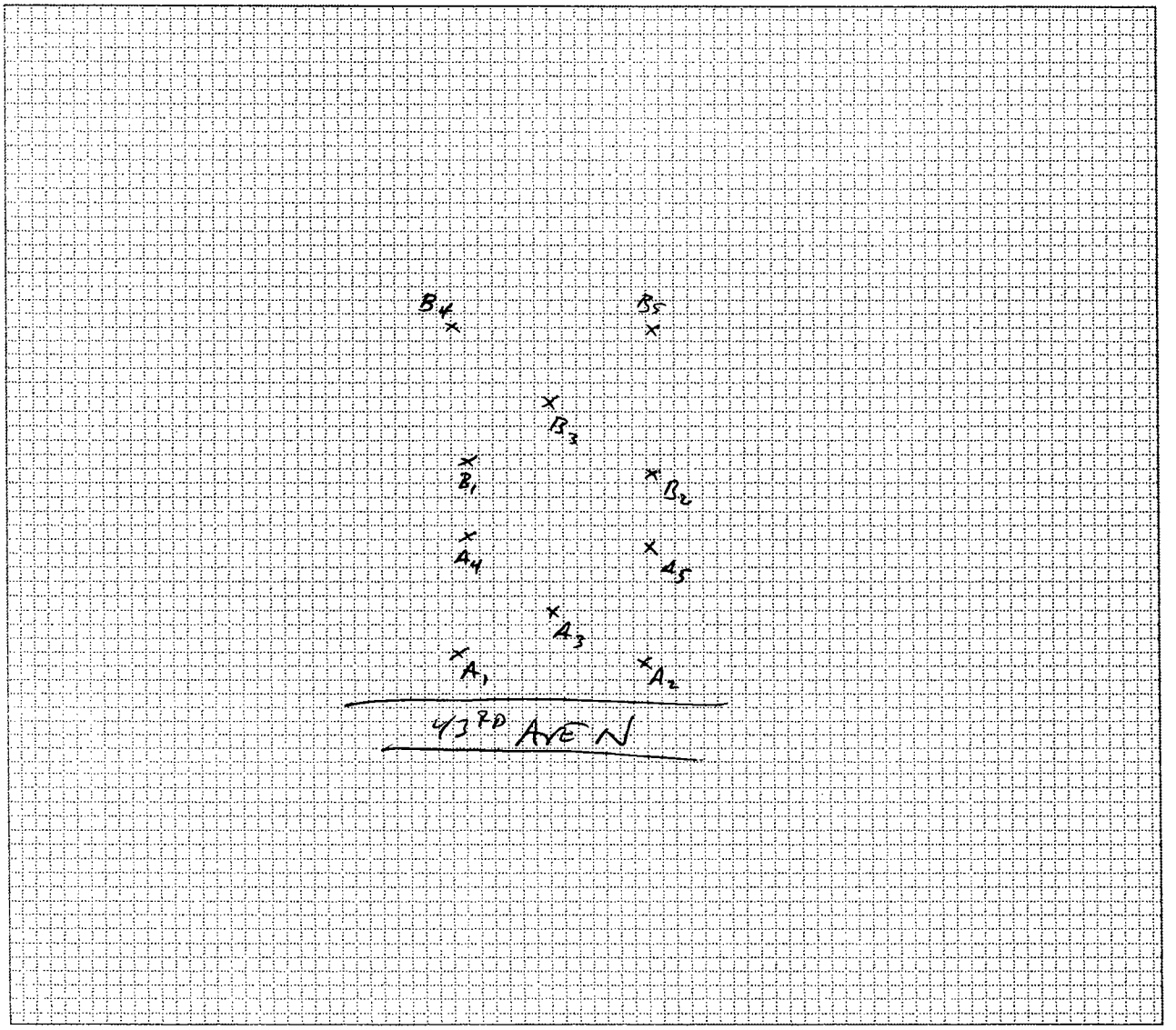
**Other pertinent information (weather conditions, etc.):**

SUNNY 82°F

**PROPERTY COMMENTS:**

VACANT LOT

Grid for property sketch



STATION ID: HP0214A SAMPLE ID: HP0214A-CSO-4

SAMPLE COLLECTION TIME: 1525

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

VACANT 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 #: 028750 Logged? Y or N

Aliquot #1: *Latitude:* 33.56575961 N *Longitude* 86.78975942 W

Media description: BWN SANDY SILT W/ GRAVEL, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.56575585 N *Longitude* 86.78967836 W

Media description: SAA

Aliquot #3: *Latitude:* 33.56581793 N *Longitude* 86.78970234 W

Media description: SAA

Aliquot #4: *Latitude:* 33.56586466 N *Longitude* 86.78975290 W

Media description: SAA

Aliquot #5: *Latitude:* 33.56586552 N *Longitude* 86.78969986 W

Media description: SAA

SAA - SAME AS ABOVE

STATION ID: HP0214B SAMPLE ID: HP0214B-CSO-4

SAMPLE COLLECTION TIME: 1530

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

VACANT 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 #: 028750 Logged? Y or N

Aliquot #1: *Latitude:* 33.56590469 N *Longitude* 86.78975438 W

Media description: BWN SANDY SILT W/ GRAVEL, DRY, NO ODOR

Aliquot #2 *Latitude:* 33.56591814 N *Longitude* 86.78967046 W

Media description: SAA

Aliquot #3: *Latitude:* 33.56597045 N *Longitude* 86.78973727 W

Media description: SAA

Aliquot #4: *Latitude:* 33.56602992 N *Longitude* 86.78976298 W

Media description: SAA

Aliquot #5: *Latitude:* 33.56602965 N *Longitude* 86.78969192 W

Media description: SAA

SAA - SAME AS ABOVE

**ADDRESS:** 3720 43 AVE N **PROPERTY ID:** HP0210

**DATE:** 9/23/15 **ARRIVAL TIME:** 1545

**Other pertinent information (weather conditions, etc.):**

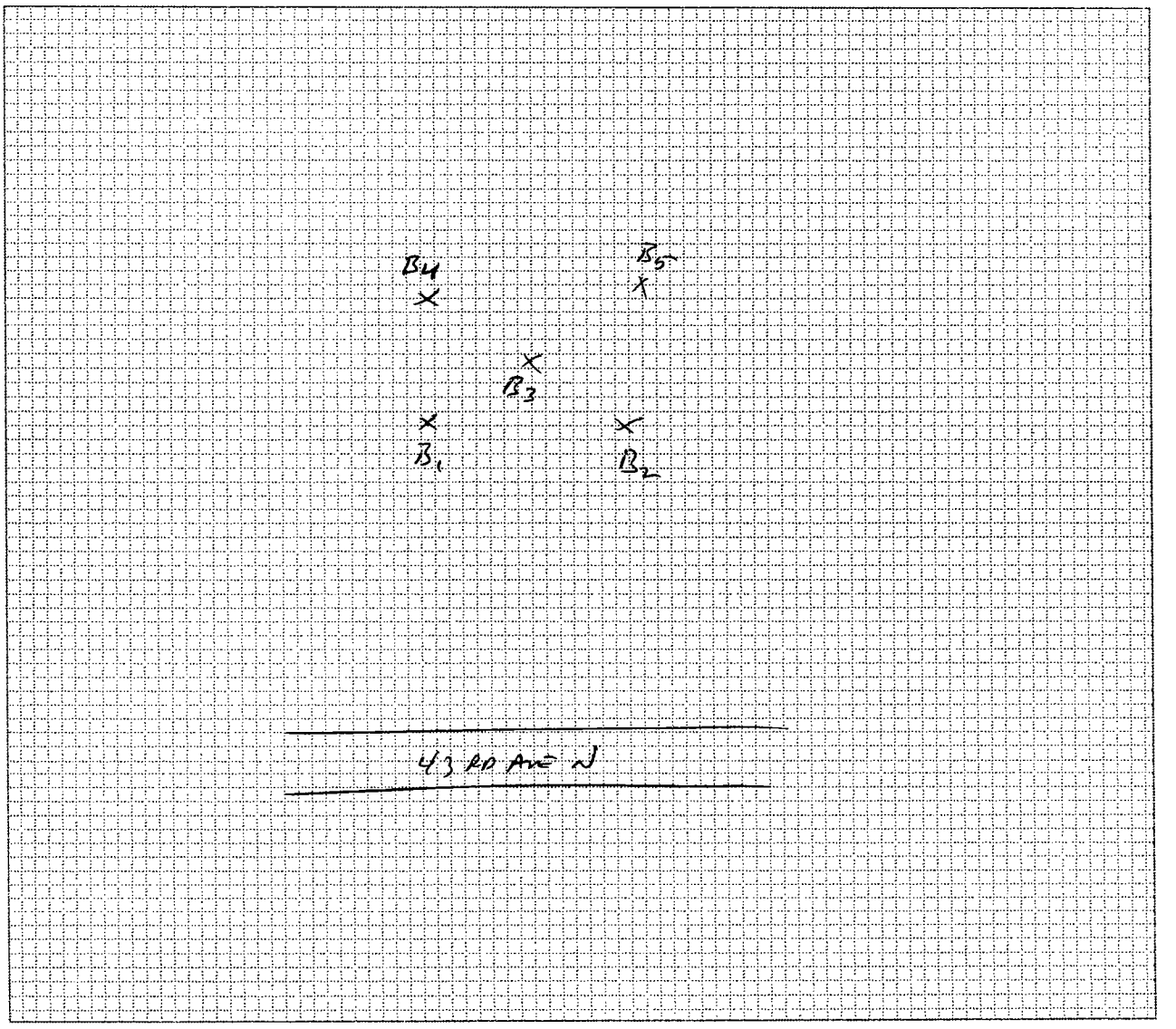
SUNNY 83°F

**PROPERTY COMMENTS:**

VACANT LOT

ONLY REQUIRED TO SAMPLE HP0210B of PROPERTY

Grid for property sketch



STATION ID: HP02103 SAMPLE ID: HP02103-CS 0-4

SAMPLE COLLECTION TIME: 1550

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

VACANT 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 #: 028750 Logged? Y or N

Aliquot #1: *Latitude:* 33.56590470 N *Longitude* 86.78999450 W

Media description:

Aliquot #2 *Latitude:* 33.56592326 N *Longitude* 86.78994558 W

Media description:

Aliquot #3: *Latitude:* 33.56595695 N *Longitude* 86.78997294 W

Media description:

Aliquot #4: *Latitude:* 33.56602030 N *Longitude* 86.78999841 W

Media description:

Aliquot #5: *Latitude:* 33.56602570 N *Longitude* 86.78995456 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:

9/23/15

**ADDRESS:** 3199 31ST AVE N **PROPERTY ID:** CV0810

**DATE:** 9/24/15 **ARRIVAL TIME:** 0830

**Other pertinent information (weather conditions, etc.):**

SUNNY 72°F

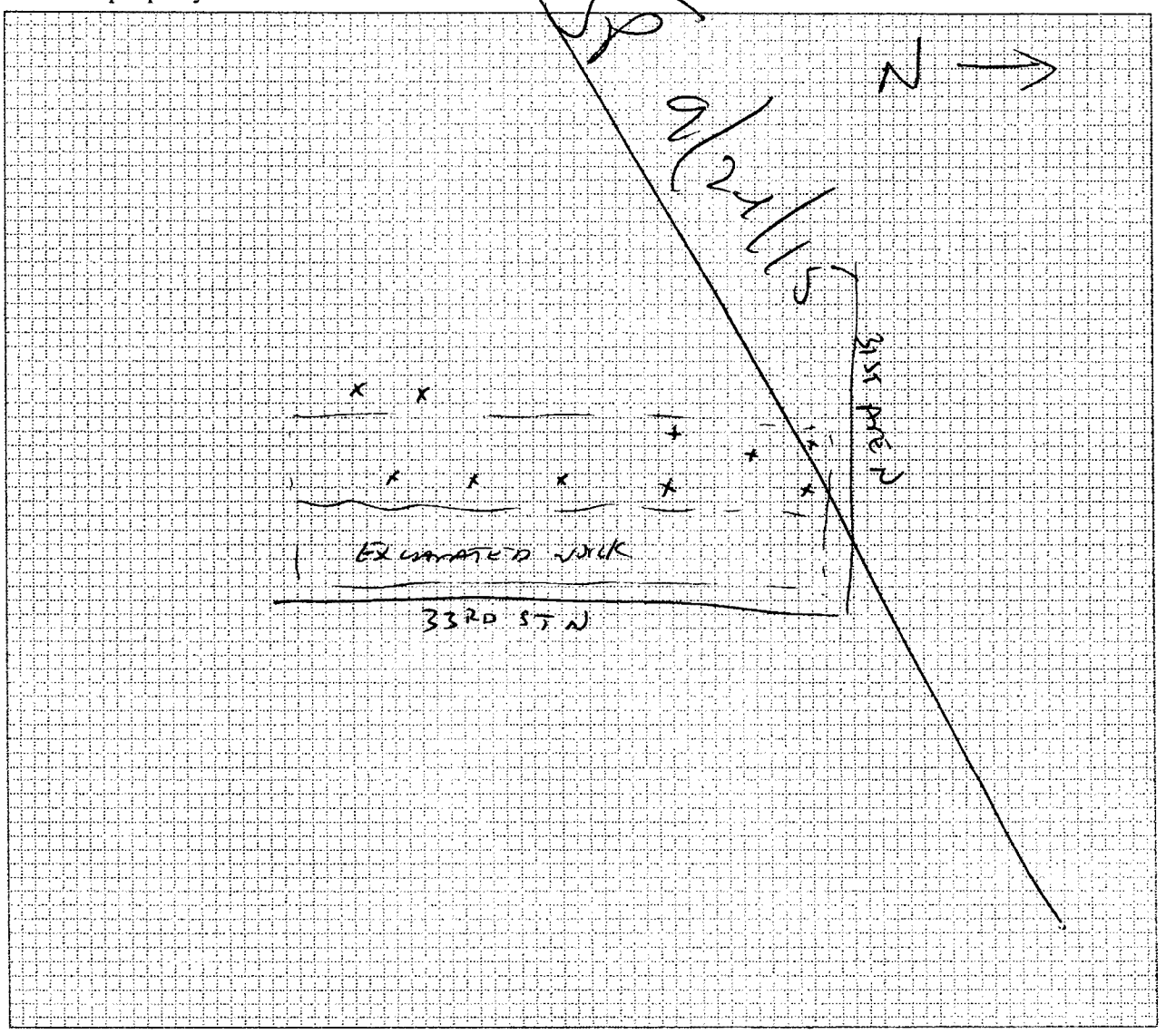
**PROPERTY COMMENTS:**

VACANT LOT

BANDWORK HAS BEEN DONE; COLLECTED SAMPLES ON

UNDISTURBED AREAS

Grid for property sketch



**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:** _____ **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: 3001 33RD ST N PROPERTY ID: CV0873

DATE: 9/24/15 ARRIVAL TIME: 0915

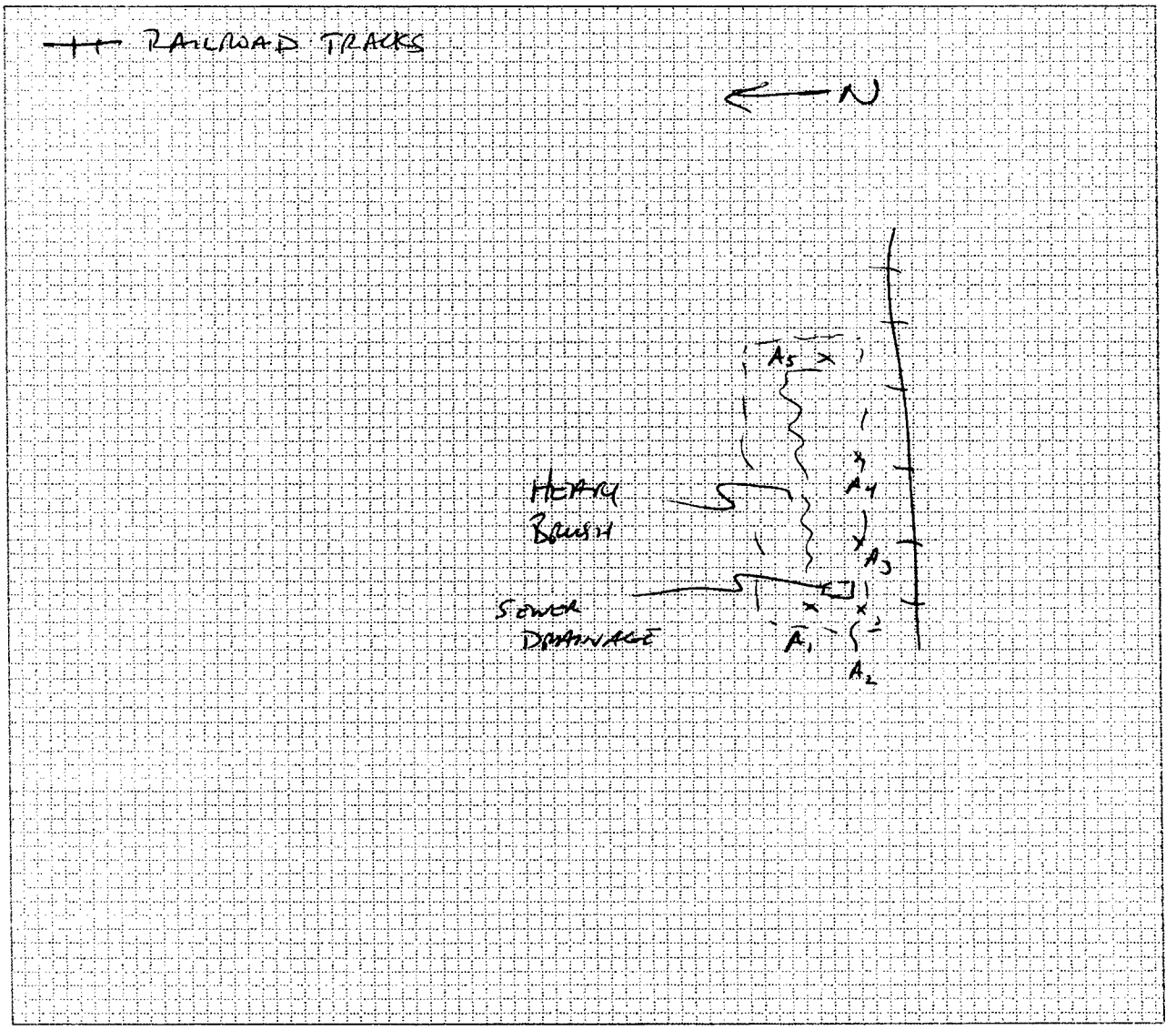
Other pertinent information (weather conditions, etc.):

Sunny 74°F

PROPERTY COMMENTS:

VACANT LOT

Grid for property sketch



**STATION ID:** CV0873A **SAMPLE ID:** CV0873A - CS 0-4

**SAMPLE COLLECTION TIME:** 0935

**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 [X] Instrument #: 028750 Logged? Y or N

Aliquot #1: *Latitude:* 33.55293284 N *Longitude* 86.80053128 W

Media description: GRASS, BWN SANDY SILT w/ GRAVEL

Aliquot #2 *Latitude:* 33.55291696 N *Longitude* 86.80047772 W

Media description: SAA

Aliquot #3: *Latitude:* 33.55291999 N *Longitude* 86.80044997 W

Media description: SAA

Aliquot #4: *Latitude:* 33.55292522 N *Longitude* 86.80039105 W

Media description: SAA

Aliquot #5: *Latitude:* 33.55293483 N *Longitude* 86.80034933 W

Media description: SAA

SAA - SAME AS ABOVE

**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:

9/24/05

ADDRESS: _____ PROPERTY ID: _____

DATE: _____ ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

_____

PROPERTY COMMENTS:

_____

_____

_____

_____

Grid for property sketch

End of logbook
D.O. Irek