

APPENDIX E
TEST PIT LOGS

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**APPENDIX E
TEST PIT LOGS**

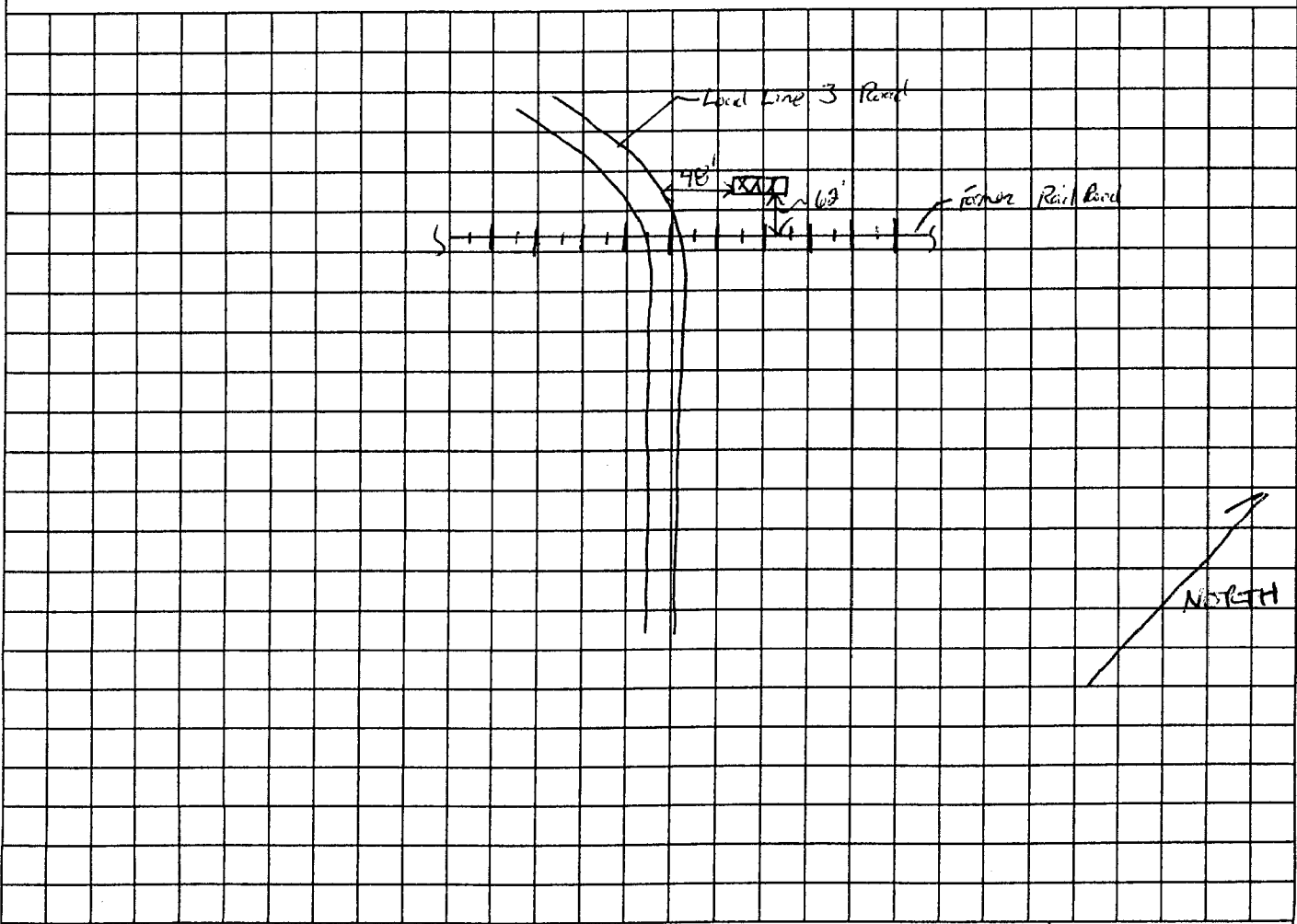
LL3-200 E-5
LL3-201 E-8
LL3-202 E-11
LL3-203 E-13
LL3-204 E-15
LL3-205 E-17

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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL3 200	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3		
5. NAME OF DRILLER: James Benham			6. MANUFACTURERS DESIGNATION OF DRILL: Backhoe Case 580L		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: See sketch below			
Backhoe Bucket		9. SURFACE ELEVATION:			
		10. DATE STARTED: 08/21/01		11. DATE COMPLETED: 08/21/01	
12. OVERBURDEN THICKNESS > 12.6'		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 12.6'		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	
N/A				OTHER (SPECIFY)	
21. TOTAL CORE RECOVERY %					
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		(R)		OTHER (SPECIFY)	
				23. SIGNATURE OF INSPECTOR	

LOCATION SKETCH/COMMENTS

SCALE: Not To Scale



HTRW DRILLING LOG

HOLE NUMBER **LL3-200**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **Jeffrey London**

SHEET 1 OF 2

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 0/4, light yellowish brown, SILT, dry, crumbly		0.6-1.1	LL31026	sample time: 1010 sample archived vjb 9/5/01
	1					
	2	104R 4/1, dark gray SILT, + clay, stiff, abund. root, dry				
	3			3.3'-4.0'	LL31027	sample time: 1015 sample archived vjb 9/5/01
	4					
	5					
	6					
	7					
	8	104R 5/1, gray silty CLAY, stiff, some gravel.		7.3'-7.6'	LL31028	sample time: 1035 sample archived 9/5/01
	9					
	10					

PROJECT: RVAAP, Load Line 3 Phase II RI

E-6

HOLE NUMBER **LL3-200**

APP-1)


HTRW DRILLING LOG

HOLE NUMBER LL3-204

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR Jeffrey Lindsay

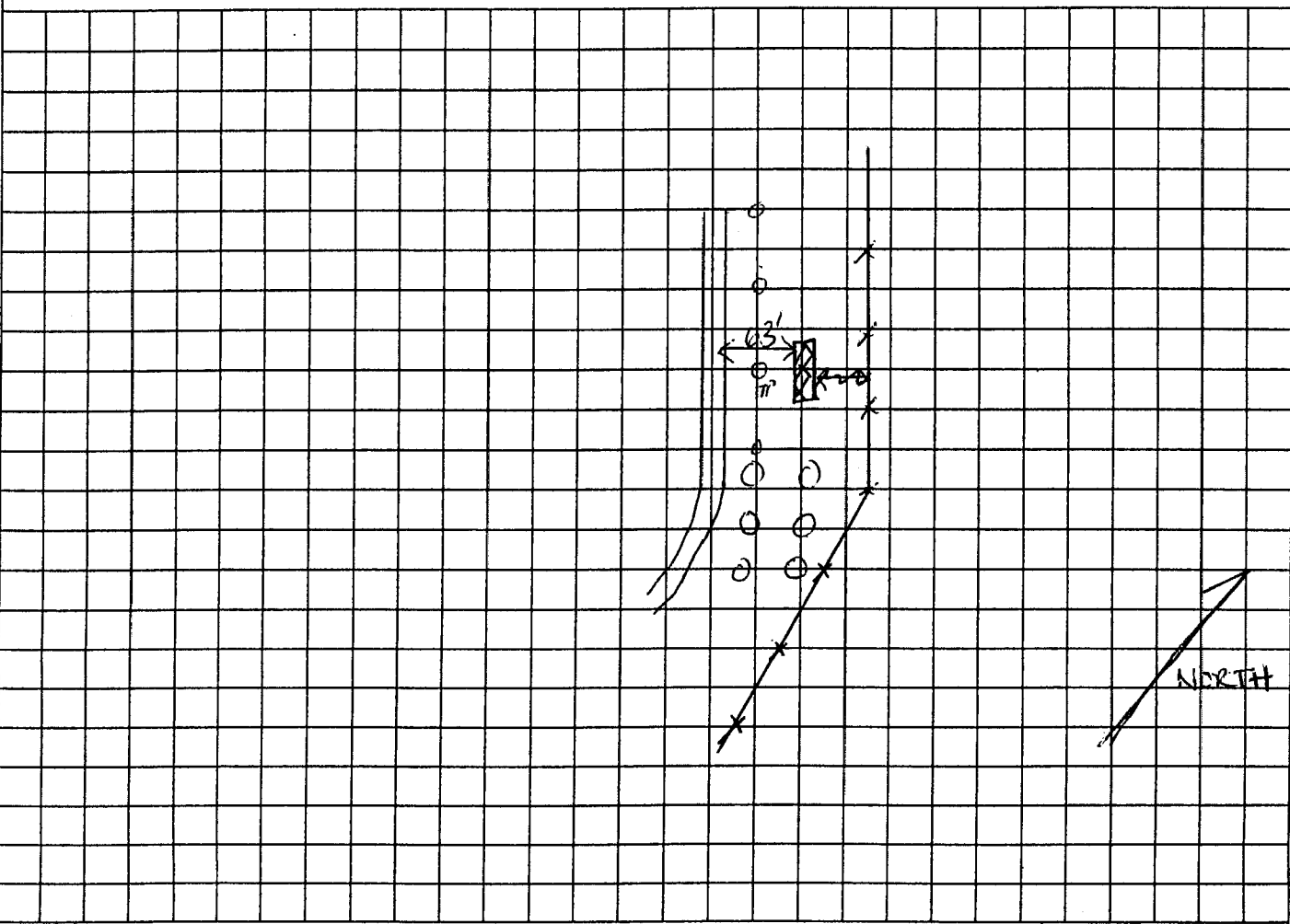
SHEET 2 OF 2

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<p>16</p> <p>14</p> <p>11</p> <p>12</p>	<p>red & R 5/1 Gray silty <u>CLAY</u>, stiff, some gul</p> 				<p>Backhoe could not excavate any deeper. Limit of reach.</p>
	<p>13</p>	<p>TO E 12.6'</p>				<p>No bedrock encountered.</p>
<p style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;">gml 08/26/01</p>						

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL3-201	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3		
5. NAME OF DRILLER: James Benham			6. MANUFACTURERS DESIGNATION OF DRILL: Backhoe Case 580 L		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: See sketch below			
Backhoe Bucket		9. SURFACE ELEVATION:			
		10. DATE STARTED: 08/21/01		11. DATE COMPLETED: 08/21/01	
12. OVERBURDEN THICKNESS 7.3'		15. DEPTH GROUNDWATER ENCOUNTERED: x 10' bgs			
13. DEPTH DRILLED INTO ROCK 3.6'		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE 10.9'		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		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
N/A					
21. TOTAL CORE RECOVERY %					
22. DISPOSITION OF HOLE		(X) BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	
				23. SIGNATURE OF INSPECTOR	
				[Signature]	

LOCATION SKETCH/COMMENTS

SCALE: Not To Scale



HTRW DRILLING LOG

(TR-2)
HOLE NUMBER **LL3-261**

27

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *John L. Linder*

SHEET 1 OF 2

ELEV (A)	DEPTH (B) (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0	104R 1/2 Dark grayish brown <u>SILT</u> ,				
	1	104R 5/4 Yellowish brown <u>SILT</u> , t. sand, dry				
	2	104R 1/2, Dark grayish brown STH <u>SILT</u> , t. gvl, dry, abnd. manganese staining.		2.1' - 2.8'	LL31029	Sample time: 1335 Sample archived 9/5/01 vjb
	3					
	4					
	5					
	6					
	7					
	8	Weathered shale/sandstone, wet in a clay matrix		7.3'	LL31034	Sample time: 1400 Sample archived 9/5/01 vjb
	9					
	10	v. wet/saturated @ 10'				

10

HTRW DRILLING LOG

HOLE NUMBER **LL3-201** 36

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **Jeffrey Linden**

SHEET **2** OF **2**

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					
	3					
	4					
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	6					
	7					
	8					
	9					
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	99					
	100					

Brown SANDSTONE BEDROCK

Backhoe Refused @ 14.9'

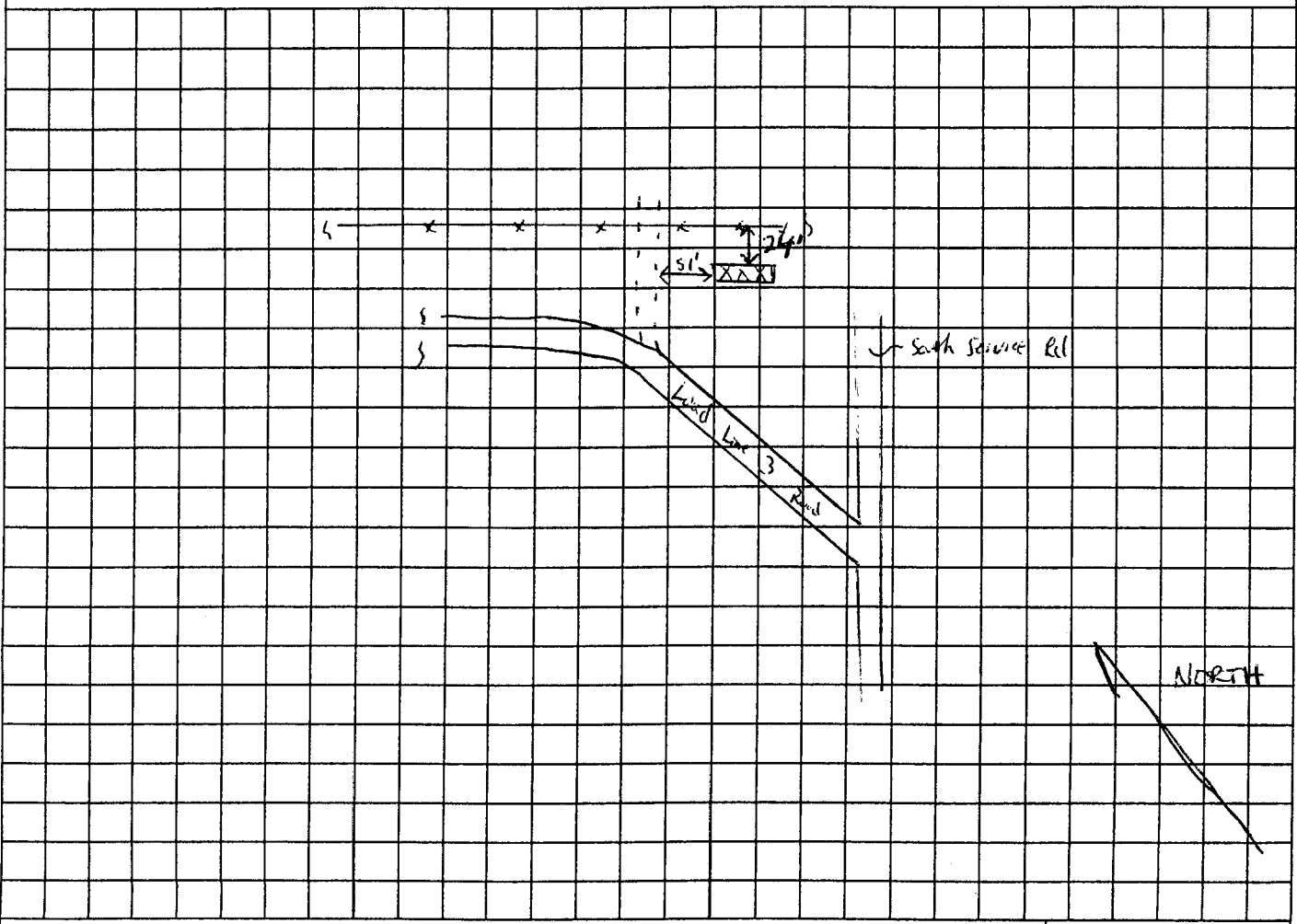
TDC 1φ.9 bgs

Done 08/26/01

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL3-202	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3		
5. NAME OF DRILLER: James Benham			6. MANUFACTURERS DESIGNATION OF DRILL: ^{Rockhoe} Case 580L		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Rockhoe Bucket		8. HOLE LOCATION: see sketch below			
9. SURFACE ELEVATION:					
			10. DATE STARTED: 08/21/01		11. DATE COMPLETED: 08/21/01
12. OVERBURDEN THICKNESS 4.4'			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 4.4'			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A		
18. GEOTECHNICAL SAMPLES		① DISTURBED	UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES N/A
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
N/A					21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		ⓧ			<i>[Signature]</i>

LOCATION SKETCH/COMMENTS

SCALE: Not To Scale



HTRW DRILLING LOG

HOLE NUMBER **LL3-202**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **Jeffrey Unlan**

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	TOP 5/3, Brown SILT, loose, dry				
	1	10YR 3/1, very dark gray silty CLAY, lean, stiff. some sandstone bgs		1.7'-2.2'	LL31034	Sample time: 0800 Sample archived 9/5/01 vjb
	2					
	3	e 2.4' increasing pale yellowish brown (10YR 4/2) sandstone w/in a silt/clay matrix				
	4	sandstone competent bedrock e 4.4' bgs				Backhoe Refused
	5	TD e 4.4' bgs				
	6					
	7					
	8					
	9					
	10					

9/11/01 08/20/01

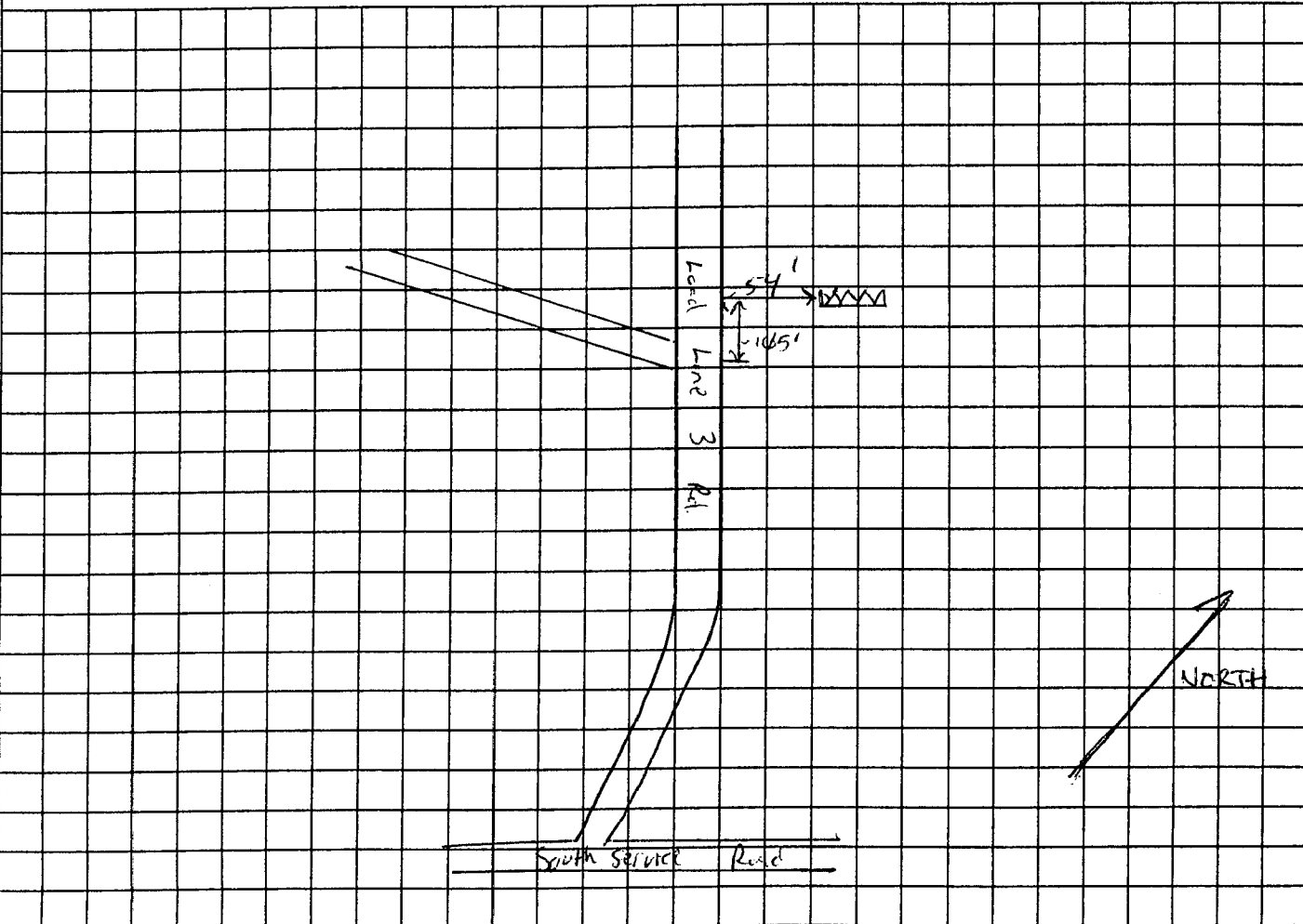
(TP-4)

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL3-263	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3		
5. NAME OF DRILLER: James Benham			6. MANUFACTURERS DESIGNATION OF DRILL: Backhoe Case 580L		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: see sketch below			
Backhoe Bucket		9. SURFACE ELEVATION:			
		10. DATE STARTED: 08/21/01		11. DATE COMPLETED: 08/21/01	
12. OVERBURDEN THICKNESS 4'		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK 0		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE 4'		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		VOC		METALS	
N/A				OTHER (SPECIFY)	
21. TOTAL CORE RECOVERY %					
22. DISPOSITION OF HOLE		BACKFILLED (2)		MONITORING WELL	
				OTHER (SPECIFY)	
		23. SIGNATURE OF INSPECTOR			

[Handwritten Signature]

SCALE: Not To Scale

LOCATION SKETCH/COMMENTS



PROJECT: RVAAP, Load Line 3 Phase II RI	HOLE NUMBER LL3-263
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HTRW DRILLING LOG

HOLE NUMBER **LL3-203**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **Jeffrey Lindau**

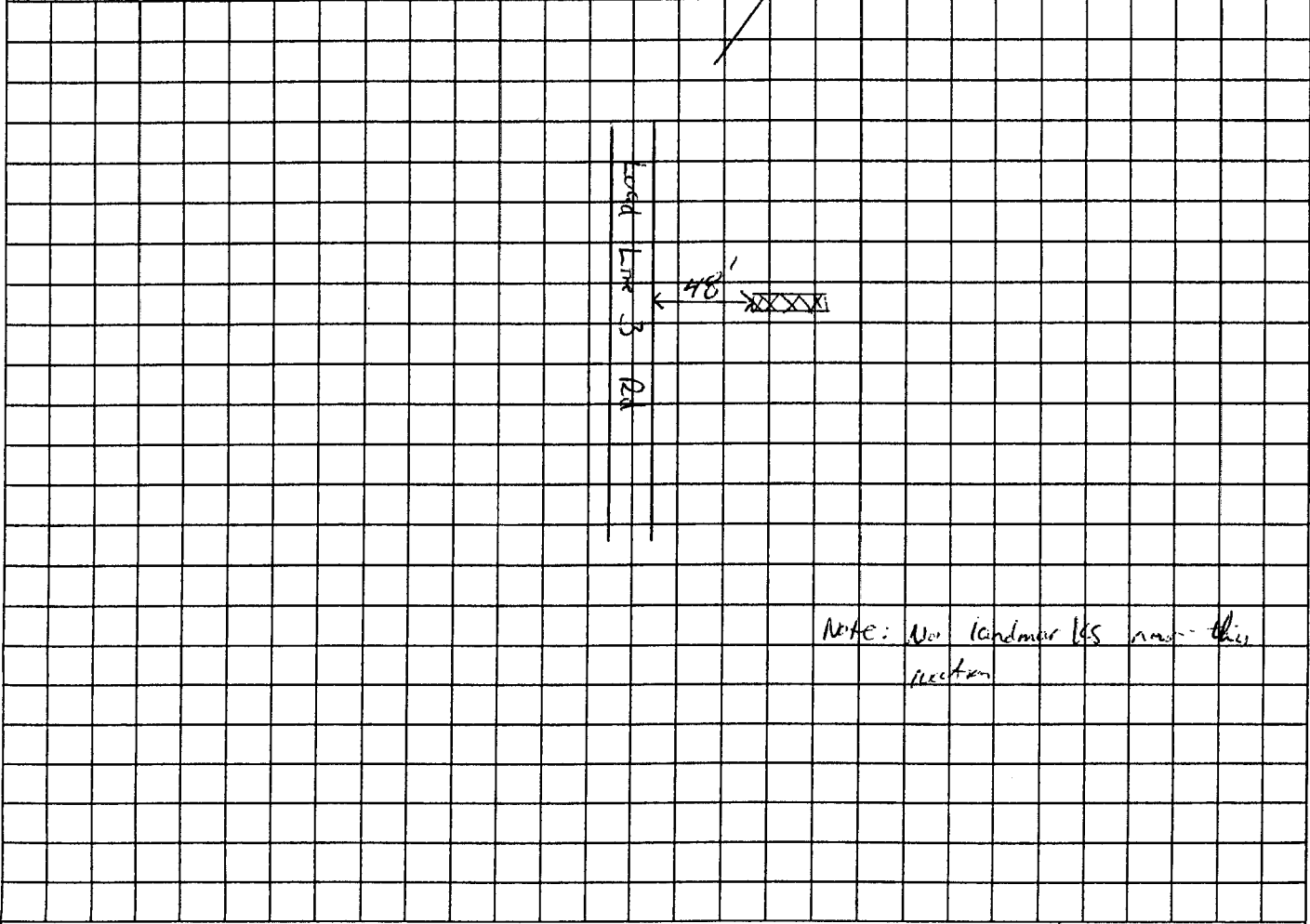
SHEET 1 OF 1

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 5/3, Brown. <u>SILT</u> , abund. roots, dry, crumbly.				
	1	104R 5/1, gray <u>SILT</u> , w/ manganese mottling, and 104R 4/3, Brown clayey <u>SILT</u> , some roots in top 0.5' of soil.				
	2	104R 5/4, yellowish brown v. <u>SAND</u> , moist w/ 7.54R 7/1 light gray v. <u>SAND</u> .		1.8-2.4'	LL31035	Sample time: 0840 ↓ both samples sent for full-suite geotechnical - grain size - moisture content - Atterberg limits - USCS classification - specific gravity - pH w/ b/s/0
	3	104R 4/4, dark yellowish brown, <u>SILT</u> , t. clay, abund manganese staining, stiff, t. fine gr. s.		3.5'	LL31036	Sample time: 0850
	4	SANDSTONE BEDROCK @ 4'				Backhoe refusal
	4	TD @ 4' bgs				
	5					
	6					
	7					
	8					
	9					
	10					

JPL 08/26/01

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL3-204	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3		
5. NAME OF DRILLER: James Benham		6. MANUFACTURERS DESIGNATION OF DRILL: Backhoe Case 580L			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: see sketch below			
Backhoe Bucket		9. SURFACE ELEVATION:			
		10. DATE STARTED: 08/21/01		11. DATE COMPLETED: 08/21/01	
12. OVERBURDEN THICKNESS 3.7'		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
13. DEPTH DRILLED INTO ROCK 4.3'		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE 8'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES		① DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES		N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
N/A				OTHER (SPECIFY)	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		②		OTHER (SPECIFY)	
		23. SIGNATURE OF INSPECTOR			

LOCATION SKETCH/COMMENTS SCALE: Not To Scale



177-51 14

HTRW DRILLING LOG

HOLE NUMBER LL3-204

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR Jeffrey Lindau

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 5/3, Brown SILT, dry, abundant roots, crumbly, blocky appearance				
	1	104R 4/4 Dark yellowish brown SILT, manganese staining, stiff				
	2			0.4-2.5'	8/21/01 LLB1038 LLS1439	sample time: 0900 - sample archived yjb 9/5/01
	3					
	4	medium dark gray (N4) weathered SHALE, laminated, non-clined				
	5					
	6					
	7					
	8	competent source bedrock				Backhoe Refusal
	9	TD @ 8'				
	10					

PROJECT: RVAAP, Load Line 3 Phase II RI

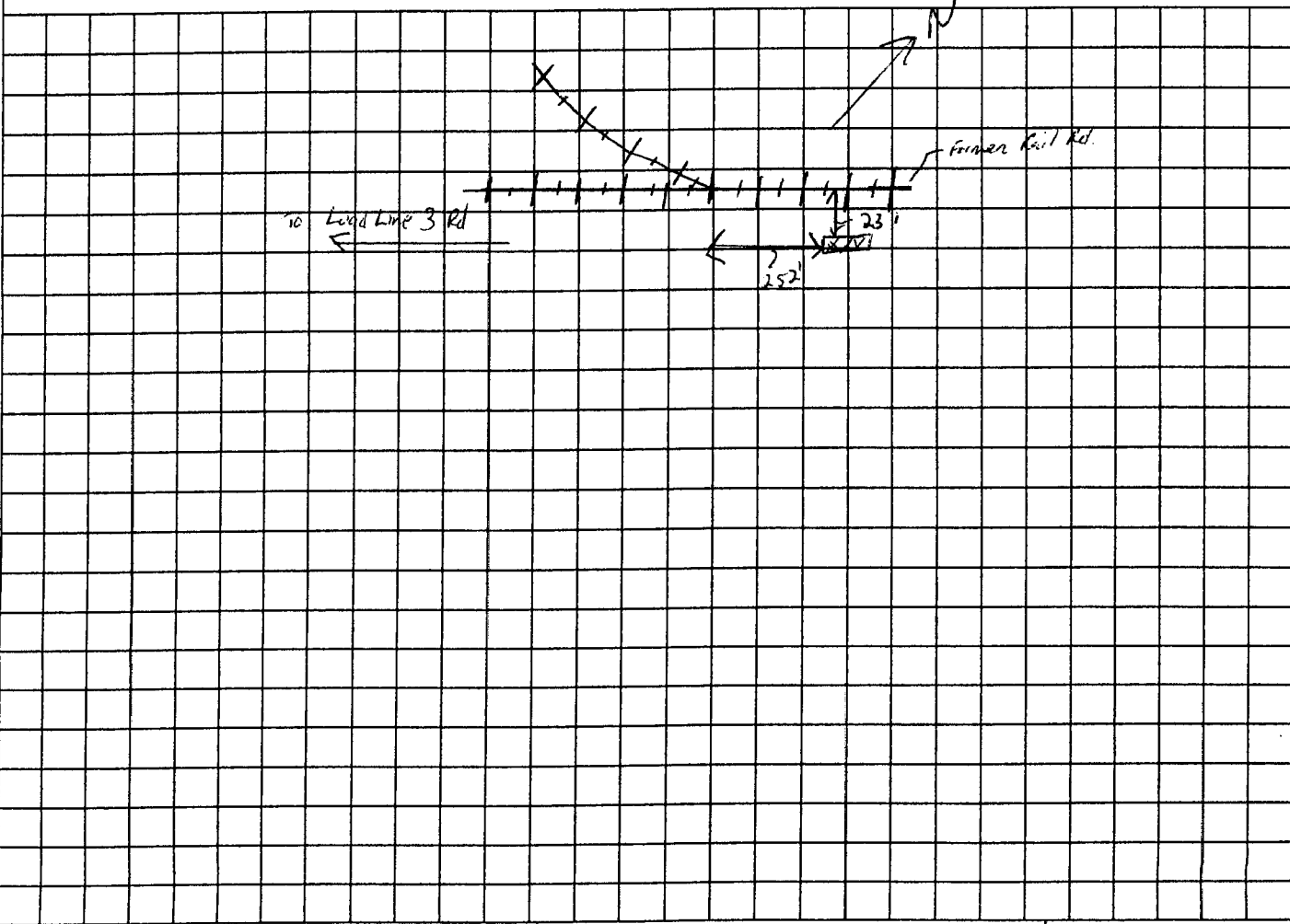
HOLE NUMBER LL3-204

177-51

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL3-205	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3		
5. NAME OF DRILLER: James Benham			6. MANUFACTURERS DESIGNATION OF DRILL: ^{Beech} Case 580 L		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		Beech Bucket		8. HOLE LOCATION: see sketch below	
9. SURFACE ELEVATION:					
10. DATE STARTED: 08/21/01			11. DATE COMPLETED: 08/21/01		
12. OVERBURDEN THICKNESS > 11.4'			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 11.4'			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A		
18. GEOTECHNICAL SAMPLES		② DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
N/A					
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		ⓔ			
				19. TOTAL NUMBER OF CORE BOXES N/A	
				21. TOTAL CORE RECOVERY %	
				23. SIGNATURE OF INSPECTOR	
				J. YL	

LOCATION SKETCH/COMMENTS

SCALE: Not to Scale



HTRW DRILLING LOG

HOLE NUMBER LL3-205 (110) 24

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR Jeffrey Linden

SHEET 1 OF 2

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0	1042 5/3, Brown SILT, dry, large				
	1	1042 4/4 Dark yellowish brown SILT, some manganese staining, concrete head				
	3	1042 4/2 Dark grayish brown. SILT, + clay, + sil. stiff		B. 2'-4.0	C31043	Sample from 1115 sample sent off for full-suite geotechnical - grain size - moisture content - Atterberg limits - UCS classification - specific gravity - pH job 9/5/01
	4					
	5					
	6					
	7					
	8					
	9					
	10					

PROJECT: RVAAP, Load Line 3 Phase II RI

HOLE NUMBER LL3-205 12

CR-61
25

HTRW DRILLING LOG

HOLE NUMBER **43-205**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **Jeffrey Lindau**

SHEET 2 OF 2

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	10.8'	104R 4/2 Dark grayish brown SILT				
	11.4'	TD @ 11.4' bgs		11.4'	U31042	Backhoe could not reach any deeper. Sample time: 1135 No backhoe encountered. sample sent off for full-suite geotechnical vjh 9/5/01
	12					
	13					

9/22 08/26/01

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