

**APPENDIX E  
TEST PIT LOGS**

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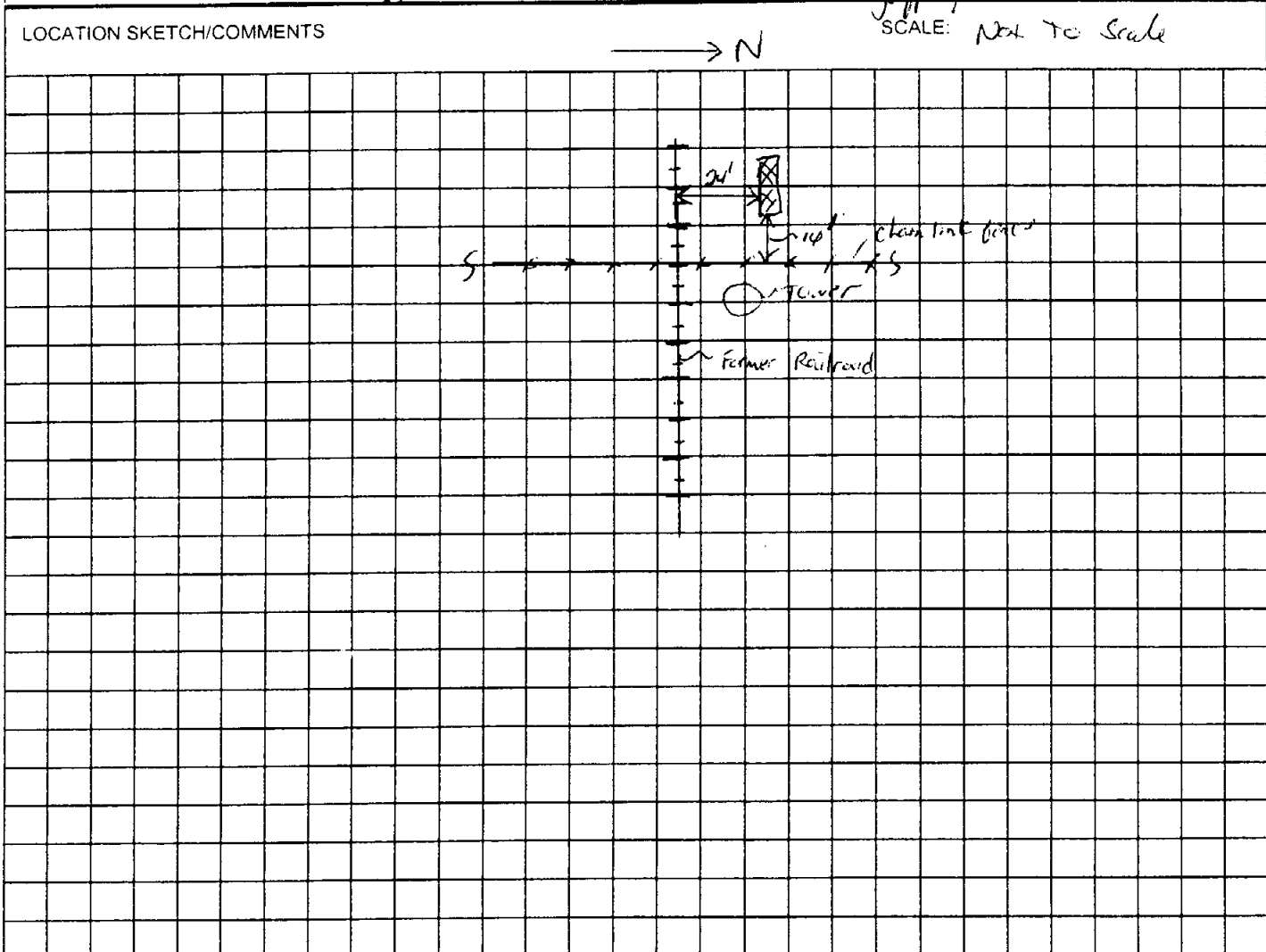
**APPENDIX E  
TEST PIT LOGS**

LL4-167.....E-5  
LL4-168.....E-8  
LL4-169.....E-11  
LL4-170.....E-14  
LL4-171.....E-17  
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(TP-1)

<b>HTRW DRILLING LOG</b>		DISTRICT: Louisville		HOLE NUMBER LL4-167	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering		SHEET <u>1</u> OF <u>1</u>	
3. PROJECT: RVAAP, Load Line 4 Phase II RI			4. LOCATION: LL4		
5. NAME OF DRILLER: James Benham		6. MANUFACTURERS DESIGNATION OF DRILL: Backhoe Case 58DL			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Backhoe Bucket		8. HOLE LOCATION: see sketch below			
9. SURFACE ELEVATION: NA					
10. DATE STARTED: 08/22/01			11. DATE COMPLETED: 08/22/01		
12. OVERBURDEN THICKNESS: >12.5'		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: 12.5'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES		② DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY NA %	
VOC		METALS		OTHER (SPECIFY)	
M/A					
22. DISPOSITION OF HOLE		23. SIGNATURE OF INSPECTOR			
BACKFILLED $\emptyset$		MONITORING WELL		OTHER (SPECIFY)	
		J. H. [Signature]			



# HTRW DRILLING LOG

HOLE NUMBER **LL4-167**

PROJECT: RVAAP, Load Line 4 Phase II RI

INSPECTOR *Jeffrey Lindell*

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	10YR 6/4 Light yellowish brown <u>SILT</u> , dry, t. clay, t. roots				
	1	10YR 5/1, gray clayey <u>SILT</u> , silty				
	2	(Hand-drawn wavy line)		0.0-2.5'	LL40921	sample from 0915
	3	increasing of sand c 2.5'-3.4'				samples archived 9/15/01 ujh
	4	10YR 4/4 Dark yellowish brown <u>SILT</u> , ± 20% NG sand, t. clay		3.5'-4.6'	LL40922	sample from 0925
	5					
	6	2.5YR 4/2 weak red silty <u>CLAY</u> , some gvl. damp.				
	7	10YR 4/4 Dark yellowish brown silty <u>CLAY</u> , blocky				
	8					
	9					
	10					

# HTRW DRILLING LOG

HOLE NUMBER LL4-167

PROJECT: RVAAP, Load Line 4 Phase II RI

INSPECTOR Jeffrey London

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)
	10					
	11	10YR 3/2 very dark grayish brown silty CLAY, s(+), g+				
	12					
	12.5	TD @ 12.5'				Max. reach of bithead No bedrock encountered
	13					
	14					
	15					

*100m 8/27/01*

PROJECT: RVAAP, Load Line 4 Phase II RI

E-7

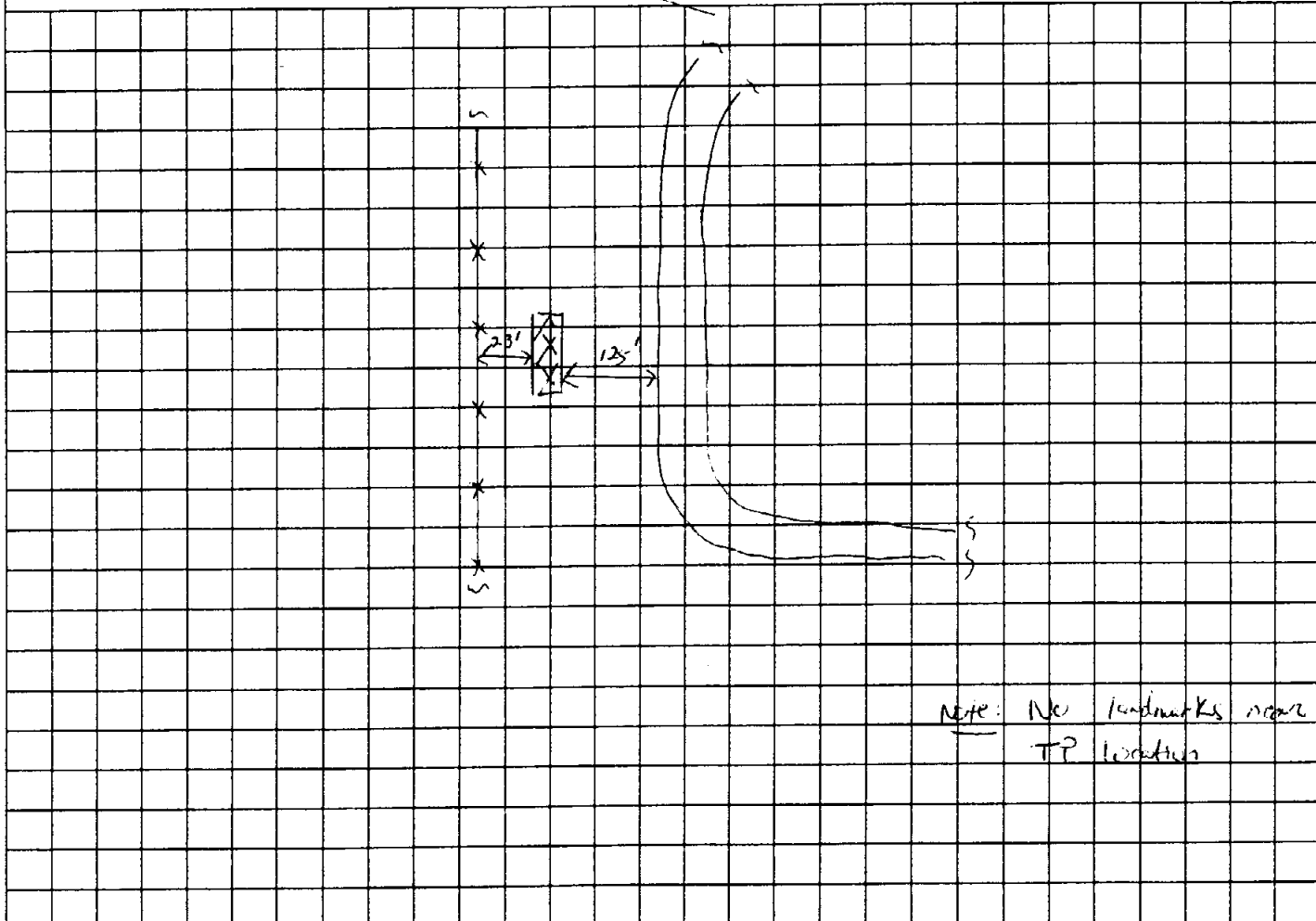
HOLE NUMBER LL4-167

(T-O-1)

<b>HTRW DRILLING LOG</b>		DISTRICT: Louisville		HOLE NUMBER LL4-168	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 4 Phase II RI			4. LOCATION: LL4		
5. NAME OF DRILLER: James Benham			6. MANUFACTURERS DESIGNATION OF DRILL: <sup>Bucket</sup> Case 586L		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: see sketch below			
Bucket Bucket		9. SURFACE ELEVATION: NA			
		10. DATE STARTED: 04/22/01		11. DATE COMPLETED: 08/22/01	
12. OVERBURDEN THICKNESS > 12.9'		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 12.9'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES		(4) DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES N/A		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY N/A%	
N/A		VOC		METALS	
22. DISPOSITION OF HOLE		BACKFILLED (2)		MONITORING WELL	
		OTHER (SPECIFY)		OTHER (SPECIFY)	
				23. SIGNATURE OF INSPECTOR	
				Jeffrey J. [Signature]	

LOCATION SKETCH/COMMENTS

N  
SCALE: Not to Scale



NOTE: No landmarks near TP location



# HTRW DRILLING LOG

HOLE NUMBER LL4-168

PROJECT: RVAAP, Load Line 4 Phase II RI

INSPECTOR Jeffrey Liu

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	10YR 6/4 light yellowish brown, <u>SCT</u>				
	1	10YR 5/1 gray clayey <u>SCT</u> , <u>stiff</u> , mottled, manganese (black) staining				
	2			2.0-2.5'	U40923	sample time: 1035 sample sent for full geotech suite - grain size - moisture content - Atterberg Limits - USCS classification - Specific gravity - pH
	3					
	4					
	5	10YR 4/3, Brown silty <u>CLAY</u> , <u>stiff</u>				
	6					
	7	wet @ 7.1'		7.0'	U40924	sample time: 1045 samples sent for full geotechnical suite
	8					
	9	yellowish brown 10YR 6/4 <u>8-6 SAND</u> , wet, <u>stiff</u>		8.5'-9.0'	U40925	sample time: 1055
	10					

PROJECT: RVAAP, Load Line 4 Phase II RI

E-9

HOLE NUMBER LL4-168

(1-D-2)

# HTRW DRILLING LOG

HOLE NUMBER **LL4-168**

PROJECT: RVAAP, Load Line 4 Phase II RI

INSPECTOR *Jeffrey Lindan*

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)
	10	10YR 5/1 Gray silty <u>CLAY</u> , some water inside when broken. stiff.				
	11	10YR 2.5/1 gray lean <u>CLAY</u> , low plasticity, damp. +. gul.		11'	LL40926	sample time 1105 sample sent for full geotech suite 9/15/01 vjh
	12					
	13	TDC 12.9'				
	14					

*LCM 8/27/01*

PROJECT: RVAAP, Load Line 4 Phase II RI

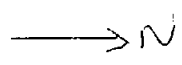
E-10

HOLE NUMBER **LL4-168**

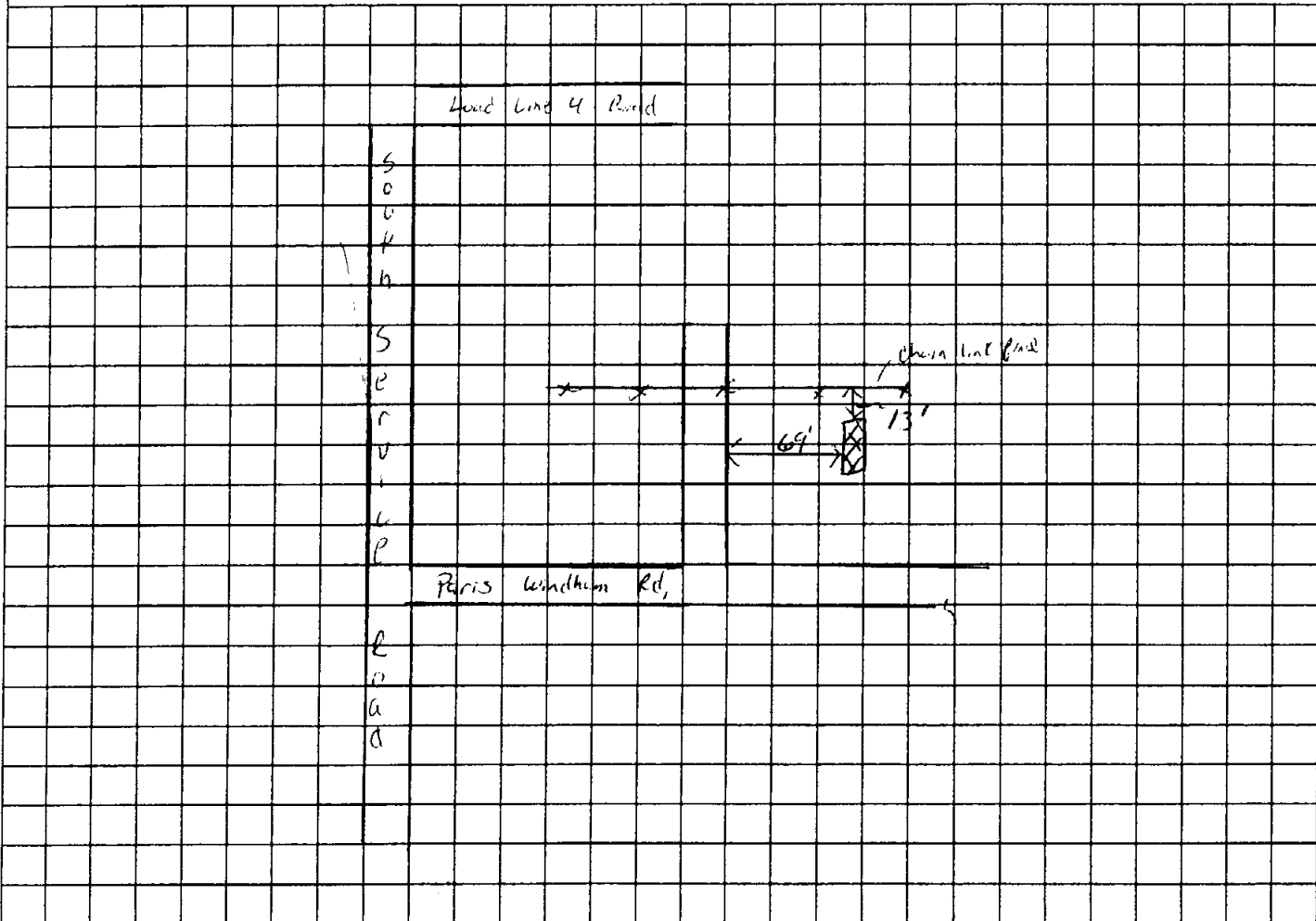
(70-2)

<b>HTRW DRILLING LOG</b>		DISTRICT: Louisville		HOLE NUMBER LL4-169	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering		SHEET <u>1</u> OF <u>1</u>	
3. PROJECT: RVAAP, Load Line 4 Phase II RI			4. LOCATION: LL4		
5. NAME OF DRILLER: James Benham		6. MANUFACTURERS DESIGNATION OF DRILL: Backhoe Case SBCL			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Backhoe Bucket		8. HOLE LOCATION: see sketch below			
9. SURFACE ELEVATION: NA					
10. DATE STARTED: 08/22/01			11. DATE COMPLETED: 08/22/01		
12. OVERBURDEN THICKNESS: >12.6'			15. DEPTH GROUNDWATER ENCOUNTERED: N/A		
13. DEPTH DRILLED INTO ROCK: 6'			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		② DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES: N/A		20. SAMPLES FOR CHEMICAL ANALYSIS: N/A			
21. TOTAL CORE RECOVERY: N/A%		VOC		METALS	
22. DISPOSITION OF HOLE: BACKFILLED (X)		MONITORING WELL		OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR: [Signature]		OTHER (SPECIFY)			

LOCATION SKETCH/COMMENTS



SCALE: Not To Scale



# HTRW DRILLING LOG

HOLE NUMBER **LL4-169**

PROJECT: RVAAP, Load Line 4 Phase II RI

INSPECTOR **Jeffrey Lindau**

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	1042 3/2 very dark grayish brown <u>SILT</u> , some v. f. sand				
	1	1042 6/4 light yellowish brown <u>SILT</u> , v. dry, blocky, crumbly				
	2	1042 4/3 brown clayey <u>SILT</u> .		2.2' - 2.9'	LL40927	Sample for 11408 sample archived v/b 9/5/01
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

# HTRW DRILLING LOG

HOLE NUMBER LL4-169

PROJECT: RVAAP, Load Line 4 Phase II RI

INSPECTOR Jeffrey Lindau

SHEET 2 OF 2

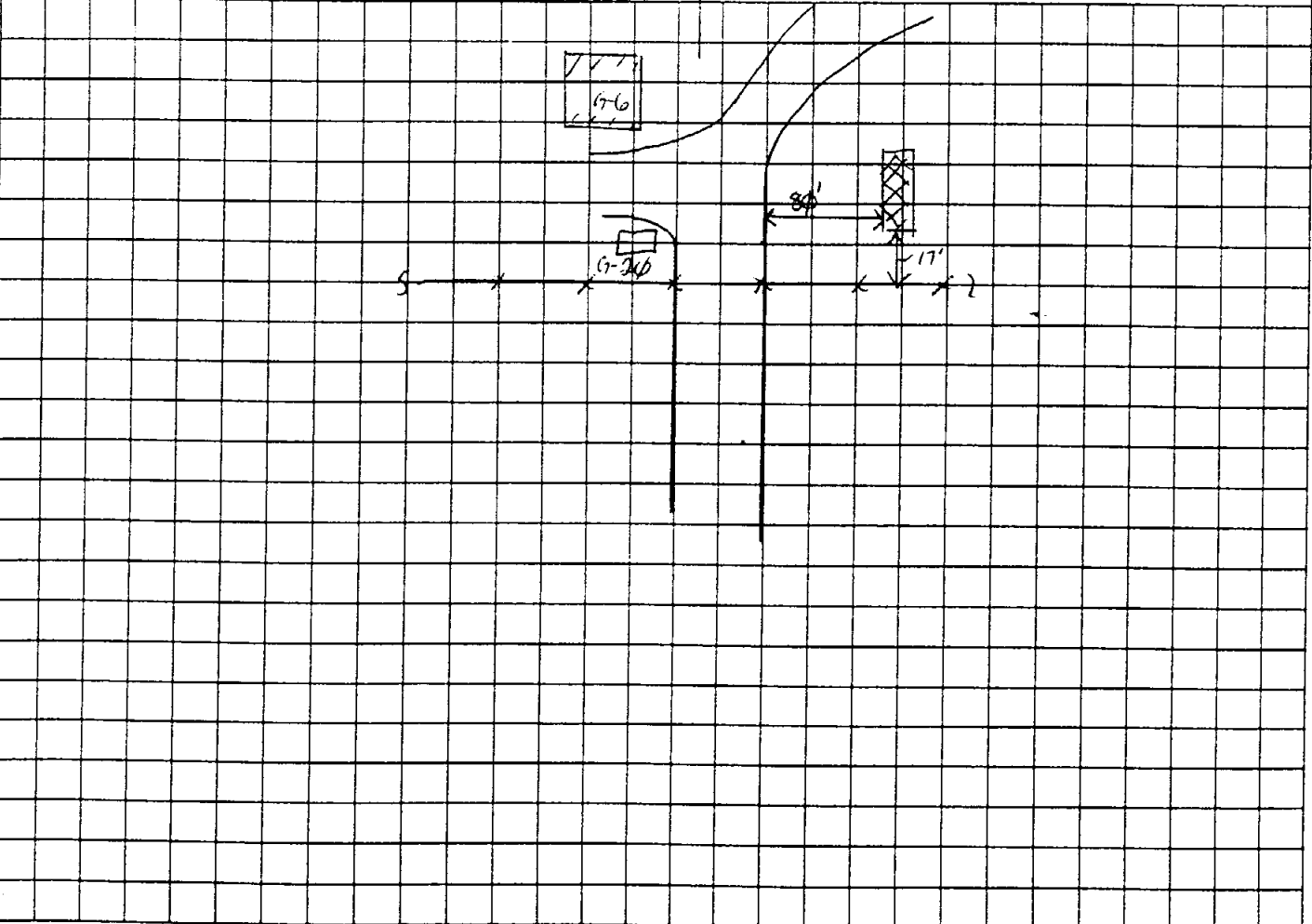
ELEV (A)	DEPTH (B) (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	10					
	11			11-11.5'	LL40928	Sample # <u>1205</u> & sample archived 9/5/01 vjb
	12	10/25/11 mg clay <u>CLAY</u> , low plasticity, f. gal., moist				
	13	TO c 12.6'				
	14					
	15					
REM E/27/01						

<b>HTRW DRILLING LOG</b>		DISTRICT Louisville		HOLE NUMBER LL4-170	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 4 Phase II RI			4. LOCATION: LL4		
5. NAME OF DRILLER: James Benham		6. MANUFACTURERS DESIGNATION OF DRILL: Beckhoe Case 580L			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Beckhoe Bucket		8. HOLE LOCATION: See sketch below			
		9. SURFACE ELEVATION: NA			
		10. DATE STARTED: 08/21/01		11. DATE COMPLETED: 08/21/01	
12. OVERBURDEN THICKNESS: > 13.2'		15. DEPTH GROUNDWATER ENCOUNTERED: <del>NA</del> N/A N/A 08/21/01			
13. DEPTH DRILLED INTO ROCK: $\emptyset$		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14. TOTAL DEPTH OF HOLE: 13.2'		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: MA		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
					21. TOTAL CORE RECOVERY: N/A
22. DISPOSITION OF HOLE: (2)		BACKFILLED	MONITORING WELL	23. SIGNATURE OF INSPECTOR	

LOCATION SKETCH/COMMENTS



SCALE: Not To Scale



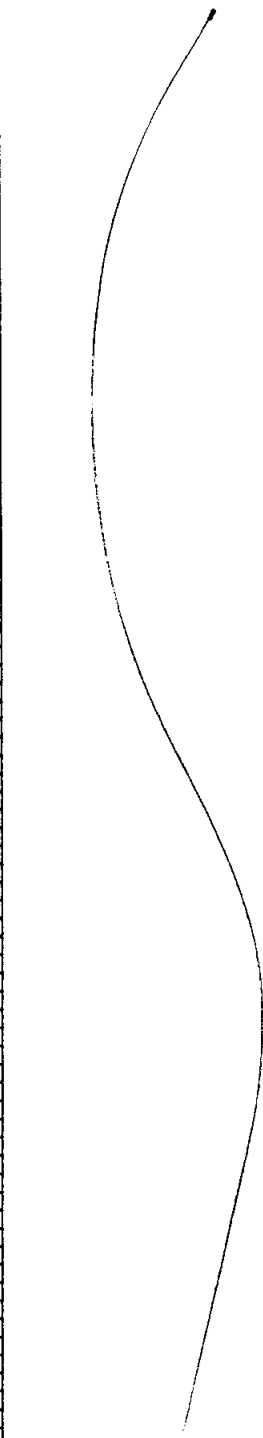
# HTRW DRILLING LOG

HOLE NUMBER **LL4-170**

PROJECT: RVAAP, Load Line 4 Phase II RI

INSPECTOR *Jeffrey Linde*

SHEET 1 OF 2

ELEV. (A)	DEPTH (B) <i>(ft)</i>	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0	<i>104R 4/2 Dark grayish brown SILT, dry, crumbly. (Fill mat.) some cobbles.</i>				
	1	<i>104R 4/3 Brown <sup>clayey</sup> SILT, stiff Blocky.</i>				
	2			<i>2-2.6'</i>	<i>LL40933</i>	<i>Sample no: 1525 Sample archived 9/5/01 vjb</i>
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

# HTRW DRILLING LOG

HOLE NUMBER **LL4-170**

PROJECT: RVAAP, Load Line 4 Phase II RI

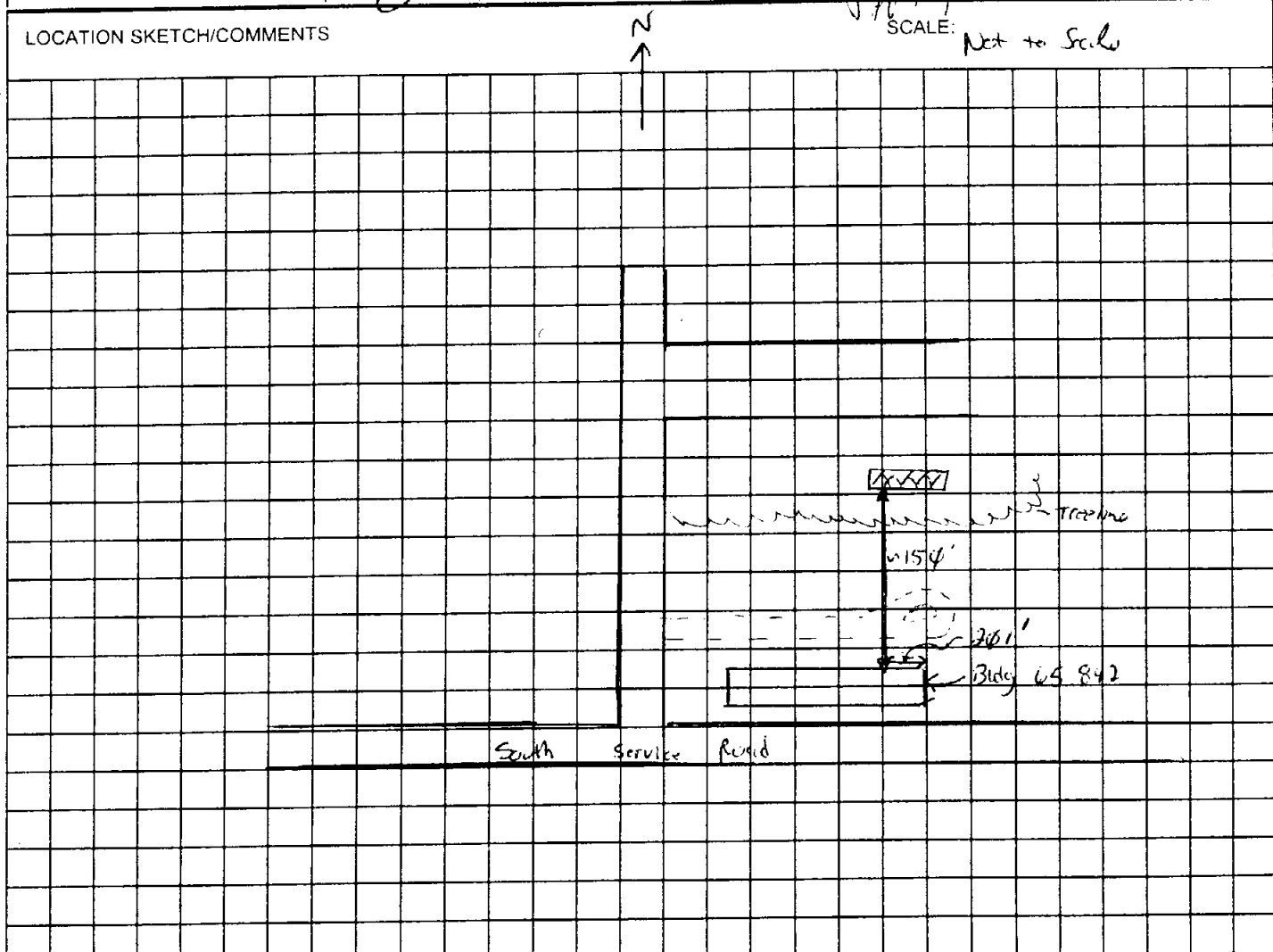
INSPECTOR **Jeffrey Lindan**

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					
	11	10YR 5/8 Yellowish brown vs SAND, + silt.		10.6'	LL40934	sample time: 1605 Sample archived vjb 9/5/01
	12					
	13					
	13.2	10c 13.2'				
	14					
<p><i>Log 3/27/0</i></p>						



<b>HTRW DRILLING LOG</b>		DISTRICT: Louisville		HOLE NUMBER LL4-171	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 4 Phase II RI			4. LOCATION: LL4		
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: N/A					
10. DATE STARTED: 08/21/01			11. DATE COMPLETED: 08/21/01		
12. OVERBURDEN THICKNESS: >12'			15. DEPTH GROUNDWATER ENCOUNTERED: 210'		
13. DEPTH DRILLED INTO ROCK: 0			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A		
14. TOTAL DEPTH OF HOLE: 12'			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A		
18. GEOTECHNICAL SAMPLES		② DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS: N/A		VOC		METALS	
		OTHER (SPECIFY)		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE: BACKFILLED		MONITORING WELL		OTHER (SPECIFY)	
				23. SIGNATURE OF INSPECTOR: [Signature]	
				19. TOTAL NUMBER OF CORE BOXES: N/A	
				21. TOTAL CORE RECOVERY: N/A%	



PROJECT: RVAAP, Load Line 4 Phase II RI	HOLE NUMBER: LL4-171
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# HTRW DRILLING LOG

HOLE NUMBER **LL4-171**

PROJECT: RVAAP, Load Line 4 Phase II RI

INSPECTOR *Jeffrey Lynderson*

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 4/6 Darkish yellowish brown v. silty SAND, moist, slightly cohesive (very homogeneous)				
	1					
	2					
	3			3-3.5'	LL40935	Sample time: 1645 Sample sent for full geotech suite - grain size - moisture content - Atterberg limits - USCS classification - specific gravity - pH y/b 9/5/01
	4					
	5					
	6	wet & 6' layering in the sand is evident.				
	7					
	8					
	9					
	10	water coming into sidewall @ 10'		10'	LL40936	Sample time: 1700 sample sent for full geotech suite.

PROJECT: RVAAP, Load Line 4 Phase II RI

E-18

HOLE NUMBER **LL4-171**

(170-5)

# HTRW DRILLING LOG

HOLE NUMBER LL4-171

10

PROJECT: RVAAP, Load Line 4 Phase II RI

INSPECTOR

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					
	11	Gray 1042 s/s silty SAND, saturated				
	12	TOE 0'				Backhoe could not reach deeper
	13					
<p>LOG 8/27/01</p>						

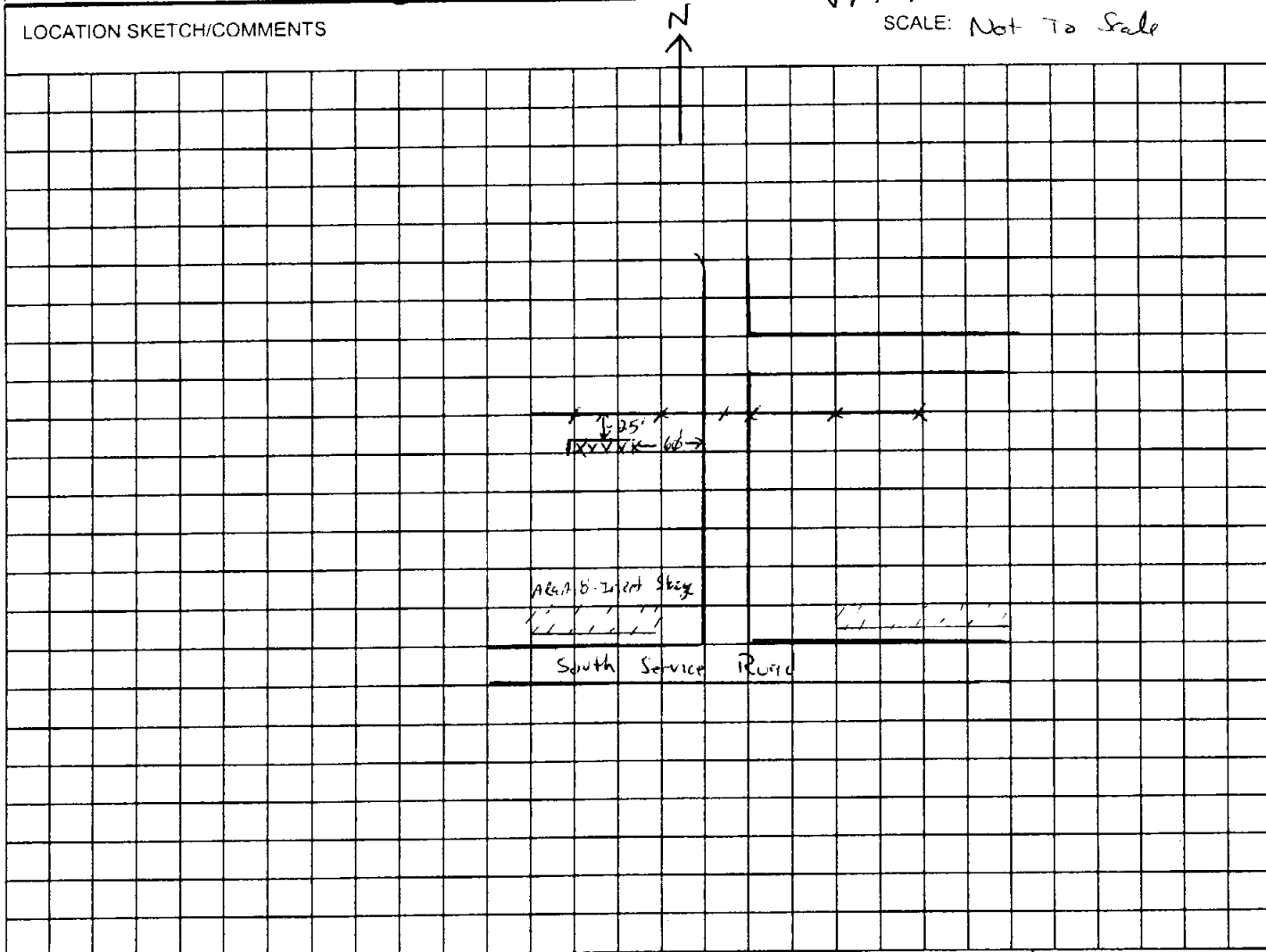
10

11

12

13

<b>HTRW DRILLING LOG</b>		DISTRICT: Louisville		HOLE NUMBER LL4-172	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: TJC Engineering		SHEET <u>1</u> OF <u>1</u>	
3. PROJECT: RVAAP, Load Line 4 Phase II RI			4. LOCATION:		
5. NAME OF DRILLER: James Benham		6. MANUFACTURERS DESIGNATION OF DRILL: <sup>Backhoe</sup> Case 580 L			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Backhoe Bucket		8. HOLE LOCATION: See sketch below			
9. SURFACE ELEVATION: NA					
10. DATE STARTED: 08/22/01			11. DATE COMPLETED: 08/22/01		
12. OVERBURDEN THICKNESS: 74.1'			15. DEPTH GROUNDWATER ENCOUNTERED: 12'		
13. DEPTH DRILLED INTO ROCK: 0			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A		
14. TOTAL DEPTH OF HOLE: 14.1'			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A		
18. GEOTECHNICAL SAMPLES		<input checked="" type="checkbox"/> DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: N/A	
20. SAMPLES FOR CHEMICAL ANALYSIS: N/A		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE		<input checked="" type="checkbox"/> BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR: [Signature]
					21. TOTAL CORE RECOVERY: N/A



PROJECT: RVAAP, Load Line 4 Phase II RI	HOLE NUMBER: LL4-172
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# HTRW DRILLING LOG

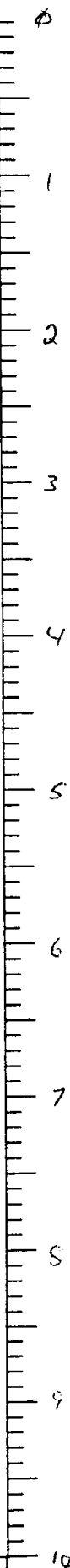
HOLE NUMBER **LL4-172**

PROJECT: RVAAP, Load Line 4 Phase II RI

INSPECTOR *Jeffrey Linden*

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	1042312 very dark grayish brown clayey <u>SILT</u>				
	1	1042511, Gray clayey <u>SILT</u> w/ mottling, damp, + roots				
	2			1.4'-2.4'	LL40942	sample time: 0755 sample archived vjh 1/15/01
	3					
	4	2.4' 1042511 gray silty <u>CLAY</u> and 1042414 dark yellowish brown silty <u>CLAY</u> , w/ some gut, lean.				
	5					
	6	1042516 yellowish brown <u>SILT</u> , some v. sand, moist		5.4'-5.3' 5.3'-5.5' 107 08/22/01	LL40941	sample time: 0800 ↓ samples archived vjh 1/15/01 ↑
	7			6.0'-6.5'	LL40940	sample time: 0805
	8					
	9					
	10					



# HTRW DRILLING LOG

HOLE NUMBER 64-172

PROJECT: RVAAP, Load Line 4 Phase II RI

INSPECTOR Jeffrey Lindan

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)
	10.5	e 10.5' clamp, horizontal layering bedding visible in SILT				
	12	10 yr silt gray <u>SILT</u> , wet + vj sand				
	14.1	TD @ 14.1' logs				Backhoe could not reach any deeper. No bedrock encountered
<p style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;">Kern 8/27/01</p>						