



# United States Environmental Protection Agency Region 4





## 35<sup>TH</sup> AVENUE REMOVAL INVESTIGATION BIRMINGHAM, ALABAMA JEFF CROWLEY, ON-SCENE COORDINATOR

#### FIELD SAMPLING LOGBOOK

| В                | ook | Z    | of | 2       |  |
|------------------|-----|------|----|---------|--|
| Inclusive Dates: | w   | ecko | 70 | 3/18/13 |  |

List of Sampling Team in logbook:

| (b) (6) | Initials | Organization/ | Duties<br>,Team Leader |
|---------|----------|---------------|------------------------|
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|         |          |               |                        |
|         |          |               |                        |

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#### **Sampling Procedures and Methodology**

Unless specified elsewhere in this logbook, all soil samples will be collected in accordance with the EPA Science and Ecosystem Division (SESD) Field Branches Quality System and Technical Procedures (FBQSTP) Soil Sampling (SESDPROC-300-R2) based on the following design.

The total number of 5-point composite surface soil samples (0-4 inches below ground surface) to be collected from each property will be based on the lot size as follows:

- For residential properties with a total parcel lot size equal to or less than (≤) 5,000 square feet the front yard and back yards of each property. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may also be collected from the side yard. Aliquots will be collected away from influences with drip lines and burn areas in a five dice configuration (each of the four corners and the center).
- For residential properties with a total parcel lot size greater than (>) 5.000 square feet and ≤ ¼-acre the property should be divided into two roughly equal surface areas. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may be collected from the side yard with the remainder of the property being divided into two roughly equal surface areas. Aliquots will be collected away from influences including drip lines and burn areas with reasonably equal spacing between aliquots.
- Residential properties over ¼-acre in parcel lot size will be divided into ¼-acre sections. When dividing any such property with a substantial side yard (primarily corner lots), one composite soil sample may be collected from the side yard. Aliquots will be collected away from influences including drip lines and burn areas in a five dice configuration, if possible, with reasonably equal spacing between aliquots.

Grab surface soil samples will be collected from apparent exposure pathways where active play sets are located.

Three-point composite surface soil samples will be collected from distinct vegetable gardens from each residential property.

Samples shall not be collected under payed 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 34<sup>th</sup> 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.

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|----------|-----|-----|---|----|-----|
|          | ( L | ן ע |   | U  | ) ] |
| ADDRESS: | •   |     | ` | •  |     |

\_PROPERTY ID: CV0813

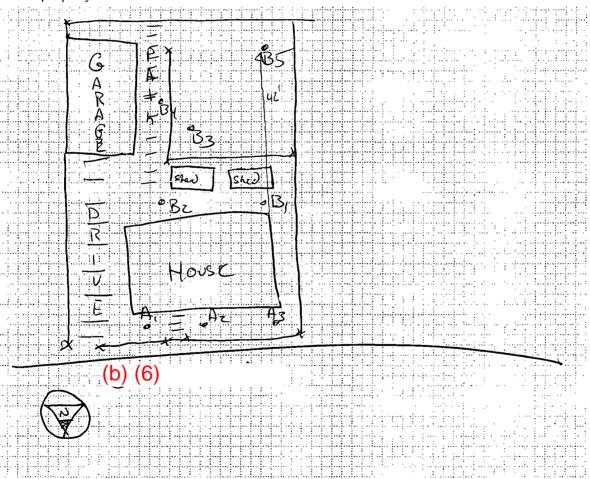
DATE: 3/21/13 ARRIVAL TIME: 1430

Other pertinent information (weather conditions, etc.):

55° cold.

**PROPERTY COMMENTS:** 

Grid for property sketch



| STATION ID:  | CV0813  | SAMPLE ID:  | CV0313A-C                                |
|--|---|---|--|
| SAMPLE COLLECTION  | TIME: 1420  |   |  |
|  |   | vegetable garden; play set; dito  | ch, etc):                                |
| Front yww 2  |   |   |  |
| Collection: Composite  | or Grab   | MS/MSD  | ? Y or <u>U</u>                          |
| Field Duplicate or Split:  | Yes or <b>Welf yes, indicate Dup</b>  | licate/split sample station ID:   |  |
|  |   | Logged? Y   |  |
|  |   | N Longitude <u>86,80</u> 3  |  |
| Media description  | n: Dark Bran sil  | ty Clay where   | c/ & coal Framents                       |
| Aliquot #2 Latitude: 33  | <u>3,35397857                                   </u>  | N Longitude 86, 802   | 696 W                                    |
| Media description  | 11: Dark Brans  | .1+y elay   |  |
| Aliquot #3: Latitude: <u>\$</u>  | Ame A   | N'Longitude/<br>} \ \gamma 6.80   | W  |
|  |   |   |  |
|  |   | N Longitude   | W  |
| Media description  |   | R   |  |
|  |   | N Longitude   | W  |
| Media description  | 1:  |   |  |
|  |   |   |  |
| STATION ID:  | 20813   | SAMPLE ID:  | cv0813B-CS                               |
| STATION ID:C   | _   | SAMPLE ID:  | CV0813B-CS                               |
| SAMPLE COLLECTION  | TIME: <u>/43</u>  | SAMPLE ID: vegetable garden; play set; ditc   |  |
| SAMPLE COLLECTION  Description of sample loc   | TIME: <u>/43</u>  |   |  |
| SAMPLE COLLECTION  | TIME: <u>/43</u> 2<br>cation (front, back, side yard;   | vegetable garden; play set; dito  |  |
| SAMPLE COLLECTION  Description of sample loc  Book your d  Collection: Composite   | TIME: 1430 cation (front, back, side yard;  | vegetable garden; play set; ditc<br>MS/MSD  | ? Y or **                                |
| SAMPLE COLLECTION  Description of sample loc  Book your  Collection: Composite  Field Duplicate or Split:  | TIME: 1430 cation (front, back, side yard; or Grab Yes or Wolf yes, indicate Dup  | wegetable garden; play set; dite  MS/MSD licate/split sample station ID:  | ? Y or Or N                              |
| SAMPLE COLLECTION  Description of sample loc  Book your  Collection: Composite  Field Duplicate or Split:  GPS Coordinates: Trimble  Aliquot #1: Latitude:   | TIME: 1430  cation (front, back, side yard;  or Grab  Yes or No If yes, indicate Dup  [ M Instrument #: 020  33,55384559  | MS/MSD licate/split sample station ID: D168 Logged? Y   | eh, etc):  ? Y or P  or N  Z 2 1 3 4 1 W |
| SAMPLE COLLECTION  Description of sample loc  Bcck / ccd  Collection: Composite  Field Duplicate or Split:  GPS Coordinates: Trimble  Aliquot #1: Latitude:  | TIME: 1430  cation (front, back, side yard;  or Grab  Yes or No If yes, indicate Dup  [ M Instrument #: 020  33,55384559  | MS/MSD licate/split sample station ID: D168 Logged? Y   | eh, etc):  ? Y or P  or N  Z 2 1 3 4 1 W |
| SAMPLE COLLECTION  Description of sample loc  Bcck / ccd  Collection: Composite  Field Duplicate or Split:  GPS Coordinates: Trimble  Aliquot #1: Latitude:  | TIME: 1430  cation (front, back, side yard;  or Grab  Yes or No If yes, indicate Dup  [ M Instrument #: 020  33,55384559  | wegetable garden; play set; dite  MS/MSD licate/split sample station ID:  | eh, etc):  ? Y or P  or N  Z 2 1 3 4 1 W |
| SAMPLE COLLECTION  Description of sample loc  Bcck Vac d  Collection: Composite  Field Duplicate or Split:  GPS Coordinates: Trimble  Aliquot #1: Latitude:  Media description  Aliquot #2 Latitude:  Media description  | TIME: 1430 cation (front, back, side yard;  or Grab Yes or Welfyes, indicate Dup c [4] Instrument #: 020 33,55384559 n: Dark Brown s 33,55383927 n: SAme Bi   | MS/MSD licate/split sample station ID:  N Longitude  N Longitude | 2 Y or N<br>2 2/341 W<br>23 27/ W        |
| SAMPLE COLLECTION  Description of sample loc  Bcc/C / Collection: Composite  Field Duplicate or Split:  GPS Coordinates: Trimble  Aliquot #1: Latitude:  Media description  Aliquot #2 Latitude:  Media description  Aliquot #3: Latitude:                         | TIME: 1430 cation (front, back, side yard;  or Grab Yes or Welfyes, indicate Dup carry Instrument #: 020 33,55384559 n: Dark Brown s 33,55383927 n: SAme B 33,55377733                                    | MS/MSD licate/split sample station ID: D168 Logged? Y   | 2 Y or N<br>2 2/341 W<br>23 27/ W        |
| SAMPLE COLLECTION  Description of sample loc  Bcck / cc d  Collection: Composite  Field Duplicate or Split:  GPS Coordinates: Trimble  Aliquot #1: Latitude:  Media description  Aliquot #2 Latitude:  Media description  Aliquot #3: Latitude:  Media description | TIME: 1430  cation (front, back, side yard;  or Grab  Yes or West, indicate Dup  [Y Instrument #: 020  33,55384559  Deak Brown S  33,55383927  1: SAme B <sub>1</sub> 33,55377733  1: SAme B <sub>1</sub> | MS/MSD licate/split sample station ID:  N Longitude 86.807  N Longitude 86.807  N Longitude 86.80   | 21841 w 21841 w 21841 w 218271 w         |
| SAMPLE COLLECTION  Description of sample loc  Bcc/C / Cod  Collection: Composite  Field Duplicate or Split:  GPS Coordinates: Trimble  Aliquot #1: Latitude:   | TIME: 1430  cation (front, back, side yard;  or Grab  Yes or No If yes, indicate Dup  c [Y Instrument #: 020 33,55384559  n: Dark Brown s 33,55383927  n: SAme B <sub>1</sub> 33,55373881                 | MS/MSD licate/split sample station ID:  N Longitude  N Longitude | 21841 w 21841 w 21841 w 218271 w         |
| SAMPLE COLLECTION  Description of sample loc  Bcc/ / cc d  Collection: Composite  Field Duplicate or Split:  GPS Coordinates: Trimble  Aliquot #1: Latitude:  Media description  Aliquot #3: Latitude:  Media description  Aliquot #4: Latitude:                   | TIME: 1430  cation (front, back, side yard;  or Grab  Yes or We If yes, indicate Dup  c [ Y Instrument #: 020  33,55384559  n: Dark Brown s  33,55383927  n: SAme B,  355373881  1: SAme B,               | MS/MSD licate/split sample station ID:  N Longitude 86,807  N Longitude 86,80   | 21841 w 21841 w 21841 w 21841 w 21848 w  |
| SAMPLE COLLECTION  Description of sample loc  Bcc/C/ccd  Collection: Composite  Field Duplicate or Split:  GPS Coordinates: Trimble  Aliquot #1: Latitude:   | TIME: 1430  cation (front, back, side yard;  or Grab  Yes or We If yes, indicate Dup  c [ Y Instrument #: 020  33,55384559  n: Dark Brown s  33,55383927  n: SAme B,  355373881  1: SAme B,               | MS/MSD licate/split sample station ID:  N Longitude 86.807  N Longitude 86.807  N Longitude 86.80   | 21841 w 21841 w 21841 w 21841 w 21848 w  |

| ADDRESS: (b) (6)  | PROPERTY ID: Fm 0346    |  |
|---|-------------------------|--|
| DATE: 3/4/13  | ARRIVAL TIME: 1505      |  |
| Other pertinent information (weather condition $\cos l_c$ ) | litions, etc.):         |  |
| PROPERTY COMMENTS:  |                         |  |
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| Grid for property sketch                                    |                         |  |
|   | Y 5                     |  |
| A P   | Y B3 PAD                |  |
| R AB  | 3, \                    |  |
|   |                         |  |
|   | House                   |  |
| WA<br>WA  | 1 1 1 = A 5 A 5 A 7 ET) |  |
|   | AT A3 PAYETB            |  |
| (b) (6  | 6)                      |  |
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|   |                         |  |

| STATION ID: FM0346 SAMI  | PLE ID: _ R MO346A-CS  |
|--|--|
| SAMPLE COLLECTION TIME: 1520   |  |
| Description of sample location (front, back, side yard; vegetable garden; p  | olay set; ditch, etc):   |
| Collection: Composite or Grab  | MS/MSD? Y or   |
| Field Duplicate or Split: Yes or Northyes, indicate Duplicate/split sample sta   | tion ID:   |
| GPS Coordinates: Trimble [ 4 Instrument #: 020168  |  |
| Aliquot #1: Latitude: 33, 56204493 N Longitude 2   |  |
| Media description: Brow Sandy s. Hy w/ coal  | Fragnet  |
| Aliquot #2 Latitude: 33,56209748 N Longitude 8   | <u>6,81396356</u> w  |
| Media description: SAve A  |  |
| Aliquot #3: Latitude: 33,58207569 N Longitude 8  |  |
| Media description: /ight Brown suby silt w/g   | revel  |
| Aliquot #4: Latitude: 33,56211221 N Longitude 8  | 6, <i>813</i> 96633 w  |
| Media description: 5 Ave A   |  |
| Aliquot #5: Latitude: \$33,562 04 374 N Longitude &  | 86, <u>81394704</u> w  |
| Media description: EAme A1   |  |
|  |  |
| STATION ID:SAMI  | PLE ID: FM0346 B-CS  |
| STATION ID:SAMI<br>SAMPLE COLLECTION TIME:SYO  | PLE ID: FM0346 B-CS  |
| SAMPLE COLLECTION TIME:  |  |
| SAMPLE COLLECTION TIME:  |  |
| SAMPLE COLLECTION TIME:  | olay set; ditch, etc):  MS/MSD? Y or   |
| SAMPLE COLLECTION TIME:  | MS/MSD? Y or Stion ID:   |
| SAMPLE COLLECTION TIME:  | olay set; ditch, etc):  MS/MSD? Y or   |
| SAMPLE COLLECTION TIME:  | MS/MSD? Y or D  tion ID:  Logged? Y or N  6.81417961 W  Coal Saynet - Dungs  |
| SAMPLE COLLECTION TIME:  | MS/MSD? Y or Stion ID:  Logged? Y or N   |
| Description of sample location (front, back, side yard; vegetable garden; problems of Grab  Collection: Composite or Grab  Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample state  GPS Coordinates: Trimble [Y Instrument #: 020168]  Aliquot #1: Latitude: 33, 56203460 N Longitude Service Servic | Dlay set; ditch, etc):  MS/MSD? Y or D  tion ID:  Logged? Y or N  6,81417961 W  Coal Fayner - Dunsp  6,81418341 W              |
| Description of sample location (front, back, side yard; vegetable garden; problems of Grab  Collection: Composite or Grab  Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample state  GPS Coordinates: Trimble [Y Instrument #: 020168]  Aliquot #1: Latitude: 33, 56203460 N Longitude Service Servic | MS/MSD? Y or D  tion ID:  Logged? Y or N  6.81417961 W  Coal Saynet - Dungs  |
| Description of sample location (front, back, side yard; vegetable garden; problem of sample location (front, back, side yard; vegetable garden; problem of Grab  Collection: Composite or Grab  Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample state  GPS Coordinates: Trimble [Y Instrument #: 020/68]  Aliquot #1: Latitude: 33, 56203460 N Longitude Supplied of Solution of Solut | MS/MSD? Y or D  tion ID:  Logged? Y or N  6.81417961 W  Coal Fayer - Dansp  6.814218341 W                                      |
| Description of sample location (front, back, side yard; vegetable garden; problems of sample location (front, back, side yard; vegetable garden; problems of Grab  Collection: Composite or Grab  Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample state  GPS Coordinates: Trimble [Y Instrument #: 020/68]  Aliquot #1: Latitude: 33,56203460 N Longitude Service  | Dlay set; ditch, etc):  MS/MSD? Y or D  tion ID:  Logged? Y or N  6,81417961 W  Coal Fayner - Dunsp  6,81418341 W              |
| Description of sample location (front, back, side yard; vegetable garden; problem of sample location (front, back, side yard; vegetable garden; problem of Grab  Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample stated Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample stated Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample stated Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample stated Duplicate or Split: No Longitude Split Sp | Dlay set; ditch, etc):  MS/MSD? Y or D  tion ID:  Logged? Y or N  6.81417961 W  Coal Sayout - Dump  6.81418341 W  6.81421932 W |
| Description of sample location (front, back, side yard; vegetable garden; problem of sample location (front, back, side yard; vegetable garden; problem of Grab  Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample stated Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample stated Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample stated Description: Sold Description: No Longitude Second Description: Sold Description:  | MS/MSD? Y or D  tion ID:  Logged? Y or N  6.81417961 W  Coal Fayer - Dansp  6.814218341 W                                      |

|          | (h) | (6) |
|----------|-----|-----|
| ADDRESS: |     | (0) |

PROPERTY ID: 4P0323

DATE: 3/21/13

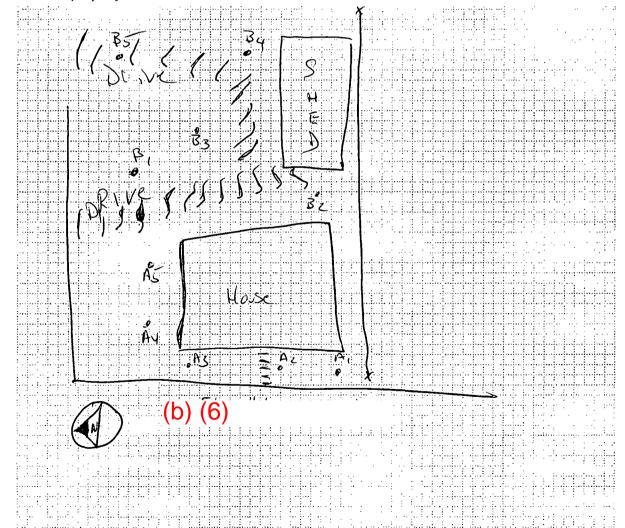
ARRIVAL TIME: 1550

Other pertinent information (weather conditions, etc.):

550 COLD.

PRÓPERTY COMMENTS:

Grid for property sketch



| STATION ID:  | HP0323.  | SAMPLE ID:   | HP 0323A-CS  |
|--|--|--|--|
| SAMPLE COLLECTION TIN  | ME: <u>/600</u>  |  |  |
| Description of sample location   | on (front, back, side yard:  | ; vegetable garden; play set;  | ditch, etc):   |
| Frank yord.  |  |  |  |
|  | or Grab  |  | <b>1SD?</b> Y or N   |
| Field Duplicate or Split: Yes  |  |  |  |
| GPS Coordinates: Trimble [ *   |  |  |  |
| Aliquot#1: Latitude: 33,   | 56419181   | N Longitude 86,  | 97 Z 6194 W  |
|  |  | s. Ity clay w/ coa   |  |
| Aliquot #2 Latitude: 33.   |  | N Longitude <u> </u>   | <u>97233))</u> w   |
| Media description: _   |  |  |  |
| Aliquot #3: Latitude: 33,  |  | N Longitude <u>86,79</u>   | 7/8751 w   |
| Media description:   |  |  |  |
| Aliquot #4: Latitude: 33,  | ۸  | N Longitude <u>96, 7</u> 0   | 7713787 w  |
| Media description:   |  |  |  |
| Aliquot #5: Latitude: 33,  | . ^  | N Longitude 86.  | 79704530 W   |
| Media description:   | 5 Ame A,   | ; <i>a</i>   |  |
|  |  | •  |  |
| STATION ID: HP   |  | SAMPLE ID:   | HP0323B-C  |
| SAMPLE COLLECTION TIME   | ME: 16/0 :   | 's   | ·  |
| SAMPLE COLLECTION TIME.  Description of sample location of sample loca | ME: 16/0 :   | 's   | ·  |
| SAMPLE COLLECTION TIME  Description of sample location  Book y  Collection: Composite  | on (front, back, side yard;  | y vegetable garden; play set;  MS/M  | ditch, etc):   |
| SAMPLE COLLECTION TIME  Description of sample location  Becky  | on (front, back, side yard;  | y vegetable garden; play set;  MS/M  | ditch, etc):   |
| SAMPLE COLLECTION TIME  Description of sample location  Book y  Collection: Composite  | on (front, back, side yard; or Grab  or No If yes, indicate Du   | wegetable garden; play set;  MS/N plicate/split sample station ID: _ Logged  | ditch, etc):  ISD? Y or   Y or N   |
| SAMPLE COLLECTION TIME  Description of sample location  Book y  Collection: Composite  Field Duplicate or Split: Yes  GPS Coordinates: Trimble [V  Aliquot #1: Latitude: 33,   | on (front, back, side yard; or Grab  or No If yes, indicate Duy Instrument #: 0 2  | MS/M plicate/split sample station ID:  N Longitude 8647  | ditch, etc):  ISD? Y or   P Y or N  P 9 6 9 6 9 3 W  |
| SAMPLE COLLECTION TIME  Description of sample location  Book y  Collection: Composite  Field Duplicate or Split: Yes  GPS Coordinates: Trimble [V  Aliquot #1: Latitude: 33,   | on (front, back, side yard; or Grab  or No If yes, indicate Duy Instrument #: 0 2  | MS/M plicate/split sample station ID:  N Longitude 8647  | ditch, etc):  ISD? Y or   P Y or N  P 9 6 9 6 9 3 W  |
| SAMPLE COLLECTION TIME  Description of sample location  Book y  Collection: Composite  Field Duplicate or Split: Yes  GPS Coordinates: Trimble [V  Aliquot #1: Latitude: 33,   | on (front, back, side yard; or Grab  or No If yes, indicate Duy Instrument #: 0 2  | wegetable garden; play set;  MS/N plicate/split sample station ID: _ Logged  | ditch, etc):  ISD? Y or   P Y or N  P 9 6 9 6 9 3 W  |
| SAMPLE COLLECTION TIME  Description of sample location  Book y  Collection: Composite  Field Duplicate or Split: Yes  GPS Coordinates: Trimble [Vector Aliquot #1: Latitude: 33, Media description:  | on (front, back, side yard; or Grab  or No If yes, indicate Duy Instrument #: 0 2 36 417302  Dark Brows 56403569   | MS/N plicate/split sample station ID:  N Longitude 86.79   | ditch, etc):  ISD? Y or   P Y or   P 9693 W  V Frank - Daw  706176 W                                 |
| SAMPLE COLLECTION TIME  Description of sample location  Book y  Collection: Composite  Field Duplicate or Split: Yes  GPS Coordinates: Trimble [12]  Aliquot #1: Latitude: 33,  Media description:  Aliquot #2 Latitude: 33,  Media description:  Aliquot #3: Latitude: 33,  Aliquot #3: Latitude: 33,   | on (front, back, side yard; or Grab  or Welfyes, indicate Duy Instrument #: 0 2 36 417302  Dark Brows 56409569  B  | MS/M plicate/split sample station ID:  N Longitude 8647  | ditch, etc):  ISD? Y or   P Y or   P 9693 W  V Frank - Daw  706176 W                                 |
| Collection: Composite Field Duplicate or Split: Yes  GPS Coordinates: Trimble [Vertical Aliquot #1: Latitude: 33, Media description: Aliquot #3: Latitude: 34, Media description: Aliquot #3: Latitude: Aliq | on (front, back, side yard; or Grab  or No If yes, indicate Duy Instrument #: 0 2 36417302  Dark Brows 56409569  B   | MS/N plicate/split sample station ID:  O/6 8 Logged'  N Longitude 86.79  N Longitude 86.79                                     | ditch, etc):  ISD? Y or D  P Y or N  P 9 6 9 6 9 3 W  V Franks - Daw  7 0 6 1 7 6 W  9 6 9 4 5 38 W  |
| Collection: Composite Field Duplicate or Split: Fest  GPS Coordinates: Trimble [12]  Aliquot #1: Latitude: 33,  Media description:  Aliquot #3: Latitude: 33,  Media description:  Aliquot #4: Latitude: 33,  Aliquot #4: Latitude: 33,  | ME: 16/0  on (front, back, side yard)  or Grab  or No If yes, indicate Dup  Instrument #: 0 2  36 417302  Dark Brow 8  56403569  B  56409990               | MS/N plicate/split sample station ID:  N Longitude 86.79   | ditch, etc):  ISD? Y or D  P Y or N  P 9 6 9 6 9 3 W  V Franks - Daw  7 0 6 1 7 6 W  9 6 9 4 5 38 W  |
| Collection: Composite Field Duplicate or Split: Yes  GPS Coordinates: Trimble [ Ventage of the collection of the collect | ME: 16/0  on (front, back, side yard;  or Grab  or No If yes, indicate Dup  Instrument #: 0 2  36 417302  Dark Brown 8  56408569  B  6409990  B  656407941 | MS/N plicate/split sample station ID:  O/6 8 Logged  N Longitude 86.79  N Longitude 86.79  N Longitude 86.79  N Longitude 86.7 | ditch, etc):  ISD? Y or D  P Y or N  P 9 6 9 6 9 3 W  V Franks - Dune  7 0 6 1 7 6 W  9 6 9 4 5 38 W |
| Collection: Composite Field Duplicate or Split: Fest  GPS Coordinates: Trimble [12]  Aliquot #1: Latitude: 33,  Media description:  Aliquot #3: Latitude: 33,  Media description:  Aliquot #4: Latitude: 33,  Aliquot #4: Latitude: 33,  | ME: 16/0  on (front, back, side yard)  or Grab  or We If yes, indicate Dup  Instrument #: 0 2  36 417302  Dark Brows  56403569  B  56407941  B  36411432   | MS/N plicate/split sample station ID:  O/6 8 Logged'  N Longitude 86.79  N Longitude 86.79                                     | ditch, etc):  ISD? Y or D  P Y or N  P 9 6 9 6 9 3 W  V Franks - Dune  7 0 6 1 7 6 W  9 6 9 4 5 38 W |

| ADDRESS:   |                                   |             | _PROPERTY ID: |                          |
|--|-----------------------------------|-------------|---------------|--------------------------|
| DATE:  |                                   | ARRIVAL TIM | E:            |                          |
|  | outhou conditions ato             |             |               |                          |
| Other pertinent information (we  | atner conditions, etc.)           | ) <b>:</b>  |               |                          |
| PROPERTY COMMENTS:   |                                   |             |               | -                        |
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| Grid for property sketch   | \                                 |             |               |                          |
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|  | red recent                        |             |               |                          |
|  | ng malang dipendan<br>manggapanan |             |               |                          |
|  |                                   |             |               | manani de Naras Institut |

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