

APPENDIX C
SURFACE WATER SAMPLING LOGS



Surface Water Sampling Logs

LL1-059.....	C-5
LL1-301.....	C-6
LL1-309.....	C-7
LL1-318.....	C-8
LL1-319.....	C-9
LL1-320.....	C-10
LL1-321.....	C-11
LL1-322.....	C-12
LL1-323.....	C-13

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Surface Water Sampling Logs

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LL1-053

Note: Station LL1-053, located at the north end of Criggy's Pond, was collected on 09-18-00 (Sample ID LL1SW-053-1071-SW and field duplicate LL1SW-053-1140-SW). The HTRW logs for this station were inadvertently omitted from the surface water sampling logbook. Available sample collection documentation is contained in chain-of-custody form No. LL1SNT-4, located in Appendix H.

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HTRW DRILLING LOG		DISTRICT LOUISVILLE		SAMPLE LOCATION W	
1. COMPANY NAME SAIC		2. DRILL SUBCONTRACTOR N/A		3. HOLE NUMBER LLI-059	
4. PROJECT RVAAP LLI PHASE II RI		4. LOCATION CHARLIE'S POND (LLI-059)		SHEET SHEETS 1 OF 1	
5. NAME OF DRILLER N/A		6. MANUFACTURERS DESIGNATION OF DRILL N/A			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT N/A SURFACE WATER LOCATION ONLY		8. HOLE LOCATION N/A			
		9. SURFACE ELEVATION N/A			
		10. DATE STARTED 15 SEPT 00		11. DATE COMPLETED 15 SEPT 00	
12. OVERBURDEN THICKNESS N/A		15. DEPTH GROUNDWATER ENCOUNTERED N/A			
13. DEPTH (DRILLED) INTO ROCK N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED N/A			
14. TOTAL DEPTH OF HOLE N/A		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) DEPTH OF WATER = 4.5 INCHES			
18. GEOTECHNICAL SAMPLES N/A		DISTURBED N/A		UNDISTURBED N/A	
20. SAMPLES FOR CHEMICAL ANALYSIS N/A		VOC N/A		METALS N/A	
		OTHER (SPECIFY) EXPLOSIVES		OTHER (SPECIFY) PROPPELLANTS	
22. DISPOSITION OF HOLE N/A		BACKFILLED N/A		MONITORING WELL N/A	
		OTHER (SPECIFY) N/A		OTHER (SPECIFY) PROPPELLANTS BY SH Cn	
				21. TOTAL CORE RECOVERY N/A	
				23. SIGNATURE OF INSPECTOR Beau Williams (vjb) 11-8-00	

LOCATION SKETCH/COMMENTS : SCALE: **N/A**

SEE PAGE 21 IN LOGBOOK 5
 "SURFACE WATER + SEDIMENT" L vjb 12/26/00
 STATION LLI-059 (CHARLIE'S POND)

N 563200.3171
~~E 2379674.113~~
 E 2379674.113

PROJECT RVAAP LLI PHASE II RI	C-5	STATION (SAMPLE LOCATION) HOLE NO. LLI-059
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HTRW DRILLING LOG

DISTRICT
LOUISVILLE

HOLE NUMBER
LLI-309
SHEET **1** OF **1**

1 COMPANY NAME
SAIC

2 DRILL SUBCONTRACTOR

3 PROJECT
RVAAP LLI PHASE II RE

4 LOCATION
Storm Water Sewers

5 NAME OF DRILLER

6 MANUFACTURERS DESIGNATION OF DRILL

7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

SW: DISPOSABLE BAILER

8 HOLE LOCATION

NIA

9 SURFACE ELEVATION

NIA

10 DATE STARTED

26 SEPT 07

11 DATE COMPLETED

26 SEPT 07

12 OVERBURDEN THICKNESS

NIA

15. DEPTH GROUNDWATER ENCOUNTERED

NIA

13 DEPTH DRILLED INTO ROCK

NIA

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED

NIA

14 TOTAL DEPTH OF HOLE

NIA

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

5 INCHES TOTAL DEPTH (SEE ACTIVITY SHEET AS WELL)

18 GEOTECHNICAL SAMPLES

DISTURBED

NIA

UNDISTURBED

NIA

19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21 TOTAL CORE RECOVERY %

22. DISPOSITION OF HOLE

PCB, SUCC, BACKFILLED

EXPLOSIVES, PROPELLANTS, MONITORING WELL

CYANIDE, PESTICIDES, OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

B. W. J. C.

LOCATION SKETCH/COMMENTS:

SCALE:

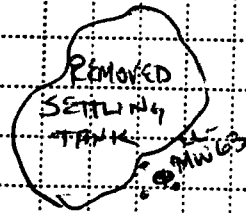
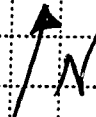
NOT TO SCALE

**N 563670.3234
E 2376960.134**

CEMENT WALKWAY

ABANDONED

RATE BED



MH-B2

LLI-309

MH-B1

SAMPLE TAKEN WITHOUT DISTURBING SURROUNDING BALLAST AND MANHOLE CROWN.

DEMOLISHED BUILDING CA-6

CEMENT WALKWAY

PROJECT

RVAAP LLI PHASE II RE C-7

HOLE NO.

LLI-309

HTRW DRILLING LOG

DISTRICT

Louisville

HOLE NUMBER

LLI-318

1. COMPANY NAME

SAIC

2. DRILL SUBCONTRACTOR

N/A

SHEET SHEETS

1 OF 1

3. PROJECT

RVAAP LOAD LINE I PHASE II RI

4. LOCATION

OFF-AOC Streams

5. NAME OF DRILLER

6. MANUFACTURERS DESIGNATION OF DRILL

N/A

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

SS AUGER
SS SCREEN
SS BRUSH

8. HOLE LOCATION

9. SURFACE ELEVATION

N/A

12. OVERBURDEN THICKNESS

N/A

10. DATE STARTED

15th SEPT 99

11. DATE COMPLETED

15th SEPT 99

13. DEPTH DRILLED INTO ROCK

N/A

15. DEPTH GROUNDWATER ENCOUNTERED

N/A

14. TOTAL DEPTH OF HOLE

N/A

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED

N/A

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

DEPTH OF WATER = 20"

18. GEOTECHNICAL SAMPLES

DISTURBED

UNDISTURBED

19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS

TOC, GRAIN SIZES

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE RECOVERY

22. DISPOSITION OF HOLE

N/A

SUCK W/ B/W BACKFILLED

X MONITORING WELL

EXPLOSIVES PROPELLANTS

CO, PCBs, PAH

N/A

23. SIGNATURE OF INSPECTOR

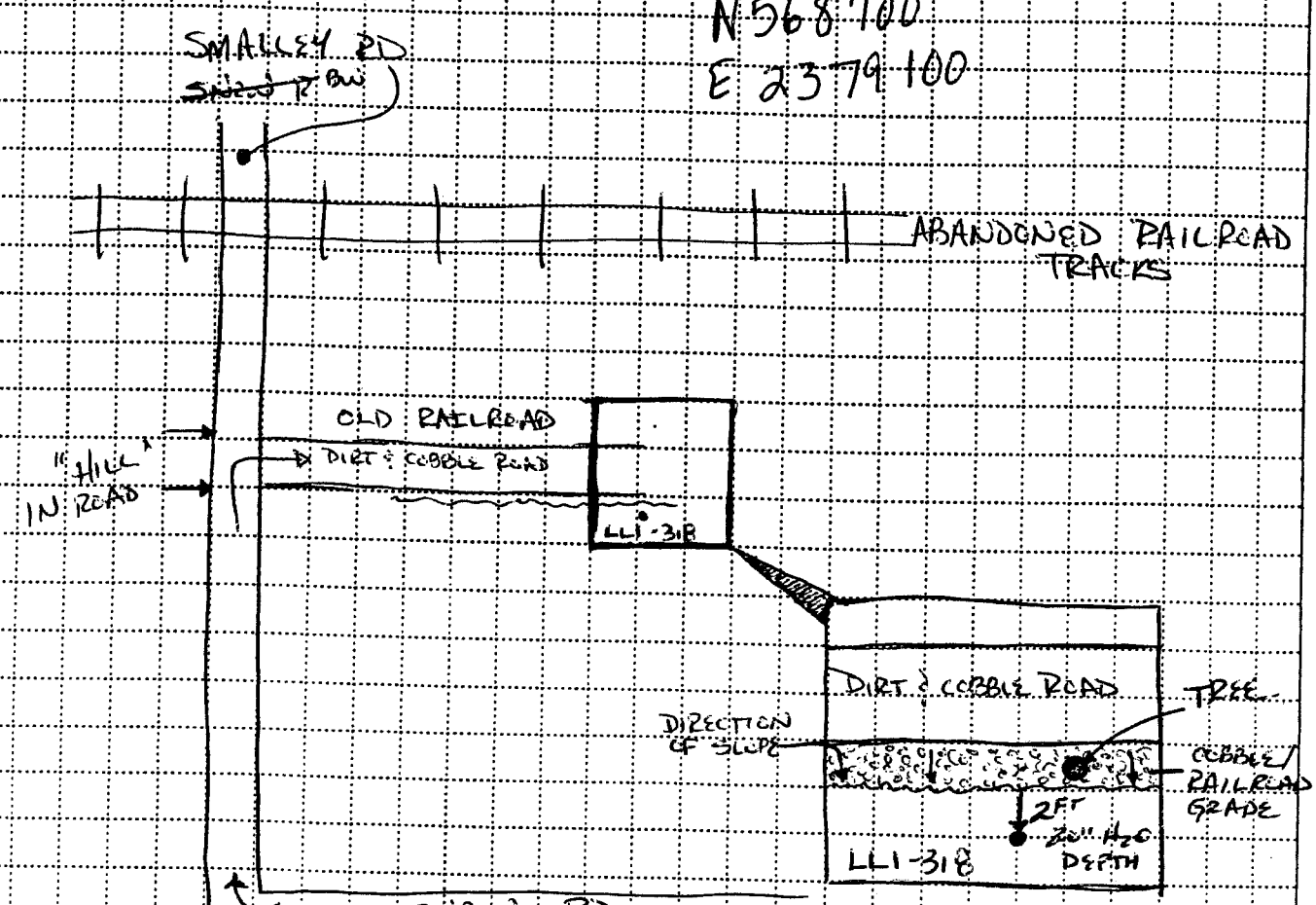
B. Williams

LOCATION SKETCH/COMMENTS

SCALE:

NOT TO SCALE

N 568 700
E 2379 100



PROJECT

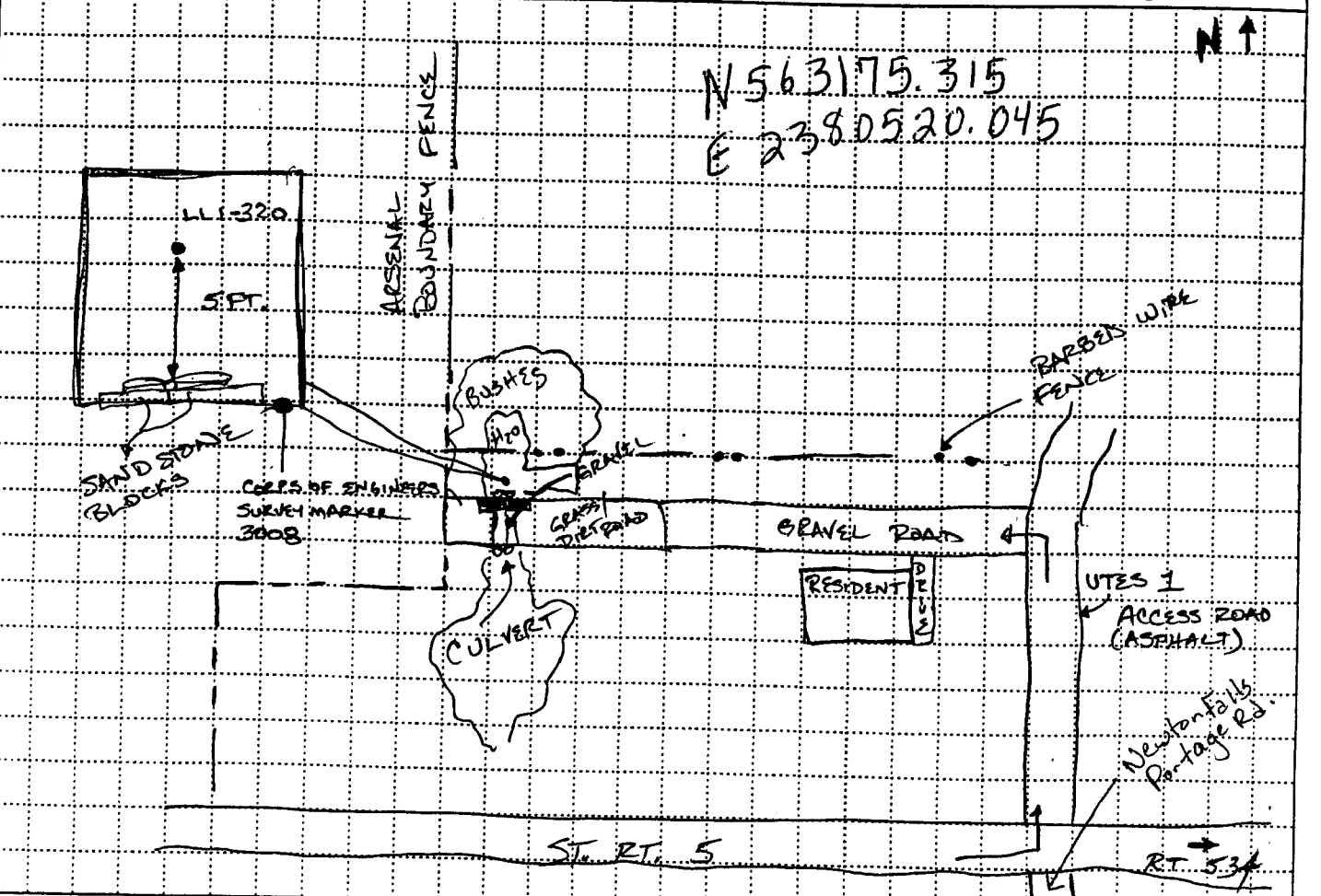
RVAAP LOAD LINE I PHASE II RI

HOLE NO.

LLI-318

HTRW DRILLING LOG		DISTRICT Louisville		HOLE NUMBER LLI-320	
1. COMPANY NAME SAIC		2. DRILL SUBCONTRACTOR NA		SHEET 1 OF 7 SHEETS	
3. PROJECT RUAAP Load Line I Phase II RI			4. LOCATION OFF AOC Stream		
5. NAME OF DRILLER NA			6. MANUFACTURERS DESIGNATION OF DRILL NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT SS Auger SS Bowl and Spoon			8. HOLE LOCATION NA		
12. OVERBURDEN THICKNESS NA			9. SURFACE ELEVATION NA		
13. DEPTH DRILLED INTO ROCK NA			10. DATE STARTED 14 SEPT 00		
14. TOTAL DEPTH OF HOLE NA			11. DATE COMPLETED 14 SEPT 00		
15. GEOTECHNICAL SAMPLES			19. TOTAL NUMBER OF CORE BOXES		
DISTURBED TOC, Grain Size		UNDISTURBED			
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY) Explosives	OTHER (SPECIFY) Propellants, Cu
22. DISPOSITION OF HOLE NA		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY NA
			23. SIGNATURE OF INSPECTOR Martha Clough (vib) 11-8-00		

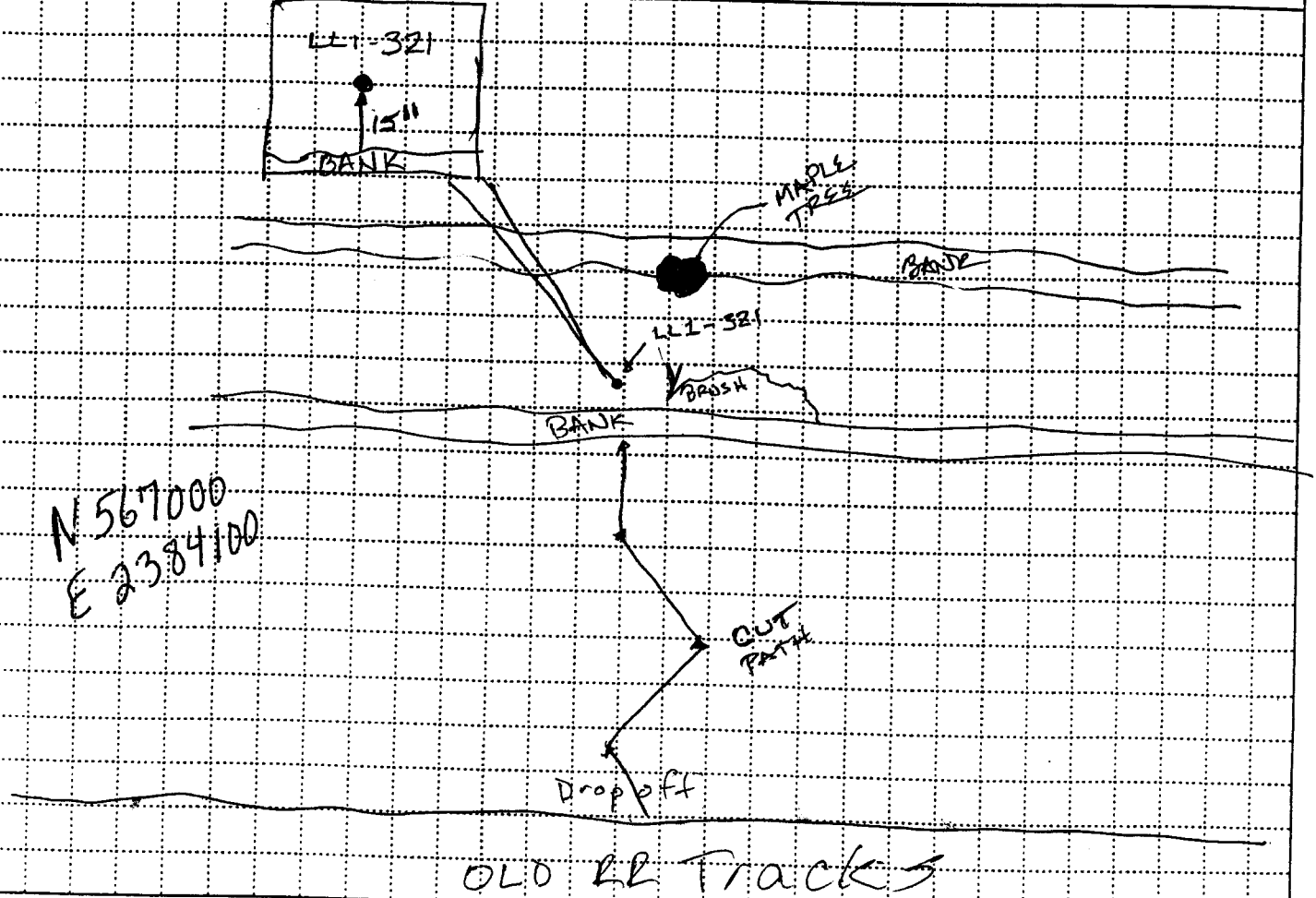
LOCATION SKETCH/COMMENTS: SCALE: Not to Scale



PROJECT RUAAP Load Line I Phase II RI		HOLE NO. LLI-320
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HTRW DRILLING LOG		DISTRICT <i>Louisville</i>		HOLE NUMBER <i>LLI-321</i>	
1 COMPANY NAME <i>SAIC</i>		2 DRILL SUBCONTRACTOR <i>NA</i>		SHEET SHEETS <i>1 of 1</i>	
3 PROJECT <i>RUAAP Phase II RI</i>			4 LOCATION <i>OFFSITE AOC STREAMS, 1st Round</i>		
5 NAME OF DRILLER <i>NA</i>			6 MANUFACTURERS DESIGNATION OF DRILL <i>NA</i>		
7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>SS Bowl and Spoon</i>			8 HOLE LOCATION		
			9 SURFACE ELEVATION <i>NA</i>		
			10. DATE STARTED <i>14 SEPT 00</i>		11. DATE COMPLETED <i>14 SEPT 00</i>
12 OVERBURDEN THICKNESS <i>NA</i>			15. DEPTH GROUNDWATER ENCOUNTERED		
13 DEPTH DRILLED INTO ROCK <i>NA</i>			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <i>NA</i>		
14 TOTAL DEPTH OF HOLE <i>NA</i>			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <i>Depth of water = 12 inches</i>		
18 GEOTECHNICAL SAMPLES		DISTURBED <i>TOC, Grain Size</i>	UNDISTURBED <i>φ</i>	19. TOTAL NUMBER OF CORE BOXES <i>NA</i>	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY) <i>Prop. Exp.</i>	OTHER (SPECIFY)
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY <i>NA</i>
				23. SIGNATURE OF INSPECTOR <i>Martha Clough (vjb)</i>	

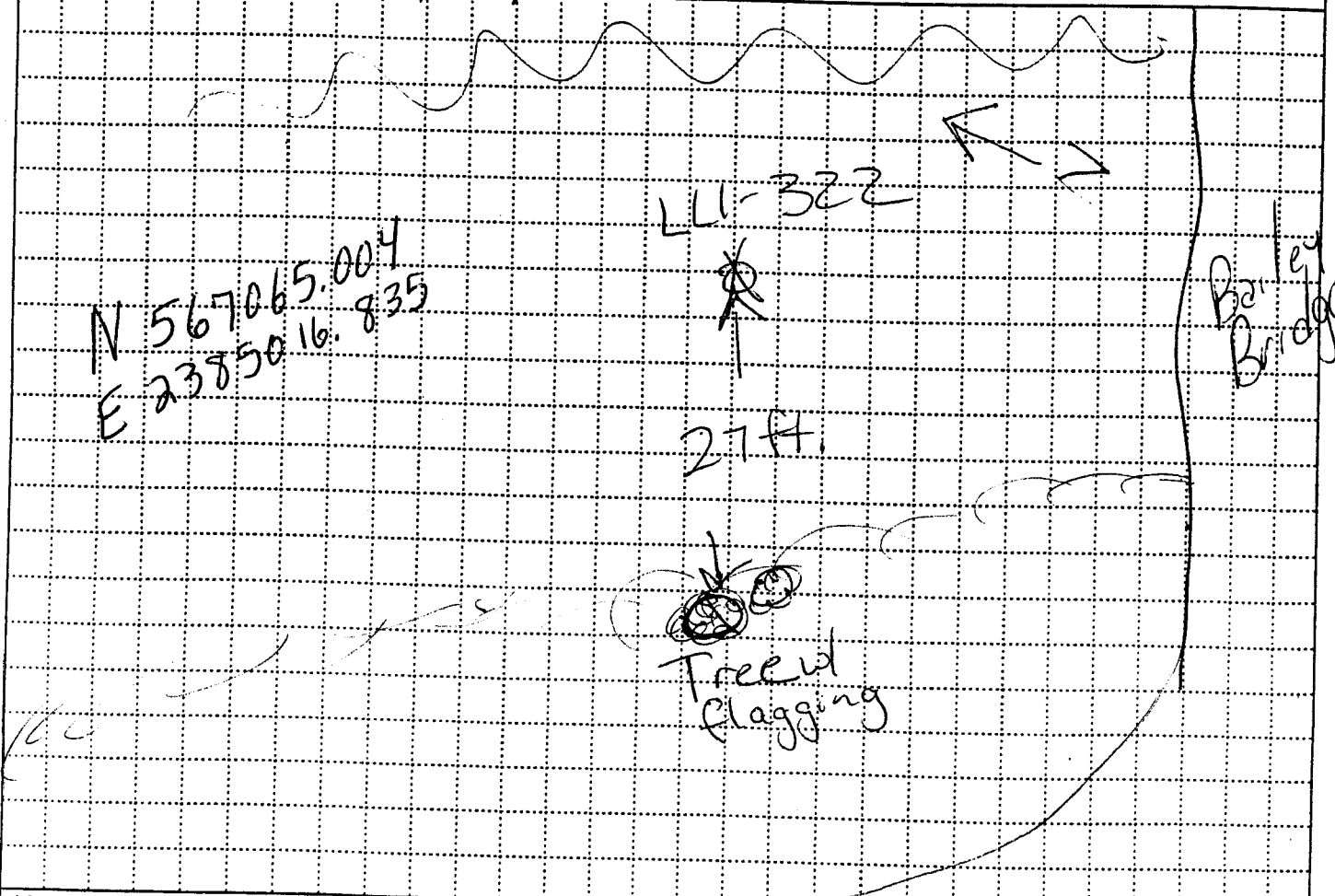
LOCATION SKETCH/COMMENTS : SCALE: *Not to Scale*



PROJECT <i>RUAAP LL-1 Phase II</i>	HOLE NO. <i>LLI-321</i>
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HTRW DRILLING LOG		DISTRICT Louisville		HOLE NUMBER LLI-322	
1 COMPANY NAME SAIC		2 DRILL SUBCONTRACTOR NA		SHEET SHEETS 1 OF 1	
3 PROJECT RVAAP			4 LOCATION RVAAP		
5 NAME OF DRILLER NA			6 MANUFACTURERS DESIGNATION OF DRILL NA		
7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 55 Hand Auger 55 Bowl and Spoon		8 HOLE LOCATION Bailey Bridge			
		9 SURFACE ELEVATION NA			
		10 DATE STARTED 13 SEPT 00		11 DATE COMPLETED 13 SEPT 00	
12 OVERBURDEN THICKNESS NA		15 DEPTH GROUNDWATER ENCOUNTERED NA			
13 DEPTH DRILLED INTO ROCK NA		16 DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED NA			
14 TOTAL DEPTH OF HOLE		17 OTHER WATER LEVEL MEASUREMENTS (SPECIFY) Depth of Water			
18 GEOTECHNICAL SAMPLES		DISTURBED TOC, Granite		UNDISTURBED	
20 SAMPLES FOR CHEMICAL ANALYSIS		vdc		METALS	
				OTHER (SPECIFY) Exp. Propellants CN	
22 DISPOSITION OF HOLE NA		BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY)	
				21 TOTAL CORE RECOVERY NA	
				23 SIGNATURE OF INSPECTOR Maurice Clough	

LOCATION SKETCH/COMMENTS: Bailey Bridge location
SCALE: Not to Scale



PROJECT RVAAP Load Line I Phase II RI	HOLE NO. LLI-322
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HTRW DRILLING LOG

DISTRICT: Louisville HOLE NUMBER: LLI-323
 1 COMPANY NAME: SAIC 2 DRILL SUBCONTRACTOR: NA SHEET 1 OF 1

3 PROJECT: Phase II RI 4 LOCATION: RVAAP

5 NAME OF DRILLER: NA 6 MANUFACTURERS DESIGNATION OF DRILL: NA

7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: SS Hand Auger
SS Bowl and Spoon 8 HOLE LOCATION: Parshal Flume

9 SURFACE ELEVATION: NA

10 DATE STARTED: 13 SEPT 00 11 DATE COMPLETED: 13 SEPT 00

12 OVERBURDEN THICKNESS: NA 15 DEPTH GROUNDWATER ENCOUNTERED: NA

13 DEPTH DRILLED INTO ROCK: NA 16 DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA

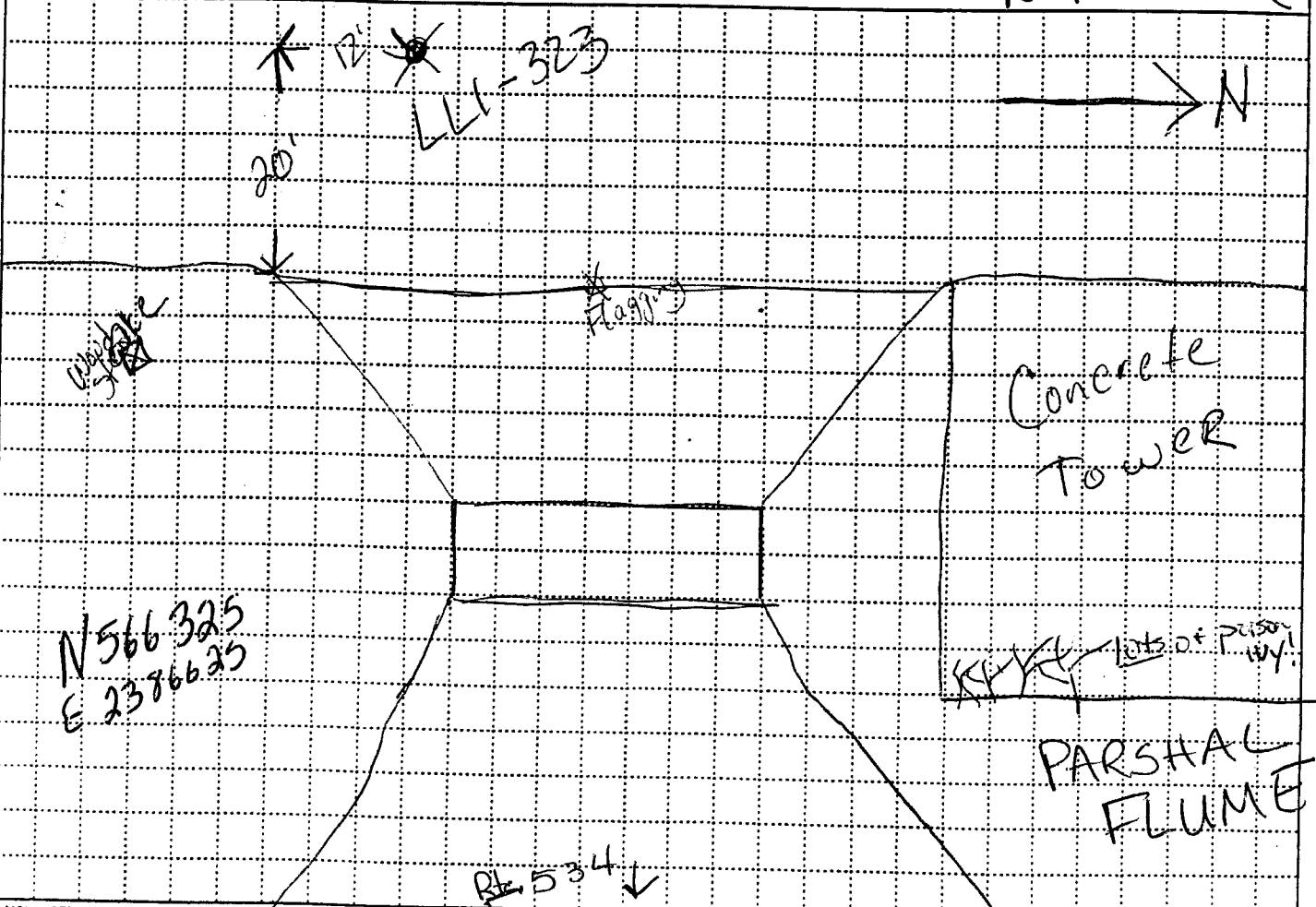
14 TOTAL DEPTH OF HOLE: 0.5' 17 OTHER WATER LEVEL MEASUREMENTS (SPECIFY): Depth of water

18 GEOTECHNICAL SAMPLES: DISTURBED Top Gr. Sbc UNDISTURBED: NA 19 TOTAL NUMBER OF CORE BOXES: NA

20 SAMPLES FOR CHEMICAL ANALYSIS: VOC: X METALS: X OTHER (SPECIFY): exp. OTHER (SPECIFY): prop. 21 TOTAL CORE RECOVERY: NA

22 DISPOSITION OF HOLE: NA BACK-FILLED: NA MONITORING WELL: NA OTHER (SPECIFY): NA 23 SIGNATURE OF INSPECTOR: Mauro & Clough

LOCATION SKETCH/COMMENTS: SCALE: Not to Scale



PROJECT: Phase II RI Load Line 1 - RVAAP HOLE NO.: LLI-323

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