

APPENDIX E
TEST PIT LOGS

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**APPENDIX E
TEST PIT LOGS**

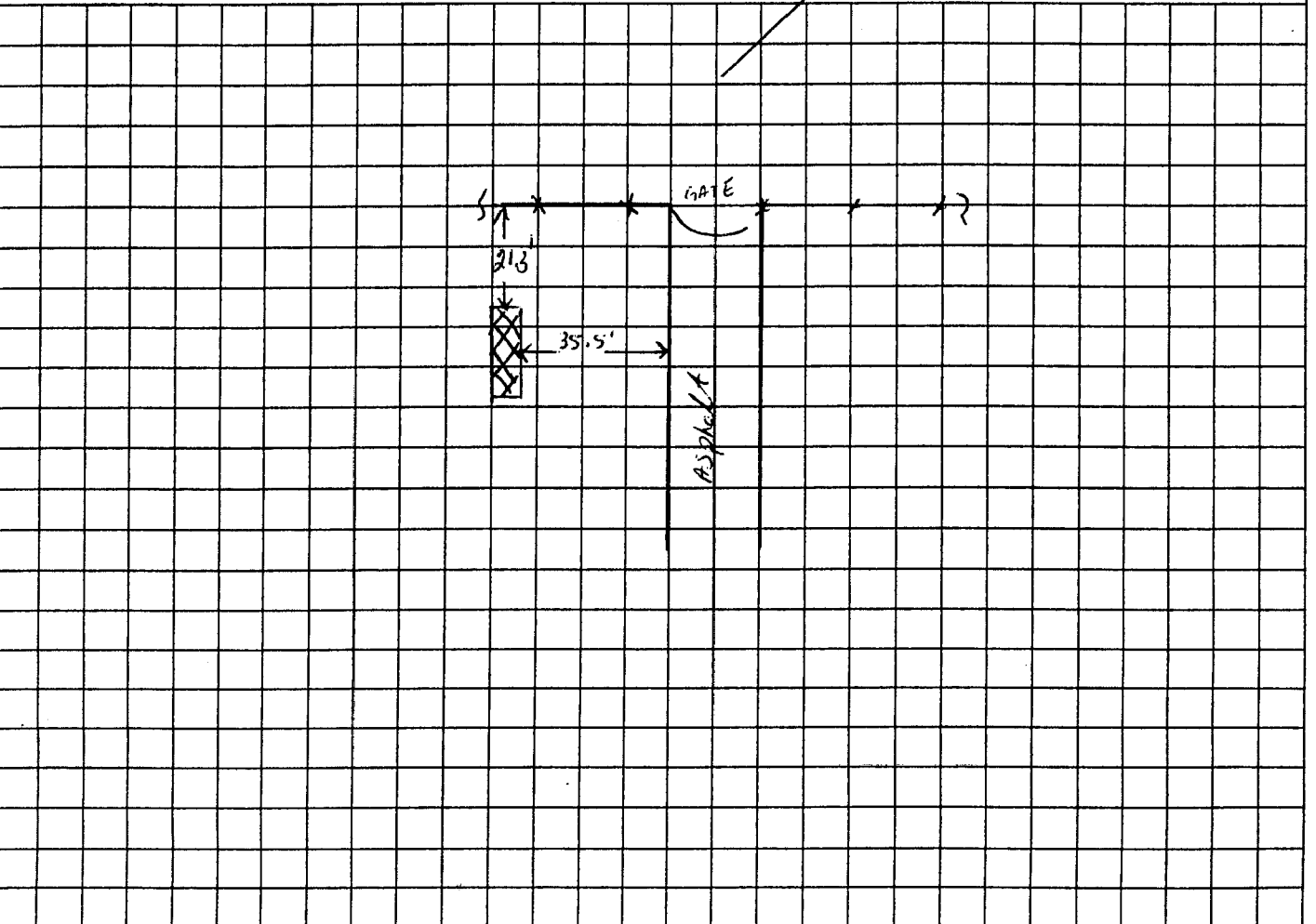
LL2-218	E-5
LL2-219	E-7
LL2-220	E-9
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LL2-222	E-13
LL2-223	E-15

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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL2-218 (TP-1)	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: LL2		
5. NAME OF DRILLER: James Benham		6. MANUFACTURERS DESIGNATION OF DRILL: Buckhoe case 580 L			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Buckhoe Bucket		8. HOLE LOCATION: See sketch below			
9. SURFACE ELEVATION:					
10. DATE STARTED: 08/20/01			11. DATE COMPLETED: 08/20/01		
12. OVERBURDEN THICKNESS: 6.1' bgs		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK: 2.4'		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE: 8.5' bgs		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES		③ DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES: N/A					
20. SAMPLES FOR CHEMICAL ANALYSIS: N/A		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
					21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE: (X)		BACKFILLED	MONITORING WELL	23. SIGNATURE OF INSPECTOR: [Signature]	

LOCATION SKETCH/COMMENTS

SCALE: Not To Scale



PROJECT: RVAAP, Load Line 2 Phase II RI	HOLE NUMBER LL2-218
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(TP-1)

HTRW DRILLING LOG

HOLE NUMBER **LL3-218**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *Jeffrey Lincoln*

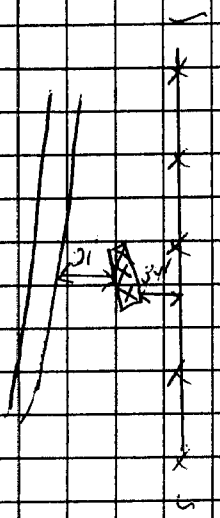
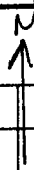
SHEET 1 OF 1

ELEV (A)	DEPTH (B) (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0	10 YR 5/1 gray clayey SILT, stiff, dry w/ 10 YR 4/3 brown mottling.				
	2		φ ppm	2.0' - 2.5' Sample # LL21066φ	LL21066φ	Moisture content analysis collected (2) Ziptex baggies. 114φ sample time. (Sample was archived. vjb 9/5/01)
	4	Dark gray 10 YR 4/1 SILT, + clay, greasy texture, stiff	φ ppm	4.5' - 5.0' Sample #	LL21059	moisture content analysis collected (2) Ziptex baggies Sample time: 1145 (Sample was archived. vjb 9/5/01)
	5	10 YR 4/3 Brown clayey SILT.	φ ppm	5.5' - 6.0'	LL21058	collected (2) Ziptex baggies Sample time: 1158 Analysis: MC, GS, PL, USCS, SS, PH. (Sample was archived.) vjb 9/5/01
	7	Brownish gray 5 YR 4/1 weathered SHALE, wet, soft, laminated				
	9	TO c 8.5 bgs		8/26/01 CC		Backhoe Refusal

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL2-219	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: LL2		
5. NAME OF DRILLER: James Benham			6. MANUFACTURERS DESIGNATION OF DRILL: Beckhoe Case 580 L		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: see sketch below			
Beckhoe Bucket		9. SURFACE ELEVATION:			
		10. DATE STARTED: 08/20/01		11. DATE COMPLETED: 08/20/01	
12. OVERBURDEN THICKNESS: 2.4 feet		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK: 0.6 feet		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE: 3.0 feet		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES		② DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
N/A				OTHER (SPECIFY)	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		(*)		OTHER (SPECIFY)	
			19. TOTAL NUMBER OF CORE BOXES: N/A		
			21. TOTAL CORE RECOVERY %		
			23. SIGNATURE OF INSPECTOR: [Signature]		

LOCATION SKETCH/COMMENTS

SCALE: Not To Scale



HTRW DRILLING LOG

HOLE NUMBER **LL2-29**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR

Jeffrey Lindem

SHEET 1 OF 1

ELEV (A)	DEPTH (B) (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0	10YR 5/4, yellowish brown, <u>SILT</u> , dry, loose		0.5-1.0'	LL21061	Sample time: 1445 MC Sample archived vjb 9/5/01
	1					
	2	10YR 5/1, Gray clayey <u>SILT</u> , w/ yellowish brown (10YR 5/6) mottling, stiff.		1.7-2.0'	LL21062	Sample time: 1440. collected (2) Ziploc bags. for full suite of geotech analyses - vjb Sample archived. 9/5/01
	3	Medium yellowish brown, 10YR 5/4 weathered <u>SHALE</u> ; massive manganese staining. friable, laminated				Backhoe Refused
	4	TD @ 3' bgs.				
	5					
	6					
	7					
	8					
	9					
	10					

8/26/01 CC

PROJECT: RVAAP, Load Line 2 Phase II RI

E-8

HOLE NUMBER **LL2-219**

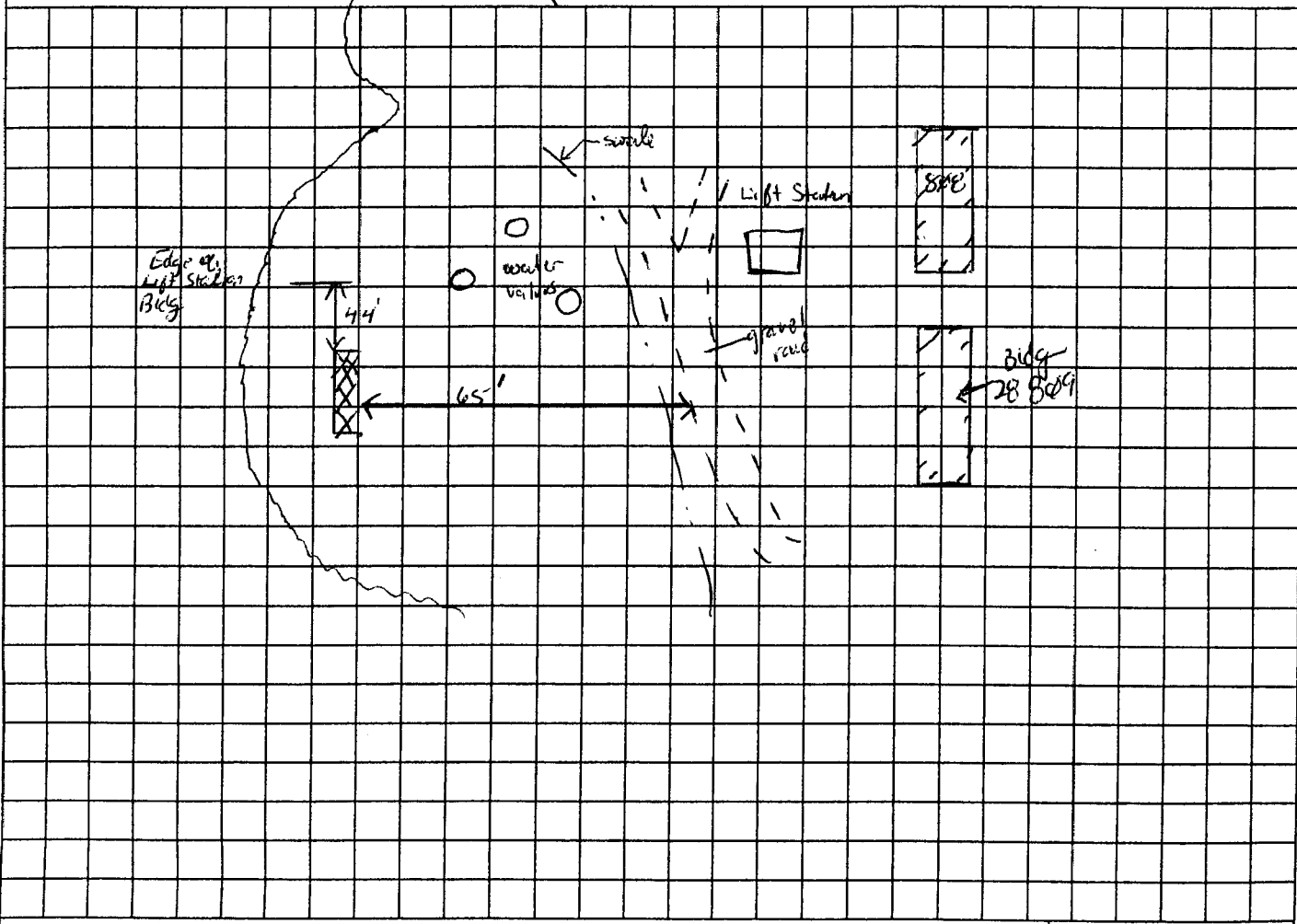
(TD-2)

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER LL2-220 (TP-3)	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering			SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI				4. LOCATION: LL2		
5. NAME OF DRILLER: James Benham		6. MANUFACTURERS DESIGNATION OF DRILL: Backhoe Case 580L				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Backhoe Bucket		8. HOLE LOCATION: See sketch below				
9. SURFACE ELEVATION:						
10. DATE STARTED: 08/26/01			11. DATE COMPLETED: 08/26/01			
12. OVERBURDEN THICKNESS: 5 feet			15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK: 0.7'			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE: 5.7' bgs			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES		(3) DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES: N/A
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)
N/A						21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE		(X) BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	

LOCATION SKETCH/COMMENTS



SCALE: **Not to Scale**




HTRW DRILLING LOG

HOLE NUMBER **LL2-226**

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR *Jeffrey London*

SHEET 1 OF 1

ELEV (A)	DEPTH (B) (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0	104R 514, yellowish brown, <u>SILT</u> + clay, dry. + bldr				
	1		0 ppm	1'-1.5'	LL210664	sample time: 1405 collected (2) ziploc bags full suite geotech vjb 9/5/01
	2	104R 312, very dark grayish brown, <u>SILT</u> , dry, w/ manganese nodules	0 ppm	2-2.5'	LL210665	sample time: 1352 MC, GS, AL, USCS, SG PH collected (2) ziploc bags
	3					
	4		0 ppm	4-4.5'	LL210666	sample time: 1402 moisture content & collected (2) ziploc bags full suite geotech vjb 9/5/01
	5	Medium gray (NS) to medium light gray (NG) weathered <u>SHALE</u> . Friable, wet, laminated w/ many nodules.				Hard @ 5.7' - Buckhoe Refusal
	6	5.7' TD				
	7					
	8					
	9					
	10					

8/26/01 CC

HTRW DRILLING LOG		DISTRICT: Louisville	HOLE NUMBER LL2-221(704)
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering	SHEET 1 OF 1

3. PROJECT: RVAAP, Load Line 2 Phase II RI	4. LOCATION: LL2
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5. NAME OF DRILLER: James Benham	6. MANUFACTURERS DESIGNATION OF DRILL: Buckhoe Case 580 L
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7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Buckhoe Bucket	8. HOLE LOCATION: See sketch below
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9. SURFACE ELEVATION:	
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10. DATE STARTED: 08/20/01	11. DATE COMPLETED: 08/20/01
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12. OVERBURDEN THICKNESS: 4.5'	15. DEPTH GROUNDWATER ENCOUNTERED: N/A
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13. DEPTH DRILLED INTO ROCK: 1.5'	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
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14. TOTAL DEPTH OF HOLE: 6'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A
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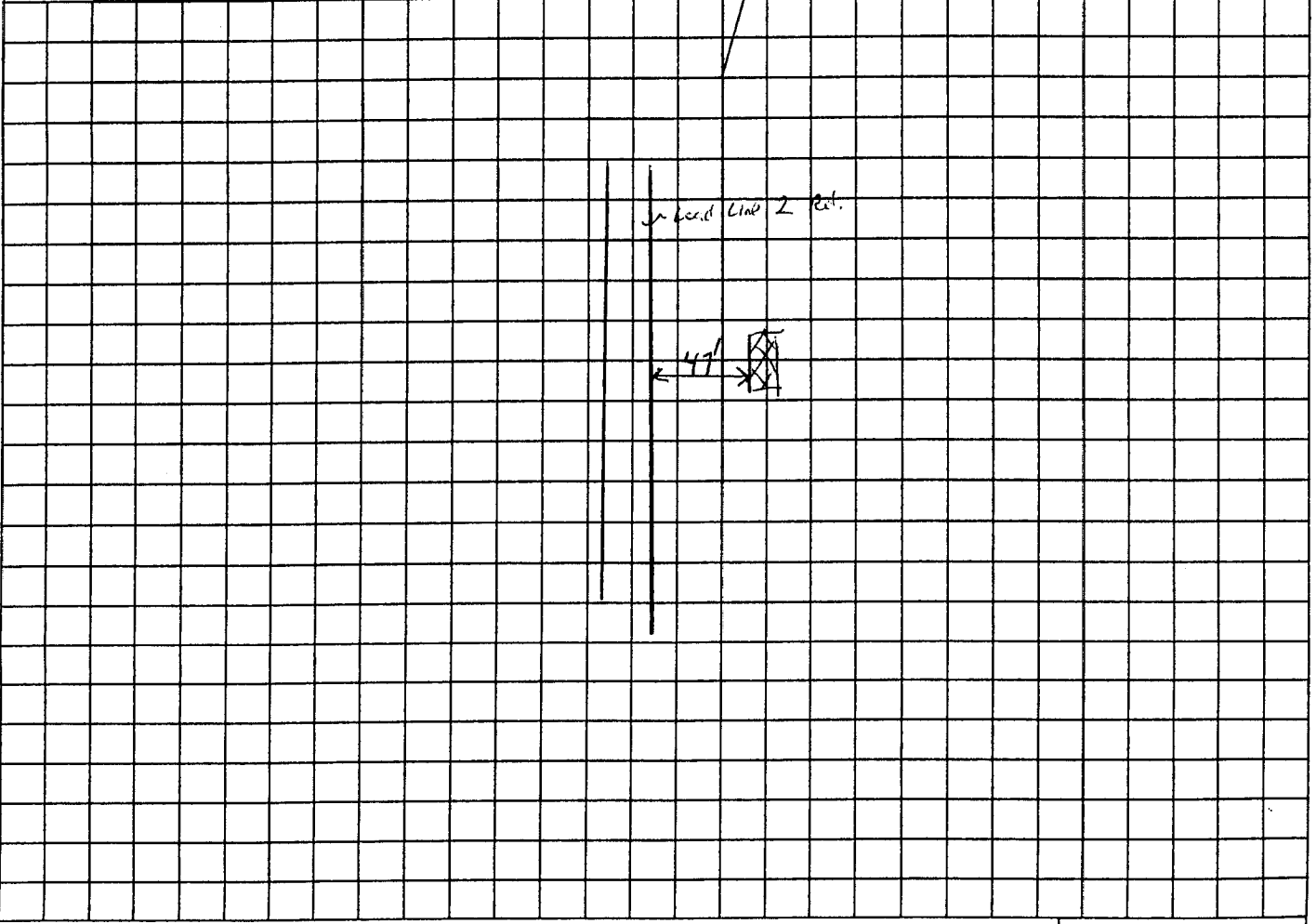
18. GEOTECHNICAL SAMPLES: (2) DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: N/A
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20. SAMPLES FOR CHEMICAL ANALYSIS: N/A	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
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22. DISPOSITION OF HOLE: (2) BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR: [Signature]
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LOCATION SKETCH/COMMENTS

SCALE: Not To Scale



PROJECT: RVAAP, Load Line 2 Phase II RI	HOLE NUMBER LL2-221(704)
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HTRW DRILLING LOG

HOLE NUMBER **LL2-221**

PROJECT: RVAAP, Load Line 2 Phase II RI

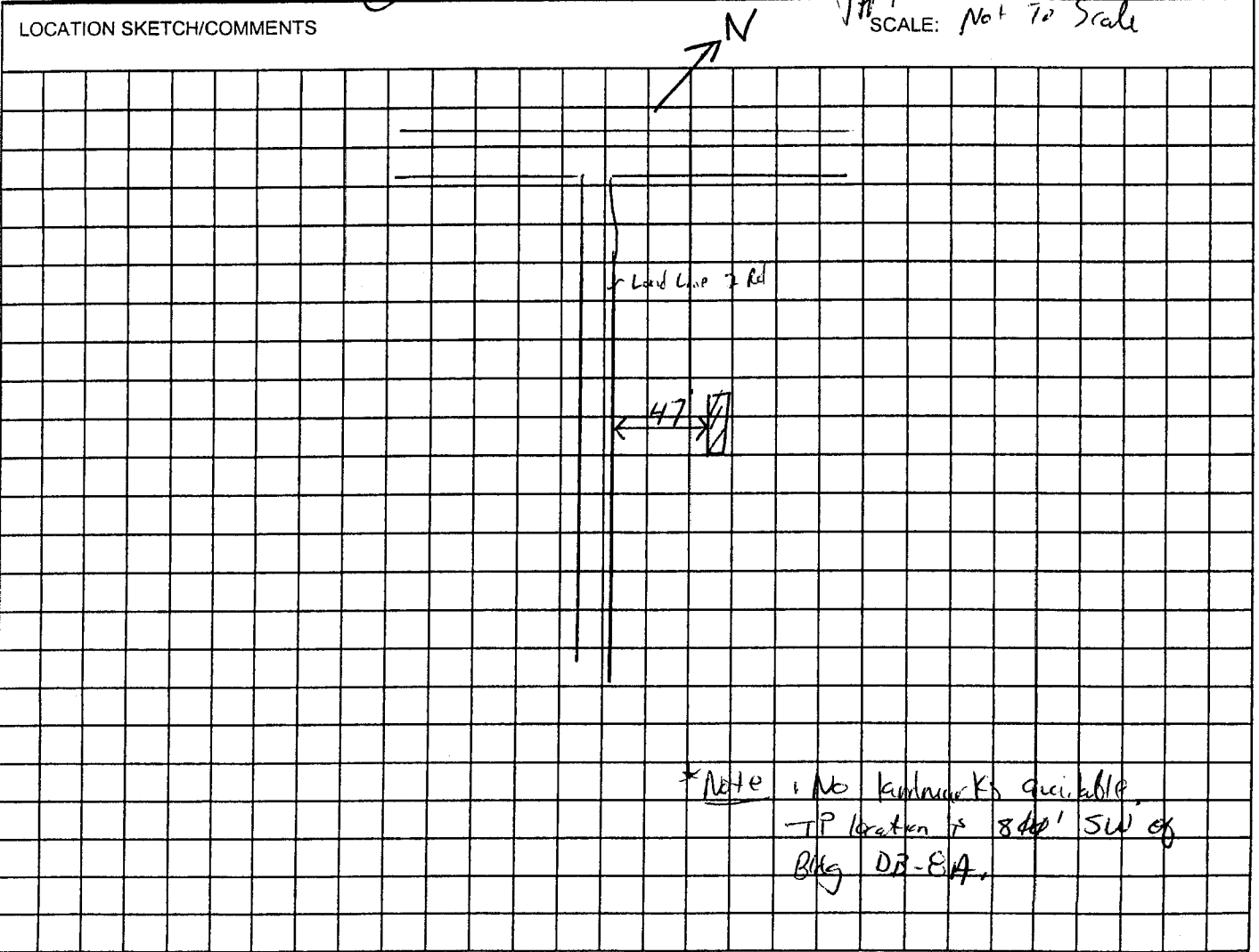
INSPECTOR *Jeffrey Linden*

SHEET 1 OF 1

ELEV (A)	DEPTH (B) (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0	1042.5 ft, yellowish brown, <u>SILT</u> , dry, loose				
	1	1042.5 ft, Gray silty <u>CLAY</u> , low plasticity, mottled, silty, Abund. of roots, desiccated				
	2		16 ppm	2.5'	LL21068	sample time: 1515 MAC sample archived 9/5/01 vjb
	3					
	4	1042.4 ft, dark grayish brown silty <u>CLAY</u>	0 ppm	4'-4.5'	LL21067	sample time: 1530 full grab site sample archived 9/5/01 vjb
	5	Moderate yellowish brown weathered <u>SHALE</u> w/ iron s. concretions stems				
	6					Backhoe Refused
	7	TD @ 6' bgs				
	8					
	9					
	10					

8/26/01 CC

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL2-222 (TP-5)	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering		SHEET 1 of 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: LL2		
5. NAME OF DRILLER: James Benham			6. MANUFACTURERS DESIGNATION OF DRILL: Buckhee Case 58PL		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: See sketch below			
Buckhee Bucket		9. SURFACE ELEVATION:			
		10. DATE STARTED: 02/20/01		11. DATE COMPLETED: 02/26/01	
12. OVERBURDEN THICKNESS: 4.9'		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK: \emptyset		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE: 4.9'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES		② DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES: N/A		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY %	
NA		VOC		METALS	
		OTHER (SPECIFY)		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		②		OTHER (SPECIFY)	
				23. SIGNATURE OF INSPECTOR	



PROJECT: RVAAP, Load Line 2 Phase II RI	HOLE NUMBER: LL2-222
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HTRW DRILLING LOG

HOLE NUMBER **LL2-222** (173)

PROJECT: RVAAP, Load Line 2 Phase II RI

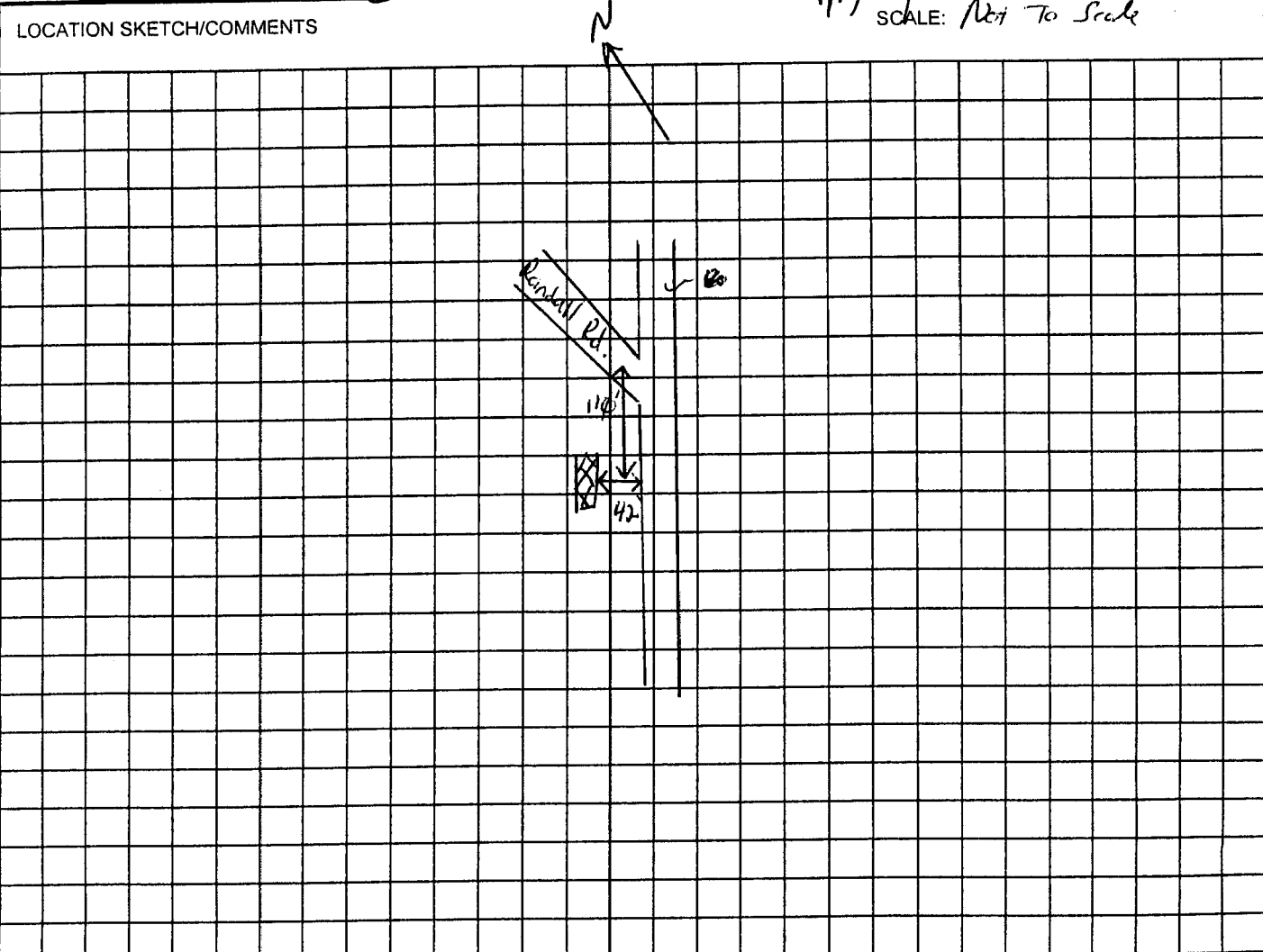
INSPECTOR *Jeffrey London*

SHEET / OF 1

ELEV (A)	DEPTH (B) (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0					
	1					
	2	Gray silty CLAY, absence of roots, veg. stuff, v. sh. sh.	Ø ppm	1.6'-2.2' 1.6'-2.2'	LL21070	Sample time: 1555 ME y/b 9/5/01 not sent for analysis, rather archived
	3	10BYR 4/2, Dark grayish brown, clayey SILT, manganese staining.				
	4		Ø ppm	3.5'-4.2'	LL21071	Sample time: 1610 full geotech suite y/b 9/5/01 not sent for analysis, rather archived
	5	4.9' = Pale yellowish brown (10BYR 6/2) SANDSTONE, hard, competent.				Backhoe Refused
	5	TDE 4.9' bgs.				
	6					
	7					
	8					
	9					
	10					

8/26/01 CC

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL2-223	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 2 Phase II RI			4. LOCATION: LL2		
5. NAME OF DRILLER: James Benham			6. MANUFACTURERS DESIGNATION OF DRILL: ^{Backhoe} Case SB6L		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: see sketch below			
Backhoe Bucket		9. SURFACE ELEVATION:			
		10. DATE STARTED: 08/20/01		11. DATE COMPLETED: 08/20/01	
12. OVERBURDEN THICKNESS > 10'		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK ϕ		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE 10'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES		③ DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES N/A		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY %	
NA		VOC		METALS	
		OTHER (SPECIFY)		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE		BACKFILLED (X)		MONITORING WELL	
		OTHER (SPECIFY)		23. SIGNATURE OF INSPECTOR	



HTRW DRILLING LOG

HOLE NUMBER LL9-223

PROJECT: RVAAP, Load Line 2 Phase II RI

INSPECTOR Jelley Linden

SHEET 1 OF 1

ELEV (A)	DEPTH (B) (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0	Dark grayish brown clayey <u>SILT</u> . Some roots				
	1					
	2					
	3		φ ppm	0.8' - 3.2'	LL21φ74	Sample time: 1635 ATC full geotech suite vjb g/s/01 - grain size - moisture content - Atterberg limits - USCS classification - specific gravity - pH
	4					
	5					
	6					
	7					
	8	10YR 5/1 yellowish brown fine-grained <u>SAND</u> , +. Gut., Some v. of sand.	φ ppm	7.3 - 7.6'	LL21φ73	Sample time: 1647 full geotech suite ✓
	9	2.5Y 4/1 dark gray <u>CLAY</u> , lean silty + (SAND)	18 ppm	9.0'	LL21φ75	Sample time: 1655 ATC full geotech suite vjb g/s/01
	10	TD c 10' by 3				Beckhoe could not dig deeper.