

APPENDIX A
SOIL SAMPLING LOGS

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HTRW DRILLING LOGS-MAPS

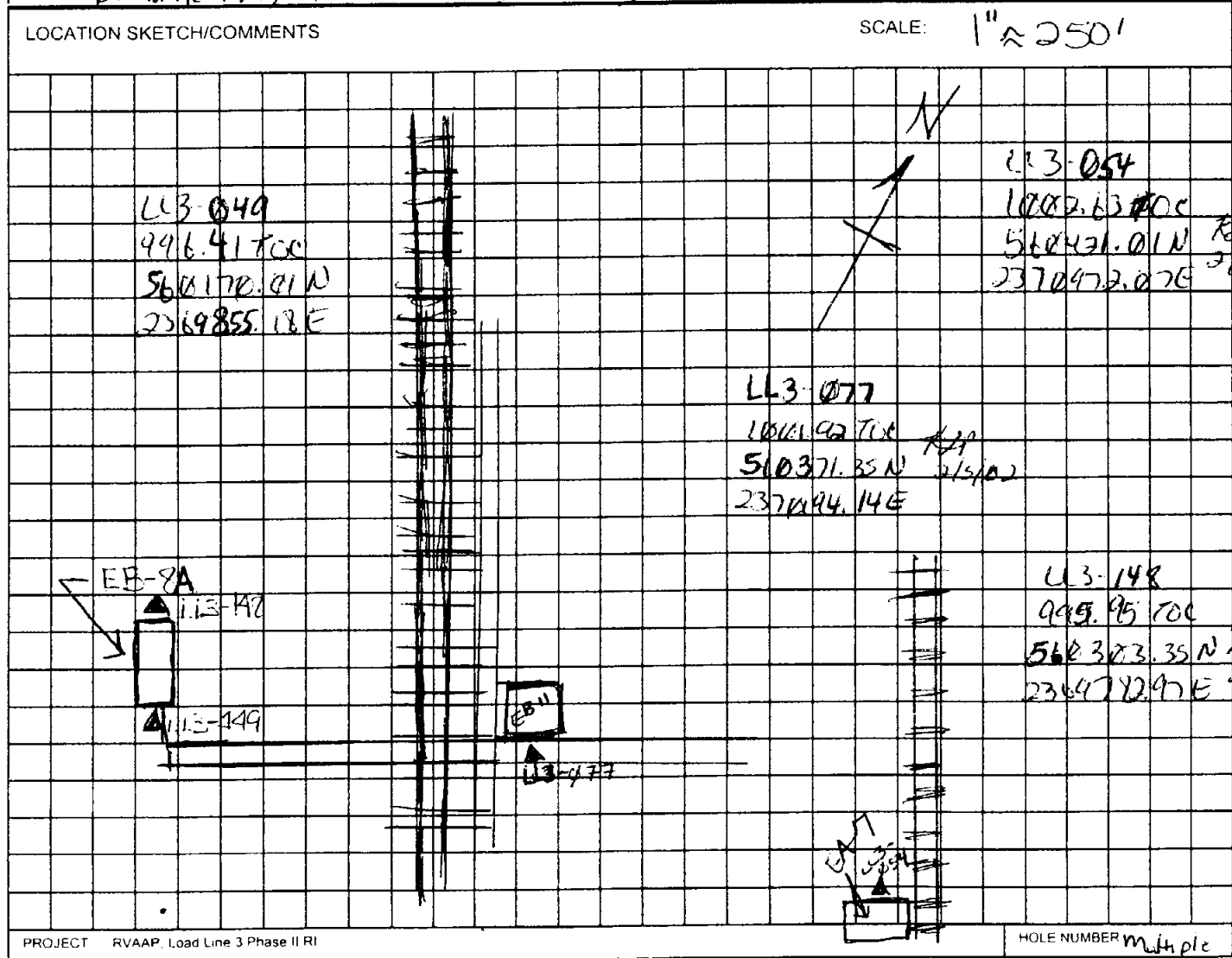
LL3-049,054,077,148,149	A-5
LL3-051,057,058,059,060,061,062,063	A-6
LL3-055,146,147,150,151	A-7
LL3-056,064,065,066,067,068,069,070	A-8
LL3-071,072,073,074,075,076,111	A-9
LL3-078,091,101,139,140	A-10
LL3-079,132,134,135	A-11
LL3-080,082,130,136,137,138	A-12
LL3-081,142,143,144, 145	A-13
LL3-083,085,097,098	A-14
LL3-084	A-15
LL3-086,087,088,089,093	A-16
LL3-090,092,095	A-17
LL3-096,110,141	A-18
LL3-099,102,103,112,113	A-19
LL3-104,107,108,109	A-20
LL3-105,106,114,115,116	A-21
LL3-117,118,119,120,121,122,123,124,125,126,127,128,129,130,131	A-22
LL3-148,194,196,197,198,199	A-23
LL3-152,154,160	A-24
LL3-153,157,158,159,161,230,231,244,245	A-25
LL3-182,187,188,189,190,191,192,193,195	A-26
LL3-184,185,186	A-27

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049.
LL3-054, 077, 148, 149

67

HTRW DRILLING LOG		DISTRICT Louisville		HOLE NUMBER Multiple	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET L OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: Near EB8A and EB11		
5. NAME OF DRILLER: Beau Williams			6. MANUFACTURERS DESIGNATION OF DRILL Bucket Auger		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		3 1/2" SS Bucket Auger SS Bowl, SS spoon		8. HOLE LOCATION: Near EB8A and EB11	
			9. SURFACE ELEVATION: ^{cell} Near EB8A and EB11 N/A		
			10. DATE STARTED 8-9-01		11. DATE COMPLETED
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): N/A	
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES N/A	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
See text page					
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
Beniteite Plug					
				23. SIGNATURE OF INSPECTOR M. DeCand	



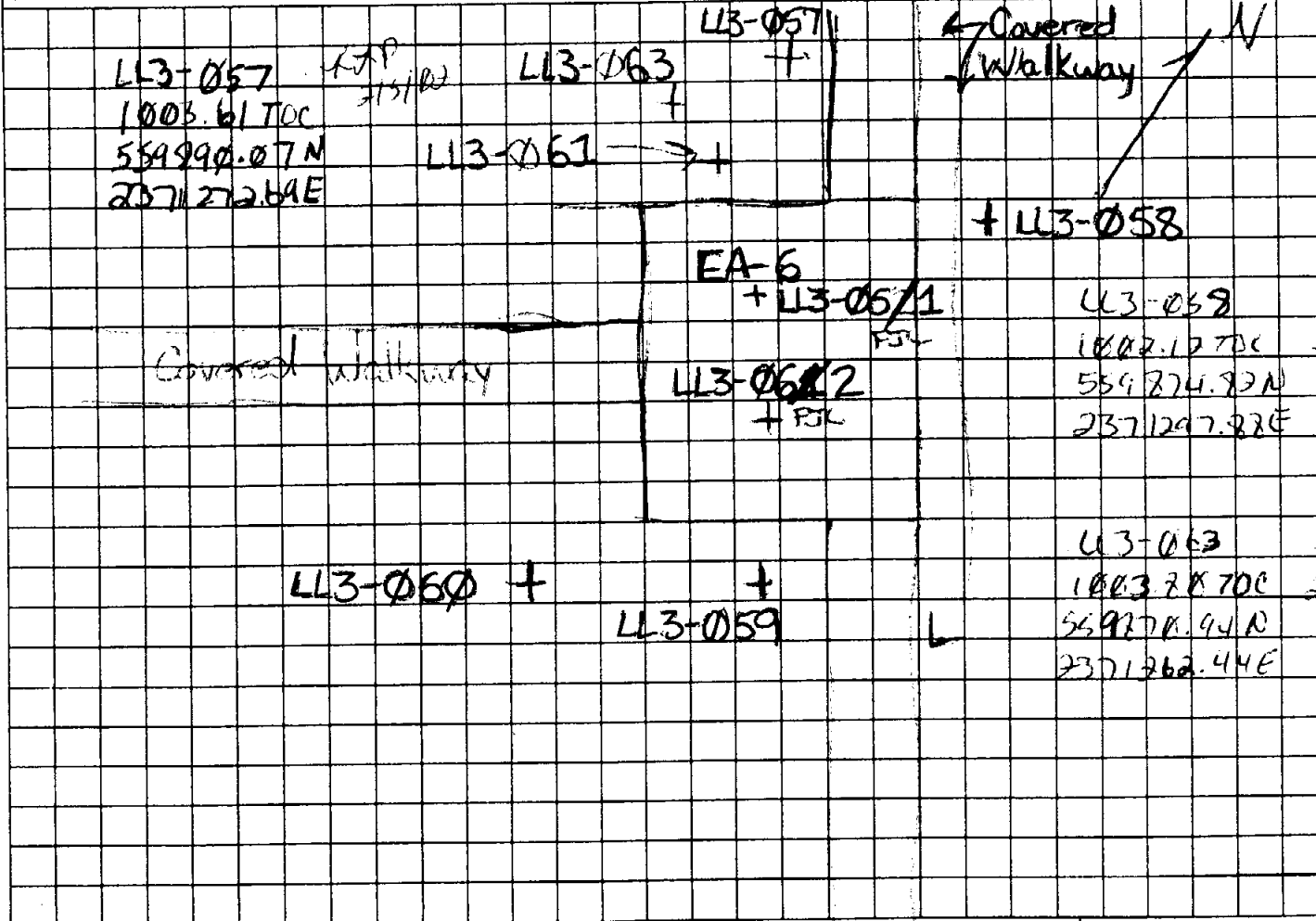
PROJECT RVAAP, Load Line 3 Phase II RI

HOLE NUMBER Multiple

11-02 CE 051 058, 057, 060, 061, 062, 063.
 LL3-057, through LL3-063

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL3-057	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: Load Line 3		
5. NAME OF DRILLER: Sharon Roberts			6. MANUFACTURERS DESIGNATION OF DRILL: Bucket Auger		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 3" dia. Stainless Steel (C.S.) bucket auger, S.S. spoon & rawl		8. HOLE LOCATION: Near EAS			
9. SURFACE ELEVATION: N/A					
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): N/A		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES: N/A					
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
LL31143/LL31143		LL31143		LL31143	
22. DISPOSITION OF HOLE: N/A		BACKFILLED: N/A		MONITORING WELL: N/A	
				OTHER (SPECIFY): Bentonite	
				23. SIGNATURE OF INSPECTOR: [Signature]	

LOCATION SKETCH/COMMENTS: SCALE: Not to scale



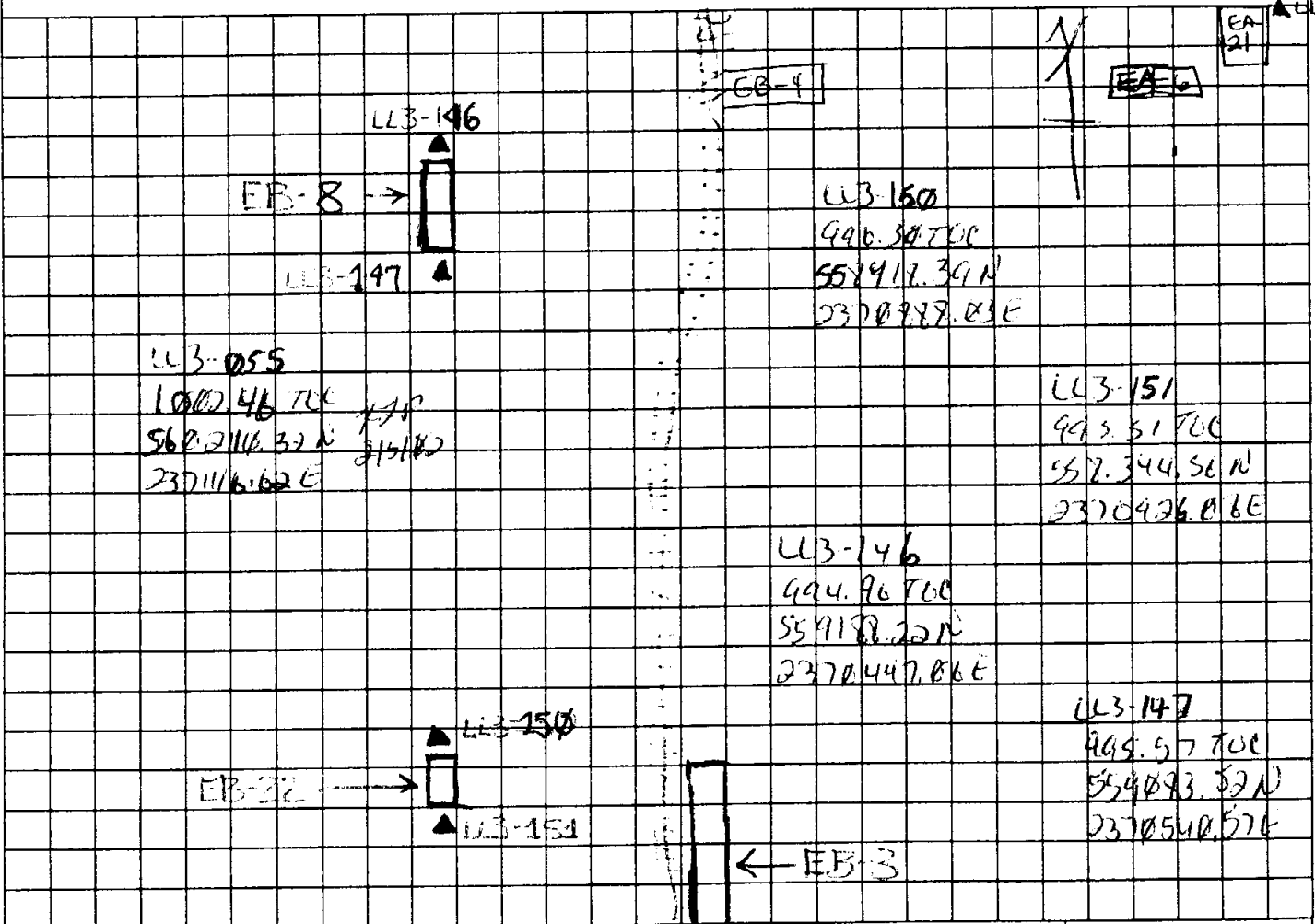
PROJECT: RVAAP, Load Line 3 Phase II RI HOLE NUMBER: LL3-057

055, LL3-146, 147, 150, 151

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER Multiple	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 of 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: EB-22 Change House		
5. NAME OF DRILLER: <u>Ben Williams</u>			6. MANUFACTURERS DESIGNATION OF DRILL: <u>Bucket Auger</u>		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>3" x 55" Bucket Auger</u> <u>2" x 50" x 1.5" BWS</u>		8. HOLE LOCATION: <u>See map</u>			
9. SURFACE ELEVATION: <u>N/A</u>					
10. DATE STARTED: <u>8/8/01</u>			11. DATE COMPLETED:		
12. OVERBURDEN THICKNESS: <u>N/A</u>			15. DEPTH GROUNDWATER ENCOUNTERED: <u>N/A</u>		
13. DEPTH DRILLED INTO ROCK: <u>N/A</u>			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <u>N/A</u>		
14. TOTAL DEPTH OF HOLE: <u>N/A</u>			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <u>N/A</u>		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES: <u>N/A</u>		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY: %	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
OTHER (SPECIFY)		OTHER (SPECIFY)		OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR: <u>[Signature]</u>					

LOCATION SKETCH/COMMENTS

SCALE: 1" = 25' NOT TO SCALE



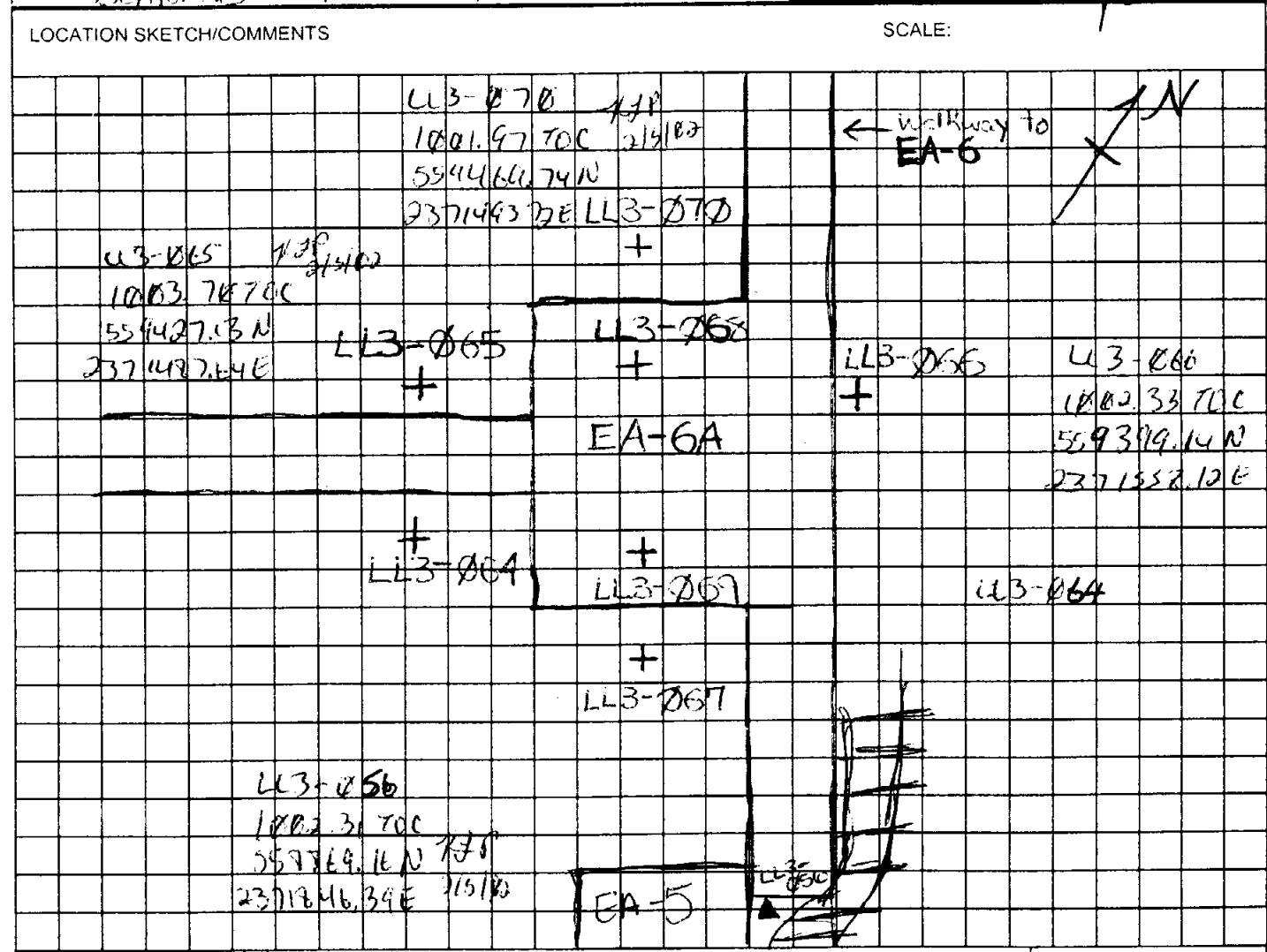
LL3-055

PROJECT: RVAAP, Load Line 3 Phase II RI	HOLE NUMBER: Multiple
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LL3-146, 147, 150, 151

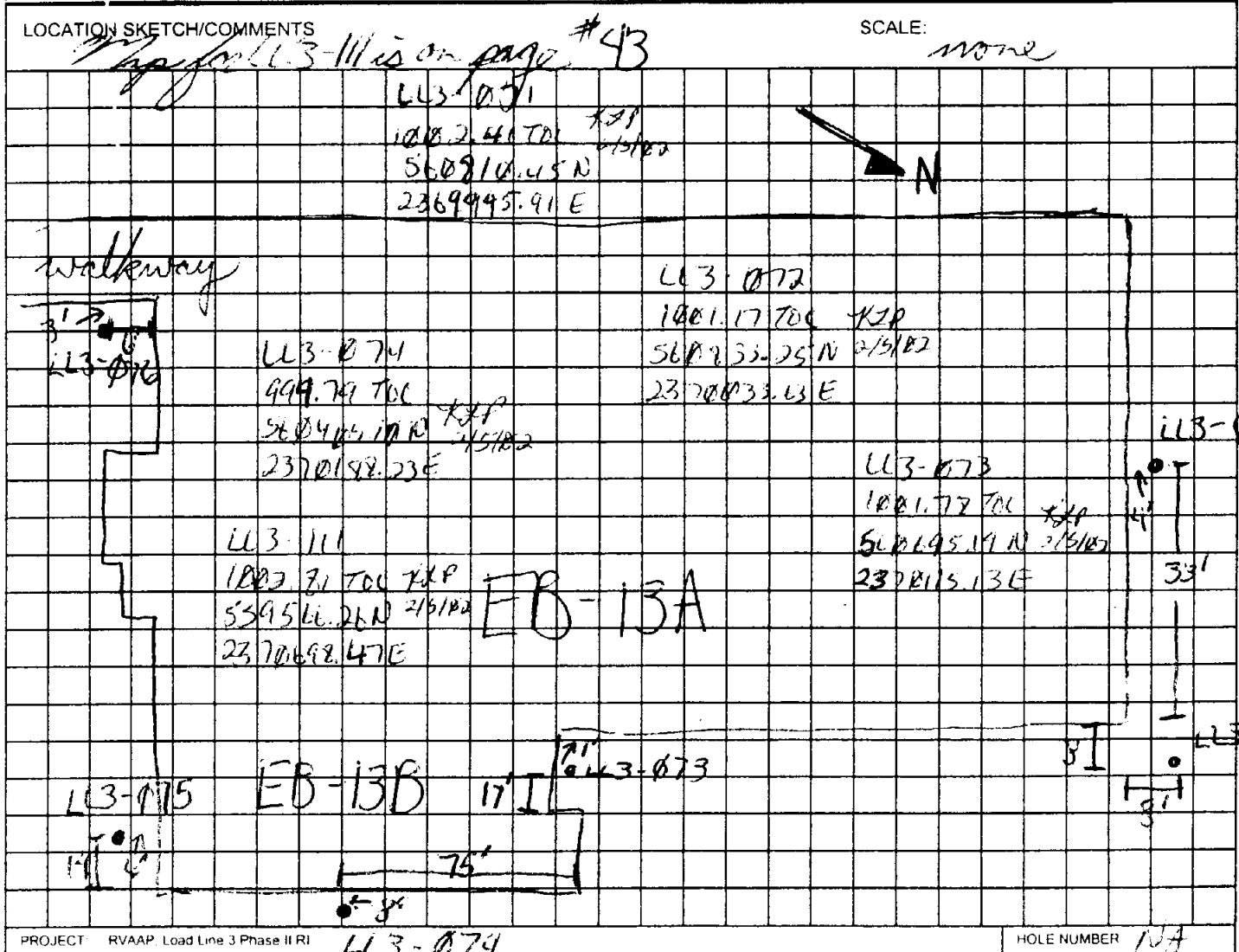
CR 11-02 056, 064, 065, 066, 067, LL3-064, through LL3-070

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL3-069	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: EA-6		
5. NAME OF DRILLER: Josh Rich (EOLL)			6. MANUFACTURERS DESIGNATION OF DRILL:		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		3 1/2" S.S. bucket auger, S.S. spoons & gravel		8. HOLE LOCATION: EA-6, sub floor	
9. SURFACE ELEVATION: N/A			10. DATE STARTED: 7/31/01		
11. DATE COMPLETED: 7/31/01			12. OVERBURDEN THICKNESS: N/A		
13. DEPTH DRILLED INTO ROCK: N/A			15. DEPTH GROUNDWATER ENCOUNTERED: N/A		
14. TOTAL DEPTH OF HOLE: N			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A		
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			18. GEOTECHNICAL SAMPLES		
DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES: N/A	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
LL30723		EA	✓	EXPOSURES	PCEs
21. TOTAL CORE RECOVERY %		22. DISPOSITION OF HOLE		23. SIGNATURE OF INSPECTOR	
		Bentonite		Paul G. Turb	



PROJECT: RVAAP, Load Line 3 Phase II RI	HOLE NUMBER: LL3-069
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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER NA	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3		
5. NAME OF DRILLER: SAIC			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 5 bucket auger		8. HOLE LOCATION: near EB-13A, B, C			
SAIC		9. SURFACE ELEVATION: NA			
8/8/01		10. DATE STARTED: 8/8/01		11. DATE COMPLETED: 8/9/01	
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: NA		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES: NA
20. SAMPLES OR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)
		X	various		
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR: [Signature]

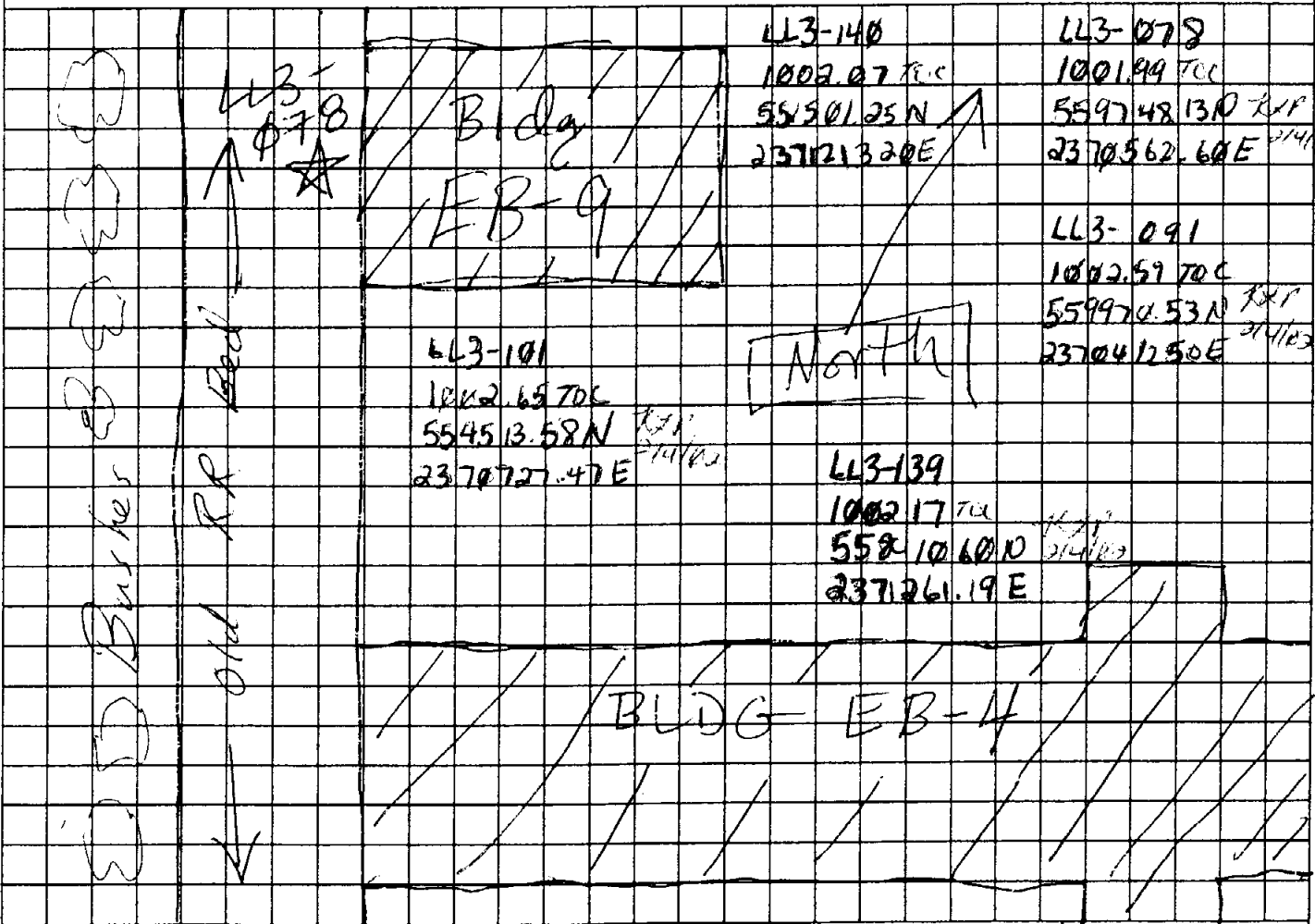


CR 11/2 LL3-078, 101, 139, 27
 CC 140 091
 078/multiple

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER 078/multiple	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3-078 , LL3- Bldgs EB-9 & EB-4		
5. NAME OF DRILLER: T. Grivat / J. Lorch			6. MANUFACTURERS DESIGNATION OF DRILL: Bucket auger		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT bucket auger SS (3 1/2") SS spoon (SS-bow)		8. HOLE LOCATION: LL3-078, LL3- ^{SPC 8/13/01}			
			9. SURFACE ELEVATION: N/A		
			10. DATE STARTED: 8/11/01		11. DATE COMPLETED: 8/12/01
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): N/A		
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES
20. SAMPLES FOR CHEMICAL ANALYSIS see text page		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE ben nrite plug		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY: N/A
				23. SIGNATURE OF INSPECTOR <i>[Signature]</i>	

LOCATION SKETCH/COMMENTS

SCALE: NTS



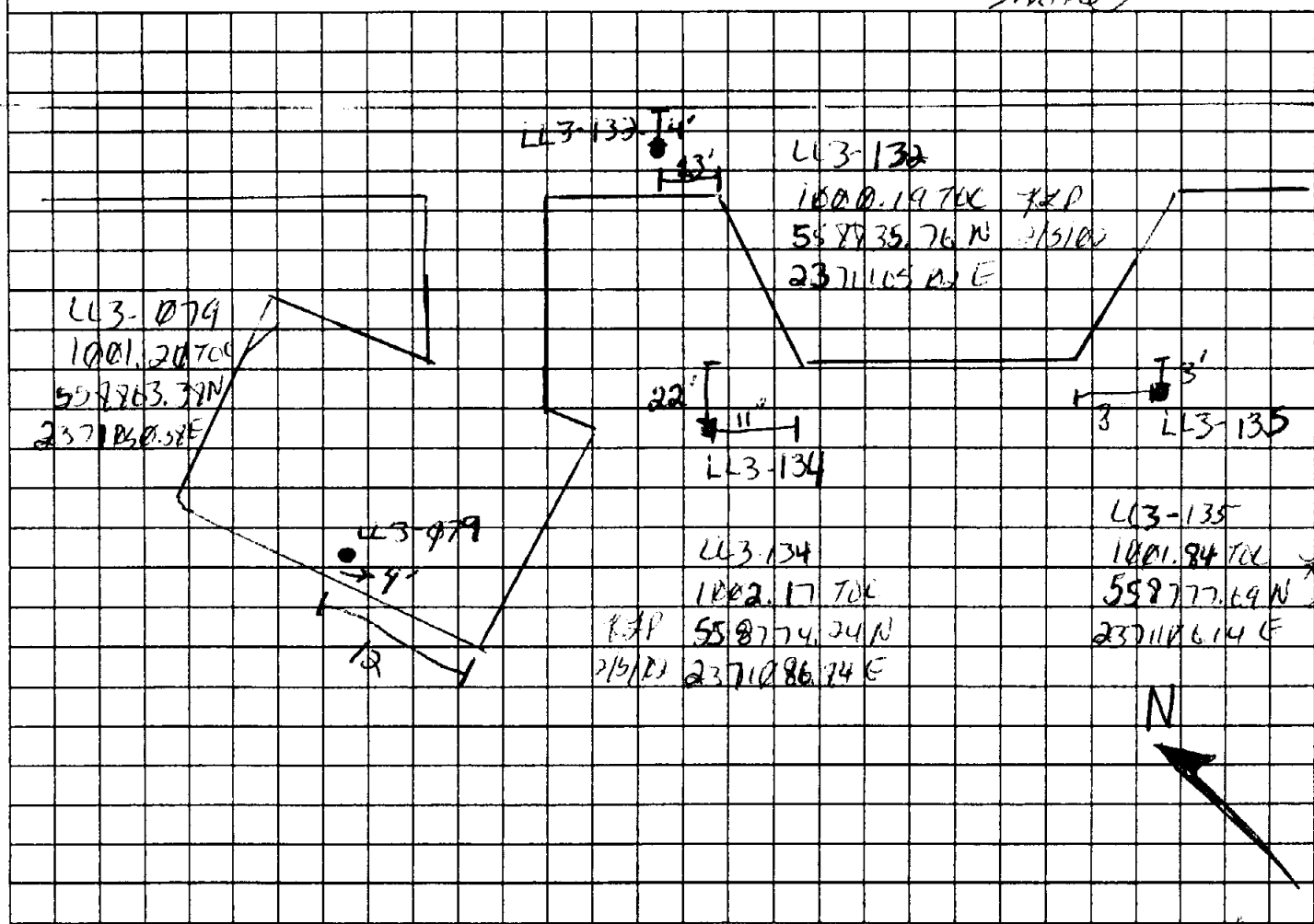
PROJECT: RVAAP, Load Line 3 Phase II RI

HOLE NUMBER: 078

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER NA			
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET <u>L</u> OF <u>1</u>			
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3				
5. NAME OF DRILLER: SAIC			6. MANUFACTURERS DESIGNATION OF DRILL: NA				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3" bucket auger			8. HOLE LOCATION: near EB-25				
<i>[Handwritten signature]</i>			9. SURFACE ELEVATION: NA				
			10. DATE STARTED: 8/14/01		11. DATE COMPLETED: 8/14/01		
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: NA		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA					
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES: NA		
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY: 100%
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR: <i>[Signature]</i>		

LOCATION SKETCH/COMMENTS

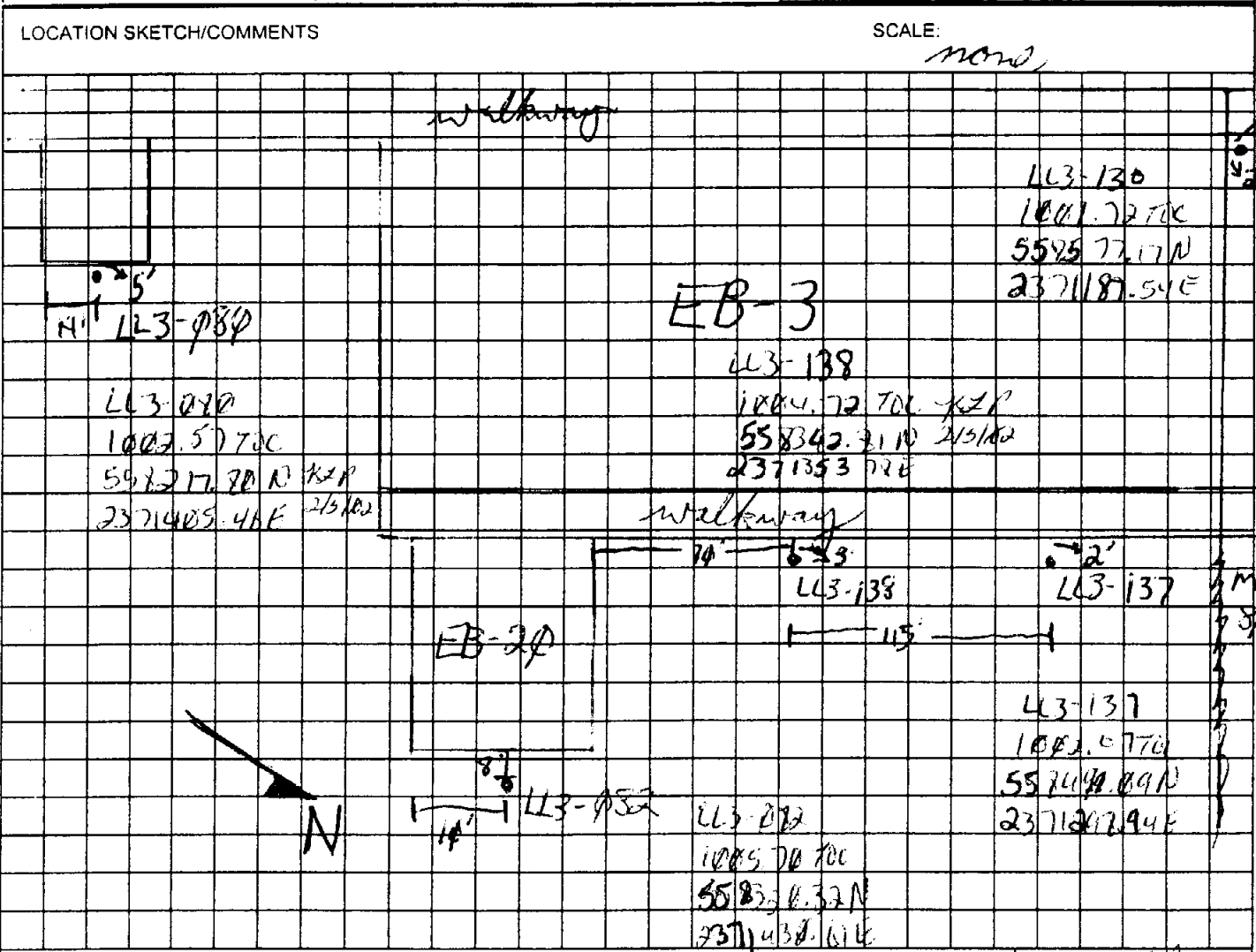
SCALE: none



PROJECT: RVAAP, Load Line 3 Phase II RI

HOLE NUMBER: NA

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER NA	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3		
5. NAME OF DRILLER: SAIC			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 3" bucket auger 1 1/2" hole 8" bit		8. HOLE LOCATION: near EB-3			
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: NA			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA		
18. GEOTECHNICAL SAMPLES		DISTURBED -		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES: NA		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY: NA %	
		VOC		METALS	
		OTHER (SPECIFY)		OTHER (SPECIFY)	
		OTHER (SPECIFY)		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		OTHER (SPECIFY)		23. SIGNATURE OF INSPECTOR	

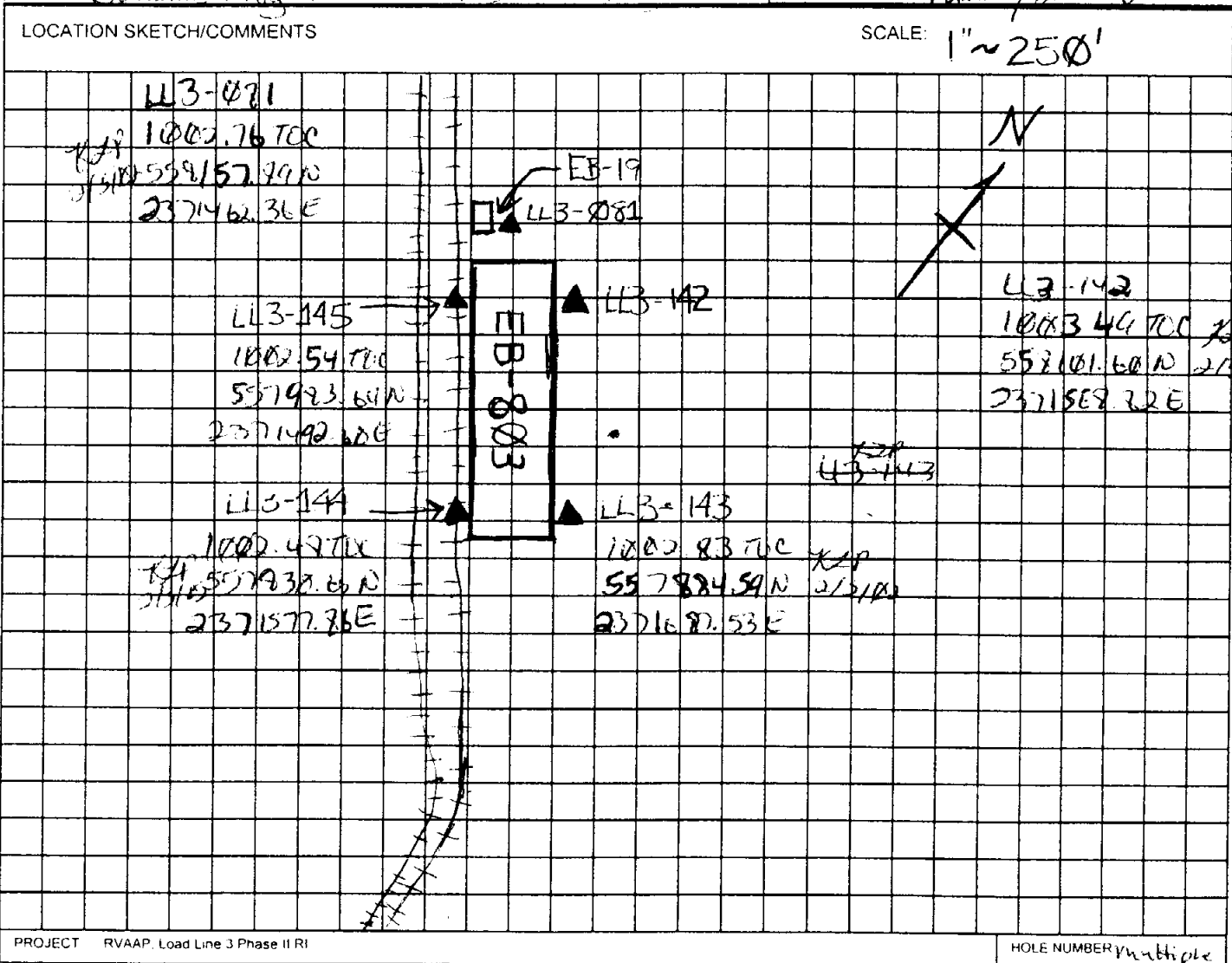


PROJECT RVAAP, Load Line 3 Phase II RI

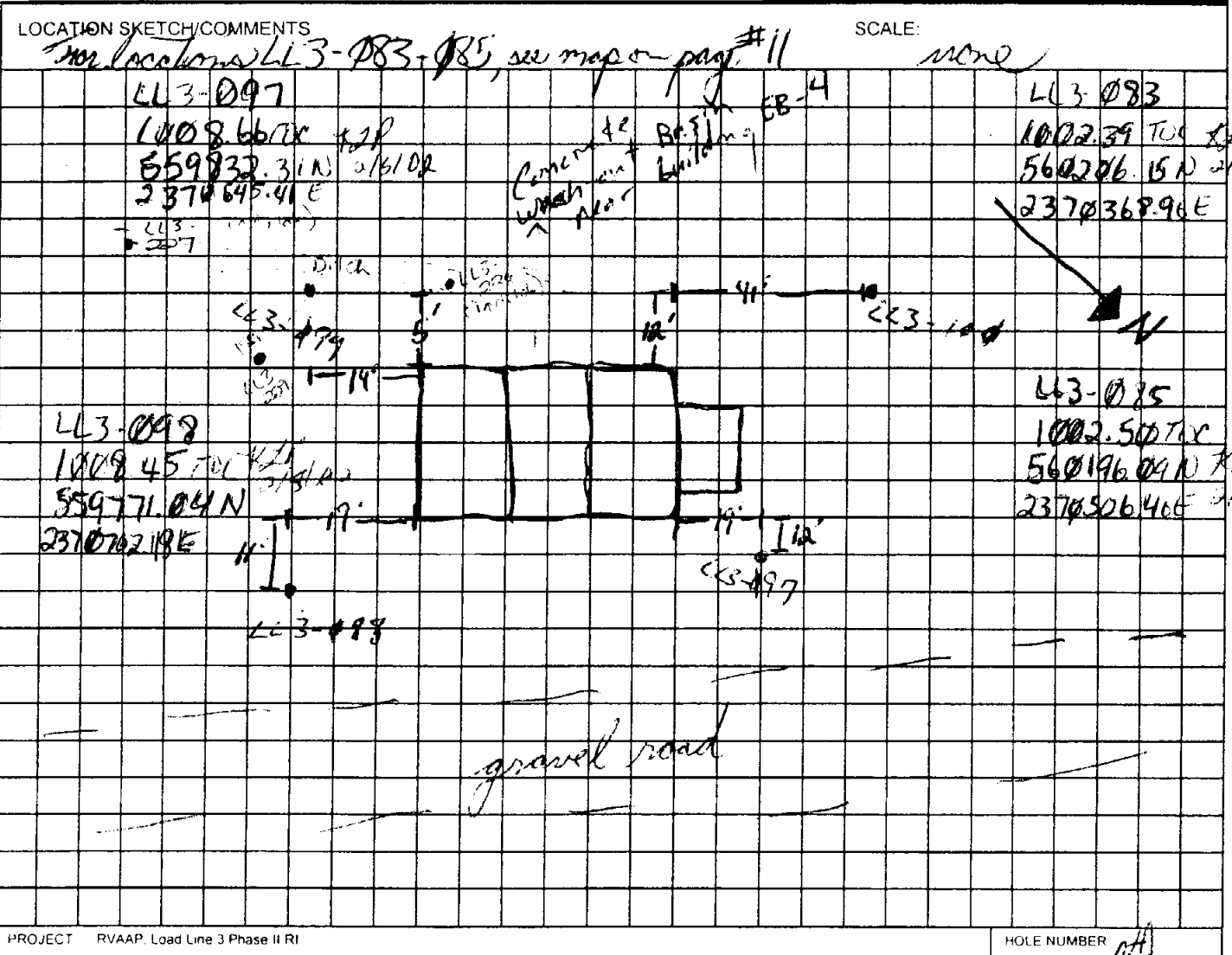
HOLE NUMBER NA

LL3-081, ~~142~~, 143, 144, 145

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER Multiple	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: Near EB-803		
5. NAME OF DRILLER: Beau Williams			6. MANUFACTURERS DESIGNATION OF DRILL: Bucket Auger		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: Near EB-803			
3 1/2" S.S. Bucket Auger S.S. Bowl & S.S. Spoon		9. SURFACE ELEVATION: N/A			
		10. DATE STARTED: 8/9/01		11. DATE COMPLETED: 8/9/01	
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): N/A			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		OTHER (SPECIFY)	
See text page					
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
Bentonite Plug				23. SIGNATURE OF INSPECTOR	
				Paul J. Lucot	
19. TOTAL NUMBER OF CORE BOXES: N/A			21. TOTAL CORE RECOVERY %		



HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER NA	
1 COMPANY NAME: SAIC		2 DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3 PROJECT: RVAAP, Load Line 3 Phase II RI			4 LOCATION: LL3		
5 NAME OF DRILLER: SAIC			5. MANUFACTURERS DESIGNATION OF DRILL: NA		
7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		3" bucket auger		8. HOLE LOCATION: near EB-10 and EB-4	
SAIC		8/6/01		9. SURFACE ELEVATION: NA LL3-100 559779.80 N 762 P 1006.65700 2370650.47 E 213	
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: NA		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES: NA		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY: NA	
		VOC		METALS	
		OTHER (SPECIFY)		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		OTHER (SPECIFY)		23. SIGNATURE OF INSPECTOR: <i>Walter Root</i>	

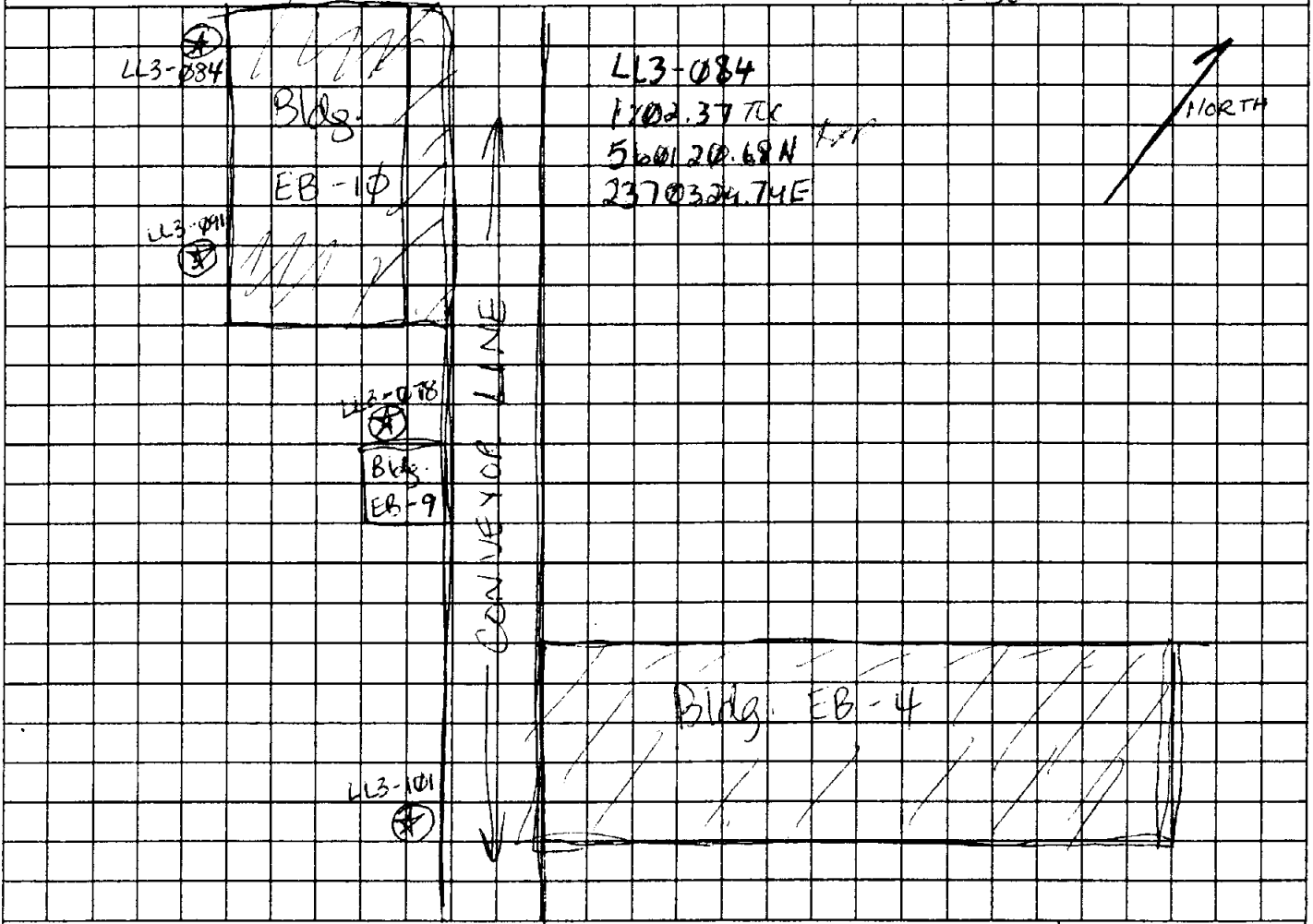


LL3-084, 091, 078, 101 35

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER NA (multiple)	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: Building area around EB-10, EB-4		
5. NAME OF DRILLER: J. Groton, T. Grivat			6. MANUFACTURERS DESIGNATION OF DRILL: Bucket auger		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		3 1/2" SS bucket auger SS spoon & SS bowl		8. HOLE LOCATION: LL3-084, LL3-091, LL3-078, LL3-174, LL3-167	
		9. SURFACE ELEVATION: n/a			
		10. DATE STARTED: 8/11/01		11. DATE COMPLETED: 8/11/01	
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): n/a			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
21. TOTAL CORE RECOVERY %				23. SIGNATURE OF INSPECTOR	

LOCATION SKETCH/COMMENTS

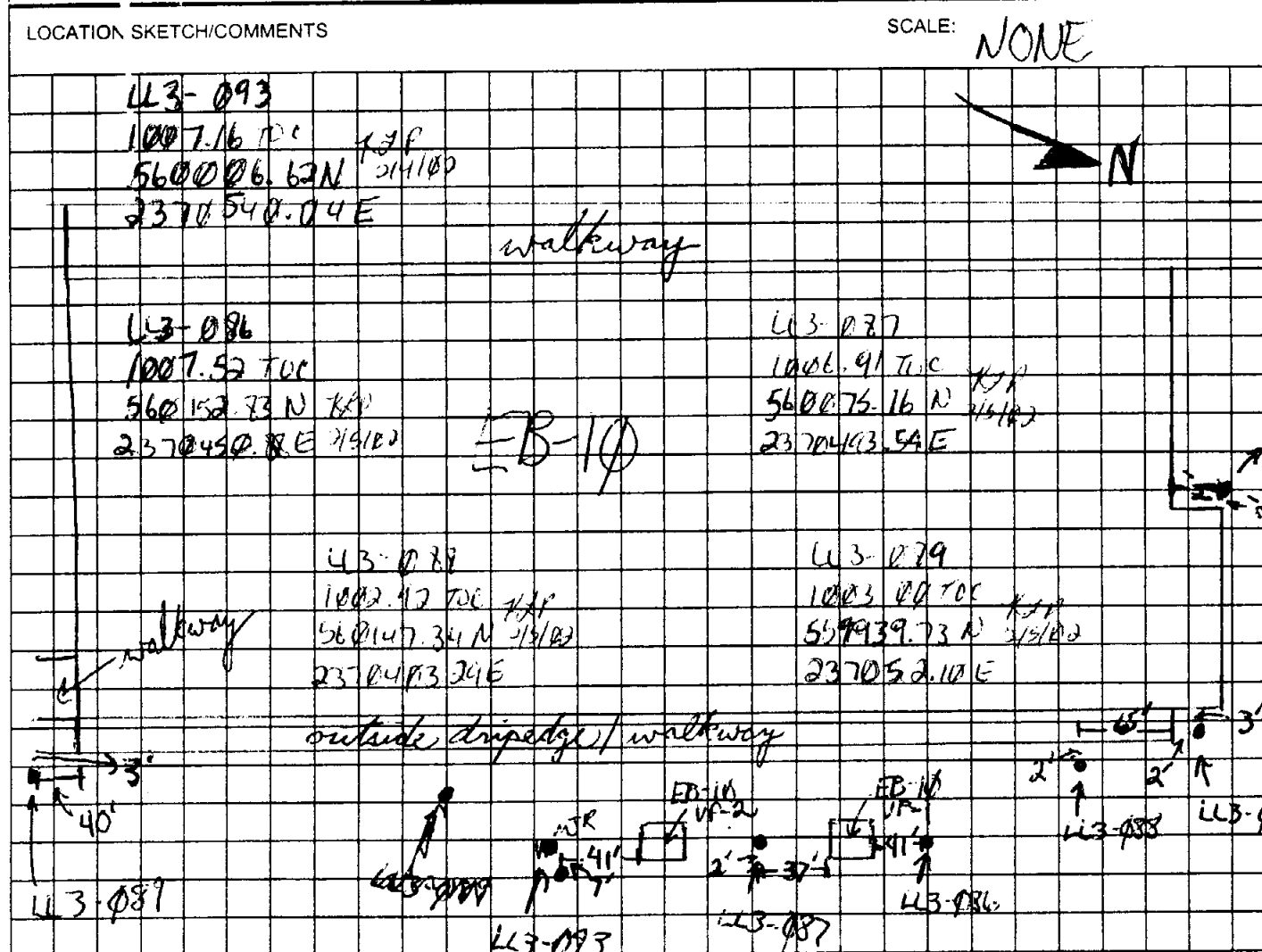
SCALE:
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PROJECT RVAAP, Load Line 3 Phase II RI

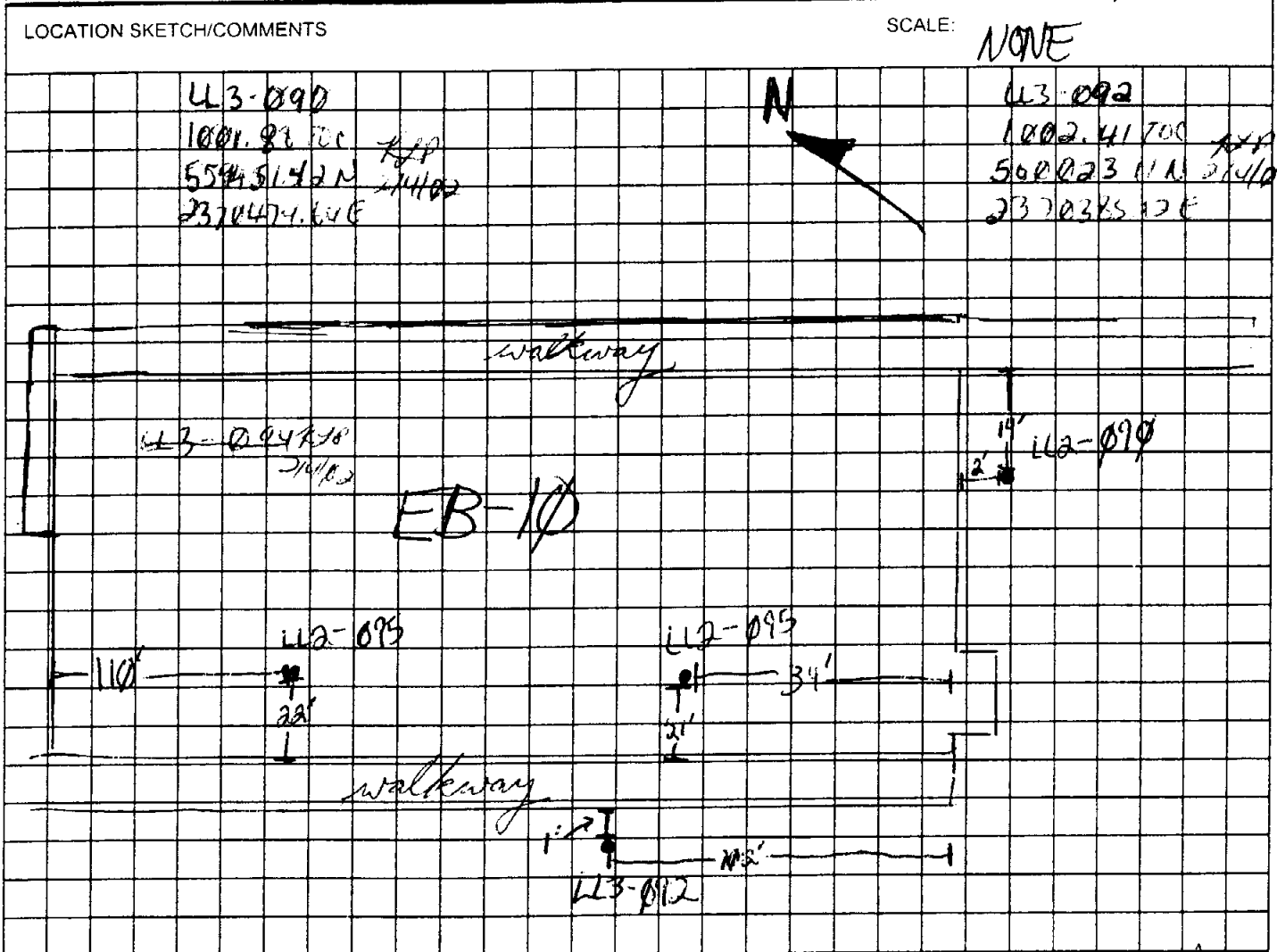
HOLE NUMBER multiple

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER NA	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3		
5. NAME OF DRILLER: SAIC			6. MANUFACTURERS DESIGNATION OF DRILL:		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>3" bucket auger</i>			8. HOLE LOCATION: <i>near building EB-10</i>		
<i>8/6/01</i>			9. SURFACE ELEVATION: NA		
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: NA			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA		
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES: NA
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
		X	X	various	OTHER (SPECIFY)
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
					<i>[Signature]</i>
21. TOTAL CORE RECOVERY: NA%					



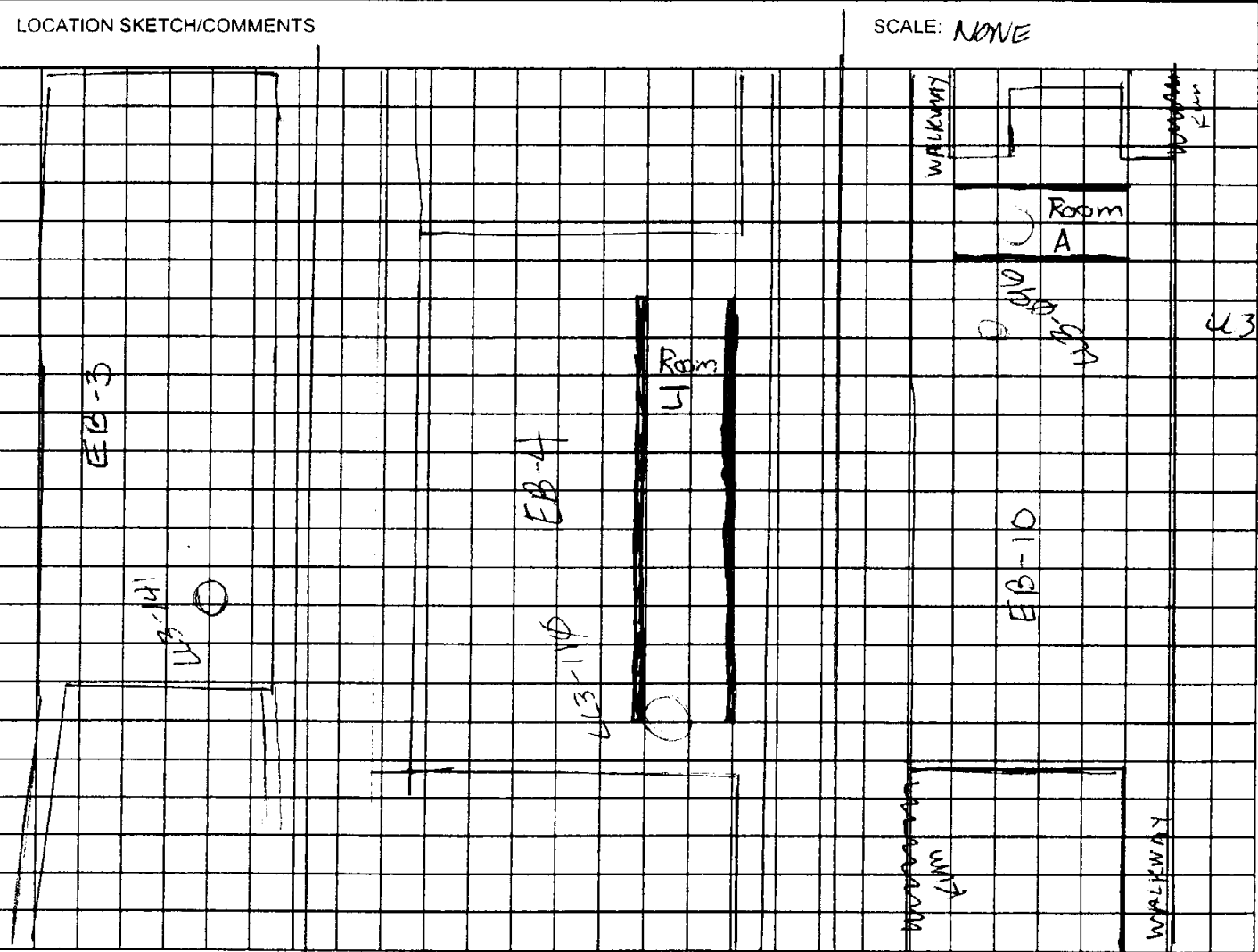
PROJECT RVAAP, Load Line 3 Phase II RI	HOLE NUMBER NA
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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER NA	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3		
5. NAME OF DRILLER: SAIC			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 3" bucket auger		8. HOLE LOCATION: around building EB-10			
2" bucket auger 8/1/01		9. SURFACE ELEVATION: NA		10. DATE STARTED: 8/1/01	
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: NA		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES: NA		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY: NA%	
		VOC		METALS	
				OTHER (SPECIFY): DETERMINED	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY):	
		23. SIGNATURE OF INSPECTOR: <i>[Signature]</i>			



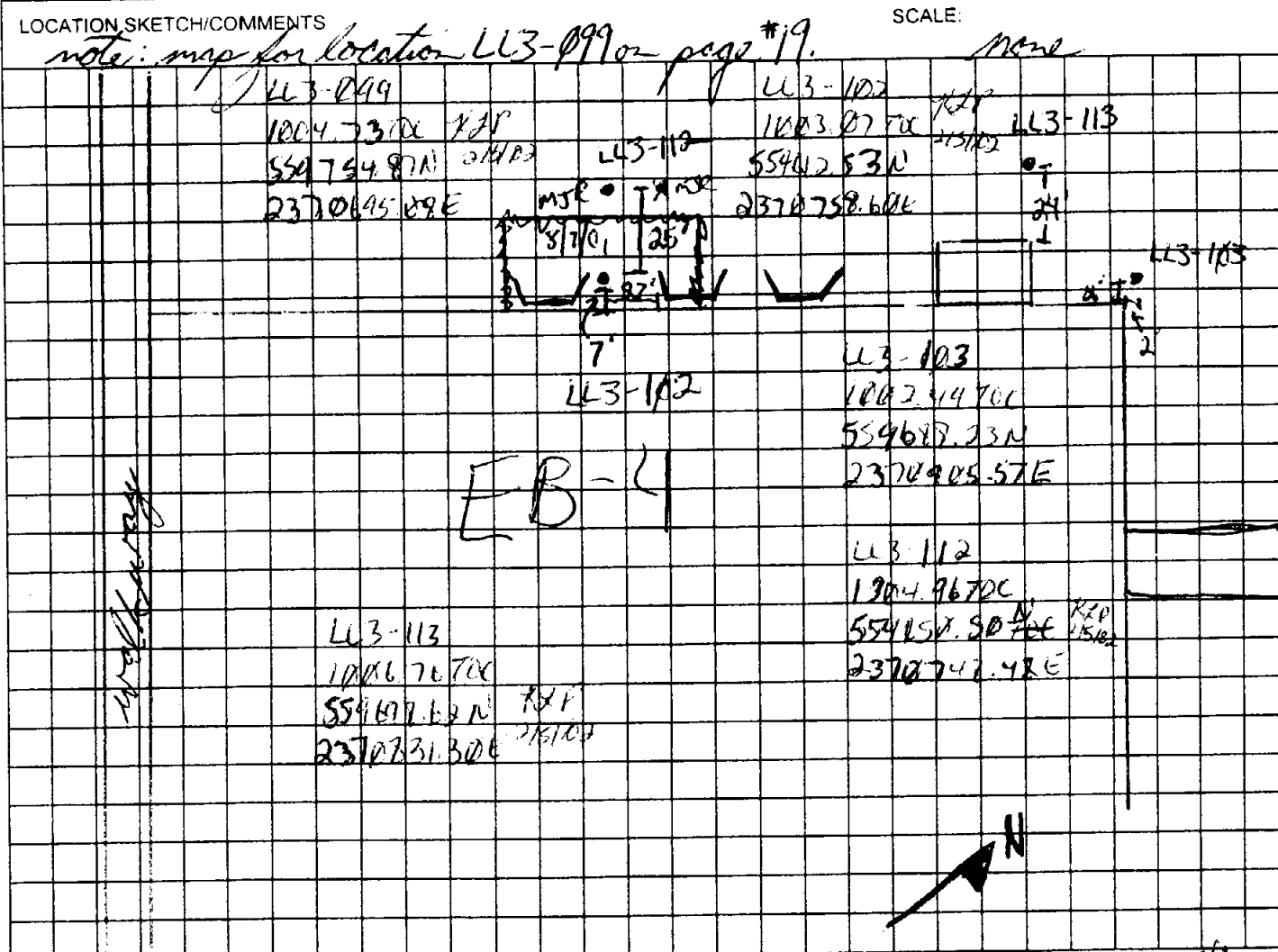
PROJECT: RVAAP, Load Line 3 Phase II RI	HOLE NUMBER: NA
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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER NA	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: LOAD LINE 3		
5. NAME OF DRILLER: NA : Floorsweep			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT NA		8. HOLE LOCATION: LL3110, LL3141, LL3096			
			9. SURFACE ELEVATION: NA		
			10. DATE STARTED: 8/20/01		11. DATE COMPLETED: 8/20/01
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 NA		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
					21. TOTAL CORE RECOVERY: NA
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR



PROJECT: RVAAP, Load Line 3 Phase II RI	HOLE NUMBER: NA
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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER NA	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3		
5. NAME OF DRILLER: SAIC		6. MANUFACTURERS DESIGNATION OF DRILL: NA			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3" bucket auger		8. HOLE LOCATION: NEAR EB-4			
NA		9. SURFACE ELEVATION: NA			
NA		10. DATE STARTED: 8/7/09		11. DATE COMPLETED: 8/7/09	
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: NA		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES: NA		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY: NA	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		X		X	
				OTHER (SPECIFY):	
				OTHER (SPECIFY):	
				OTHER (SPECIFY):	
				23. SIGNATURE OF INSPECTOR: <i>[Signature]</i>	

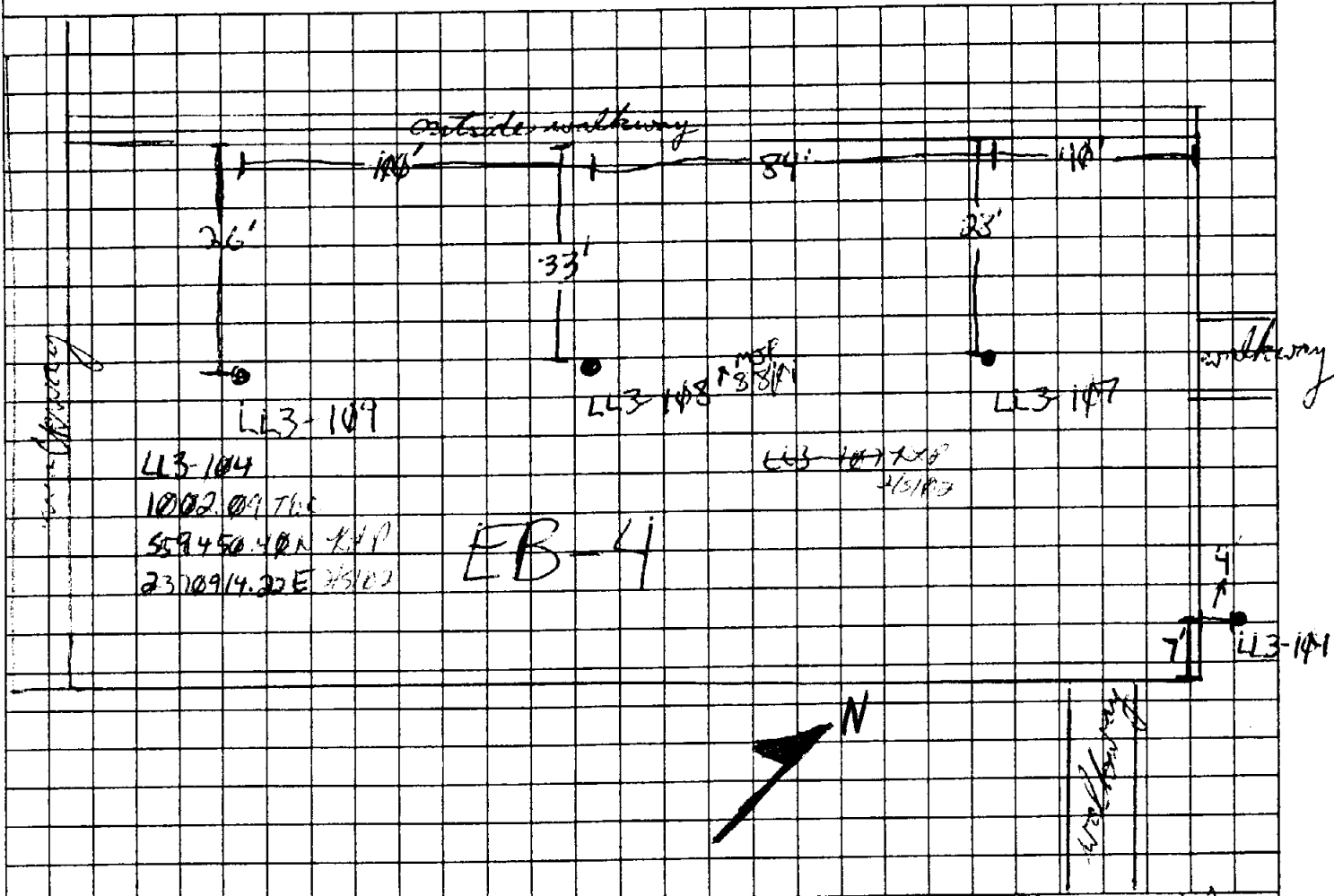


PROJECT: RVAAP, Load Line 3 Phase II RI	HOLE NUMBER: NA
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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER NA	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 of 1	
3. PROJECT RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3		
5. NAME OF DRILLER: SAIC			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 3" bucket auger		8. HOLE LOCATION: near EB-4			
NA		9. SURFACE ELEVATION: NA			
NA		10. DATE STARTED: 8/7/01		11. DATE COMPLETED: 8/8/01	
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: NA		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY): <u>VARIOUS</u>	OTHER (SPECIFY):
			X		21. TOTAL CORE RECOVERY: NA%
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	23. SIGNATURE OF INSPECTOR: <i>[Signature]</i>	

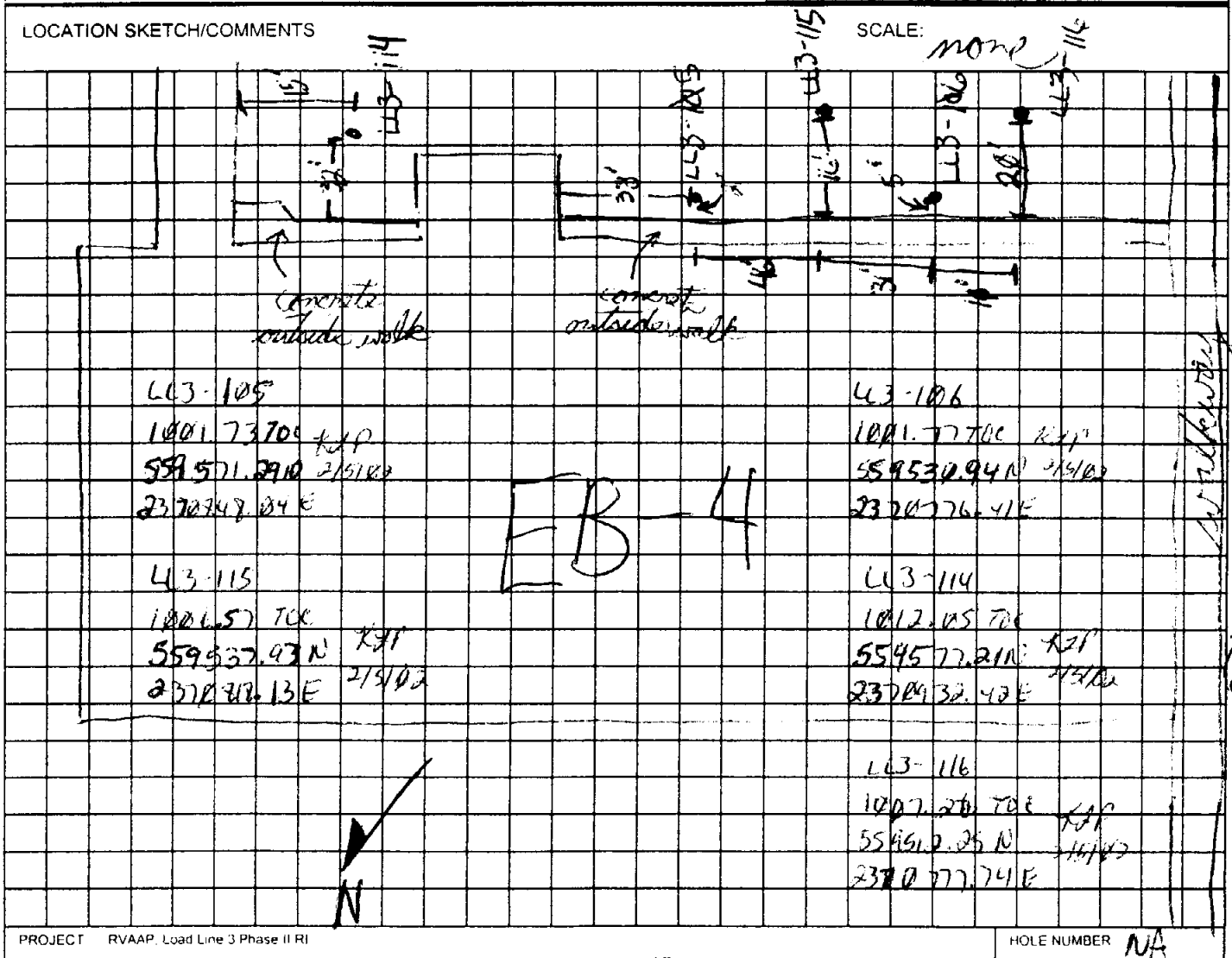
LOCATION SKETCH/COMMENTS

SCALE: NONE



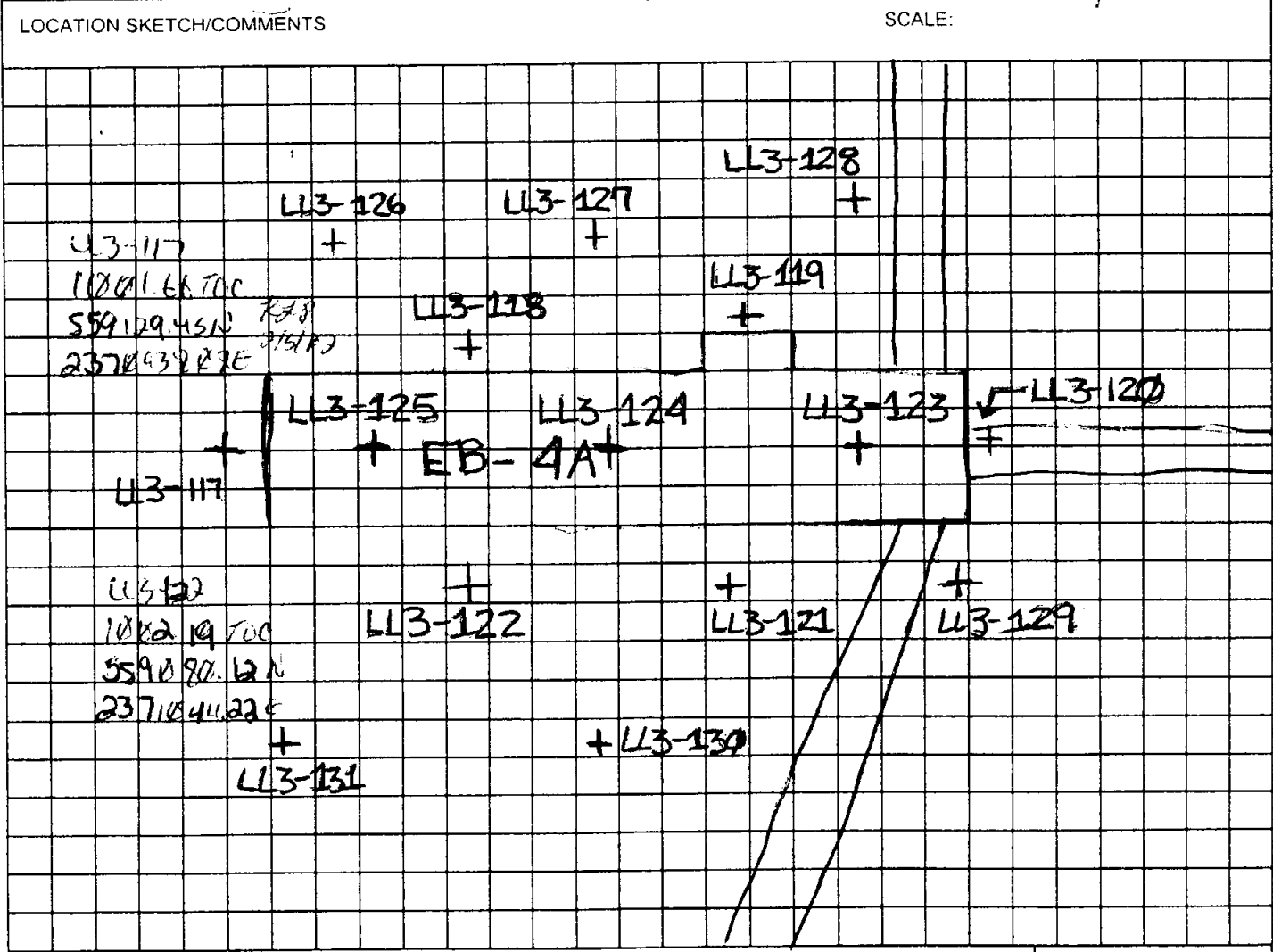
HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER NA	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3		
5. NAME OF DRILLER: SAIC			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 3" bucket auger		8. HOLE LOCATION: near building EB-4			
SAIC		9. SURFACE ELEVATION: NA		10. DATE STARTED: 8/8/01	
				11. DATE COMPLETED: 8/8/01	
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: NA		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			

18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY) various	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY: NA
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR T. Walter Root		



LL3-117, 120, 121, 119, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER Multiple	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET <u>1</u> OF <u>1</u>	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: EB-4		
5. NAME OF DRILLER: John Rich (EOTI)			6. MANUFACTURERS DESIGNATION OF DRILL: Bucket Auger		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 3" 5/8" Bucket Auger, SS 1/2" 1/2" 1/2"		8. HOLE LOCATION: Inside Building			
			9. SURFACE ELEVATION: N/A		
		10. DATE STARTED: 2/1/71	11. DATE COMPLETED: 2/1/71		
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): N/A			
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS LL3-126 (see text page)		VOC	METALS	OTHER (SPECIFY) D.P.C.	OTHER (SPECIFY) Explosives
21. TOTAL CORE RECOVERY %					
22. DISPOSITION OF HOLE Backfilled		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR Randy Hunt



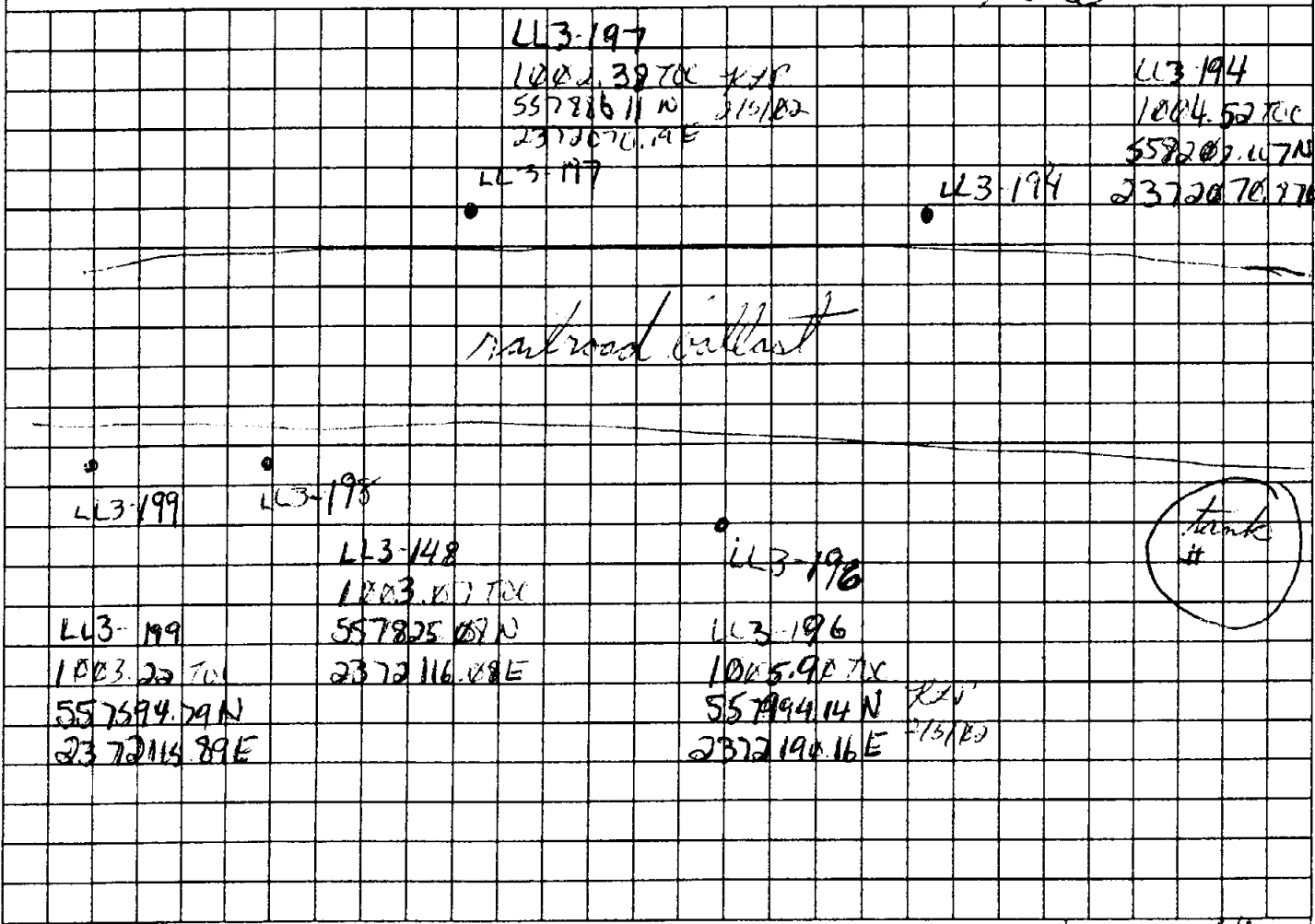
PROJECT: RVAAP, Load Line 3 Phase II RI	HOLE NUMBER: Multiple
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LL3-194, 196, 197, 198, 199 ⁸³

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER NA	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3		
5. NAME OF DRILLER: SAIC			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 3" bucket auger		8. HOLE LOCATION: near tanks			
2" bucket auger		9. SURFACE ELEVATION: NA			
2" bucket auger		10. DATE STARTED: 8/11/01		11. DATE COMPLETED:	
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: NA		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES: NA		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY: NA	
		VOC		METALS	
				OTHER (SPECIFY):	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY):	
23. SIGNATURE OF INSPECTOR: <i>[Signature]</i>					

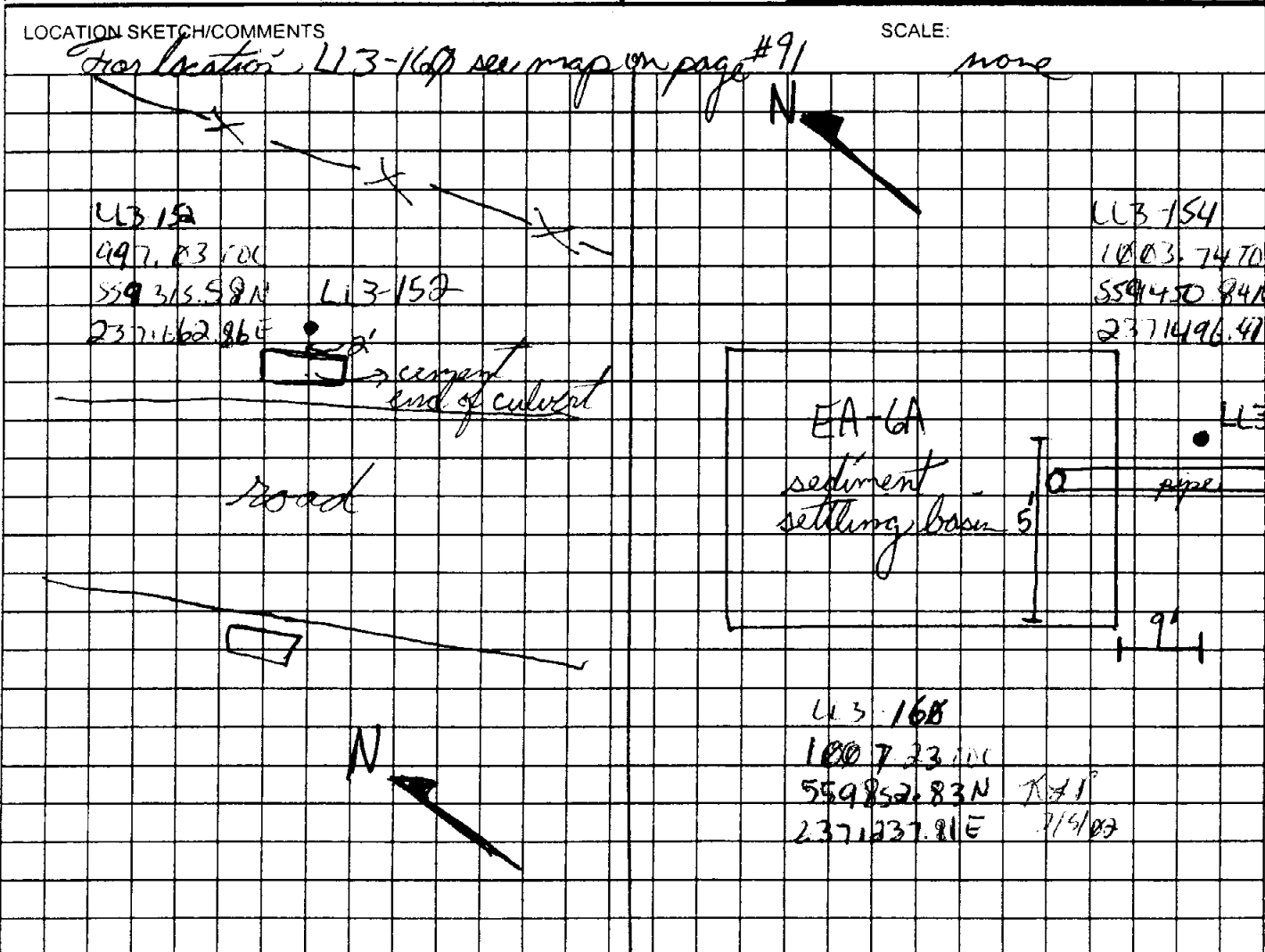
CR 1102

LOCATION SKETCH/COMMENTS SCALE: none



PROJECT: RVAAP, Load Line 3 Phase II RI HOLE NUMBER: NA

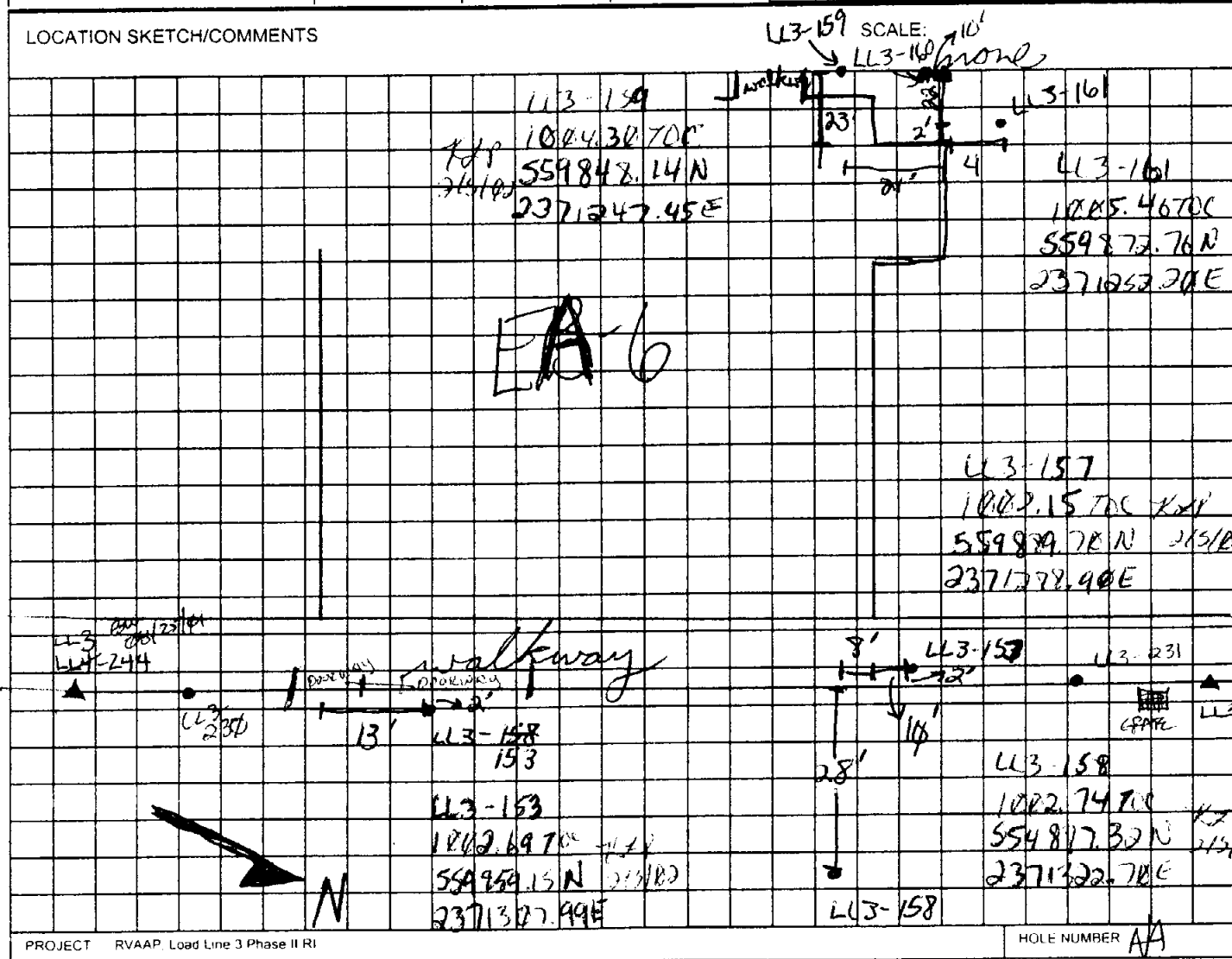
HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER NA	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3 near EB-6		
5. NAME OF DRILLER: SAIC			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: NA		9. SURFACE ELEVATION: NA	
3" bucket auger 1/2" auger 8/13/01		10. DATE STARTED: 8/13/01		11. DATE COMPLETED: 8/13/01	
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: NA		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES: NA		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY: NA	
VOC		METALS		OTHER (SPECIFY)	
		X		wastewaters	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY)	
				23. SIGNATURE OF INSPECTOR: <i>[Signature]</i>	



PROJECT: RVAAP, Load Line 3 Phase II RI	HOLE NUMBER: NA
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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER LL3-153, 157, 158, 159	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET 1 OF 1	
3. PROJECT RVAAP, Load Line 3 Phase II RI			4. LOCATION: LL3		
5. NAME OF DRILLER: SAIC			6. MANUFACTURERS DESIGNATION OF DRILL: NA		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3" bucket auger			8. HOLE LOCATION: near EA-6		
9. SURFACE ELEVATION: NA			10. DATE STARTED: 8/13/01		
			11. DATE COMPLETED: 8/13/01		
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: NA			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES: NA					
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
				OTHER (SPECIFY) various	
21. TOTAL CORE RECOVERY: NA					
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY)	
				23. SIGNATURE OF INSPECTOR: [Signature]	

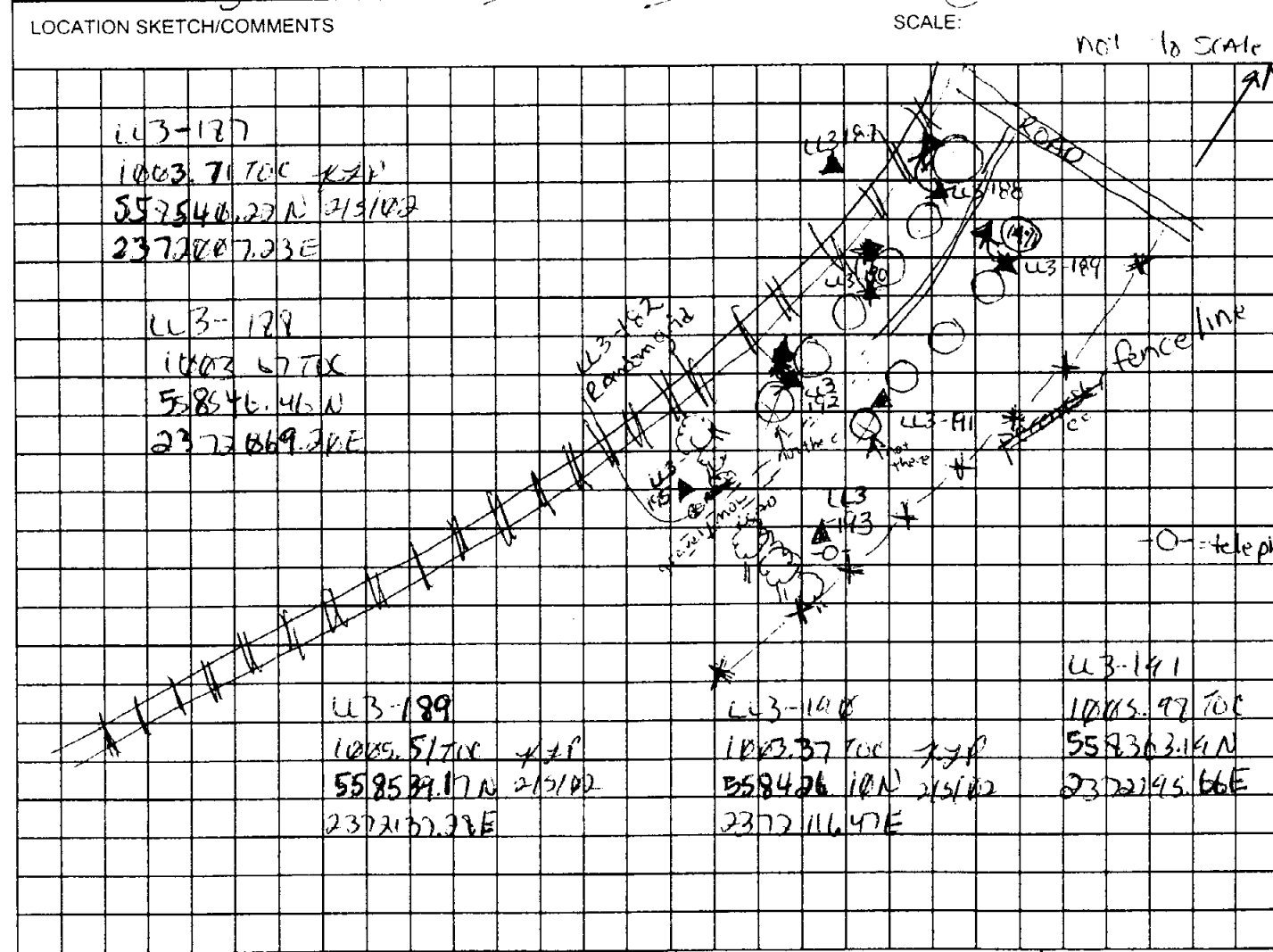
161, 230, 244
231, 245
CR 11-02



KJP
2/5/02

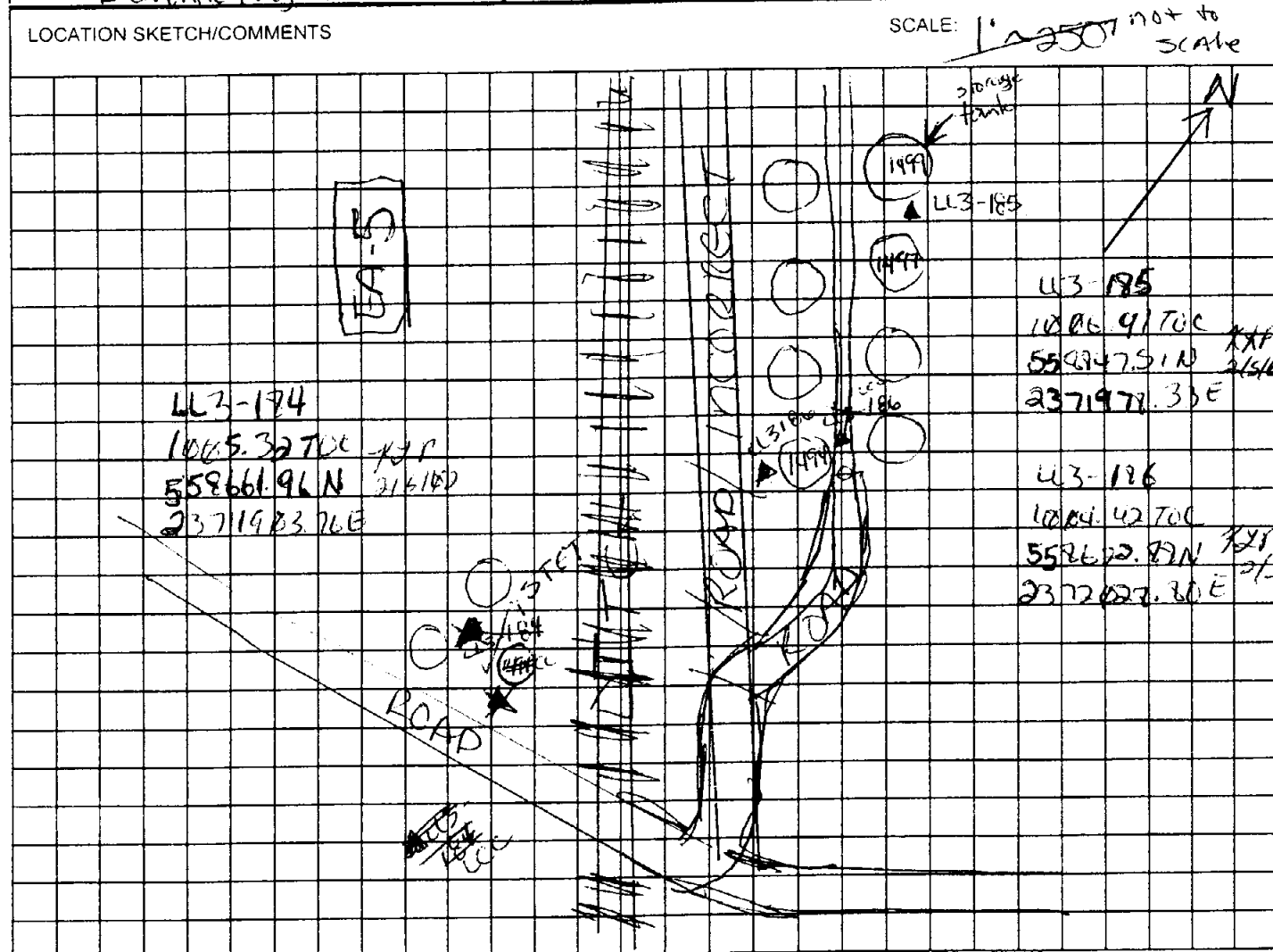
PROJECT RVAAP, Load Line 3 Phase II RI HOLE NUMBER NA

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER multiple	
1 COMPANY NAME: SAIC		2 DRILL SUBCONTRACTOR: NA		SHEET <u>1</u> OF <u>1</u>	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: DLA Storage tanks area		
5. NAME OF DRILLER: Beau Williams			6. MANUFACTURERS DESIGNATION OF DRILL: Bucket Auger		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: DLA Storage tanks area			
3 1/2" SS Bucket Auger SS bowl & SS Spoon		9. SURFACE ELEVATION: N/A			
12. OVERBURDEN THICKNESS: N/A		10. DATE STARTED: 7-10-01			
13. DEPTH DRILLED INTO ROCK: N/A		11. DATE COMPLETED:			
14. TOTAL DEPTH OF HOLE: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
				19. TOTAL NUMBER OF CORE BOXES: N/A	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
See text page					
21. TOTAL CORE RECOVERY %					
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	
Bentback Plug				23. SIGNATURE OF INSPECTOR	
				Kendall Carroll	



PROJECT: RVAAP, Load Line 3 Phase II RI	HOLE NUMBER: multiple
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HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER Multiple	
1. COMPANY NAME: SAIC		2. DRILL SUBCONTRACTOR: NA		SHEET <u>1</u> OF <u>1</u>	
3. PROJECT: RVAAP, Load Line 3 Phase II RI			4. LOCATION: DLA Storage tanks area		
5. NAME OF DRILLER: Paul Lucot			6. MANUFACTURERS DESIGNATION OF DRILL: Bucket Auger		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		3 1/2" SS Bucket Auger		8. HOLE LOCATION: DLA Storage tanks area	
		SS bowl & SS spoon		9. SURFACE ELEVATION: n/a	
		10. DATE STARTED: 8-16-01		11. DATE COMPLETED:	
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): N/A			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		OTHER (SPECIFY)	
See text page					
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
Bentrite Plug				23. SIGNATURE OF INSPECTOR	
				Charles C. Campbell	
19. TOTAL NUMBER OF CORE BOXES: N/A			21. TOTAL CORE RECOVERY %:		



PROJECT: RVAAP, Load Line 3 Phase II RI	HOLE NUMBER: Multiple
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HTRW DRILLING LOG – LOGS

LL3-054	A-33
LL3-055	A-34
LL3-056	A-35
LL3-057	A-36
LL3-058	A-37
LL3-059	A-38
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LL3-231	A-173
LL3-244	A-174
LL3-245	A-175

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HTRW DRILLING LOG

HOLE NUMBER **LL3-054**

PROJECT: **RVAAP, Load Line 3 Phase II RI**

INSPECTOR: **C. Carroll**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	Sandy organic silt with gravel (OL-OT) moist, non plastic, soft fine graded sand, angular, coarse med to fine grain, dark greyish brown (10% 2 1/2)	Ø ppm	N/A	LL30684 8/16/01 @ 1Ø:1Ø	RE Balast on surface refusal @ Ø.8'
	1.0'	Silty sand with gravel (SP) dense, moist, sand, poorly graded, fines run angular, yellowish brown (10% 5/4)				
	1.5'					
	2.0'					
<div style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;"> 8-16-01 @ </div>						

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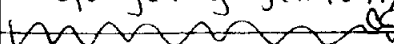
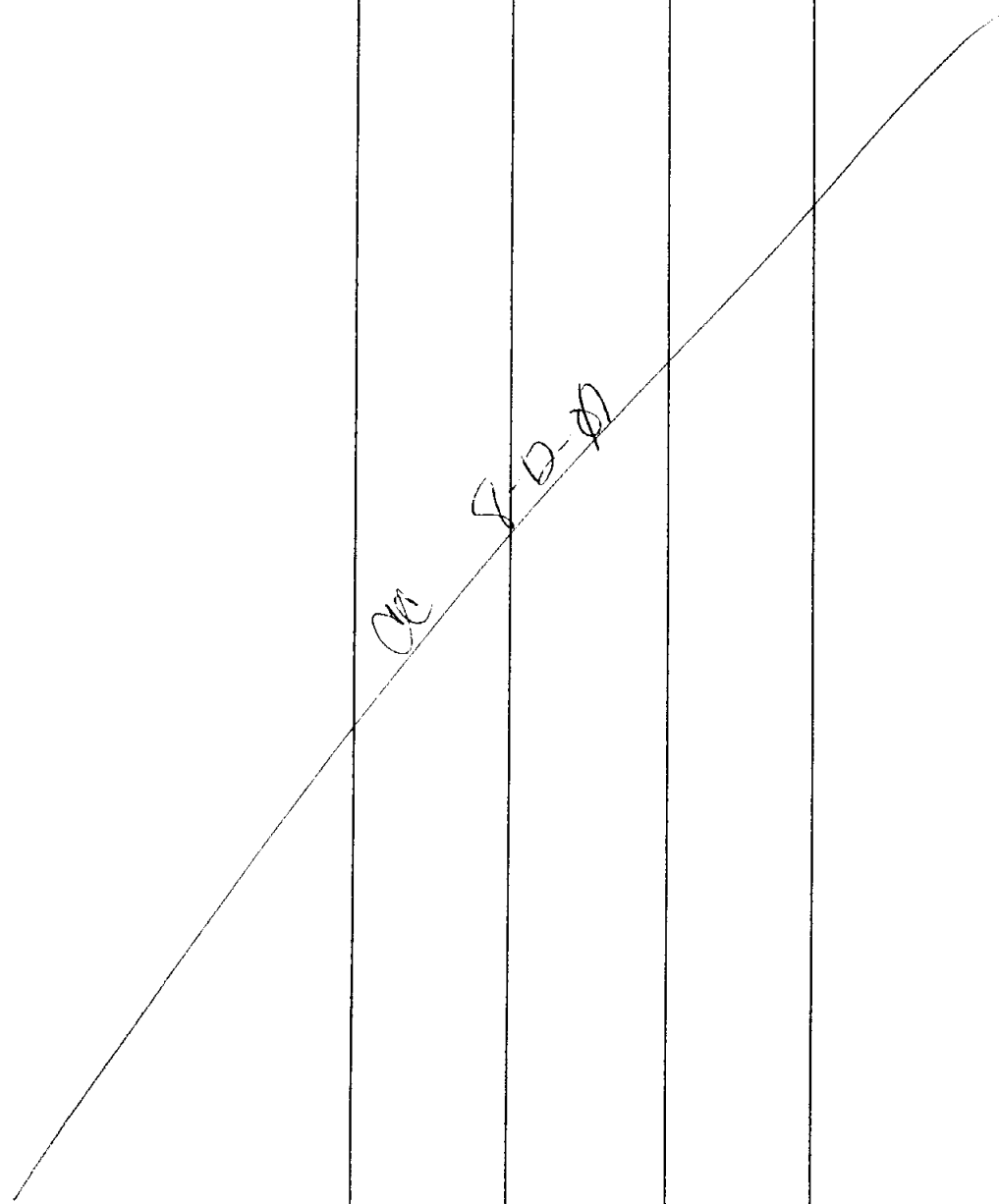
HTRW DRILLING LOG

HOLE NUMBER LL3-055

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR C. Carron

SHEET 1 OF 7

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	Sandy gravel w/ some organic silt (SW) moist, made up by dense, angular gravel & rounded coarse to fine, sand sub-rounded to angular and grades coarse to fine, very dark gray (10% R 3/1)	Ø.Ø ppm	N/A	LL3-055-1 8-10-Ø1 11.00	- R.R. Balast on surface - glass, nails/bolts - paint chips - nylon pieces lots of R.R. Balast
	1.0'		Ø.Ø ppm	N/A	LL3-055-2 8-12-Ø1 13.35 LL3-055-7 propektions at surface Δ	lots of R.R. Balast - glass, nails/bolts - paint chips Refusal @ 2.0'
	1.5'	same as above				
	2.0'					
	2.5'					
	3.0'					
						

OK 9-0-Ø

HTRW DRILLING LOG

HOLE NUMBER LL3056

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

SHEET OF

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	Sand w/ traces of silt (SP) sand fine to med. grain, v. y loose moist, angular, strong brown (2.5 YR 5/8)	Ø ppm	N/A	LL30690 8-10-010 11:50	-RR Balast on surface -paint chips
	1.0'	sandy gravel w/ some organic silt (GW) moist, moderately dense angular gravel, v. y dark gray (10 YR 3/1) (included coarse to fine)	Ø ppm	N/A	LL30691 8-12-010 09:35 1-3ft interval	Refusal 1.5'
	1.5'	same as above but no organic silt				
	2.0'					
	2.5'					
	3.0'					
<p>ce 8-12-87</p>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-057**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	Gravelly CLAY with some sand (L), moist, soft, slightly plastic, gravel is angular, yellowish brown (10 YR 5/4), Gravel is Fine to medium	N/A	N/A	LL30693, LL31143, LL31121, 7/31/01 @ 1500	Several rootlets
	1.0'		Ø. Ø ppm	N/A	LL30694 8/7/01 @ 1525	Awaiting Field Exp. results, 8/7/01 : Instructed to collect 1'-3'
	2.0'					
	3.0'					
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 2em;"> SM 09/22/01 </div>						

HTRW DRILLING LOG

HOLE NUMBER LL3-058

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR P. Lucot

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	R.R. Balast, Poorly graded gravel (GP), moist, angular, dense	N/A	N/A	LL30696 7/31/01 @ 1110	R.R. Balast on surface to 0.7'. Paint chips on the surface.
	1.0'	Clayey SAND with gravel (SW-SC), moist, dense, angular sand and gravel, dark yellowish brown (10YR 3/4)			LL30697 8/7/01 @ 1720	Awaiting Field Exp. Results
	2.0'	1.3'-3.0' Same as above but mottled gray (10YR 5/6) and yellowish brown (10YR 5/8) PSL				
	3.0'	1.5' Sandy CLAY (CL), moist, moderately stiff, slightly plastic, mottled gray (10YR 5/6) and yellowish brown (10YR 5/8)				Refusal @ 3' - unless Beaver used
		Refusal @ 30'				
<p>8-13-01 LCC</p>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-059**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **4** OF **7**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">0.5'</div> <div style="margin-right: 5px;">1.0'</div> </div>	<p>Silty SAND with gravel (SM) and traces of clay, moist loose, gravel is subrounded to subangular and well graded, sand is angular and well graded, light olive brown (2.5Y 5/4).</p>	<p>N/A</p>		<p>LL30699 1410 7/31/01</p>	<p>Awaiting Field Exp. Results</p>
<div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 2em;"> 7/27/01 SMP </div> </div>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-060** / 2

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	Gravelly CLAY with some sand (CL), moist, soft, slightly plastic, gravel is well graded and subangular to subrounded, light olive brown (2.5Y 5/4).	N/A	N/A	LL30702- 7/31/01 @ 1435	Awaiting Field Exp. results
	1.0'		1.3'-3.0': Same as above; but mottled gray (10YR 6/1) and yellowish brown (10YR 5/8).	Ø: Ø ppm	LL30703- 5/7/01 @ 1620 For explosives & metals	
	2.0'					
	3.0'					
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>Ø: Ø ppm</p> </div>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-001**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucat**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">0.5'</div> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 100%; position: relative;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border-bottom: 1px solid black;"></div> </div> </div>	<p>Clayey SAND with gravel (SW-SC), moist, dense, sand is well graded and angular, gravel is well graded and subangular, dark yellowish brown (10 YR 4/4).</p>	N/A	N/A	<p>LL30705 7/31/01 @ 1015</p>	<p>0.5': Concrete on surface</p> <p>Awaiting Field Exp. Results</p>
	<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">1.0'</div> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 100%; position: relative;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border-bottom: 1px solid black;"></div> </div> </div>					
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p style="font-size: 2em;">/</p> <p style="font-size: 1.5em;">09/27/01</p> <p style="font-size: 1.5em;">S14</p> </div>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-062**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **R. Lucet**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5' 1.0'	Clayey SAND with gravel (SW-S), moist, dense, sand and gravel are well graded and subangular, dark yellowish brown (12 VR 4/4).	N/A	N/A	LL30706 7/31/01 @ (925) 1025 TSL	0.7' of Concrete on surface. Awaiting Field Exp. Results
<div style="position: absolute; transform: rotate(-45deg); opacity: 0.5; font-size: 2em;"> 9/29/01 SW </div>						

HTRW DRILLING LOG

HOLE NUMBER LL3-063

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR P. Lucot

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	Sandy CLAY with some gravel (CL), moist, soft, slightly plastic, sand and gravel are angular, dark brown (OYR 3/5).	N/A	N/A	LL30707 8/31/01 @ 0740	Awaiting Field Exp. Results On 8/7/01 @ 1550 we collected propellants from 0'-1' as sample #LL30707 From a hole 0.5' away from original center hole. - Reached 1.5' in center hole before refusal, then moved to an outer hole on the triangle.
	1.0'		D. Ø ppm		LL30708 8/7/01 @ 1600	
	2.0'	Refusal @ 2.0'				2Ø
	3.0'					3Ø

acc 8-13-01

HTRW DRILLING LOG

HOLE NUMBER **LL3-064**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">05'</div> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 100%;"></div> </div> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 5px;">10'</div> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 100%;"></div> </div>	<p>CLAY with some gravel and sand (CL) moist, stiff, slightly to moderately plastic, brown. (10 YR 5/3).</p>	N/A	N/A	<p>LL30710 7/31/01 @ 1540</p>	<p>Awaiting Field Exp. Results.</p>
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 2em;"> 09/27/01 SM </div>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-065** 21

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	Sandy CLAY with some gravel (CL) moist, moderately stiff, slightly plastic, brown. (10% R 4/5)	C. 3 ppm	N/A	LL30713 LL31129 LL31151 1/17/01 155	
	1.0'	Same as above but mottled yellowish brown (10% R 5/8) and light gray (25% 7/5)	B. 5 ppm	N/A	LL3 4714 2-12-91 @ 14.35	Refusal
	1.5'					
	1.6'					
	2.0'					
<div style="position: relative; height: 400px;"> CA 8/12/01 </div>						

HTRW DRILLING LOG

HOLE NUMBER 113-066

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR P. Lucot

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	Clayey GRAVEL with some sand (Gw-GC), moist, dense, gravel is well graded and angular, brown (10 YR 4/3),	0.0 ppm	N/A	1130716 1050	R.R. Balast on Surface
	1.0'		0.0 ppm	N/A	1130717 7-12-01 @ 16.45 1-36 interval	Refusal @ 1.9'
	1.5'	<div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; transform: rotate(45deg); opacity: 0.3;"> CR 8-10-01 </div>				
	1.9'					
	2.0'					
	2.5'					
	3.0'					

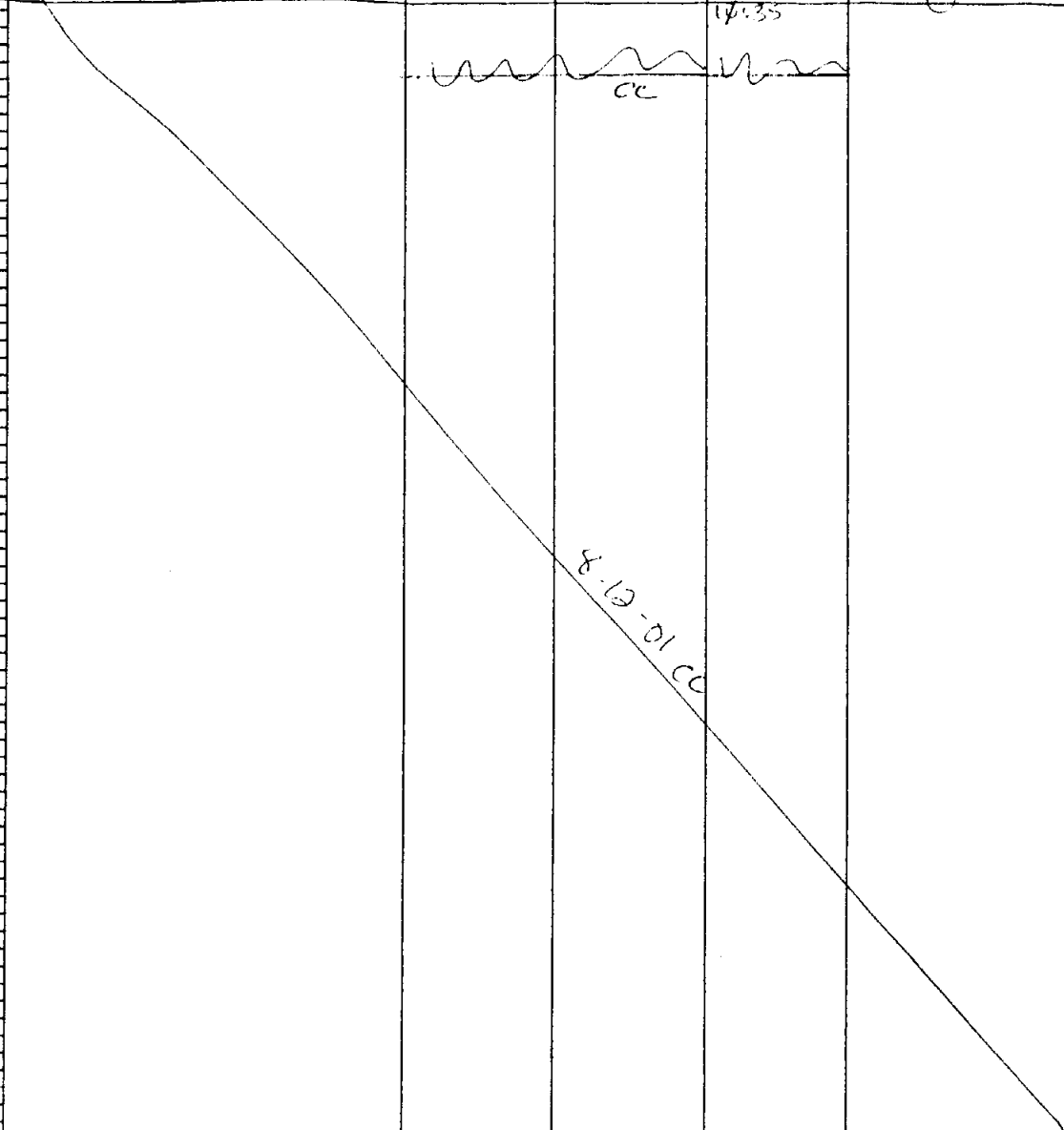
HTRW DRILLING LOG

HOLE NUMBER LL3-067

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR P. Lucot

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	Gravelly CLAY with some sand (C _u) moist, stiff, slightly plastic, brown (18% P, 5/3).	N/A	N/A	LL30719 7/31/01 @ 1510	8.7' of concrete (FS) Floor cored through
	1.0'			N/A	LL30720 8/8/01 @ 0855	Awaiting Field Exp. Results 2/8/01 Instructed to collect 1.5' sample.
	1.5'		φ, φ ppm			
	2.0'					
	2.5'				8-12-01 14:35	Refusal
	3.0'		CC			
						
					8-12-01 CC	

HTRW DRILLING LOG

HOLE NUMBER **LL3-068**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Luost**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">0.5'</div> <div style="margin-right: 5px;">1.0'</div> </div>	Gravelly SAND with some clay (SW), moist, dense, sand is subangular gravel is rounded and well graded, brown (10YR 4/3). Bottom of Boring = 1.0'	N/A	/	LL30722 7/31/01 @ 1645	0.0' - 0.7': Concrete Flooring Subfloor sample
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> FSC 7/31/01 </div>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-069**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)	
	<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">0.5'</div> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 100%; position: relative;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border-bottom: 1px solid black;"> <div style="position: absolute; top: -10px; left: 50%; transform: translate(-50%, -100%);"> 1.0' </div> </div> </div> </div>	<p>Gravelly SAND w/ some clay (SW), moist, dense, sand is subangular, gravel is rounded and well graded, brown (10 YR 4/3).</p>	<p>N/A</p>			<p>LL30723 7/31/01 1700</p>	<p>0.0'-0.7' is concrete</p>
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p style="font-size: 2em; font-weight: bold;">PICK</p> <p style="font-size: 1.5em;">7/31/01</p> </div>							

HTRW DRILLING LOG

HOLE NUMBER **LL3-070**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5' 1.0' 1.5' 2.0'	Sandy CLAY with some gravel (CL), moist, moderately stiff, slightly plastic, brown (10YR 4/3)	0.0 ppm	N/A	LL30724 3/8/01@ 0940	- This sample location is 4" ^{TSL} in the center of a drainage channel. Awaiting Field Lab results.
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 2em;"> 02/27/01 - 54 </div>						

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HTRW DRILLING LOG

LL3-071

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Matthew Root

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	CL-silty clay w/ sand + gravel, 2.5% 3/3, dark blue brown	NA	NA	LL30727 @ 1605	
	1.0					<i>Matthew Root</i> 8/8/01
(The remainder of the log is crossed out with a diagonal line.)						

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HTRW DRILLING LOG

LL3-072

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Matthew Root

SHEET

OF

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	ML - well graded gravelly silt w/ fine sand, 10% R ₂₅ , dark brown organic matter present, dry	NA	NA	LL30730 @ 0.915	
	1.0	Refused @ 0.7' BGS				<i>Matthew Root</i> 8/7/11
(The remainder of the log is crossed out with a diagonal line.)						

HTRW DRILLING LOG

LL3-073

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Matthew Root

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	SM - silty fine sand w/ small fine gravel, dark yellowish brown, 10% R _h , dry to damp	NA	NA	LL30733 @ 1005	
	1.0					Matthew Root 8/9/01
(Remaining rows are crossed out with a diagonal line)						

HTRW DRILLING LOG

LL3-074

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR: *Matthew Root*

SHEET (OF)

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	<i>Clay - GM - well graded, silty gravel w/ little fine sand (< 3%) dark yellowish brown, 10% R_h / 6, dry to damp.</i>			<i>LL30736 LL31146 LL31129 @ 1035</i>	
	1.0	<i>Refusal @ 0.8' BGS</i>				<i>Matthew Root 8/9/01</i>
<i>(The remainder of the log is crossed out with a diagonal line.)</i>						

HTRW DRILLING LOG

LL3-275

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	1.0	GPBM - partly, graded gravel, fine sand + silt; dark yellowish brown 1φ YR 4/6. temp	N/A	N/A	LL3-275 e 1115	
						JG/MLK 8/9/01
/						

HTRW DRILLING LOG

LL3-876

HOLE NUMBER

61

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *J. J. [Signature]*

SHEET 1 OF 1

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HTRW DRILLING LOG

HOLE NUMBER LL3077

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR C. Caron

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	(swam) Silty gravel with some sand, moist, gravel well graded (coarse to fine angular, very dark grayish brown (104R 3/2))	Ø. Øppm	N/A	LL30745 LL31131 LL31156 8/10/01 Ø8:35	- RR ballast on surface - nails, glass, paint chips Completed sample but if deep need ballast cleared
	1.0'					
	1.5'		Ø. Øppm	N/A	LL30746 8-12-01 16:55	holes filled in ballast - removed ballast to the 1' interval w/ shovel
	2.0'					
	2.5'					
	3.0'					
Regulated at 1.5' ballast comprised 98%						
8-12-01 CE						

PROJECT RVAAP, Load Line 3 Phase II RI

HOLE NUMBER LL3077

LL3

HTRW DRILLING LOG

HOLE NUMBER 075

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *Tr Girvat*

SHEET 1 OF 1

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)
	<i>1.0</i>	<i>10YR 4/4 dark yellowish brown silt, most, with gravel, and trace clay</i>	<i>0.0 ppm</i>	<i>NK</i>	<i>LL30748 8958 8/26/01</i>	
				<i>8/26/01 no hits CC</i>		

LL3-

HTRW DRILLING LOG

LL3079

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *J. M. [Signature]*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	<div style="text-align: center;">25</div> <div style="text-align: center;">40</div>	<p><i>SM-silty fine sand w/ fine gravel, very pale brown, 10R 7/4, very dry</i></p>	<p><i>NA</i></p>	<p><i>NA</i></p>	<p><i>LL30751 @ 1620</i></p>	
						<p><i>J. M. [Signature]</i> <i>8/19/91</i></p>

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HTRW DRILLING LOG

113-080

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR: *Walter Root*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		<i>CL - sandy clay, dark yellowish brown, 10YR 4/6, damp</i>			<i>LL30754</i>	
	<i>0.5</i>	<i>SP - poorly graded fine sand, 10YR 7/6, yellow, damp</i>	<i>NA</i>	<i>NA</i>	<i>@ 1030</i>	
	<i>1.0</i>	<i>same as above</i>				<i>Walter Root</i> <i>8/10/01</i>
	<i>1.5</i>					
	<i>2.0</i>		<i>NA</i>	<i>NA</i>	<i>LL30755</i>	
	<i>2.5</i>				<i>@ 1330</i>	
	<i>3.0</i>					<i>Walter Root</i> <i>8/12/01</i>
<i>(The remainder of the log is crossed out with a diagonal line)</i>						

HTRW DRILLING LOG

HOLE NUMBER **43-081**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">0.5'</div> <div style="margin-bottom: 10px;">1.0'</div> <div style="margin-bottom: 10px;">1.5'</div> <div style="margin-bottom: 10px;">2.0'</div> </div>	Silty CLAY with traces of fine sand (SL), moist, soft, slightly to moderately plastic, yellowish brown (17YR 5/4).	∅, ∅ ppm	N/A	LI-30757 8/9/01 @ 0955	- Grass on surface - Several rootlets from
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 2em;"> 43-081-01-154 </div>						

HTRW DRILLING LOG

LL3-082

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *Walt Root*

SHEET 1 OF 7

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	9.5	ML-sandy silt w/ little large gravel, dark yellowish brown, 10YR 4/4, dry, surface veg. present	NA	NA	LL30760, LL31126, LL31148, @ 0815	
	1.0					<i>Walt Root</i> 8/12/01

HTRW DRILLING LOG

113-083 HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI INSPECTOR: *Matthew Root* SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5 1.0	GW-GC - well graded, sub rounded gravel w/ clay + v. fine sand, very dark grayish brown, 10YR 3/2, dry	NA	NA	LL30763 @ 1540	
<div style="position: absolute; top: 20px; right: 20px; text-align: right;"> <i>Matthew Root</i> 8/6/01 </div>						

HTRW DRILLING LOG

HOLE NUMBER 084

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR Loerch

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)
	1.0	Dark yellowish brown (10YR 4/4) clay with sand	NA	NA	LL3-0766 10/55 8/11/01	holes began under about 1 foot of removed ballast
<p style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;">no hits</p>						

HTRW DRILLING LOG

LL3-085

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *Walter Root*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	SM - silty fine sand w/ well graded subrounded gravel, very dark grayish brown, D ₅₀ 3/2, surf. veg. present	NA	NA	LL30769 @ 1555	
	1.0	color change to mottled w/ light yellowish brown, D ₅₀ 1/4				<i>Walter Root</i> 8/6/01

HTRW DRILLING LOG

LL3-086

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

T. Mather Root

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (E)	REMARKS (G)
	0.5	GP-GM - poorly graded gravelly silt + sand, ϕ TR 3/4, very dark gray, dry	NA	NA	LL30172 @ 1015	
	1.0					<i>T. Mather Root</i> 8/6/01

HTRW DRILLING LOG

LL3-087

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Matthew Root

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	9.5	ML - gravelly (well graded), silt w/ very fine sand, brown, 10% 5/3, dry, surface veg. present	NA	NA	LL30775, LL31135, LL31157 @M15	
	1.0					<i>Matthew Root</i> 8/6/01

HTRW DRILLING LOG

LL3-088

13

PROJECT: RVAAP, Load Line 3 Phase II RI INSPECTOR: *Walter Root* HOLE NUMBER: SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5 1.0	SP-SM - poorly graded fine sand w/ silt + med. gravel, brown, 10% R _{4/3} , dry, glass fragments + surface vegetation present	NA	NA	LL30778 @ 1K15	
						<i>Walter Root</i> 8/6/01

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<div style="text-align: center;"> <p>0.5</p> <p>1.0</p> </div>	<p>ML - silt w/ fine sand + well graded gravel dark grayish brown, PYR 4/2 dry, surface veg. present</p>	<p>NA</p>	<p>NA</p>	<p>LL30781 @ 1510</p>	<p style="text-align: right;"><i>Walt Rod</i> 8/6/01</p>
<p style="font-size: 2em; opacity: 0.5;">/</p>						

HTRW DRILLING LOG

LL2-8111
LL2-090

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Matthew Root

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	SM - fine silty sand w/ well graded medium gravel, light olive brown 2.5% dry, surface vegetation	NA	NA	LL30784, LL31127, LL31149 @ 0845	
	1.0	same as above, brown, 10YR4/3			LL30785 @ 0820	<i>Matthew Root</i> 8/1/11
	2.0	Refusal @ 2.0' BGS				<i>Matthew Root</i> 8/7/11
	2.5					
	3.0					

LL3

HTRW DRILLING LOG

HOLE NUMBER 091

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *By G.ivot*

SHEET (OF 1

ELEV (A)	DEPTH (B) <i>7.14</i>	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<i>7.14</i>	<i>104R 3/4 dark yellowish brown, silt, with gravel, some ^{to} 3/11/01 trace clay, slightly moist</i>	<i>Φ.Φ ppm</i>	<i>NA</i>	<i>43 Φ 757</i>	
<i>8/26/01 re 20 M/S</i>						

LL3-

HTRW DRILLING LOG

LL3-092

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Matthew Roof

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	GW-CM - well graded gravel w/ silt + sand, very dark grayish brown, 10R 3/2, blue roots + other organic matter present	NA	NA	LL30790 @ 0.650	
		REFUSAL @ 0.6' BGS				<i>Matthew Roof</i> 8/7/01
	1.0	MSR 8/7/01				

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *M. Kool*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		<i>CH-silty clay, med. plasticity, dark grayish brown, 10PR42, clay, surface veg. present</i>	NA	NA	LL30793 1445	
		<i>grades to mottled, very dry friable clay with silt, 10PR51 and 10PR56</i>				<i>M. Kool 8/6/01</i>
(The remainder of the table is crossed out with a diagonal line.)						

HTRW DRILLING LOG

744
LL2-094
LL3

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Walter Root

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	CONCRETE SLAB	NA	NA	NA	
	1.0	SM - silty sand w/ well graded gravel, 10YR 3/3, dark brown, dry	NA	NA	LL30716 @ 0825	
	1.5	Refusal @ 1.2' BGS				<i>Walter Root</i> 8/1/11

HTRW DRILLING LOG

404
~~LL2-095~~
 LL3

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Walter Root

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	CONCRETE SLAB	NA	NA	NA	
	1.0	SM silty sand w/ well graded gravel, dark olive brown, 2.5Y 3/3, dry	NA	NA	LL30797 @ 0815	
	1.5					<i>Walter Root</i> 8/1/11

HTRW DRILLING LOG

LL3-097

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

SHEET / OF /

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	ML-gravelly silt w/ fine sand, dark blue gray, 5Y3/2, dry, surface veg. present.	NA	NA	LL30779, LL31119, LL31141 @0930	
	1.0	Refusal @ 0.8' BGS				with Rod 8/7/01

HTRW DRILLING LOG

LL3-098

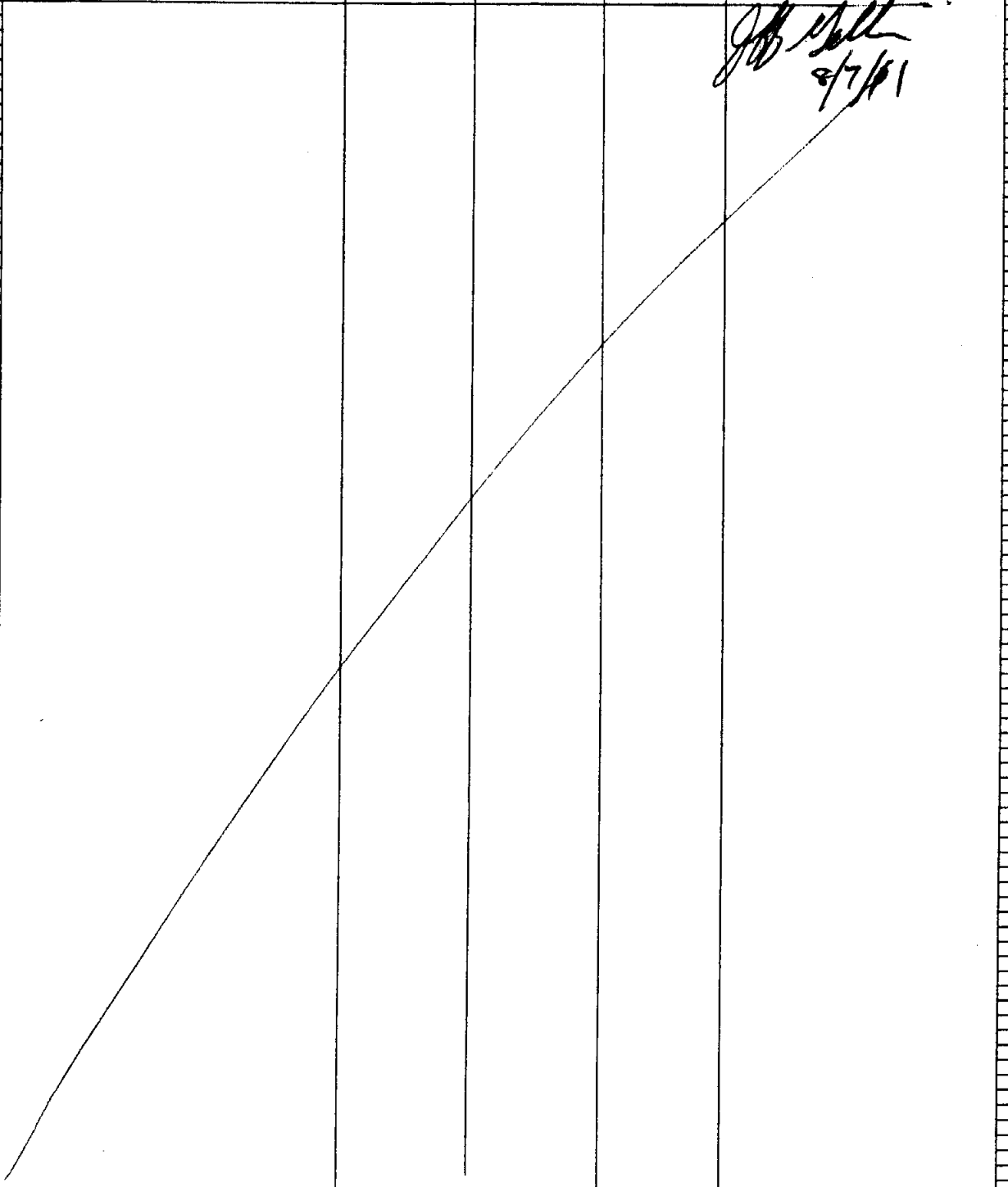
HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Jeff Beller

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1.0	0.5-1.1 silty, clay with sand; dark yellowish brown 1/4R 3/6; dry surface veg. present	N/A	N/A	LL30892 @ 1.052	
						

Jeff Beller
8/7/01

HTRW DRILLING LOG

LL3-099

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Jeff Geller

SHEET OF

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.2	OL/OH organic soil with 15% clay; dark yellowish brown 10YR 3/4 CH-silty clay, high plasticity when wet; mottled, brownish yellow 10YR 6/8 and gray 10YR 6/1	MLA	MLA	LL 30845 @ 1145	
	1.0					Jeff Geller 8/1/07

HTRW DRILLING LOG

HOLE NUMBER **LL3-100** ²¹⁵

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **Jeff Geller**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	CL - medium plasticity clay with silt, brown 10YR 5/3, dry, ^{36 strike} stump , moist to damp	N/A	N/A	LL3P808	
	0.75	Color change to mottled yellowish brown 10YR 5/6 - 10YR 6/1 (Gray)			36 8/7/41 Q #1029	
	1.0	Refusal @ 0.5' BGS				Jeff Geller 8/7/41

LL3-

31

HTRW DRILLING LOG

HOLE NUMBER 101

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR Ty Grivat

SHEET 1 OF 1

ELEV (A)	DEPTH (B) m ft	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.0	104R 4/4 dark yellowish brown silt with gravel	Ø. Ø ppm	NA	LL3 Ø811 Ø9:59 8/11/01	
	1.5'	same as above - alot of RL Balast in sample	Ø. Ø ppm	N/A	LL3 Ø812 LL3 Ø811 8-12 Ø10 16:25	balast was cleared with back hoe to ~ 1.5' depth - we dug further into to get sample
	2.0'			Refusal at 2.0' ft		
8-12-Ø10						

PROJECT RVAAP, Load Line 3 Phase II RI

A-79

HOLE NUMBER 101

LL3-

HTRW DRILLING LOG

LL3-102

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *Matthew Root*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	GW-GM - well graded med. to fine gravel, w/ silt + fine sand, very dark brown, 7.5 YR 2.5/3, dry	NA	NA	LL30814 @ 1445	
	1.0	color change to light yellowish brown, 10 YR 6/4				
	1.0	same as above, dark olive			LL30815 @ 1837	<i>Matthew Root</i> 8/7/01
	1.5	Referenced @ 1.5' BGS				<i>Matthew Root</i> 8/9/01

HTRW DRILLING LOG

LL3-103

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *J. M. Root*

SHEET (OF)

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	Sandy silt (ML) dark olive brown, 2.5% 3/3, damp,	NA	NA	LL30817 @1545	
	1.0	Refusal @ 0.9' BGS				<i>J. M. Root</i> 8/7/01

HTRW DRILLING LOG

39

PROJECT: RVAAP, Load Line 3 Phase II RI		INSPECTOR: <i>Walter Root</i>		HOLE NUMBER: <i>LL3-107</i>		SHEET 1 OF 1	
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)	
	0.5	<i>ML - gravelly silt w/ sand, dark brown, 10R3/3, damp, surface veg. present</i>	<i>NA</i>	<i>NA</i>	<i>LL30820 @ 0850</i>		
	1.0	<i>Refused @ 0.7' BGS</i>				<i>Walter Root 8/18/04</i>	

HTRW DRILLING LOG

45

PROJECT: RVAAP, Load Line 3 Phase II RI INSPECTOR: *W. H. Root* HOLE NUMBER: LL3-105 SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	SP-SC - poorly graded fine sand w/ little clay (~1%), damp to moist	NA	NA	LL30823 @ 1000	
	1.0	Refusal @ 1.0' BGS				<i>W. H. Root</i> 8/8/01

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	GW-GM - well graded, sub angular gravel w/ silt + fine sand, dark brown, 10YR 3/3, dry	NA	NA	LL 30826 @ 1135	
	1.0	Refusal @ 0.8' BGS same as above				Matt Root 8/8/01 note: use slam bar to get part refusal
	1.5					
	2.0	Refusal @ 1.6' BGS				Matt Root 8/11/01
[A large diagonal slash is drawn across the remaining empty space of the log table.]						

360

HTRW DRILLING LOG

LL3-101

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Matthew Root

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	CONCRETE SLAB	NA	NA	NA	
	1.0	SP-SM - poorly graded sand w/ small gravel (subbase fill), 7.5YR4/3 brown, damp	NA	NA	LL30829 @ 1640	
	1.5					<i>Matthew Root</i> 8/7/01
/						

HTRW DRILLING LOG

LL3-108

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

N. Tally Root

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	CONCRETE SLAB	NA	NA	NA	
	1.0	SP-SM - poorly graded sand w/ small gravel (subbase); 7.5% 4/3, brown, damp	NA	NA	LL30830 @ 1650	
	1.5					
	2.0					<i>N. Tally Root</i> 8/7/01
/						

HTRW DRILLING LOG

113-109

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Matthew Hood

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	CONCRETE SLAB	NA	NA	NA	
	1.0	SP-SM - poorly graded sand w/ small gravel (subbase fill), dark yellowish brown, PYR4H, dry	NA	NA	LL30831 @ 0800	MTR 8/8/01
	1.5					
	2.0					<i>Matthew Hood</i> 8/8/01

HTRW DRILLING LOG

LL3-111

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	SP well graded sand w/ gravel, dark grayish brown, 2.5x4/2, dry	NA	AAA	LL30833 @ 1545	
	1.0	Refusal @ 0.8' BGS				Refusal 8/8/01
	1.5	same as above	NA	NA	LL30833, LL31159, LL31137 @ 0845	
	2.0					
	2.5					
	3.0	Refusal @ 3.0' - unable to stop collapse of ballast material!				Refusal 8/11/01

HTRW DRILLING LOG

LL3-112

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *Matthew Root*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	ML - sandy silt w/ little gravel (<10%), light yellowish brown, 10YR 6/4, clay, roots + organic matter present	NA ^{MSR} 8/7/01	NA	LL30836, LL31128, LL31150 @ 405	
	1.9	Refusal @ 0.8' BGS				<i>Matthew Root</i> 8/7/01
(The remainder of the table is crossed out with a diagonal line.)						

HTRW DRILLING LOG

LL3-113

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Matthew Root

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	SM-silty fine sand, 10YR3/3, dark brown, dry, roots + surface veg. present.	NA	NA	LL3-113 (LL30839) @ 1505	
	1.0	Refusal @ 0.7' BGS				<i>Matthew Root</i> 8/7/91
(The remainder of the table is crossed out with a diagonal line.)						

PROJECT RVAAP, Load Line 3 Phase II RI

A-90

HOLE NUMBER LL3-113

LL3-113

HTRW DRILLING LOG

LL3-114

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

V. J. Kott

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	CH - silty clay, high plasticity when wetted, light olive brown, 2.5% w_p , dry + friable	NA	NA	LL30842 @ 0.925	
	1.0					<i>V. J. Kott 8/8/01</i>
(The remainder of the table is crossed out with a diagonal line.)						

HTRW DRILLING LOG

113-115

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Walter Root

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	CH-silty clay w/ fine gravel, high plasticity when wetted, light blue brown, 2.5% 5/4, damp	NA	NA	LL30845 @ 1450	
	1.0					<i>Walter Root</i> 8/8/01

HTRW DRILLING LOG

LL3-116

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *Matthew Root*

SHEET 1 OF 1

HTRW DRILLING LOG

HOLE NUMBER **LL3-117**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	Gravelly SILT with some sand (HL), moist, soft, non plastic, dusky red (10R 3/4). 0.4'-1.0' Same as above, but dark yellowish brown (10YR 4/4).	N/A	N/A	LL30851 1040 8/6/01	0.0'-0.5' Several mottles. Grass on surface and R.R. balast
	1.0'					Awaiting Field Exp. Results
	1.5'	1.7'	p.ppm	N/A	LL30852 8/8/01 @ 0810	8/8/01: Instructed to collect 1'-3' sample
	2.0'	CLAY with some silt and traces of sand (CL), moist, moderately stiff, moderately plastic, gray ^{8.5} mottled				
	2.5'	gray (2.5Y 6/1) and brownish yellow (10YR 6/8).				
	3.0'					
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>0.4' 2.7/01 SA</p> </div>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-118**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucat**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
		<i>sandy</i>				
		<i>PE 8/101</i>				
	0.5'	<p>CLAY with some hard and gravel (10%), moist, slightly to moderately plastic, gravel is mostly fine grained and subangular to subround, dark yellowish brown. (MVA 4/4)</p>	0.8 ppm	N/A	LL30854 8/101 @ 0830	
	1.0'		too wet PID error	N/A	LL30855 8-12-01 @ 15:45	1.0'
	1.5'					
	2.0'					2.0'
	2.5'					
	3.0'					3.0'
<p style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;">09/27/01 SAW</p>						

HTRW DRILLING LOG

HOLE NUMBER LL3-119

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR P. Lucot

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.4	Gravelly CLAY with some sand (CL), moist, moderately stiff, slightly plastic, gravel is mostly coarse, dark yellowish brown (10YR 4/4)	0.0 ppm	N/A	LL30857 8/7/01 @ 0955	Refusal @ 0.4' in 3 of 4 holes. Refusal @ 0.3' in center hole. Several Rootlets
	0.5					
	1.0'	same as above but more gravel from the 0.4' - 1.3 interval	Refusal @ 1.3'	LL30857 8/12/01 14:45 for subsurface	just a digging bar to go from the 0.4 to the 1.0 interval	
	1.3'					
<p>9-12-01</p>						

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HTRW DRILLING LOG

HOLE NUMBER **LL3-120**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **1 OF 1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5' 1.0'	Gravelly CLAY with some gravel (CL), moist, soft, moderately plastic, mottled gray (10YR 6/1) and yellowish brown (10YR 5/4).	Ø.Ø ppm	N/A	LL30860 8/6/01 1635	
<i>7/27/01 SA</i>						

HTRW DRILLING LOG

HOLE NUMBER **LI3-121**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5' 1.0'	Gravelly CLAY with some sand (CL), moist, moderately stiff, slightly plastic, gravel is well graded from coarse to fine, brown (1% YR 5/6).	0.0 ppm	N/A	1130863 1130 8/6/01	Awaiting Field Exp Results
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 2em;"> 11-27-01 SLA </div>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-122** 31

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Luott**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	<div style="text-align: center;">1.0'</div> <div style="text-align: center;">2.0'</div> <div style="text-align: center;">3.0'</div>	<p>Silty CLAY with gravel (CL), moist, soft, slightly to moderately plastic, olive brown (12% 4/3)</p>	N/A	N/A	<p>LS 30866 8/1/01 @ 7045</p>	<p>One of the 5 composite holes had a fossil @ 0.7'</p> <p>Awaiting field exp. Results</p>
<p style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;">continued</p>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-123**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	Concrete				Subfloor Sample under EB-4A
	1.0'					
	1.5'	VOID Space				
	2.0'					
	2.5'					
	3.0'					
	3.5'			PSL 8/1/01		
	4.0'					
	4.5'					
	5.0'				5.7'	
	5.5'	Sandy GRAVEL with silt (GW-GM), dry, very loose, gravel is angular and well rounded, sand is angular and well graded, light gray (2.54-1/2).	N/A	N/A	LL30867 8/1/01 @ 0835	
	6.0'					6.0'
	6.5'					
				PSL 8/1/01		

HTRW DRILLING LOG

HOLE NUMBER LL3-124

PROJECT RVAAP, Load Line 3 Phase II RI

INSPECTOR P. Lovat

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.0'	Concrete				Sub-bar Sample under EB4A
	0.5'					
	1.0'					
	2.0'					
	3.0'	VOID Space				
	4.0'					
	5.0'					
	6.0'					
	7.0'					
	8.0'	CLAY with traces of sand (CL) moist, stiff to very stiff, moderately to highly plastic, mottled brownish yellow with grey and grey (M) (R) (C) (D)	11/A	11/A	LL3-124-70 2/1/21 @ 0895	
	9.0'					
	10.0'					
	11.0'					
	12.0'					
	13.0'					
	14.0'					
	15.0'					
	16.0'					
	17.0'					
	18.0'					
	19.0'					
	20.0'					
	21.0'					
	22.0'					
	23.0'					
	24.0'					
	25.0'					
	26.0'					
	27.0'					
	28.0'					
	29.0'					
	30.0'					
	31.0'					
	32.0'					
	33.0'					
	34.0'					
	35.0'					
	36.0'					
	37.0'					
	38.0'					
	39.0'					
	40.0'					
	41.0'					
	42.0'					
	43.0'					
	44.0'					
	45.0'					
	46.0'					
	47.0'					
	48.0'					
	49.0'					
	50.0'					

HTRW DRILLING LOG

HOLE NUMBER **LL3-124**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.0' - 0.5'	Concrete				Subfloor sample under EB4A
	0.5' - 7.0'	VOID				
	7.0' - 8.0'	Silty CLAY with ^{traces of} gravel (CA), moist, stiff, slightly plastic, gravel is fine to medium coarse and ^{angular} matrix brownish with ^{some} light grey clay	N/A	N/A	LL30871 8/1/01 @ 0500	
	8.0' - 9.0'			PS 8/1/01		

HTRW DRILLING LOG

HOLE NUMBER **LL3-126**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Looft**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Gravelly CLAY with some sand (1/4) most, moderate stiff, sandy plastic (pve) is well sorted coarse and medium, yellowish brown (ZYR 2/4)	B. D. 1/4"	N/A	LL3087E 8/7/01 11300	
<div style="position: relative; width: 100%; height: 100%;"> </div>						

HTRW DRILLING LOG

HOLE NUMBER **LLS-127**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5' 1.0'	Gravelly CLAY (CL) with some sand, stiff, moderately plastic, gravel is graded from coarse to fine and is angular, brown (10 YR 4/3).	0.0 ppm	N/A	LL30875 LL31123 LL31145 8/7/01 @ 0830	
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 2em;"> 09/27/01 SM </div>						

HTRW DRILLING LOG

HOLE NUMBER LL3-128

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR P. Lucot

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">0.5'</div> <div style="margin-right: 5px;">1.0'</div> </div>	Gravelly CLAY with some sand (CL), moist, soft, slightly to moderately plastic, gravel is well graded from fine to medium and sub-angular to rounded, olive brown (2.5 Y 4/3).	\emptyset	N/A	LL30276 3/7/01 1115	
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 2em;"> 09-27-01 SAM </div>						

HTRW DRILLING LOG

HOLE NUMBER: **LL3-129**

PROJECT: **RVAAP, Load Line 3 Phase II RI**

INSPECTOR: **P. Lucot**

SHEET **4** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Clayey SAND and GRAVEL with some organic silt (GO), moist, loose, sand and gravel are angular and well graded. Very dark grayish brown (10 YR 3/2).	∅∅ ppm	N/A	LL3-881 8/6/01 @ 1530	Much silt in the sample.
<div style="position: absolute; transform: rotate(-45deg); opacity: 0.5; font-size: 2em; font-weight: bold;"> 09/29/01 SA </div>						

HTRW DRILLING LOG

HOLE NUMBER **LLS-130**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lindt**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Silty SAND (SM) with some gravel, most, very loose, gravel is rounded to subrounded, and graded from medium to fine. Sand is fine to medium, dark yellowish brown (MRR3A).	ϕ, ϕ ppm	n/a	LLS0841 12/15 8/5/01	30'-0" Several nail fragments, nails, and bent fragments. Additional Field Exp. Results
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 2em;"> 0-2771/12 </div>						

HTRW DRILLING LOG

HOLE NUMBER LL3-131

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR D. Lucot

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		<p>S. Hy CLAY with some gravel and sand (CD), moist, moderately stiff, slightly plastic, brown (10 YR 4/3).</p>	<p>(0/A) 756- 8/6/01 D. P. P. M.</p>	N/A	<p>LL30887 1455 8/6/01</p>	<p>Some brick fragments in the sample</p> <p>Awaiting Field explosives results.</p>
<p><i>79-27-01 SM</i></p>						

HTRW DRILLING LOG

LL3-132

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *Walter Root*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	SM-silty sand, 10YR 5/4, yellowish brown, damp	NA	NA	LL30890 @ 1550	
	1.0	CL-silty clay, 10YR 6/4, yellowish brown, damp				
	1.5	same as above				<i>Walter Root</i> 8/10/01
	2.0		NA	NA	LL30891 @ 1815	
	2.5					
	3.0					<i>Walter Root</i> 8/12/01
/						

HTRW DRILLING LOG

H-3-133

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

M. J. Red

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	<div style="text-align: center;">0.5</div> <div style="text-align: center;">1.0</div>	SM - silty sand, <i>19/10/01</i> yellowish brown, dry, surface veg. present	NA	N/A	LL30893 @ 1455	
						<i>Further Red</i> <i>8/10/01</i>

HTRW DRILLING LOG

LL3-134

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Matt Root

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	SP - poorly graded sand w/ gravel, 10YR 9/2, dark grayish brown, damp, surface seg. present	NA	NA	LL30896	
	1.0	SP - poorly graded sand, 10YR 7/4, very pale brown, damp			@ H30	
						<i>Matt Root</i> 8/10/01
/						

HTRW DRILLING LOG

LL3-135

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR: *Walter Root*

SHEET 1 OF

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	SW-SM - well graded sand w/ sand medium gravel, 10% R3/3 dark brown, dry, surface veg. present	NA	NA	LL308911 @ 1400	
	1.0	same as above, 2.5% 5/4, light olive brown	NA	NA	LL309100 @ 1050	<i>Walter Root</i> 8/10/01
	1.5	Refusal @ 1.3' BGS				<i>Walter Root</i> 8/12/01

HTRW DRILLING LOG

LL3-136

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR: *Matthew Root*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	ML - sandy silt w/ subrounded gravel, 10YR3/3 dark brown, damp, surface veg. present	NA	NA	LL30902 @ 1105	
	1.0	same as above			LL30903 @ 1105	<i>Matthew Root</i> 8/10/01
	2.0	CL - silty clay, stiff, mottled, 10YR6/1 gray, 10YR5/1 yellowish brown	NA	NA		
	3.0					<i>Matthew Root</i> 8/12/01

HTRW DRILLING LOG

LL3-137

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Matthew Rod

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	GP - well graded subrounded gravel w/ bands, black, 2.5% 2.5% damp	NA	NA	LL30905 @ 8745	
	1.0	CL - silty clay w/ mottling, grayish brown, 10% R5/2, damp black yellowish brown, 10% R5/2, damp				
	1.5	same as above, higher plasticity.	NA	NA	LL30905 LL30906 @ 1350	<i>Matthew Rod</i> 8/11/01
	2.0					
	2.5					
	3.0					<i>Matthew Rod</i> 8/12/01

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HTRW DRILLING LOG

LL3-138

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Matthew Hood

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	GW-GM - well graded sandy gravel w/ silt, very dark grayish brown, 10PR 3/2, dry to damp	NA	NA	LL30908 @0910	
	1.0	Refusal @ 0.6 BGS				<i>Matthew Hood</i> 8/19/87
(The remainder of the table is crossed out with a diagonal line.)						

HTRW DRILLING LOG

HOLE NUMBER 139

PROJECT RVAAP, Load Line 3 Phase II RI

INSPECTOR Loerch

SHEET 1 OF

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	1.0	<p>fine silty light yellowish brown (10 YR 5/6) sandy with silt; slightly moist</p>	3.0 ppm	NA	LL3-0911 LL3-1133 Dep LL3-1154 Sp + 07:45 8/11/01	Core holes began under ~1 foot of removed ballast location map pg 43
<p style="font-size: 2em; opacity: 0.5; transform: rotate(-45deg);">Spoke methods</p>						

LL3 -

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HTRW DRILLING LOG

HOLE NUMBER **140**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **Loerch**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	1.0	Yellowish brown (10YR 5/6) fat clay with gray (10YR 5/1) mottles; moist; plastic	Ø. Ø _{nom}	NA	LL3-Ø914 8:15 8/11/01	core holes began under about 1 foot of removed ballast location map pg. 43
<p>8/26/01 no hits</p>						

HTRW DRILLING LOG

HOLE NUMBER LL3-142

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR P. Lucot

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">0.5'</div> <div style="margin-bottom: 10px;">1.0'</div> <div style="margin-bottom: 10px;">1.5'</div> <div style="margin-bottom: 10px;">2.0'</div> <div style="margin-bottom: 10px;">2.5'</div> <div style="margin-bottom: 10px;">3.0'</div> </div>	<p>Gravelly SAND (SW), moist, dense, sand is well graded and subrounded, gravel is well graded and rounded to subrounded, dark grayish brown (10 YR 4/2)</p>	<p>0.0 ppm</p>	<p>N/A</p>	<p>LL30918 LL31120 LL31142 8/9/01 @ Ø85Ø</p>	<p>- Weathered Asphalt on surface.</p> <p>Refusal in 2 of 3 holes @ 0.5'</p>
<p style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;">CA 8-9-Ø1</p>						

2

HTRW DRILLING LOG

HOLE NUMBER LL3-143

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR P. Lucot

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	Gravelly SAND (SP), most dense, gravel is well graded, rounded, sand is poorly graded & subrounded, dark grayish brown (10YR 4/2).	6.1 ppm	N/A	LL30921 S/A/OIE 1035	- Nails and wire - Some rustlets
	1.0'					
	1.5'					
	2.0'					
<p>09-27-01 SEA</p>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-144**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucst**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">0.5'</div> <div style="margin-bottom: 10px;">1.0'</div> <div style="margin-bottom: 10px;">1.5'</div> <div style="margin-bottom: 10px;">2.0'</div> </div>	<p>Silty GRAVEL with some sand (GM), moist, gravel is well graded, and angular to subangular, very dark gray (10YR 3/1).</p>	<p>Ø, Ø ppm</p>	<p>N/A</p>	<p>LL30924 8/9/01@ 1155</p>	<p style="text-align: right;">on</p> <p>- R.R. Balast surface - 16 conn. nail to ^{at} 3.3' - paint chips</p>
<p style="font-size: 2em; opacity: 0.5; transform: rotate(-45deg);">Drilled and sealed</p>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-145**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">0.5'</div> <div style="margin-bottom: 10px;">1.0'</div> <div style="margin-bottom: 10px;">1.5'</div> <div style="margin-bottom: 10px;">2.0'</div> </div>	<p>Silty GRAVEL with some sand (G1), moist, dense, gravel is well graded and angular, vs #4 dark gray (10YR 3/1).</p>	<p>∅. ∅ ppm</p>	<p>N/A</p>	<p>LL30927 1210 8/9/01</p>	<p>- R.R. Ballast on surface - 16 penny nails, wires, & metal debris on surface - paint chips</p>
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>09-27-01 SM</p> </div>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-146**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **1 OF 1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	Gravelly SILT with some sand (M), moist, soft, nonplastic, gravel is subangular & well graded, olive brown (M/R 4/3)	0.0 ppm	N/A	LL30900 5/8/01 @ 1500	Several small fragments from 0.2'-0.4'
	1.0'	CLAY (CL) with some sand, 2.6 moist, stiff, moderately plastic, dark yellowish brown (M/R 4/2)				
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 2em;"> DRILL - 01 544 </div>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-47**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">0.5'</div> <div style="margin-bottom: 10px;">1.0'</div> </div>	<p>Gravelly SILT with some sand (H), moist, soft, nonplastic, gravel is angular to subangular and well graded, olive brown (2.5% F₂₀).</p>	<p>∅∅ ppm</p>	<p>N/A</p>	<p>LL30935 8/8/01 @ 1440</p>	<p>Several roots fragments from 0'-0.6'</p>
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 2em;"> 09-27-01 SM </div>						

HTRW DRILLING LOG

HOLE NUMBER LL3-148 167

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR P. Luost

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">0.5'</div> <div style="margin-bottom: 10px;">1.0'</div> <div style="margin-bottom: 10px;">1.5'</div> <div style="margin-bottom: 10px;">2.0'</div> </div>	Silty CLAY with traces of sand (CL)		N/A	LL30936 8/9/01 @ 1513	
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 2em;"> 0.0 - 2.7 - 01 SW1 </div>						

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HTRW DRILLING LOG

HOLE NUMBER LB-149

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR P. Lucot

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	Sandy GRAVEL with some silt (GW-GM), moist, dense, gravel is well graded and angular, brown (10YR5/3).	∅.∅ ppm	N/A	LI 30939 8/9/01@ 1E15	- Grass on surface
	1.0'	Silty CLAY w/ some fine sand (CL), moist, stiff, slightly to moderately plastic, light olive brown (10YR5/6 2.5Y5/6) PL				
	1.5'					
	2.0'					
	2.5'					
	3.0'					
<p>09-27-01 SAJ</p>						

HTRW DRILLING LOG

HOLE NUMBER: **LL3-150**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR: **P. Lucot**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	Silty GRAVEL with some sand (GM), moist, loose, gravel is well graded and angular to subangular, brown (17 M 4/3)	3.0 ppm	N/A	LL30942 8/3/01 @ 1400	- Brick & cobbles
	1.8'	Sandy GRAVEL with some silty (GW), moist, loose, gravel is well graded and angular, light olive brown (17 M 4/3)				
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 2em;"> 22-27-01 501 </div>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-151**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **P. Lucot**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<p>0.5'</p> <p>1.0'</p>	<p>Gravelly CLAY with some silt and sand (CL), moist, soft, slightly plastic, gravel is well graded and angular, very dark grayish brown (2.5Y 3/2).</p>	<p>0. ϕ ppm</p>	<p>N/A</p>	<p>LL30745 8/8/01 @ 1353</p>	<p>- Bricks, copper wire, and porcelain telephone (line) insulators. gate</p>
<p style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;">S-4</p> <p style="font-size: 1.5em; transform: rotate(-45deg); opacity: 0.5;">09-27-01</p>						

102

HTRW DRILLING LOG

LL3-152

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Jeff Bell

SHEET (OF)

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	8.5	Mt - silt with clay, 2 percent, grayish brown, IDYR 5/2, dry, surface vegetation present	N/A	N/A	LL30948 @ 1445	
	1.0					<i>Jeff Bell</i> 8/13/21

HTRW DRILLING LOG

LL3-153

HOLE NUMBER

9.3

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	GW-GM - fine sandy well graded gravel w/ silt, dark yellowish brown, 10YR 4/6, dry, in ballast area	NA	NA	LL30966 LL31134 LL31153 0845	
	1.0 2.0	Sandy GRAVEL with some clay (GW), moist, dense, gravel is well graded and angular, brown (10YR 4/3) 2.3' - 3.0': Wet	N/A	N/A	LL30952 8/20/01@ 1630	<i>Mark Root</i> 8/13/01
	3.0	Refusal @ 3.0'				

HTRW DRILLING LOG

LL3-154

HOLE NUMBER

101

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

W. J. ...

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	Mt-fine sandy silt w/ medium gravel, brown, 7.5YR 5/3, dry	NA	NA	LL30954 @ 1405	
	1.0					<i>W. J. ...</i> 8/13/07
(The remainder of the table is crossed out with a diagonal line.)						

HTRW DRILLING LOG

LL3-157

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Jeff Bell

SHEET 1 OF

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	ML - sandy, silt with little fine gravel, 2.5YR 5/2, dusky red	N/A	N/A	LL30963 @ 0940	
	0.8	Refusal				
	1.0					
	2.0'	Clayey GRAVEL w/ some silt (GP-60), moist, dense, gravel was well graded and angular to subrounded, dark yellowish brown (10YR 4/4).	N/A	N/A	LL30964 8/20/01 @ 1541	<i>Jeff Bell</i> 8/13/01 - Offset to SE hole of triangle. hit refusal @ 2.0'
	2.5'	Silty CLAY (CL), moist, mod. plastic, mottled, gray (10YR 6/1) and yellowish brown (10YR 5/6).				- Moved to SW hole and collected 2.0-2.8'
	3.0'	Refusal @ 2.8'				Refusal @ 2.8'

HTRW DRILLING LOG

LL3-158

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *Matthew Root*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	ML - sandy silt w/ large gravel, dark brown, 10 PRB/3, damp, in ballast area	NA	NA	LL30966	
	1.0					<i>Matthew Root</i> 8/13/01
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p style="font-size: 4em; transform: rotate(-45deg);">/</p> </div>						

HTRW DRILLING LOG

LL3-159

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Math Rod

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	MH - clayey silt w/ some medium gravel (<15%) light olive brown, 2.5% S _u , dry, friable, surface veg. present	NA	NA	LL30916 LL3069 @ 111P	
	1.0					<i>Math Rod</i> 8/13/01

HTRW DRILLING LOG

LL3-160

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *W. J. Root*

SHEET 1 OF 1

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HTRW DRILLING LOG

LL3-157

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Matthew Root

SHEET 7 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	ML - clayey silt w/ sand + fine gravel, dark yellowish brown, 10R 4/4 dry, surface veg. present.	NA	NA	LL30975 LL30969 @ 1030	
	1.0					<i>Matthew Root</i> 8/13/01
(The remainder of the table is crossed out with a diagonal line.)						

PROJECT RVAAP, Load Line 3 Phase II RI

A-135

HOLE NUMBER

~~LL3-157~~ us

LL3-161

HTRW DRILLING LOG

HOLE NUMBER 167

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

SHEET (OF 1)

ELEV (A)	DEPTH (B) Ft	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (E)	REMARKS (G)
	1.0	10YR 5/4 yellowish brown silt, dry	0.8 ppm	NA	CL3 0193 11/41 8/11/01	
	1.4	10YR 7/6 yellow silt, dry				
<p>S/20/01 CC no hits</p>						

LL3

LL3-

HTRW DRILLING LOG

HOLE NUMBER 168

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *Crivat*

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)
	17.75	10YR 4/4 dark yellowish brown silt, dry	0.0 ppm	NA	LL30994	
	1.0					
<i>8/26/01 CC</i>						

LL3-

HTRW DRILLING LOG

HOLE NUMBER **169**

23

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *By Grivat*

SHEET 1 OF 1

ELEV (A)	DEPTH (B) in Ft	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	1.0	10YR 4/4 dark yellowish brown, silt, dry, with a trace of clay, with roots	CD. CD ppm	NA	LL3 0995 16.12 8/16/01	<div style="position: relative; height: 800px;"> 8-26-01 CD </div>

HTRW DRILLING LOG

HOLE NUMBER 170

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR Ty Grivat

SHEET 1 OF 1

ELEV (A)	DEPTH (B) in ft	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	6.0	10 YR 4/4 dark yellowish brown, silt, with gravel (sandstone and asphalt) dry	Ø. Appr	NA	LL3 0996 15.45 8/10/01	
<p>8/26/01 CE</p>						

LL3- 21

HTRW DRILLING LOG

HOLE NUMBER 171

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *To Grist*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0 ft	104R 4/6 dark yellow sh brown clay, moist, with 104R s/s gray mottles, contains roots	Ø. Ø	NA	LL30997 15:12 8/10/01	<i>Ø</i> 8/26/01 no hits
	1.0 ft					

HTRW DRILLING LOG

HOLE NUMBER 172 LL3-15

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR Tom Girvat

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<u>0.5</u>	<u>104R 5/3 brown silt, dry</u>	<u>0.0 ppm</u>	<u>NA</u>	<u>LL30998</u>	
	<u>1.0</u>	<u>same as above except 104R b/c brownish yellow</u>			<u>13:42</u> <u>8/14/01</u>	
<u>no hits 8/26/01 cc</u>						

LL3-

HTRW DRILLING LOG

HOLE NUMBER

173

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Ty G. Vad

SHEET

OF

1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	PT	Dark yellow to brown (10YR 4/4) silt with some clay, dry	0.0	NA	LL3-0999	Duplicate split
	0.5'				LL3-1132	
	1.0'					

no hits

8-20-01 cc

PROJECT

RVAAP, Load Line 3 Phase II RI

A-142

HOLE NUMBER

LL3-

173

LL3- 37

HTRW DRILLING LOG

HOLE NUMBER 174

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR Ty Erivat

SHEET 1 OF 1

ELEV (A)	DEPTH (B) m	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.8	104R 4/4 dark yellowish brown silt, dry	Φ, Φ ppm	NA	LL3100Φ	
	1.0	104R 7/6 yellow silt, dry with some clay			8/11/81 11.11	
<p>8/26/01 CC no hits</p>						

LL3-

HTRW DRILLING LOG

HOLE NUMBER 175

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *Grotan*

SHEET 1 OF

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	very dry, dark yellowish brown (10YR 4/4) silt	φ.φ ppm P11	NA	LL3-1001 16'31 8/8/81	
	1.0'	very dry, gray (10YR 5/1) silt w/ clay with yellowish yellowish brown (10YR 5/3) mottles	44276			
<p>8/26/01 CC no hrs</p>						

43

HTRW DRILLING LOG

HOLE NUMBER 176

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR Ty Grivat

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	12 ft	104R 5/4 yellow sh brown silt, dry	0.0 ppm	NA	LL3 1002 11.41 8/10/01	
	0.8 1.0	same as above except with clay				
<p>no hits</p> <p>8/26/01 cc</p>						

43-

HTRW DRILLING LOG

HOLE NUMBER 177

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *ty Grivat*

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)
	0.5'	10 YR 5/3 brown silt, dry	0.0 per	n/A	LL3-1003	
	1.0'	10 YR 6/4 light yellowish brown, silt, dry, with clay			1007 8/10/01	
<p><i>no hits</i></p> <p><i>8/26/01 cc</i></p>						

HTRW DRILLING LOG

HOLE NUMBER 178

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR Ty Grivad

SHEET 1 OF 1

ELEV (A)	DEPTH (B) D.F.	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	10YR 5/6 yellowish brown clay with 10YR 6/1	0.0 ppm	NA	LL3 10001 10.27 8/14/01	
	1.0'	gray mottles with clay, rty				
				no hits 2/26/01		

LL3-7

HTRW DRILLING LOG

HOLE NUMBER 179

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *Loerch*

SHEET 1 OF 1

ELEV (A)	DEPTH (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
		Dark yellowish brown (10 YR 7/4) silt; very dry	NA	NA	LL3-1005 09:15 8/18/01	
	1.0	gray (10 YR 5/1) silt with clay; very dry				
<i>8/26/01 cc no hits</i>						

HTRW DRILLING LOG

HOLE NUMBER 180

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR Grotton

SHEET 1 OF 1

ELEV (A)	DEPTH (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Dark yellowish brown (10 YR 4/4) silt; very dry	NA	NA	LL3-10000 08.39 8/10/01	
	1.0	gray silt (10 YR 5/1) silt with clay with yellowish brown (10 YR 5/8) mottles; very dry				
<p>8/26/01 CC no hits</p>						

HTRW DRILLING LOG

HOLE NUMBER 181

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR Loerch

SHEET 1 OF 1

ELEV (A)	DEPTH (FT)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5' 1.0'	Dark yellowish brown (10YR 4/4) silt; very dry	D.D ppm RID 13605	NA	LL3-1007 Ø 1.5 8/10/01	
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>8/26/01 CC 10/1/05</p> </div>						

LL3-13

HTRW DRILLING LOG

HOLE NUMBER 182

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *Ty Grinat*

SHEET 1 OF 1

ELEV (A)	DEPTH (B) <i>in ft</i>	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<i>0.5'</i> <i>1.0'</i>	<i>10 YR 5/4 yellowish brown silt with gravel (railroad ballast), dry</i>	<i>0.0 ppm</i>	<i>NA</i>	<i>401008 1111 8110101</i>	
<i>no hits 8/26/01 CC</i>						

LL3

HTRW DRILLING LOG

HOLE NUMBER 183

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *Ty Grivat*

SHEET 1 OF 1

ELEV (A)	DEPTH (B) m FT	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	.5	10 YR 5/3 brown silt, dry	Ø.Ø	NA	LL3/ØØØ 14.31 8/11/Ø1	
	1.0	10 YR 6/4 light yellowish brown, silt, dry with trace clay				
<p><i>8/26/Ø1 no hits</i></p>						

LL3

HTRW DRILLING LOG

HOLE NUMBER **LL3184**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR: **C. Cancell**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	sandy clay w/ some silt (CL) trace of gravel, moist, stiff, slightly to mod. sticky plastic light olive brown (3.5% 5/4)	φ. φ ppm	N/A	LL3181φ 8-10 φ 10 14:25	
	1.0'	(LAF) with traces of sand; silt, moist, very stiff, mod. plasticity, yellow brown (10% 25%)				
	1.5'					
	2.0'					
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> 24-27-91 5:4 </div>						

HTRW DRILLING LOG

HOLE NUMBER **LL3 185**

PROJECT: **RVAAP, Load Line 3 Phase II RI**

INSPECTOR **C. Canall**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	<div style="text-align: center;">0.5</div> <div style="text-align: center;">1.0</div> <div style="text-align: center;">1.5</div> <div style="text-align: center;">2.0</div>	<p>Sandy Clay w/ some silt (CL) traces of gravel, moist, stiff slightly to moderately plastic light blue brown (2.5Y 7/4)</p>	<p>ϕ. ϕ ppm</p>	<p>n/a</p>	<p>LL31811 8-10-21 @ 14:15</p>	<p>gravel and RR below this surface (thin layer)</p>
<p style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;">09-27-21 S41</p>						

HTRW DRILLING LOG

HOLE NUMBER **LL3186**

PROJECT: **RVAAP, Load Line 3 Phase II RI**

INSPECTOR **C. Canell**

SHEET (OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.2'	thin sheet of black metal with ^{leaves}				
	0.5'	silty clay w/ traces of sand & gravel moist, slightly plastic, soft, silty was organic, dark grayish brown (10YR 4/2) 0.5' below	00 ppm	N/A	LL31012 8-10-01 14:50	grasses
	1.0'	silty clay w/ traces of sand, moist, slight to med. plastic, silty, light brownish gray (10YR 4/2)				
	1.5'					
	2.0'					
<div style="transform: rotate(-45deg); font-size: 2em; font-weight: bold;">09-27-01 SM</div>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-187**

PROJECT: **RVAAP, Load Line 3 Phase II RI**

INSPECTOR **C. Canell**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.2	Silty gravel w/ some sand			LL31813	
	0.5	CLAY with traces of sand & silt, moist, very stiff, med. plastic, yellowish brown (104256)	0.0 ppm	N/A	8-10-010 15.05	
	1.0					
	1.5					
	2.0					
<div style="transform: rotate(-45deg); font-size: 2em; font-weight: bold;"> 09-27-01 SM </div>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-188**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *C. Canoll*

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<div style="text-align: center;">0.5'</div> <div style="text-align: center;">1.0'</div> <div style="text-align: center;">1.5'</div> <div style="text-align: center;">2.0'</div>	Silty clay with some sand (CL), moist, stiff, slight to med. plastic, brown, (10924/3)	0.0 ppm	N/A	LL3 10/14 8-10-81 @ 16.3%	belts - some gravel washed over

0.5' - 2.0' - 0.5' - 1.5'

HTRW DRILLING LOG

HOLE NUMBER **LL3-189**

PROJECT: **RVAAP, Load Line 3 Phase II RI**

INSPECTOR **C. Canall**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.2'	Pea gravel	Ø.Ø ppm	N/A	LL3 11815 LL3 11360 LL3 11580 8-18-01 16:35	
	0.5'	Silty clay with some sand (CL) moist stiff slight to med. plastic, brown (1092413)				
	1.0'					
	1.5'					
	2.0'					
<div style="transform: rotate(-45deg); font-size: 2em; font-weight: bold;"> 09-27-01 SM </div>						

310

HTRW DRILLING LOG

HOLE NUMBER **LL3190**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **C. Canall**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	Silty CLAY with some gravelly sand, moist, stiff, slightly plastic, gravel (angular - olive brown (2.5% 4/3))	D. Φ ppm	N/A	LL3190/16 8-11-00 8:34	Existing materials on surface
	1.0'	0.5-1.0' same as above but trace gravel and sand (incl. mottled, light gray (2.5% 7/1) and olive yellow (2.5% 4/6))				
	1.5'					
	2.0'					
<p>09-27-01 SM</p>						

HTRW DRILLING LOG

HOLE NUMBER: **LL3 191**

PROJECT: **RVAAP, Load Line 3 Phase II RI**

INSPECTOR: **C. Candel**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<div style="text-align: center;"> <p>0.5'</p> <p>1.0'</p> <p>1.5'</p> <p>2.0'</p> </div>	<p>Ø-Ø.6? Salty gravel with some clay and traces of sand, well graded angular gravel (Gm) dense, moist, Brown (10% 2 5/3)</p>	<p>0.4 ppm</p>	<p>N/A</p>	<p>LL3 18/17 8/11/19 @ 9:25</p>	
<p style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;">DP-27-01 LL3</p>						

72

HTRW DRILLING LOG

HOLE NUMBER **LL3192**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **C. Canale**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	Silty clay with Gravelly CLAP with some silt, (CL) moist, stiff, gravel angular, well graded slight to med. plasticity, dense olive brown (2.594/3)	0.0 ppm	N/A	LL3 1058 8-11-71 10:00	- lots of earthworm - lots of roots - refusal on 3 holes cut of counter hole = 1.8'
	1.0'					
	1.5'					
	2.0'					
<p>09-27-01 524</p>						

HTRW DRILLING LOG

HOLE NUMBER **U3 193**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *C. Camell*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">0.5'</div> <div style="margin-bottom: 10px;">1.0'</div> <div style="margin-bottom: 10px;">1.5'</div> <div style="margin-bottom: 10px;">2.0'</div> </div>	<p>Slightly gravel with some sand</p> <hr/> <p>CLAY - with traces of sand and silty, moist, very stiff, mod. plastic yellowish brown (10% R 5%)</p>	<p>φ. φ ppm</p>	<p>N/A</p>	<p>LL 31 & 19 E-11-81 @ 14.15</p>	
<div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.3; font-size: 4em;"> (The remaining log is blank and crossed out with a diagonal line) </div> </div>						

4

HTRW DRILLING LOG

LL3-194

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Matthew Root

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	ML- ^{MSP} silty sandy silt w/ medium gravel, #5/16, light olive brown, dry	NA	NA	LL3194 @ 1355	
	1.0					<i>Matthew Root</i> 3/11/01
(The remainder of the table is crossed out with a diagonal line.)						

HTRW DRILLING LOG

HOLE NUMBER **LC3195**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *C. Cancell*

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	(GM) Silty gravel w/ some clay, poor graded medium gravel, med. dens. non plastic, angular, brown (10% ϕ)	ϕ . ϕ ppm	N/A	LC3195-21 8-11-91 11:48	
	1.4'	Silty clay with some sand (CL) moist stiff, slight to med plastic, brown to grey (2.5% ϕ) and olive yellow (2.5% ϕ)				
	1.5'					
	2.4'					
<p style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;">09-27-01 SM</p>						

HTRW DRILLING LOG

43-196

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Matthew Rod

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	GM - silty well graded gravel w/ sand, 2.5% 4/4, olive brown, dry, surface veg. present	NA	NA	LL31022 @ 1610	
	1.0					<i>Matthew Rod</i> 8/16/01
(The remainder of the table is crossed out with a diagonal line.)						

85

HTRW DRILLING LOG

LL3-197

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Matthew Root

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5	MH - clayey silt, mottled light brownish gray 2.5% CaCO_3 and yellowish brown $\text{Fe}(\text{OH})_3$	NA	NA	LL31023 @ 1425	
	1.0					<i>Matthew Root</i> 8/11/01
/						

36

HTRW DRILLING LOG

43-198

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR *Matthew Rod*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	MH - clayey silt, yellowish brown w/ slight gray mottling, dry surface veg. present	NA	NA	LL31024 @ 140	
	1.0					<i>Matthew Rod</i> 8/11/01
(The remainder of the table is crossed out with a diagonal line.)						

HTRW DRILLING LOG

HOLE NUMBER

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

Matthew Rod
LL3-199

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	MH-clayey silt, 2.5% 3/3, dark olive brown, dry, surface veg. present	NA	NA	LL31925 @ 1530	
	1.0					<i>Matthew Rod</i> 8/11/01
(The remainder of the table is crossed out with a diagonal line.)						

HTRW DRILLING LOG

HOLE NUMBER LL3-226

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR C. Canall

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5	(CL) Clay with traces of sand and silt, sand well graded fine, soft, low to med plastic, moist, mottled	φ.φ ppm	N/A	LL3-1092 8-24-01 9:45	ROOTS Refusal @ CC -did not hit but center hole has concrete drainage underneath
	1.0	(10/2 4/6) dark yellowish brown and (10/25/1) gray	φ.φ ppm	N/A	LL3-1097 #8/25/φ1 φ915 FOR: EXPLOSIVES AND METALS	CONCRETE DRAINAGE TILE IN NORTH-EAST HOLE (EXPLOSIVES) REFUSAL AT 2.3 FT.
	1.5					
	2.0					
	2.5	Refusal @ 2.3'				Returned on 8/27/01 to collect 3'-5' interval but had refusal again. Stepped off to another hole and had refusal on sandstone.
09 - 20 - 01 51A						

117

HTRW DRILLING LOG

HOLE NUMBER U3-207

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR C. Small

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0.5'	(CL) Clay with sand and traces of silt, fine grained, well graded, soft, moist, med. plastic, dense of fat clay, very soft, highly plastic @ .3 (10% 7/1) light gray, mottled (10% 4/1) gray and (10% 5/1) yellowish brown	ØØppn	N/A	U3-1093 X-24-01 18.15	- roots refusal in 2 of 3 holes @ .5 due to culvert refusal @ .5 in center hole due to drainage culvert
	1.0'					
<i>ØØ - 26 - 01 - 54</i>						

110

HTRW DRILLING LOG

U3

HOLE NUMBER 229

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR

C. Canall

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5' 1.0'	(6mL) Clay SH, dry, non plastic, with some gravel, well graded sub-rounded (.1042 4/3) Pale brown	0.5 ppm	N/A	U3-1096 8-24-01 9:20	- roots
<p><i>CP-26-p1 SLA</i></p>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-23**

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **D. Cairrell**

SHEET **1** OF **1**

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.5'	Silty sand (SM) with small cobble: (large angular gravel, (10 1/2 5/3) Brown	Ø.Ø ppm	N/A	LL3-1098 8-24-01 10:55	Some ballast on surface - under walkway - bricks, metal, nails
	1.0'		Ø.Ø ppm	N/A	LL3-1085 8/25/01 10:45 FOR: METALS AND EXPLOSIVES	COBBLE TO DEPTH.
	1.5'					
	2.0'	BEDROCK	REFUSAL	AT 2.0 FT		
<div style="position: relative; width: 100%; height: 100%;"> </div>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-231** 125

PROJECT: RVAAP, Load Line 3 Phase II RI

INSPECTOR **C. Canall**

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	<div style="text-align: center;">0.5'</div> <div style="text-align: center;">1.0'</div>	Silty sand (SM) with small cobble & large angular to sub- rounded gravel (10% 5/3) Brown	0.0 ppm	N/A	LL3-1099 8-24-01 11.00	Sample under walkway - metal nails, brick Center hole refusal @ 0.5 2 @ 3 holes - 6 refusal due to subsidence
		BEDROCK			LL3-1100 08/25/01 1015	REFUSAL AT 1.4 FEET AT 0.5 FT THERE WAS A LAYER OF CORRUGATED TRANSITE PANELING.
<div style="position: relative; width: 100%; height: 100%;"> 0.5 - 2.6' of SM </div>						

1260

HTRW DRILLING LOG

HOLE NUMBER **LL3-244**

PROJECT: **RVAAP, Load Line 3 Phase II RI**

INSPECTOR **B. Williams**

SHEET OF

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<p>0.5</p> <p>1.0</p>	<p>SANDY SILT WITH SOME GRAVEL AND CLAY (ML), MOIST, VERY SOFT, OLIVE BROWN (2.54 4/4)</p>	<p>φ. φ PPM</p>	<p>N/A</p>	<p>LL3 0680 08/25/01 1524 FOR METALS AND EXPLOSIVES</p>	
<p><i>09-240-01 S14</i></p>						

HTRW DRILLING LOG

HOLE NUMBER **LL3-245**

PROJECT: **RVAAP, Load Line 3 Phase II RI**

INSPECTOR **B. Williams**

SHEET OF

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	<div style="text-align: center;">0.5</div> <div style="text-align: center;">1.0</div>	<p>SANDY SILT WITH SOME GRAVEL AND CLAY (ML), DRY, SOFT VERY SOFT, LIGHT YELLOWISH BROWN (2.54 G/3)</p> <p style="font-size: small; margin-left: 20px;">FEW ϕ 25/01</p>	<p>ϕ ϕ PPM</p>	<p>N/A</p>	<p>LL3 0689 08/25/01 1527 FOR: METALS AND EXPLOSIVES</p>	<div style="text-align: right;">0.5</div> <div style="text-align: right;">1.0</div>

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