

APPENDIX D2
FUZE AND BOOSTER/40 MM SOIL SAMPLING LOGS

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APPENDIX D2 SOIL SAMPLING LOG LOCATOR SHEET

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TASK TEAM ACTIVITY LOG SHEET

45

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11-11-03 Sun M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Glenda Leon
Ronda Bailey
Chandler GivensSteve King

Narrative (include time and location):

- 9:08 Arrive at sample location FB3-082 (Steve clears
9:05 Begin Sampling FB3-082-0163-50
for explosives and TMT metals at the S-interval
9:15 Start Sampling FB3-082-0164-50
for explosives and TMT metals at the 1-3
ft interval - hit rock in center, change over to W. explosive
9:30 Finish Sampling, go to next location

~~AG
12.4.03~~

Daily Weather Conditions: A.M. Overcast, light drizzle 08°m, 48°s

Recorded By Chandler Givens P.M. Steve King QA Checked By Darryl Greenwood

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER <i>FBQ-081</i>	
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:		SHEET 1 OF 1	
3. PROJECT: Fuze & Booster/RVAAP		4. LOCATION: Fuze & Booster Quarry Landfill/Pond			
5. NAME OF DRILLER: Andre Leon		6. MANUFACTURERS DESIGNATION OF DRILL: n/a			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: FBQ			
<i>55" bowl from 55 3/8" Auger bucket</i>		9. SURFACE ELEVATION: n/a			
		10. DATE STARTED: 11/11/03		11. DATE COMPLETED: 11/11/03	
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 3"		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <i>Water in hole after 1 ft</i>			
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 %
<i>see attached log</i>					
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR <i>C. Canfield</i>	
LOCATION SKETCH/COMMENTS					SCALE: <i>not to scale</i>

HTRW DRILLING LOG

HOLE NUMBER: 18 - 100

PROJECT: Fuze & Booster/RVAAP

INSPECTOR

SHEET 1 OF 1

TASK TEAM ACTIVITY LOG SHEET

49

PROJECT NAME: Phase III Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11-11-03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Chandler CanallAndy LarenLinda BaileySteve King

Narrative (include time and location):

09:38 Arrive at sample location after Steve showed09:40 Began to sample FBQss-081-0161-50for explosives and TMT metals at the 01
intervalSteve Refusal in all explosive holes at the 11-12"Center hole refusal at the 11", unable to do 1-3 interval10:00 Go to next location12:45
4:00

Daily Weather Conditions: A.M.

Partly cloudy, 40° F

Recorded By

Chandler Canall

P.M.

QA Checked By

Amy Drennan

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER FBD-087
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR: n/a			SHEET 1 OF 1
3. PROJECT: Fuze & Booster/RVAAP		4. LOCATION: Fuze & Booster Quarry Landfill/Pond			
5. NAME OF DRILLER: Andre Leon		6. MANUFACTURERS DESIGNATION OF DRILL: n/a			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: FBD-087			
		9. SURFACE ELEVATION: n/a			
		10. DATE STARTED: 11/11/03			11. DATE COMPLETED: 11/11/03
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		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): water in hole after 7"			
18. GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS <i>see act. 125</i>	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY) 21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR <i>C. Cano</i>	
LOCATION SKETCH/COMMENTS			SCALE:		
<p><i>See page 47 for location</i></p> <p><i>92 FBD-087 in Logbook</i></p> <p><i>#2</i></p>					

HTRW DRILLING LOG

HOLE NUMBER: FBQ 881

52

PROJECT: Fuze & Booster/RVAAP

INSPECTOR

C - Parallel

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)
		Clayey sand, trace 2-14 med. brown pebbles sand free Some gravel, med to pebbles, 20%, silt, + 40% pebbles Reddish sandstone appearing now. (Hole 11-D)	PWD NON GROUTED	N/A	F3932-181 0161-50	Water starts appearing in hole around 6-7"
1						Refusal in all exp holes around 11-D" - Center hole refusal @ 11"
2						
3						
4						
5						
6						
7						
8						
9						
10						

TASK TEAM ACTIVITY LOG SHEET

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PROJECT NAME: Phase III Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11-11-03 Su M Tu W Th F Sa PAGE 1 of
 Task Team Members:

Andy Leon Steve King
Chawki Canall
Linda Bailey

Narrative (include time and location):

10:04 Arrive at sample FBQ-091, Steve pre-cleaned
10:05 Begin to sample FBQss-091-0181-50
 for explosives and TAC metals
 Hit refusal at 6" in explosive holes and
 at the 1ft in other two holes, Refusal at 6"
 at the Center hole unable to go to the
 1-3 ft. interval
10:25 Go to next sample

12-4-03
03

Daily Weather Conditions: A.M. overcast P.M. high 80's

Recorded By Chawki Canall R.M. QA Checked By Amy Greenawalt

HTRW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
FBD-091

55

1. COMPANY NAME: SpecPro, Inc.

2. DRILL SUBCONTRACTOR:

SHEET 1 OF 1

3. PROJECT: Fuze & Booster/RVAAP

4. LOCATION: Fuze & Booster Quarry Landfill/Pond

5. NAME OF DRILLER:

Andre Leon

6. MANUFACTURERS DESIGNATION OF DRILL:

7. SIZES AND TYPES OF DRILLING
AND SAMPLING EQUIPMENTSS bowl / 50m
SS 3 1/2 " Auger bucket

8. HOLE LOCATION: FBD-091

9. SURFACE ELEVATION: n/a

10. DATE STARTED: 11/1/03

11. DATE COMPLETED: 11/1/03

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

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):

18. GEOTECHNICAL SAMPLES

DISTURBED

UNDISTURBED

19. TOTAL NUMBER OF CORE BOXES

n/a

20. SAMPLES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE
RECOVERY %

22. DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

C. Carroll

LOCATION SKETCH/COMMENTS

SCALE:

10' to scale

See pg 47 in the log
 Logbook for a sample

HTRW DRILLING LOG

HOLE NUMBER: FBQ-091

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: C. Carroll

SHEET 1 OF 1

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ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS 0	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE IN CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Clayey-sand, trace silt, med brown-mottled tan, reddish sand tan, fine gravel, med to dark grey, 10% silt	non-flooding	1/4	FBQ091-091 0181-50	refused 6 ft and ciller 1 ft in the other 2 explor holes. Center hole 6"

Re refusal

At 12.4' 05'

TASK TEAM ACTIVITY LOG SHEET

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11-11-03 Su M Tu W Th F SaPAGE 1 OF 1

Task Team Members:

Konda BaileySteve KingAndrea LoonDonald Canall

Narrative (include time and location):

10:35 Arrive at Sample Location - Steve cleans

10:40 Begin to sample BQSS-090-0179-50
for explosive and HAZ metals

Refusal in all 3 explosive holes at
4.5" due to rubble and rocks

Refusal @ 9" in center hole

10:59 Go to next sample

AK12-4-03Daily Weather Conditions: A.M. overcast, mist rain off forP.M.

Recorded By

Donald Canall

QA Checked By

Darryl Greenwall

HTRW DRILLING LOG		DISTRICT: Louisville				HOLE NUMBER <i>FBD-098</i> 59
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR: <i>n/a</i>				SHEET 1 OF 1
3. PROJECT: Fuze & Booster/RVAAP		4. LOCATION: Fuze & Booster Quarry Landfill/Pond				
5. NAME OF DRILLER: <i>Andre Leon</i>		6. MANUFACTURERS DESIGNATION OF DRILL: <i>n/a</i>				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>35 mm / Spinn 35 3/8" Auger bucket</i>		8. HOLE LOCATION: <i>FBD-098</i>				
		9. SURFACE ELEVATION: <i>n/a</i>				
		10. DATE STARTED: <i>11-11-03</i>				11. DATE COMPLETED: <i>11-11-03</i>
12. OVERBURDEN THICKNESS <i>n/a</i>		15. DEPTH GROUNDWATER ENCOUNTERED: <i>n/a</i>				
13. DEPTH DRILLED INTO ROCK <i>n/a</i>		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <i>n/a</i>				
14. TOTAL DEPTH OF HOLE		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <i>n/a</i>				
18. GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES		
20. SAMPLES FOR CHEMICAL ANALYSIS <i>See Act. 102</i>	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE <i>526</i>	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR <i>E. Canale</i>		
LOCATION SKETCH/COMMENTS				SCALE:		
				<i>300 page 47 in 64 Soil logbook 112 for location</i>		

HTRW DRILLING LOG

HOLE NUMBER: F83-870 60

PROJECT: Fuze & Booster/RVAAP

INSPECTOR *Cardall*

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (E)	REMARKS (G)
1		Mafay sand, trace silt, met brown; mottled tan. Mafayish shale, some green and/or probably grey, trace feldspar. Slag plus.	PIN NOT fusilli	N/A	F83-870 Ø174-50	Refused @ 4' above 3' explos. hole roots in base sand roots/stems throughout
1		<u>refusal at 9"</u>				
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

TASK TEAM ACTIVITY LOG SHEET

61

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/10/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Audrey Long
Randi Barber
Chantelle CarrollSteve King

Narrative (include time and location):

1100 - Arrive @ FBI 993. Checked
by S. King. Big sample Ø-1 FBASSP93A18550
1118 Refusal @ 8" all holes

1120 - Depart site

AG
11/10/03

Daily Weather Conditions: A.M.

Overcast drizzle low 40s

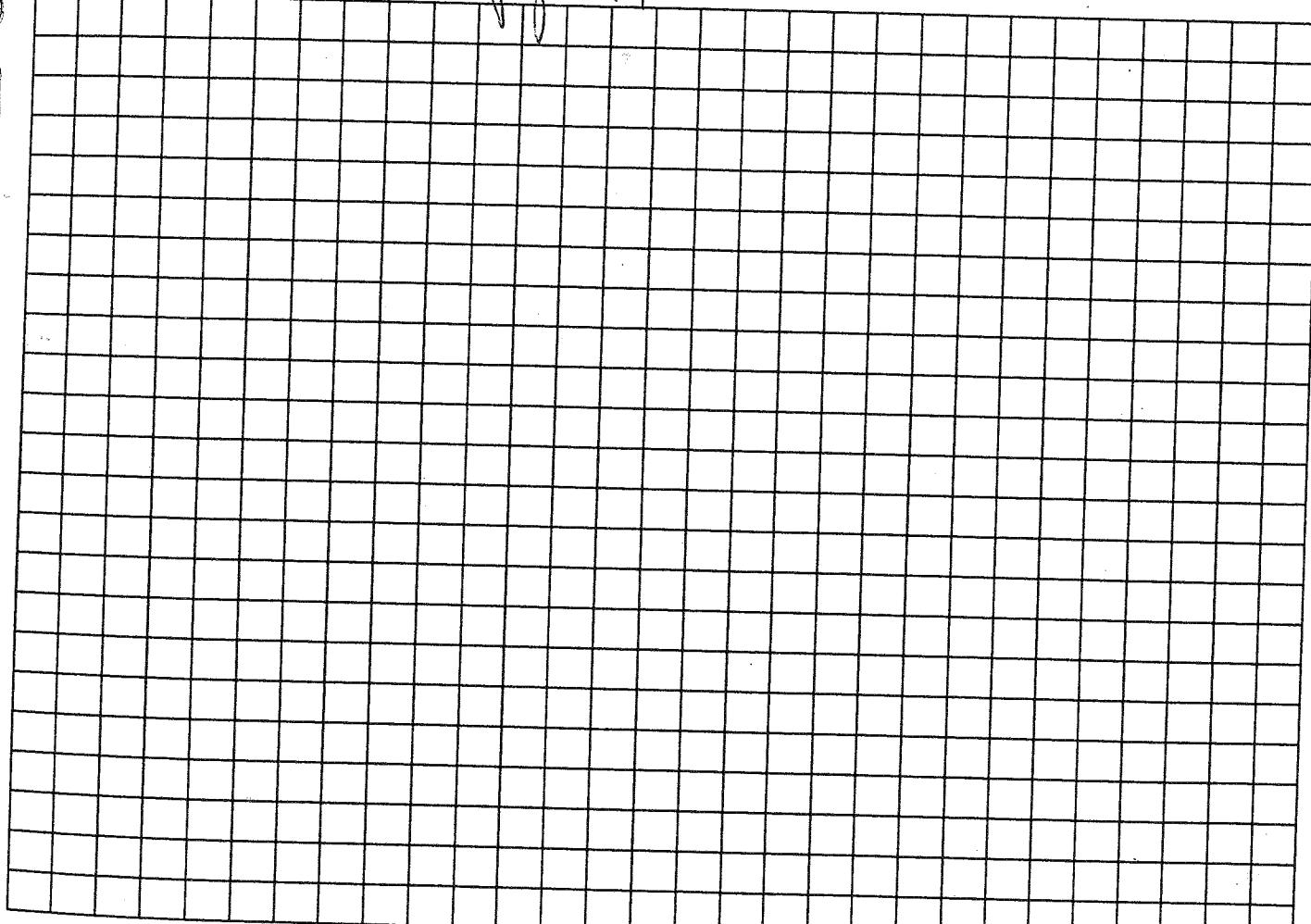
P.M.

Recorded By

SLB

QA Checked By

Amy Greenwald

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER <i>FBSQ #93</i>	
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:			SHEET 1 OF 1	
3. PROJECT: Fuze & Booster/RVAAP		4. LOCATION: Fuze & Booster Quarry Landfill/Pond				
5. NAME OF DRILLER: <i>Andre Legg</i>		6. MANUFACTURERS DESIGNATION OF DRILL:				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>SS Bar</i> <i>SS Auger</i> <i>SS Spudger</i>		8. HOLE LOCATION: <i>FBSQ #93</i>				
		9. SURFACE ELEVATION:				
		10. DATE STARTED: 11-11-03			11. DATE COMPLETED: 11-11-03	
12. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED:				
13. DEPTH DRILLED INTO ROCK		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:				
14. TOTAL DEPTH OF HOLE <i>6'</i>		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):				
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES		
20. SAMPLES FOR CHEMICAL ANALYSIS <i>Spec act. Log</i>		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY % <i>100%</i>
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR <i>JLH/B</i>	
LOCATION SKETCH/COMMENTS <i>See Pg A1</i>						
SCALE:						
						

HTRW DRILLING LOG

HOLE NUMBER: F8093

64

PROJECT: Fuze & Booster/RVAAP

INSPECTOR

SHEET 1 OF 1

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (G)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (ID)	REMARKS (G)
1	1	Med. Br. Sandy clay. Some soft sand. Slight trace gravel Bed 35.			AQ 093 -0185	organic matter

Refusal @ 6'

hole

TASK TEAM ACTIVITY LOG SHEET

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PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/11/03 Su M Tu W Th F Sa PAGE 1 OF 1
Task Team Members:

<u>Andre Leon</u>	<u>Shelley</u>
<u>Randa Wagley</u>	
<u>Chantelle Carroll</u>	

Narrative (include time and location):

- 1125 - Arrive @ FBQ #92. Cleared
 by State Reg. Rep. Brian Engle
 O-1 FBQ #92 M/G FBQ #92 P183 SO
- 1134 - Refusal @ 5", 6", 6", + 6"
- 1140 Leave Site for lunch

A512-4-03

Daily Weather Conditions: A.M.

Overcast, Raining, low 40s

P.M.

Recorded By BBQA Checked By Dawn Hileman

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER FBQ 092
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:			SHEET 1 OF 1
3. PROJECT: Fuze & Booster/RVAAP		4. LOCATION: Fuze & Booster Quarry Landfill/Pond			
5. NAME OF DRILLER: Stan Kue		6. MANUFACTURERS DESIGNATION OF DRILL:			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT G2 Auger SS Sump SS Drill		8. HOLE LOCATION: FBQ 092			
		9. SURFACE ELEVATION:			
10. DATE STARTED: 11-10-03		11. DATE COMPLETED: 11-11-03			
12. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED: 3"			
13. DEPTH DRILLED INTO ROCK		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:			
14. TOTAL DEPTH OF HOLE 6'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):			
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS See OCT. log		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE		BACKFILLED ✓	MONITORING WELL	OTHER (SPECIFY)	OTHER (SPECIFY)
		23. SIGNATURE OF INSPECTOR: <i>[Signature]</i>			21. TOTAL CORE RECOVERY %
LOCATION SKETCH/COMMENTS See Pg 47		SCALE:			

HTRW DRILLING LOG

HOLE NUMBER: HTRW 68

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: *[Signature]*

SHEET 1 OF

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS at bottom of hole	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (if applicable)	REMARKS (if applicable)
		Med brown sandy clay Some S. f. stones gravel, trace S. Red SS	DP		HTRW 91 18550	2 - 6" Refusal! 1 - 5" Refusal Coring 6' Refused Rocks, gravel, leaves etc.

Refusal @ 5'

AC
12-4-03

TASK TEAM ACTIVITY LOG SHEET

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PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/11/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Ronnie Lepp
Ronnie Bailey
Steve King

Narrative (include time and location):

1300 - Arrive @ FBO 160. Cleared by S.King
Begin 0-1' sample FBO ss 1000/19950
1314 - Begin 1-3' sample. Cleared by S.King
Refused @ 18" FBO QSO 1400/26050
1318 - Leave site

AG12-4-03

Daily Weather Conditions: A.M.

P.M.

Overcast, Sprinkle rain, Mid 40°Recorded By RFB

QA Checked By

Amy Fornawar

RW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
F8Q 160

71

COMPANY NAME: SpecPro, Inc.

2. DRILL SUBCONTRACTOR:

SHEET 1 OF 1

PROJECT: Fuze & Booster/RVAAP

NAME OF DRILLER:

Steve King

SIZES AND TYPES OF DRILLING
AND SAMPLING EQUIPMENTSS Sonax
SS Aures
SS 1000

12. OVERBURDEN THICKNESS

13. DEPTH DRILLED INTO ROCK

14. TOTAL DEPTH OF HOLE

10'

4. LOCATION: Fuze & Booster Quarry Landfill/Pond

6. MANUFACTURERS DESIGNATION OF DRILL:

8. HOLE LOCATION:

F8Q 160

9. SURFACE ELEVATION:

10. DATE STARTED: 11-11-03

11. DATE COMPLETED: 11-11-03

15. DEPTH GROUNDWATER ENCOUNTERED:

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:

18. GEOTECHNICAL SAMPLES

DISTURBED

UNDISTURBED

19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE
RECOVERY %

22. DISPOSITION OF HOLE

BACKFILLED

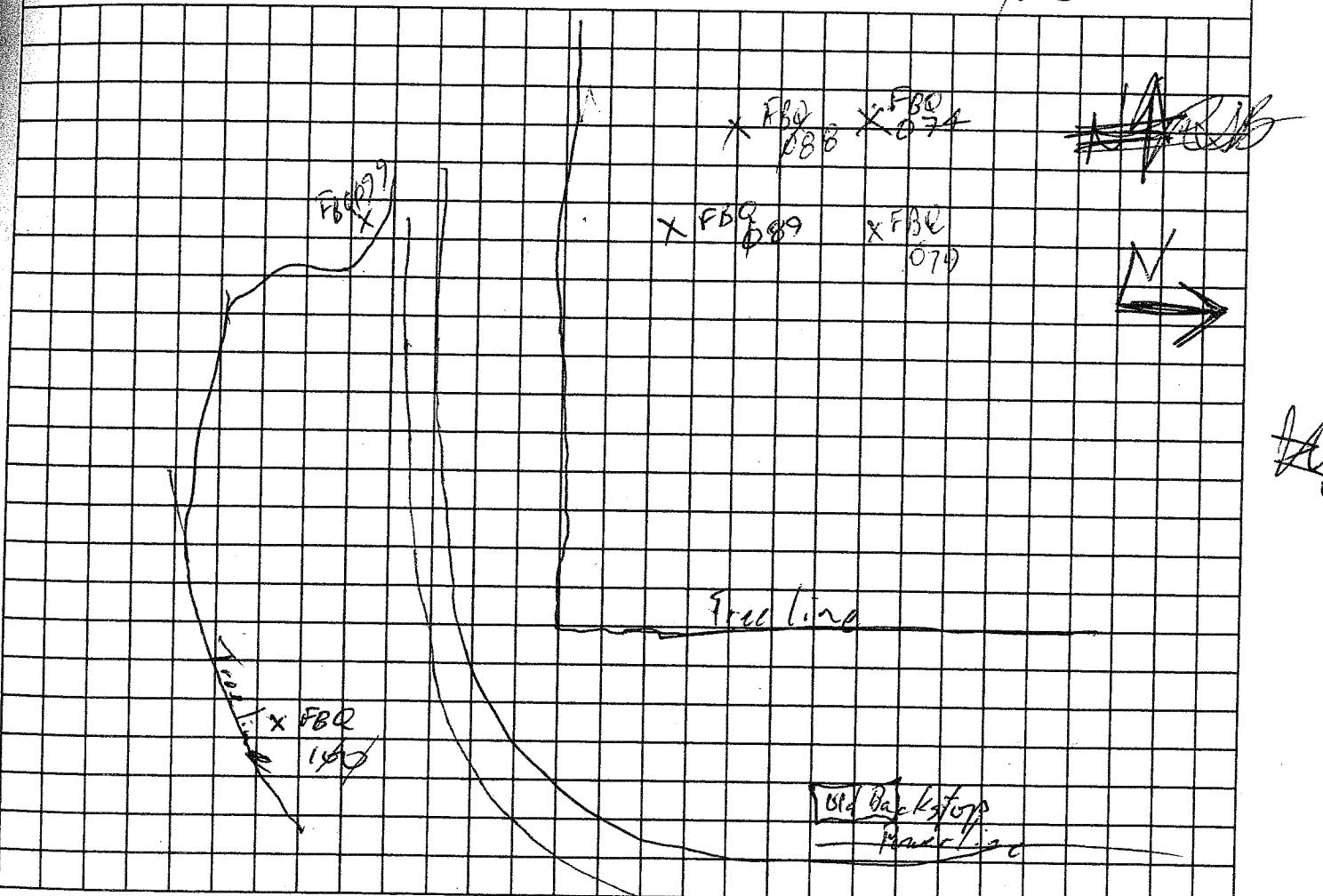
MONITORING WELL

OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

LOCATION SKETCH/COMMENTS

SCALE: n/a



HTRW DRILLING LOG

HOLE NUMBER: FBQ 167 72

PROJECT: Fuze & Booster/RVAAP

INSPECTOR *[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)
		M brn sand and clay some s: H and gravel fine to cobble, trace slag, wet soft				6" { 2' exp 5" { 6" + 5" refuse 1' roots, grass, debris 18" Refusal

TASK TEAM ACTIVITY LOG SHEET

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PROJECT NAME: Phase III Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/10/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Ron & BabyAndrie LenSteve King

Narrative (include time and location):

- 1328 - Arrived @ FBQ 099. Cleared by S. King
Begin Q:1 sample FBQSS-099-0197-50
- 1338 - Refused @ 8"
- 1342 - Leave Site

AG11/10/03

Daily Weather Conditions: A.M.

P.M.Overcast high 40sRecorded By DBBQA Checked By Amy Greenawald

DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER FBQ 099
COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:			SHEET 1 OF 1
PROJECT: Fuze & Booster/RVAAP			4. LOCATION: Fuze & Booster Quarry Landfill/Pond		
NAME OF DRILLER: <i>Steve</i>		6. MANUFACTURERS DESIGNATION OF DRILL:			
AND TYPES OF DRILLING EQUIPMENT <i>SS auger</i> <i>SS bwd</i> <i>SS sidew</i>		8. HOLE LOCATION: FBQ 099			9. SURFACE ELEVATION:
OVERBURDEN THICKNESS			15. DEPTH GROUNDWATER ENCOUNTERED:		
13. DEPTH DRILLED INTO ROCK			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:		
14. TOTAL DEPTH OF HOLE <i>81</i>			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):		
18. GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS <i>See act. log</i>	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %	
LOCATION SKETCH/COMMENTS			SCALE: See pg 71		

HTRW DRILLING LOG

HOLE NUMBER: FBQ697

76

PROJECT: Fuze & Booster/RVAAP

INSPECTOR

SHEET | OF |

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS O	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE IN CORE BOX	ANALYTICAL SAMPLE NO. (ft)	REMARKS (G)
		lt and med brown sandy clay. Some silt and gravel to a 4 red ss. fine to pebbles. moist. Soft.			FBQ13-099 0197-20	6" 8" 8" 8" 8" Roots, grass, leaves, etc.

Refusal @ 8"

AC 12.4-03

TASK TEAM ACTIVITY LOG SHEET

77

PROJECT NAME: Phase III Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/11/03 Su M T W Th F Sa PAGE 1 OF 1

Task Team Members:

Ronel-Baluy
Andre Leon
Steve King

Narrative (include time and location):

- 1345 - Arrive @ FBA 089. (Placed by SK)
Begin D-1 Sample FBOSS-089-017, L-00
1349 - Refusal @ 6", 6", 5", 5"
1357 - Leave Site

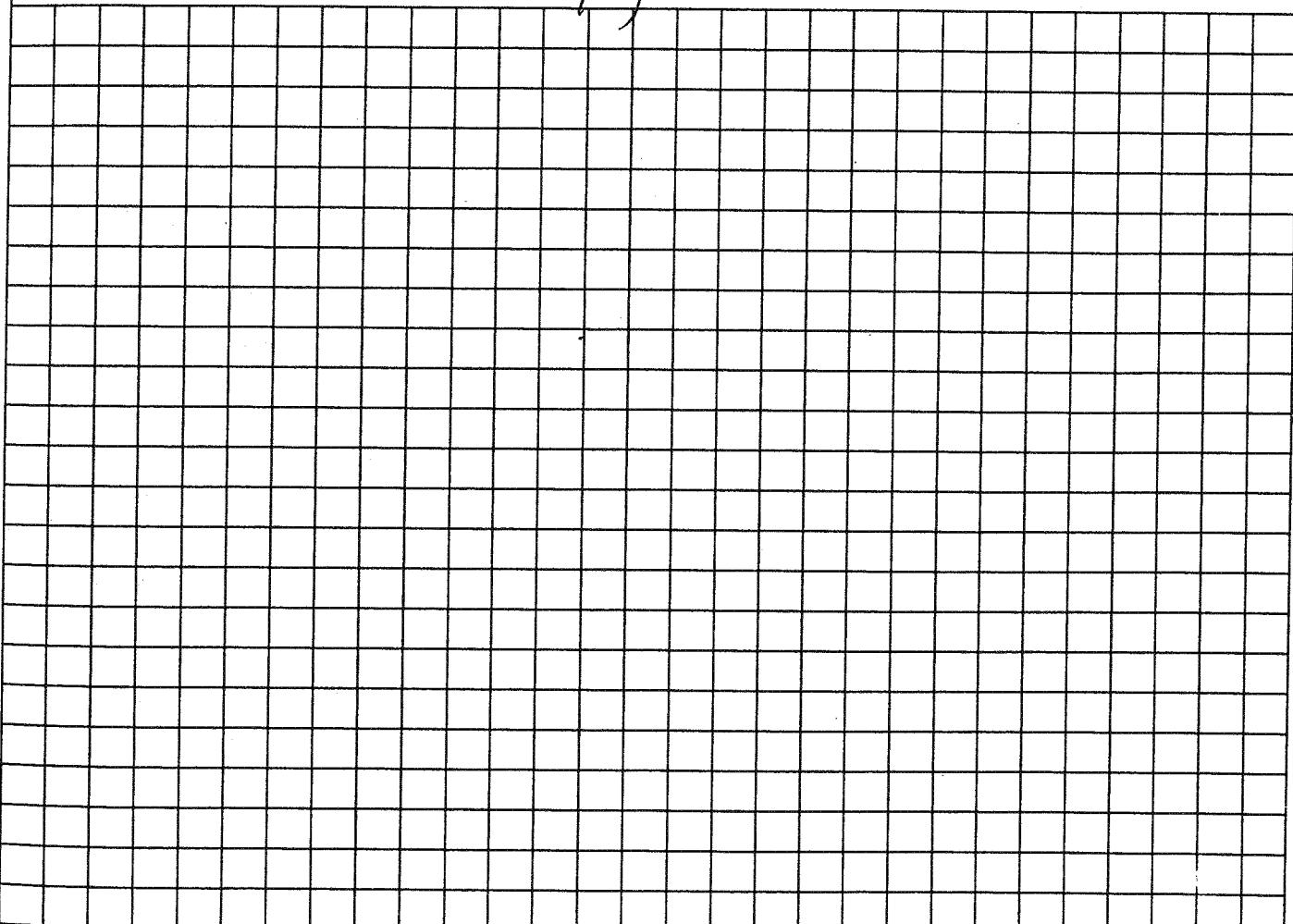
AG
12.4.03

Daily Weather Conditions: A.M.

P.M. Overscast, high 40s

Recorded By

Ronel-Baluy QA Checked By Doug Greenawalt

HTRW DRILLING LOG		DISTRICT: Louisville				HOLE NUMBER FBQ #89	
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:				SHEET 1 OF 1	
3. PROJECT: Fuze & Booster/RVAAP			4. LOCATION: Fuze & Booster Quarry Landfill/Pond				
5. NAME OF DRILLER: Steve King			6. MANUFACTURERS DESIGNATION OF DRILL:				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		SSS 200n SS shaver 3 1/2" SS bowl		8. HOLE LOCATION: FBQ #89			
			9. SURFACE ELEVATION:				
12. OVERBURDEN THICKNESS			10. DATE STARTED: 11-11-03 11. DATE COMPLETED: 11-11-03				
13. DEPTH DRILLED INTO ROCK			15. DEPTH GROUNDWATER ENCOUNTERED:				
14. TOTAL DEPTH OF HOLE 6"			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:				
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS See Act. 105		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR <i>CRB</i>		
LOCATION SKETCH/COMMENTS See Pg 71 SCALE:							
							

HTRW DRILLING LOG

HOLE NUMBER: F80/681 80

PROJECT: Fuze & Boester/RVA/AP

INSPECTOR: RSB

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)
		H + few brn sandy clay some silt & gravel, tan and rd ss - fine to pebbles moist, soft			F80/2 P89 Ø177.50	6" 6" 5" 5" 6" 2 Refusal Organic Material Red & brown
1						Refusal @ 6"
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

TASK TEAM ACTIVITY LOG SHEET

81

PROJECT NAME: Phase III Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/16/03 Su M T W Th F SaPAGE 1 OF 1

Task Team Members:

Ronald BaileyAndrea LourSteve Kuy

Narrative (include time and location):

1455 - Arrive @ FBO 088. (Leave) by 5V.
Begin 1-1 Sample and Duplicate FB088-088-0175-50
FB088-088-0399-50

1425 - 173' Chared by Steve K. Begin 1-3'
Sample & Duplicate FB088-088-0176-50
FB088-088-0400-50

1445 - Leave Site

AG
12.4.03

Daily Weather Conditions: A.M.

P.M.

Overcast, high 40°

Recorded By

RJZ

QA Checked By

Amy Greenawald

HTRW DRILLING LOG		DISTRICT: Louisville				HOLE NUMBER FBQ 488	
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:				SHEET 1 OF 1	
3. PROJECT: Fuze & Booster/RVAAP			4. LOCATION: Fuze & Booster Quarry Landfill/Pond				
5. NAME OF DRILLER: Steve King			6. MANUFACTURERS DESIGNATION OF DRILL:				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		SS Spur		8. HOLE LOCATION: FBQ 488			
		SS Tanger		9. SURFACE ELEVATION:			
		SS bond					
12. OVERBURDEN THICKNESS			10. DATE STARTED: 11-11-03 11. DATE COMPLETED: 11-11-03				
13. DEPTH DRILLED INTO ROCK			15. DEPTH GROUNDWATER ENCOUNTERED: 2"				
14. TOTAL DEPTH OF HOLE 3'			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:				
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS See act 10)		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR: C.P.S.B.		
LOCATION SKETCH/COMMENTS SEE Pg 71 SCALE:							

HTRW DRILLING LOG

PROJECT: Fuze & Booster/RVA/AP

INSPECTOR *R.B.*HOLE NUMBER: *F80406*

84

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	1.0	16' b.s. sandy clay. trace self ign. grass. soft wet s. + f. plastic				organic material roots + leaves + grass
2	1.3	Same as above with instance of gravel - saturated				
3	2.0					
4	3.0					
5	4.0					
6	5.0					
7	6.0					
8	7.0					
9	8.0					
10	9.0					
11	10.0					
12	11.0					
13	12.0					
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266	265.0					
267	266.0					
268	267.0					
269	268.0					
270	269.0					

TASK TEAM ACTIVITY LOG SHEET

85

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/11/03

Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Ronald Bailey

Andre Leon

Steve King

Narrative (include time and location):

1450 - Arrive @ FBQ 087 Cleared by

S. King. Begin 0-1 sample

FBQSS 087-0173-50

1514. 1-3' Cleared by S. King! Begin

1' 3' Sample interval

FBQSO-087-0174-50

1521 - Refusal @ 2'

1528 - Depart site

A
12.4.03

Daily Weather Conditions: A.M.

P.M.

Overcast Mid 40's

Recorded By

Ronald Bailey

QA Checked By

Amy Greenawalt

TRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBO 688-115			
COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:		SHEET 1 OF 1			
3. PROJECT: Fuze & Booster/RVAAP			4. LOCATION: Fuze & Booster Quarry Landfill/Pond				
5. NAME OF DRILLER: Steve King			6. MANUFACTURERS DESIGNATION OF DRILL:				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: FBO φ88					
		9. SURFACE ELEVATION: ~12					
		10. DATE STARTED: 11-11-03 11. DATE COMPLETED: 11-11-03					
12. OVERBURDEN THICKNESS		15. DEPTH GROUNDWATER ENCOUNTERED: ~12					
13. DEPTH DRILLED INTO ROCK		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: ~12					
14. TOTAL DEPTH OF HOLE		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): ~12					
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
20. SAMPLES FOR CHEMICAL ANALYSIS See Act. Toc		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
LOCATION SKETCH/COMMENTS See Pg 71				SCALE:			

HTRW DRILLING LOG

PROJECT: Fuze & Booster/RVAAP

INSPECTOR *Linda L. Bly*

HOLE NUMBER: F8Q-987

SHEET 1 OF 1

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (c)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (d)	REMARKS (e)
0	0-1	1 ft brn sandy silt Some silt, trace gravel fine to coarse mod. Soft			F8Q58327 0173-57	Some water & gas
1-3	1-3	1 ft brn Sandy silt some clay, trace gravel fine to coarse loose, Dry-damp.			F8Q58327 0174-50	Refined @ 2'
3	3					<i>Roughed @ 2'</i>
4	4					
5	5					
6	6					
7	7					
8	8					
9	9					
10	10					
11	11					
12	12					
13	13					
14	14					
15	15					
16	16					
17	17					
18	18					
19	19					

TASK TEAM ACTIVITY LOG SHEET

89

PROJECT NAME: Phase VII RI Fuze & Booster Quarry Landfill/Pond DELIVERY ORDER NO: 0012

Date (mm/dd/yy): 11/16/03 Su M Tu W Th F Sa PAGE 1 OF 1
Task Team Members:Archie LooRonnie BaileySteve King

Narrative (include time and location):

- 1644 - Arrive @ FBQ #74. Cleared by
Steve King. Begin D/I sample FBQ55-074-0147-50
- 1634 - 1-3' Cleared by S. King.
Begin Sample for 1-3' FBQ50-074-0142-50
- 1645 - Depart site

AK12.4.03

Daily Weather Conditions: A.M.

P.M.

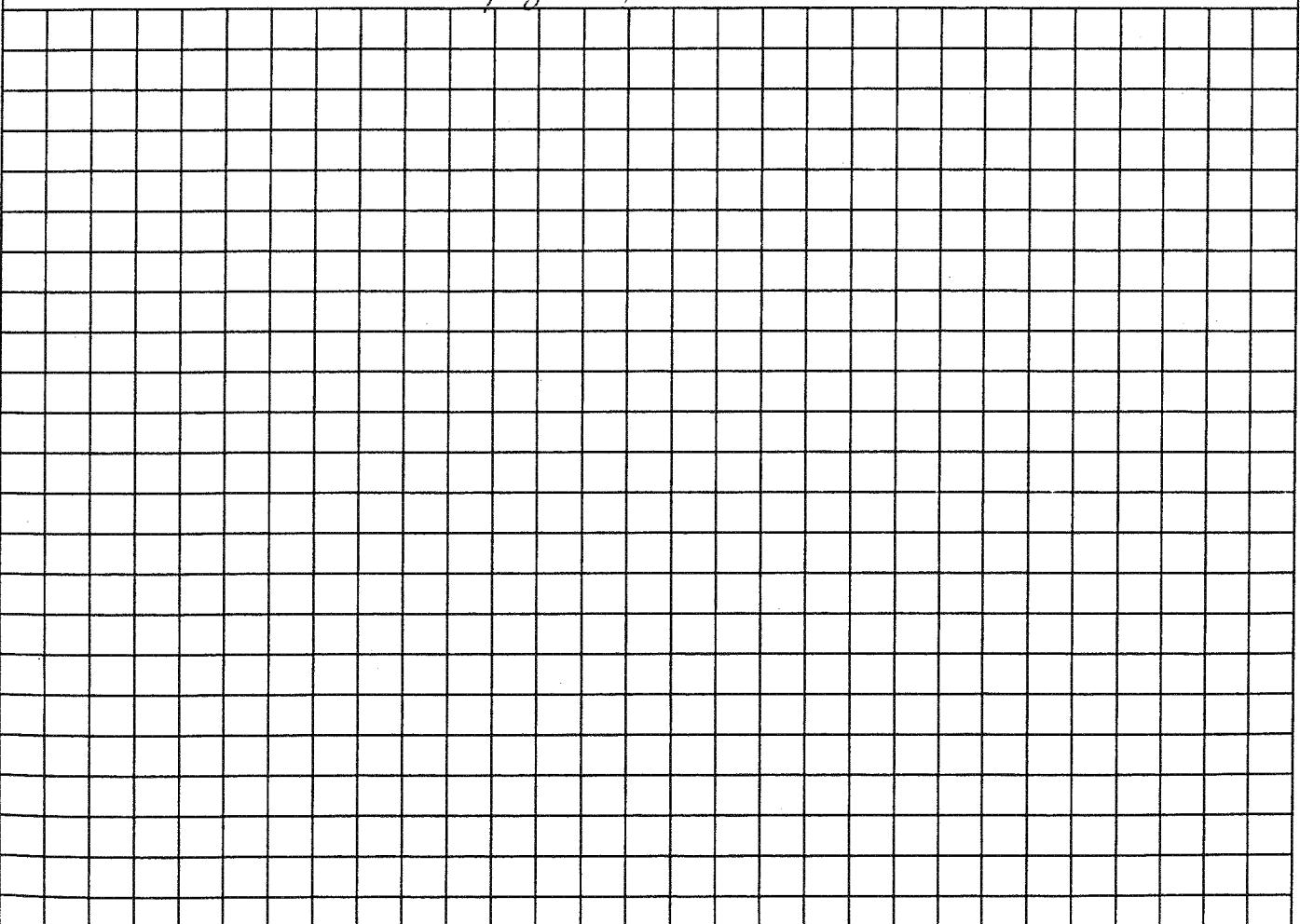
Overcast High 46°

Recorded By

JGB

QA Checked By

Amy Greenawald

HTRW DRILLING LOG		DISTRICT: Louisville				HOLE NUMBER <i>FBO 074</i>
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:				SHEET <u>1</u> OF <u>1</u>
3. PROJECT: Fuze & Booster/RVAAP		4. LOCATION: Fuze & Booster Quarry Landfill/Pond				
5. NAME OF DRILLER: <i>Andrea Lee</i>		6. MANUFACTURERS DESIGNATION OF DRILL:				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>SS 2000</i> <i>SS 1000</i> <i>SS 600</i>		8. HOLE LOCATION: <i>FBO 074</i>				
		9. SURFACE ELEVATION: <i>1/2</i>				
		10. DATE STARTED: <i>11/11/03</i>				11. DATE COMPLETED: <i>11-11-03</i>
12. OVERBURDEN THICKNESS <i>n/a</i>		15. DEPTH GROUNDWATER ENCOUNTERED: <i>n/a</i>				
13. DEPTH DRILLED INTO ROCK <i>n/a</i>		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <i>n/a</i>				
14. TOTAL DEPTH OF HOLE <i>23'</i>		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <i>n/a</i>				
18. GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS <i>See Act Log</i>	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED ~	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR <i>[Signature]</i>		
LOCATION SKETCH/COMMENTS <i>See Pg 71</i> SCALE:						
						

HTRW DRILLING LOG

HOLE NUMBER: F306A

92

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: J. E. H.

SHEET | OF |

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS C	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE GR CORE BOX	ANALYTICAL SAMPLE IND. (#)	REMARKS (G)
0	0-1	1/2 brown clayey silt mottled orange & gray. Some sand fragments, fine gravel, damp soil			F3036-074 0147-50	Some organic matter, grass, leaves, roots
1-3	1-3	A to med brown sandy silt. Some clay, trace gravel, loose, damp? A @ 18° in color. to 1/2 brown mottled gray-orange			F3030-074 0148-50	
3						
4						
5						
6						
7						
8						
9						
10						

Refusal @ 2' 3"

TASK TEAM ACTIVITY LOG SHEET

93

PROJECT NAME: Phase VII RI Fuze & Booster Quarry Landfill/Pond DELIVERY ORDER NO: 0012

Date (mm/dd/yy): 11/26/03 Su M Tu W Th F SaPAGE 1 OF 1

Task Team Members:

Ronale BanksAndra LeonSteve King

Narrative (include time and location):

- 0910 - Arrive @ FBQ #79, Channel Gy
S. King. Begin 1'-1' sample
- 0915 Full sample split. FB055-079-0157-50
- 0925 - Refusal @ 8", 1", a 1' per. holes
- 0955 - S. King Cleared 1-3'. Begin Refusal
Full sample split 1-3' FB050-079-0157-50
- 1020 - Refusal @ 2".
- 1024 - Leave Site

AF12-4-03

Daily Weather Conditions: A.M.

Overscast, mid 50s

P.M.

Recorded By

SBB

QA Checked By

Amy Greenawald

HTRW DRILLING LOG		DISTRICT: Louisville				HOLE NUMBER FBQ 679
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:				SHEET 1 OF 1
3. PROJECT: Fuze & Booster/RVAAP			4. LOCATION: Fuze & Booster Quarry Landfill/Pond			
5. NAME OF DRILLER: Steve Linn			6. MANUFACTURERS DESIGNATION OF DRILL:			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		SS cutter SS borer SS spade		8. HOLE LOCATION: FBQ Ø 79		
			9. SURFACE ELEVATION: n/a			
			10. DATE STARTED: 11-12-03		11. DATE COMPLETED: 11-12-03	
12. OVERBURDEN THICKNESS n/a			15. DEPTH GROUNDWATER ENCOUNTERED: 2" (Center hole in d.tcl)			
13. DEPTH DRILLED INTO ROCK n/a			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/a			
14. TOTAL DEPTH OF HOLE 2'			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/a			
18. GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES		
20. SAMPLES FOR CHEMICAL ANALYSIS <i>See Act. Log</i>	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR <i>[Signature]</i>		
LOCATION SKETCH/COMMENTS See Pg 71				SCALE:		

HTRW DRILLING LOG

HOLE NUMBER: F8Q #77

PROJECT: Fuze & Booster/RVAAP

INSPECTOR *L.S.*

SHEET 1 OF 1

96

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS ①	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (#)	REMARKS ②
0	0-1	It was sandy clay fine silt, some gravel! Pine - Pebble - wet			F8Q56-079 0157-50	Sandy organic material. Roots, leaves Stony gravel 6" 2' Refusal 1' Refusal 10"
1	1-3	Same as above			F8Q56-079 0158-50	
2	2					Refusal @ 2'
3						
4						
5						
6						
7						
8						
9						
10						
11						

TASK TEAM ACTIVITY LOG SHEET

97

PROJECT NAME: Phase I/II RI Fuze & Booster Quarry Landfill/Pond DELIVERY ORDER NO: 0012

Date (mm/dd/yy): 11/12/03

Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Andre LeonRonda BaileySteve King

Narrative (include time and location):

FBQSO-092-0195-50

1030 - Arrive @ FBQ #98. Cleared by S King
Begin Sample #1 full suite & split.

1115 - S. King Cleared 1'3". Begin FBQSO-092-0196-50
1' + 3" Sand split

1138 - Leave Site

Daily Weather Conditions: A.M. Partly cloudy, high 50s

P.M.

Recorded By

Ronda Bailey

QA Checked By

Amy Greenwald

HTRW DRILLING LOG

ITEM NUMBER: 640-96

100

TASK TEAM ACTIVITY LOG SHEET

101

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/12/03 Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Ronde Bailey

Andre Leon

Steve King

Narrative (include time and location):

1339 - Arrive @ FBQ #90. Cleared by

S. King. Begin φ-1 FBQ30-090-0192-50 Sample & Split.

134φ - 1-3' Cleared by S. King. Begin

1'-3' interval FBQ30-090-0192-50

135φ - Refusal @ 2'6"

1355 - Depart site

AG

12.4.03

Daily Weather Conditions: A.M.

P.M.

Mostly cloudy, low 60s

Recorded By

RFB

QA Checked By

Amy (renamed)

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER FBQ 096	
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:			SHEET 1 OF 1	
3. PROJECT: Fuze & Booster/RVAAP			4. LOCATION: Fuze & Booster Quarry Landfill/Pond			
5. NAME OF DRILLER: Steve King			6. MANUFACTURERS DESIGNATION OF DRILL:			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: FBQ 096			9. SURFACE ELEVATION:	
12. OVERBURDEN THICKNESS n/c		15. DEPTH GROUNDWATER ENCOUNTERED: n/c			10. DATE STARTED: 11-12-03 11. DATE COMPLETED: 11-12-03	
13. DEPTH DRILLED INTO ROCK n/c		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/a				
14. TOTAL DEPTH OF HOLE 2' 6"		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/c				
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES		
20. SAMPLES FOR CHEMICAL ANALYSIS See Act. Log		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR Ronald Shelly	
LOCATION SKETCH/COMMENTS See Pg 99			SCALE:			

HTRW DRILLING LOG

HOLE NUMBER: F80796

104

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: RBB

SHEET | OF |

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS ①	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (if)	REMARKS (if)
B-1		It's about 10% Silt, some clay and sand. Trace of gravel fine, damp?			F80SS-096 p191-50	Organic material, rotting stems, leaves
1-3		It's brown silt. Some dry trace sand. Trace gravel. Fine to med. Stiff. Damp. This is at below 18'. 1'-16" is same as B-1 description.			F80SS-096 p191-50	
3		Refusal (at) 2'6"				
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

TASK TEAM ACTIVITY LOG SHEET

105

PROJECT NAME: Phase III Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/12/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Andre Lemoine
Ronald Bailey
Steve King

Narrative (include time and location):

1405 - Arrive @ FBO #7, Quarry by
Sinking. Begin Ø-1 sample FBR58-097-0193-50

1424 - 1-3' Deconsolidated by Sinking. Begin 1-3 sample

1435 - Left Site FBR50-097-0194-50

Daily Weather Conditions: A.M. Partly cloudyP.M. Partly cloudyRecorded By PCH QA Checked By Dawn Hernandez

HTRW DRILLING LOG		DISTRICT: Louisville				HOLE NUMBER FBO 097	
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:				SHEET 1 OF 1	
3. PROJECT: Fuze & Booster/RVAAP			4. LOCATION: Fuze & Booster Quarry Landfill/Pond				
5. NAME OF DRILLER: Steve Kins			6. MANUFACTURERS DESIGNATION OF DRILL:				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		SS Spade		8. HOLE LOCATION: FBO 097			
		SS Bowl		9. SURFACE ELEVATION: N/C			
		SS Gauge		10. DATE STARTED: 11-12-03		11. DATE COMPLETED: 11-12-03	
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 2' 6"			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/a				
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS <i>see act log</i>		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR <i>G. B. B.</i>		
LOCATION SKETCH/COMMENTS <i>See Pg 99</i>				SCALE:			

HTRW DRILLING LOG							HOLE NUMBER: F6049
PROJECT: Fuze & Booster/RV AAP			INSPECTOR: S.A.B.				SHEET 1 OF 1
ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS O	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (if)	REMARKS (if)	
8.1	1	lt. and Med. brown silt, some clay and sand trace gravel fine to med. loose to firm. Increasing density w/dpt			F6055-097 0193-53	Organic material roots, stems, leaves	
1	2	Same a/a			F6050-097 0194-50		
1.3	3	at 18° to 1' brown clayey sand, some silt, some gravel fine to pebbles					
	3	<i>Refusal Ø 2'6"</i>					
	4						
	5						
	6						
	7						
	8						
	9						
	10						

TASK TEAM ACTIVITY LOG SHEET

109

PROJECT NAME: Phase III Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/26/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Andre Leon
Ronnie Barber
Steve King

Narrative (include time and location):

- 1440 - Arrive @ FBAQ 005. Cleared by S King. Begin S1 FBASO-045-0190-50 sample & split
- 1500 - 1-3' cleared by S King. Beg... 1-3 sample FBASO-045-0190-50
- 1515 Refusal @ 2'6".
- 1520 Leave site

~~11-26-03~~
~~11-26-03~~

Daily Weather Conditions: A.M.

S 16 P.M. Overcast, low 60s

Recorded By S 16QA Checked By Amy Greenwald

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER <i>FBR 095</i>
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:			SHEET <u>1</u> OF <u>1</u>
3. PROJECT: Fuze & Booster/RVAAP		4. LOCATION: Fuze & Booster Quarry Landfill/Pond			
5. NAME OF DRILLER: <i>Steve King</i>		6. MANUFACTURERS DESIGNATION OF DRILL:			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: <i>FBR 095</i>			
12. OVERBURDEN THICKNESS <i>n/c</i>		15. DEPTH GROUNDWATER ENCOUNTERED: <i>n/c</i>			
13. DEPTH DRILLED INTO ROCK <i>n/c</i>		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <i>n/c</i>			
14. TOTAL DEPTH OF HOLE <i>2' 6"</i>		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <i>n/c</i>			
18. GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS <i>Spec Act. Log</i>	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %	
23. SIGNATURE OF INSPECTOR <i>[Signature]</i>					
LOCATION SKETCH/COMMENTS <i>See pg 99</i>		SCALE:			

HTRW DRILLING LOG

HOLE NUMBER: 680 895

112

TASK TEAM ACTIVITY LOG SHEET

113

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/12/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Andre Lemoine
Ronnie Bailey
Steve King

Narrative (include time and location):

1525 - Arrive Q FBBQ #24. Dug out by S. King. Begin 1' sample

FBBQ33-094-0987
FBBQ33-094-0901-

and duplicate for Explos and TAC Mobiles

1545 - 1'3' Cleared by S.K. - Begin 1'-3' sample and duplicate (explos/tac mobiles)

FBBQ33-094-0987
FBBQ33-094-0901-

1600 - Refusal (Q) 2'6"

1605 Leave site

8/6
12-4-03

Daily Weather Conditions: A.M.

P.M.

Overcast, high 50°

Recorded By

QA Checked By

RJG Dawn Greenwald

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER F BQ 694115
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:			SHEET 1 OF 1
3. PROJECT: Fuze & Booster/RVAAP			4. LOCATION: Fuze & Booster Quarry Landfill/Pond		
5. NAME OF DRILLER: Steve Kue			6. MANUFACTURERS DESIGNATION OF DRILL:		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: FBQ 694			
SS angle SS point SS screen					
9. SURFACE ELEVATION:					
10. DATE STARTED: 11/12/03			11. DATE COMPLETED: 11-12-03		
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 26"			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 act. log		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
23. SIGNATURE OF INSPECTOR <i>RHS</i>					
LOCATION SKETCH/COMMENTS See Pg 99			SCALE:		

HTRW DRILLING LOG

HOLE NUMBER: F-3Q 094

116

PROJECT: Fuze & Booster/RVAAP		INSPECTOR	TESTS		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)
0-1		Md. brown Sandy soil Some clay ledge trace gravel fine to coarse				Organic material roots, stems, leaves
1-3		lt. brown s. fl + sand Some gravel fine to pebbles. Mottled gray and orange Loose - firm				
3		<i>Refusal @ 2' 6"</i>				
4						
5						
6						
7						
8						
9						
10						

TASK TEAM ACTIVITY LOG SHEET

117

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11-13-03 Su M Tu W Th F SaPAGE 1 OF 1

Task Team Members:

Chantell CarrollAndrea L. ConnerSteve Ring

Narrative (include time and location):

- 0938 Arrive at sample location FBQ-083
0944 Begin (after cleared by Steve) sampling
 Full suite at the 0-1 interval
 Gr FBQ-083-0165-30 [Expl/Almond/Soil/rock: n/a/
1005 Begin Sampling the 1-3 interval (Full suite)
 Gr FBQ-083-0111ab30 (after Steve cleared)
1024 Finish sample, go to next location

~~11/13/03~~
~~11/17/03~~

Daily Weather Conditions: A.M. Snowy, breezy

P.M.

Recorded By Chantell Carroll QA Checked By Leslie A. Saly

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER FT50683
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR: <i>n/a</i>			SHEET 1 OF 1
3. PROJECT: Fuze & Booster/RVAAP		4. LOCATION: Fuze & Booster Quarry Landfill/Pond			
5. NAME OF DRILLER: <i>Andre Leon</i>		6. MANUFACTURERS DESIGNATION OF DRILL: n/a			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>SS Drill 15' Pm SS 3 1/2" Auger Drilled</i>		8. HOLE LOCATION: FSG 683			
		9. SURFACE ELEVATION: n/a			
		10. DATE STARTED: 1/13/03			11. DATE COMPLETED: 1-13-03
12. OVERBURDEN THICKNESS <i>n/a</i>		15. DEPTH GROUNDWATER ENCOUNTERED: n/a			
13. DEPTH DRILLED INTO ROCK <i>n/a</i>		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <i>n/a</i>			
14. TOTAL DEPTH OF HOLE <i>3 ft</i>		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <i>n/a</i>			
18. GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS: <i>Soil Cuttings</i>	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY) RECOVERY %
22. DISPOSITION OF HOLE <i>n/a</i>	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR <i>(Signature)</i>	
LOCATION SKETCH/COMMENTS			SCALE:		
			<p><i>Soil Page 49</i></p> <p><i>for location of</i></p> <p><i>Sampling in the soil</i></p> <p><i>10500 ft</i></p>		

HTRW DRILLING LOG

HOLE NUMBER: F30/083 120

PROJECT: Fuze & Booster/RVAAP

INSPECTOR C Canall

SHEET 1 OF 1

ELEV. ft	DEPTH (ft)	DESCRIPTION OF MATERIALS C	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (O)
0	0-1	top organics, red brown clay, silt, fine sand			F Class A83- 0145-50 (full)	
1	6"	silty clay and clay silt - 14 mm H reddish tint.	not functioning	n/a		roots steps throughout
1	-3	grading into red/more a clay type mix (green) mottling			F830/083 0146-50	
1						
3						
4						
5						
6						
7						
8						
9						
10						

D2 11-13-03

11-13-03

11-13-03

TASK TEAM ACTIVITY LOG SHEET

121

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11-13-03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Chandler CarrollSteve KingAndre Leon

Narrative (include time and location):

1045A Steve clears trail site FBQ-0751055B Began sampling FBQ-075-0149-50for Explosives and TAE metals and
Take a duplicate FBQ-075-0149-50
at the Q-1 interval1111 Began the 1-3 interval for Explosives andTAE metals on FBQ-075-0150-50 after Steve clearedRefused due to rock at 2ft.1120 Finish sample and go to next location~~11/13/03~~

Daily Weather Conditions: A.M.

Cloudy, breezy

P.M.

Recorded By

Chandler Carroll

QA Checked By

Darrell S. G.

HTRW DRILLING LOG		DISTRICT: Louisville	HOLE NUMBER H-075			
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:				
		SHEET 1 OF 1				
3. PROJECT: Fuze & Booster/RVAAP		4. LOCATION: Fuze & Booster Quarry Landfill/Pond				
5. NAME OF DRILLER: Steve Kim		6. MANUFACTURERS DESIGNATION OF DRILL: n/a				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 55 DIA 30M 55 3½" auger bucket		8. HOLE LOCATION: FBG φ75				
		9. SURFACE ELEVATION: n/a				
		10. DATE STARTED: 11-13-03	11. DATE COMPLETED: 11-13-03			
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 21"		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/a				
18. GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES		
20. SAMPLES FOR CHEMICAL ANALYSIS Soil cut + log	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE n/a	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR C. Canale		
LOCATION SKETCH/COMMENTS				SCALE:		
<p style="text-align: center;">See page 99 in the final logbook for location</p>						

HTRW DRILLING LOG

HOLE NUMBER: H3075

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: *Manal*

SHEET 1 OF 1

124

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS C	HEADSPACE SCREENING RESULTS	URGITECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
6.0	6.0	Organic medium Clay - H. brown some gravel	PIN not n/a		FBQ50-075 0149-50 + 0mp	Roots stems
6.1	6.1	grading into clay H. brown lighter red/orange and fine material				
7.0	7.0	grading into lighter brown and sandstones				
7.0	7.0	Refusal at 2"				
8.0	8.0					
9.0	9.0					
10.0	10.0					
11.0	11.0					
12.0	12.0					
13.0	13.0					
14.0	14.0					
15.0	15.0					
16.0	16.0					
17.0	17.0					
18.0	18.0					
19.0	19.0					
20.0	20.0					
21.0	21.0					
22.0	22.0					
23.0	23.0					
24.0	24.0					
25.0	25.0					
26.0	26.0					
27.0	27.0					
28.0	28.0					
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30.0	30.0					
31.0	31.0					
32.0	32.0					
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36.0	36.0					
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92.0	92.0					
93.0	93.0					
94.0	94.0					
95.0	95.0					
96.0	96.0					
97.0	97.0					
98.0	98.0					
99.0	99.0					
100.0	100.0					

TASK TEAM ACTIVITY LOG SHEET

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PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11-13-03 Su M Tu W Th F SaPAGE 1 OF 1

Task Team Members:

Steve KueChadell CanalAndre Leon

Narrative (include time and location):

- 11/25 Go to FBQ-#85 (Stwo clear prior)
- 11/26 Began to sample FBQs - #85-#169-30
for Explosives / TAL Metals
- 11/28 Stwo cleans 1-3 and began to sample the
1-3 interval for Explosives / TAL Metals for
Sample FBQs - #85-#170-30-
- 12/00 Finish sample, go back to building

~~11/13/03~~
~~11/20/03~~

Daily Weather Conditions: A.M.

Snowy, breezy

P.M.

Recorded By

Chadell Canal

QA Checked By

Rachelle Siby

RW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER

FBD-085

127

COMPANY NAME: SpecPro, Inc.

2. DRILL SUBCONTRACTOR:

SHEET 1 OF 1

PROJECT: Fuze & Booster/RVAAP

NAME OF DRILLER:

Steve King

DESIGN AND TYPES OF DRILLING
AND SAMPLING EQUIPMENT35' down spud
35' 3½" auger bucket

4. LOCATION: Fuze & Booster Quarry Landfill/Pond

6. MANUFACTURERS DESIGNATION OF DRILL: n/a

8. HOLE LOCATION: FBD-085

9. SURFACE ELEVATION: n/a

10. DATE STARTED: 11-13-03 11. DATE COMPLETED: 11-13-03

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

3 ft

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)

OTHER (SPECIFY)

21. TOTAL CORE
RECOVERY %

see add 105

22. DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

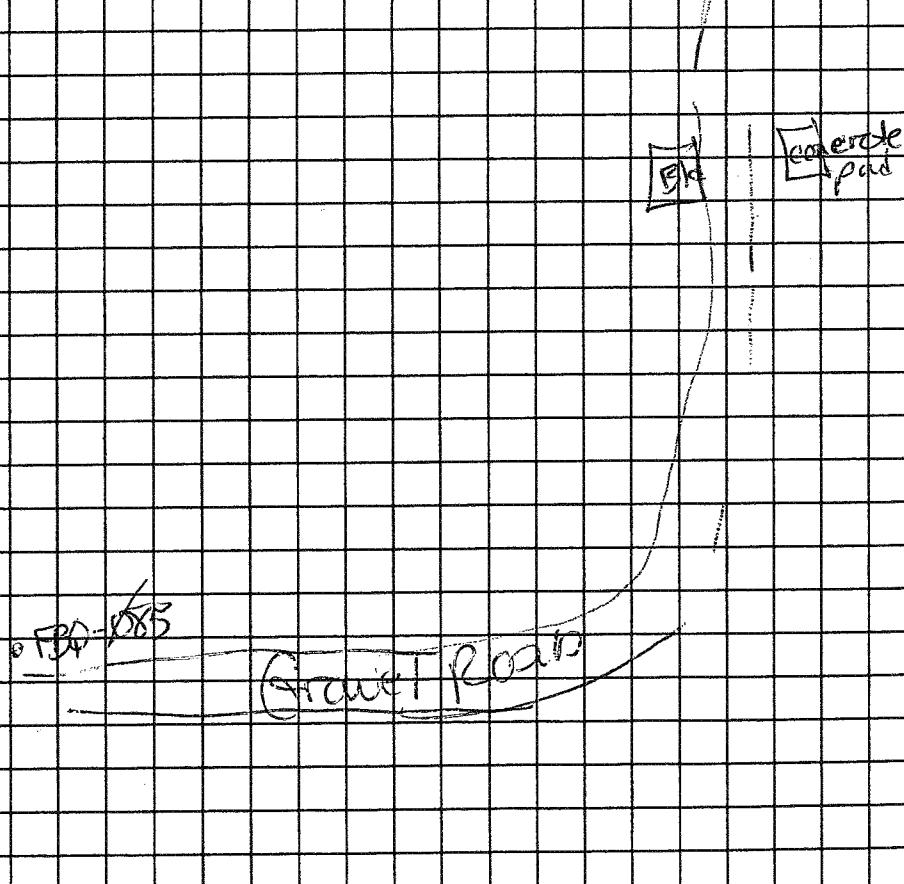
23. SIGNATURE OF INSPECTOR

Canal

LOCATION SKETCH/COMMENTS

SCALE:

not to scale



HTRW DRILLING LOG

HOLE NUMBERS

PROJECT: Fuze & Booster/RVAAP

INSPECTOR

C Canalt

SHEET 1 OF

128

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS O	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
6-1		Deformed brown organic, grading into med brown clay, some sand, silt grading into a lighter brown material mention silt grading into clay clays, stones and gravel, mostly dark moist	not working	n/a	F1680-1685- D169-30	root, stems throughout
1-3		Material with a clay with med plastic moist, heavy moisture of clay and weathered brown granular gravel/pebbles	II	"	F1680-1685 D170-30	
2						
3						
4						
5						
6						
7						
8						
9						
10						

3'

~~111263~~

APPENDIX D2

Page 67 of 124

TASK TEAM ACTIVITY LOG SHEET

129

PROJECT NAME: Phase III Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11-13/03 Su M Tu W Th F SaPAGE 1 OF 1

Task Team Members:

Steve KingAndrea LeonArnold Andrade

Narrative (include time and location):

1358 Arrive at location FB0-0841400 Begin to sample FB0-084-0107-50for a full suite (exp/proptl) PCB/Pest/Bio/Visc
and TAL metals, Cr⁶⁺ and take
a duplicate (FB0-084-0404-50) after
Steve cleaned when arrived1425 Stop due to refusal of rock at the 1 foot
interval. Walked to get the 1-3 sample1427 Go to next location~~11/13~~
~~11/12/03~~

Daily Weather Conditions: A.M.

P.M.

Cloudy, light snow flurries, 33-35°

Recorded By

Charles Cimell

QA Checked By

Karen B. Bly

HRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER 131		
COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR: <i>n/a</i>			SHEET 1 OF 1		
PROJECT: Fuze & Booster/RVAAP		4. LOCATION: Fuze & Booster Quarry Landfill/Pond					
NAME OF DRILLER: <i>Steve Lins</i>		6. MANUFACTURERS DESIGNATION OF DRILL <i>n/a</i>					
SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>30' Drill / 30' com 55' 3½" Winkler bucket</i>		8. HOLE LOCATION: <i>F30 Ø84</i>					
		9. SURFACE ELEVATION: <i>n/a</i>					
		10. DATE STARTED: <i>11-3-03</i>		11. DATE COMPLETED: <i>11-3-03</i>			
12. OVERBURDEN THICKNESS <i>n/a</i>		15. DEPTH GROUNDWATER ENCOUNTERED: <i>n/a</i>					
13. DEPTH DRILLED INTO ROCK <i>n/a</i>		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <i>n/a</i>					
14. TOTAL DEPTH OF HOLE <i>14'</i>		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <i>n/a</i>					
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS <i>200ccct, 10cc</i>		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE <i>n/a</i>		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR <i>ICanek</i>		
LOCATION SKETCH/COMMENTS					SCALE:		
<p><i>480 ft (146 m)</i></p> <p><i>The SW corner #2</i></p> <p><i>for the location</i></p>							

HTRW DRILLING LOG

HOLE NUMBER: HBP-04

132

PROJECT: Fuze & Booster/RVAAP

INSPECTOR C (Canal)

SHEET 1 OF 1

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (G)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (I)	REMARKS (G)
0	0	Mes Diorn & tan - sh, pebbles and sandstone pieces, fine sand, most going into larger chips 75% tan Refusal at	non-fluorescent PID	N/A	SB05-184-167-30 + cap	- roots seen - refusal in all explosive holes at the 14 ft
1	1	1" due to rock in Center hole and Explosive holes (Refusal)				
2	2					
3	3					
4	4					
5	5					
6	6					
7	7					
8	8					
9	9					
10	10					
11	11					
12	12					
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282	282					

TASK TEAM ACTIVITY LOG SHEET

133

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11-13/03Su M Tu W Th F SaPAGE 1 OF 1

Task Team Members:

Steve Kim
Chandell Connell
Cindie Leon

Narrative (include time and location):

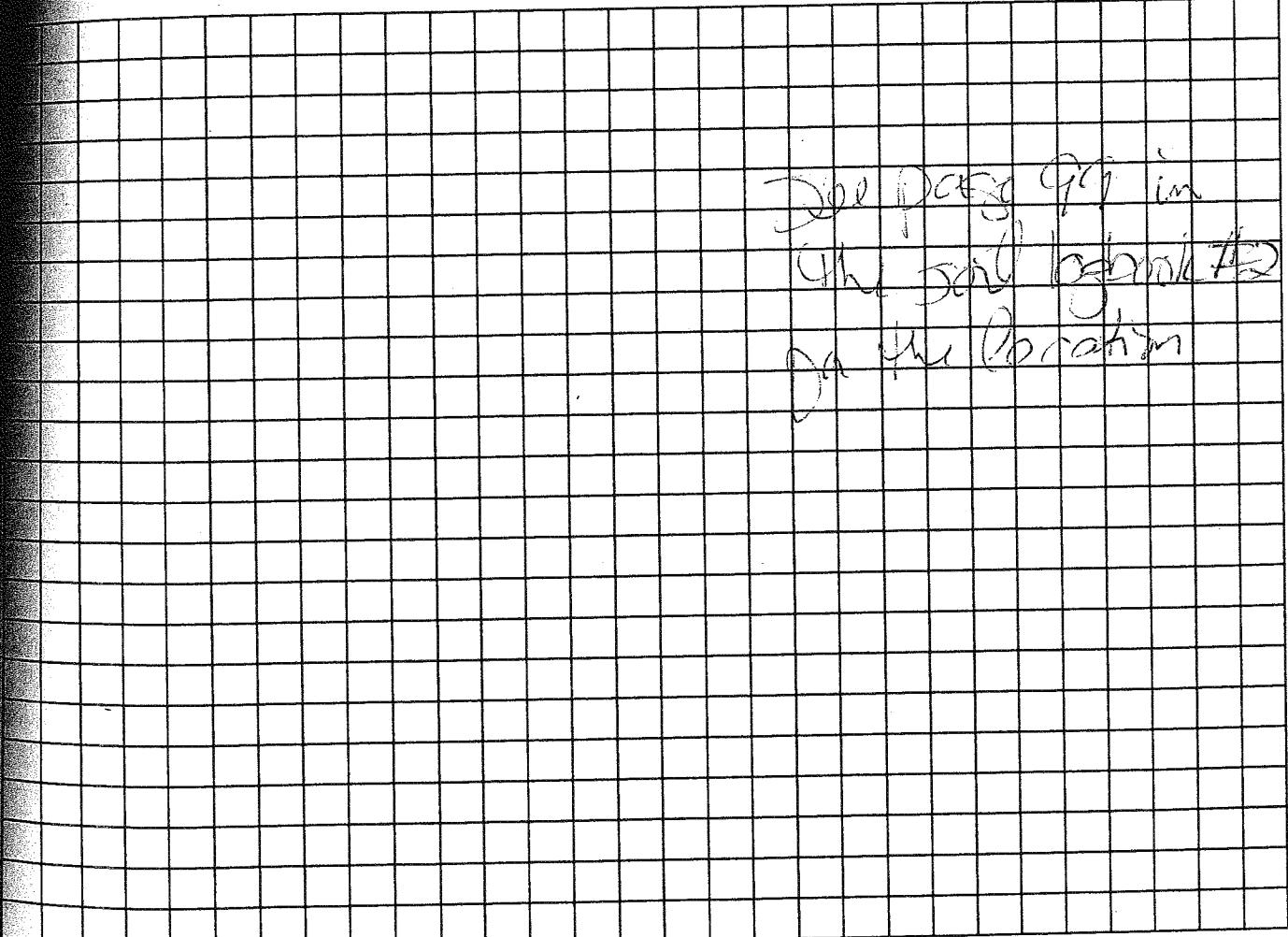
1429 Arrive at FBG-076 (Steve Chandell)1430 Begin sample FBG-076 - 451-2
for explosives and TAC metals at the 0-1
Refusal in all 3 explosive holes at
11-12". Center hole refusal at 1 ft.1440 Walk to take the 1-3 ft interval1445 Finish up and go to next location

~~11/17/03~~

Daily Weather Conditions: A.M.

P.M.

Breezy, Show R/H 30-35Recorded By Chandell ConnellQA Checked By Steve Kim

DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER FBQ-#76
NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR: <i>n/a</i>			SHEET 1 OF 1
3. FUZE & BOOSTER/RVAAP <i>None</i>			4. LOCATION: Fuze & Booster Quarry Landfill/Pond		
5. DRILLER: <i>John King</i>	6. MANUFACTURERS DESIGNATION OF DRILL: <i>n/p</i>				
7. TYPES OF DRILLING EQUIPMENT: <i>SDI DTH 3000</i>	8. HOLE LOCATION: <i>PL6-076</i>				
<i>3 1/2" diamond burrnt</i>	9. SURFACE ELEVATION: <i>n/a</i>				
10. SURFACE ELEVATION: <i>n/a</i>	11. DATE COMPLETED: <i>11-13-03</i>				
12. BURDEN THICKNESS <i>n/a</i>	15. DEPTH GROUNDWATER ENCOUNTERED: <i>n/a</i>				
13. DEPTH DRILLED INTO ROCK <i>n/a</i>	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <i>n/a</i>				
14. TOTAL DEPTH OF HOLE <i>1 ft</i>	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <i>n/a</i>				
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES <i>n/a</i>	
20. SAMPLES FOR CHEMICAL ANALYSIS <i>SOIL ACT 103</i>		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
21. POSITION OF HOLE <i>n/a</i>		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY %
23. SIGNATURE OF INSPECTOR <i>C. Canale</i>					
LOCATION SKETCH/COMMENTS  <p>Job date 9/17 in the soil bank #2 on the Graham</p>					
SCALE:					

HTRW DRILLING LOG

HOLE NUMBER: 509-416

136

PROJECT: Fuze & Booster/RVA/AP

INSPECTOR C. Canale

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE HON	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
0-1	0'	top 0' brown, wet brown clay to H. brown moist pebbles gray 2-3mm rocks appearing (to 8mm) at 6" before grading into H. brown w/ pebbles 1/2" to 1" to coarse sand	no smoking w/p	F09-416	P151-0	RC0151 refused in all 3 samples taken at 11-13
1	1'					Rofusd in center hole @ 1ft
2	2'					
3	3'					
4	4'					
5	5'					
6	6'					
7	7'					
8	8'					
9	9'					
10	10'					

TASK TEAM ACTIVITY LOG SHEET

137

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11-13-03 Su M Tu W Th F SaPAGE 1 OF 1

Task Team Members:

Steve Lin)
Andy)
Charli Cano)

Narrative (include time and location):

15:09 Arrive at FBQ#070 (Steve clean prior)

15:11 Begin to Sample FBQ55-070-1139-30
for Explosives/TAC Metals at the 8'1" intervalPhysical in explosive holes at 6", 8" and 8", moved
Center hole over about to see if better, it appears if trial
was still at the base of an old road bed.15:38 Unable to go past the 1 ft in the center hole
due to rock refusal, therefore unable to sample past

15:39 Finish sample and go to next location

~~11/17/03~~

Daily Weather Conditions: A.M.

P.M. Breezy, snow off/m 36-35's

Recorded By

Charli Cano QA Checked By Linda Coffey

ITRW DRILLING LOG		DISTRICT: Louisville	HOLE NUMBER: FBL-070				
COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:	n/a				
PROJECT: Fuze & Booster/RVAAP		4. LOCATION: Fuze & Booster Quarry Landfill/Pond					
NAME OF DRILLER: C. Andre Leon		6. MANUFACTURERS DESIGNATION OF DRILL: n/a					
SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: FBL 070					
		9. SURFACE ELEVATION: n/a					
10. OVERBURDEN THICKNESS n/a		11. DATE COMPLETED: 11-13-03					
13. DEPTH DRILLED INTO ROCK n/a		15. DEPTH GROUNDWATER ENCOUNTERED: n/a					
14. TOTAL DEPTH OF HOLE 1 ft		16. DEPTH TO WATER, AND ELAPSED TIME AFTER DRILLING COMPLETED: n/a					
18. GEOTECHNICAL SAMPLES		19. TOTAL NUMBER OF CORE BOXES					
20. SAMPLES FOR CHEMICAL ANALYSIS Set out 10g		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE n/a		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR C. Andre Leon		
LOCATION SKETCH/COMMENTS							
SCALE: Not to scale 							

HTRW DRILLING LOG

HOLE NUMBER: FBG-140 140

PROJECT: Fuze & Booster/RVAAP

INSPECTOR

SHEET 1 OF 1

ELEV (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS O	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (#)	REMARKS (a)
0	0	dk brown organic 3" med brown 1/2" clay zone 2 1/2", moist, gravelly soil drilling into left 70 grad R/T	not drilling	1/2	FBG-33-010- -0139-10	rocks/stems Referred to exposure hole - 8" 8" 6"

Refusal (a) 1" in center hole

X X X X X

TASK TEAM ACTIVITY LOG SHEET

141

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11-13-03 Su M Tu W Th F SaPAGE 1 OF 1

Task Team Members:

Chad CaudillEndre Leon

Narrative (include time and location):

15:45 Arrive at FBQ-069 (Steve closed prior)15:46 Begin to sample FBQ055-069 (837-30)for explosive and TIC metalsFirst refusal in all explosive and TIC metals
One 10 sandstone rocks (possible Shallow Sandstone)16:00 Finish up samples since unable to do the 1-3
interval~~11/13/03~~

Daily Weather Conditions: A.M.

P.M.

~~Snow 0°/m briny 30-35°~~Recorded By Chad CaudillQA Checked By Endre Leon

NEW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
FBD-269

COMPANY NAME: SpecPro, Inc.

2. DRILL SUBCONTRACTOR:

SHEET 1 OF 1

PROJECT: Fuze & Booster/RVAAP

4. LOCATION: Fuze & Booster Quarry Landfill/Pond

NAME OF DRILLER: Christine Lam

6. MANUFACTURERS DESIGNATION OF DRILL:

MACHINES AND TYPES OF DRILLING
SAMPLING EQUIPMENT55 ft. deep
55 ft. Auger bucket

8. HOLE LOCATION: FBD-069

OVERBURDEN THICKNESS

n/a

9. SURFACE ELEVATION:

n/a

DEPTH DRILLED INTO ROCK

n/a

10. DATE STARTED: 11-13-03

11. DATE COMPLETED: 11-13-03

TOTAL DEPTH OF HOLE

11' 0 inches (c)

15. DEPTH GROUNDWATER ENCOUNTERED:

n/a

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:

GEOTECHNICAL SAMPLES

DISTURBED

UNDISTURBED

19. TOTAL NUMBER OF CORE BOXES

SAMPLES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE
RECOVERY %

DISPOSITION OF HOLE

n/a

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

C. Canale

LOCATION SKETCH/COMMENTS

SCALE:

Soil sample 13ft in
 the SW 1/4 of section
 #2 in location

HTRW DRILLING LOG

FILE NUMBER: F09-001

144

PROJECT: Fuze & Booster/RVAAP

INSPECTOR C. Carroll

SHEET 1 OF 1

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS C	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR COKE BOX	ANALYTICAL SAMPLE NO (P)	REMARKS (P)
0	0	top organics, mixed brown Clay, silt and sand (fine) to coarse granular, moist, cold (20° F min) W. Posture of rock and soil	Not further	h/d	F09-001- P137-50	soil, silt explosives, hole refilled at 4" 8"

Center hole refilled @ 6"

TASK TEAM ACTIVITY LOG SHEET

145

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11-13-03 Su M Tu W Th F SaPAGE 1 OF 1

Task Team Members:

Andy LoomCharles CanuttSteve King

Narrative (include time and location):

16:11 Arrive at FBD 0878 (Steve cleared ptm)

16:15 Begin to impl FBD 0878 - 0159-30

for Explosives in Tnt metals

Refusal in Explosives holes at 4" in all 3 holes

Refusal in center hole at 1"

unable to take the 1-3 ft interval due to rock

16:28 Leave site and return to building

~~11/13
11/13~~

Daily Weather Conditions: A.M.

P.M.

Show 24° F on, breezy 31/35%

Recorded By

Charles Canutt

QA Checked By

Rodney Kelly

DRILLING LOG		DISTRICT: Louisville				HOLE NUMBER FBI-188
MY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR: <i>n/a</i>				SHEET 1 OF 1
Fuze & Booster/RVAAP			4. LOCATION: Fuze & Booster Quarry Landfill/Pond			
DRILLER:	<i>Conrad L. Con.</i>		6. MANUFACTURERS DESIGNATION OF DRILL: <i>n/a</i>			
DYPES OF DRILLING EQUIPMENT	<i>55' back / 50' DM 55' SB "auger bucket"</i>		8. HOLE LOCATION: <i>FBIQ - 080</i>			
BURDEN THICKNESS	<i>n/a</i>		9. SURFACE ELEVATION: <i>n/a</i>			
DEPTH DRILLED INTO ROCK	<i>n/a</i>		10. DATE STARTED: <i>11/13/03</i> 11. DATE COMPLETED: <i>11/13/03</i>			
DEPTH OF HOLE	<i>1 ft</i>		15. DEPTH GROUNDWATER ENCOUNTERED: <i>n/a</i>			
TECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES		
ES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
<i>11 out 10x</i>						
POSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR: <i>C. Carroll</i>		
<i>n/a</i>	<i>✓</i>					
LOCATION SKETCH/COMMENTS			SCALE:			
<p><i>200' Dask 139</i> <i>100' location north</i> <i>25' 100' east & #2</i></p>						

HTRW DRILLING LOG

HOLE NUMBER: PCD 100

148

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: C. Cano

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS C	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE ON CORE BOX	ANALYTICAL SAMPLE NO. (E)	REMARKS (G)
1		top 2 m organic med brown silty clay then sand grading into a bright brown sandy gravel to larger end pebbles (red in color); stone powder 26 ft	non-fluorinating PID	n/a	FB050-086- 0154-20	Horts, stones Imply hole revised @ 4" per hole Center hole required
2		2) Well sandstone 700-900 mm dug up in inter-well sections	Refusal @	ft		more hole open
3						
4						
5						
6						
7						
8						
9						
10						

TASK TEAM ACTIVITY LOG SHEET

149

PROJECT NAME: Phase V/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/14/03

Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Andre Leon

Kendall B. May

Steve King

Narrative (include time and location):

0840 Arrive @ FBA D61 Cleared by S King
Begin 0-1' sample

1655 1-3' interval cleared by S King.
Begin 1-3' sample

0905 Leave site

Daily Weather Conditions: A.M.

Partly cloudy, inc. 35°

P.M. 77°

Recorded By

J.W.B.

QA Checked By

Amy Greenawalt

NEW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
FBQ D61

COMPANY NAME: SpecPro, Inc.

2. DRILL SUBCONTRACTOR:

SHEET 1 OF 1

PROJECT: Fuze & Booster/RVAAP

NAME OF DRILLER:

ST RD R-
SS 11001
SS 10001
SS 10001AND TYPES OF DRILLING
EQUIPMENT

OVERBURDEN THICKNESS

1/2

DEPTH DRILLED INTO ROCK

1/2

TOTAL DEPTH OF HOLE

31

4. LOCATION: Fuze & Booster Quarry Landfill/Pond

6. MANUFACTURERS DESIGNATION OF DRILL:

8. HOLE LOCATION: FBQ D61

9. SURFACE ELEVATION: 1/2

10. DATE STARTED: 11-14-03

11. DATE COMPLETED: 11-14-03

15. DEPTH GROUNDWATER ENCOUNTERED: 1/2

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 1/2

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 1/2

BIOLOGICAL SAMPLES

DISTURBED

UNDISTURBED

19. TOTAL NUMBER OF CORE BOXES

SAMPLES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE
RECOVERY %

POSITION OF HOLE

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

LOCATION SKETCH/COMMENTS

SCALE: NO Scale

NP

X FBQ
D61

FBQ D63

True line
N. Old road (Rd #)

+ FBQ D64

X FBQ D67 FBQ D68

HTRW DRILLING LOC

HOLE NUMBER: 1

152

TASK TEAM ACTIVITY LOG SHEET

L53

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/4/03 Su M Tu W Th F SaPAGE 1 OF 1

Task Team Members:

Finch, L.Ronda BaileySteve King

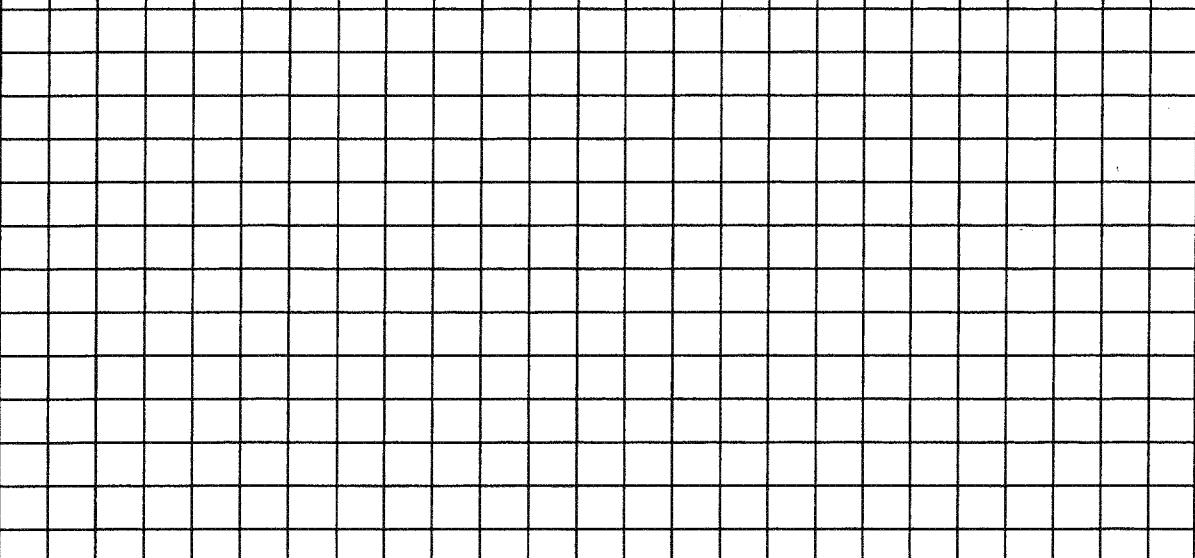
Narrative (include time and location):

0910 - Arrive @ FBL 063, Hardly S. King
Began 1-3' interval cased by S. King
0925 1-3' interval cased by S. King
Began 1-3' samples
0942 Leave Site

FBL 55 - 063 - 0125-50FBL 50 - 063 - 0126-50

AG
12/4/03

Daily Weather Conditions: A.M. Wetly cloudy, low 30sP.M. Recorded By JBLQA Checked By Amy Greenward

TRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBQ 603			
COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:		SHEET 1 OF 1			
PROJECT: Fuze & Booster/RVAAP		4. LOCATION: Fuze & Booster Quarry Landfill/Pond					
NAME OF DRILLER: Steve K.		6. MANUFACTURERS DESIGNATION OF DRILL:					
SIZES AND TYPES OF DRILLING EQUIPMENT		8. HOLE LOCATION: FBQ 601					
SAMPLING EQUIPMENT		9. SURFACE ELEVATION:					
SS 100 ft SS 110 ft SG 100 ft		10. DATE STARTED: 11/14/03 11. DATE COMPLETED: 11/14/03					
OVERBURDEN THICKNESS n/c		15. DEPTH GROUNDWATER ENCOUNTERED: n/c					
DEPTH DRILLED INTO ROCK n/c		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/c					
TOTAL DEPTH OF HOLE 31		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/c					
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
SLC well 109							
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
		<input checked="" type="checkbox"/>			<i>[Signature]</i>		
LOCATION SKETCH/COMMENTS				SCALE: See Pg 151			
							

HTRW DRILLING LOG

HOLE NUMBER: F369613

156

PROJECT: Fuzz & Booster/RVAAP

INSPECTOR *M. J.*

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS D	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. IPI	REMARKS (G)
	0-6'	0-6' Med brown clayey / all trace sand and Gravel - fine to coarse loose. Most 6-12' 10' hor. cluffy soft Very sandy gravelly from damp to dry to coarse			F369613-063 0125-50 ab	Very few Mica found Flocs, Stems horiz., glass
	16'	16' pr. clayey soft Mottled orange or gray Thin sand & gravel fine to coarse. fm			F369613-063 0126-50 ab	
	3'		3'			
	4'					
	5'					
	6'					
	7'					
	8'					
	9'					
	10'					

3'

3' 4' 5' 6' 7' 8' 9' 10'

X X X X X X X X X X

3' 4' 5' 6' 7' 8' 9' 10'

X X X X X X X X X X

3' 4' 5' 6' 7' 8' 9' 10'

X X X X X X X X X X

TASK TEAM ACTIVITY LOG SHEET

157

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/14/13 Su M Tu W Th F Sa PAGE 1 OF 1
Task Team Members:

John Kelly
Robert Leon
Steve Koss

Narrative (include time and location):

0945 - Arrived @ FB067. Cleared by S. Koss. Began 18'-1 sample FBQ58-067-0133-50 (ab)
0955. 1-3' interval cleared by S. Koss.
1000 - Refused @ 18'. FB067-0134-50 (ab)

1005 leave site

A6
12.4' B3

Daily Weather Conditions: A.M. Mostly cloudy low 35°P.M. 75° Recorded By Jeff QA Checked By Doug Greenawald

TRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER: <i>FBZ 067</i>
COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:			SHEET <u>1</u> OF <u>1</u>
PROJECT: Fuze & Booster/RVAAP <i>Steve K.</i>		4. LOCATION: Fuze & Booster Quarry Landfill/Pond			
NAME OF DRILLER:		6. MANUFACTURERS DESIGNATION OF DRILL:			
SIZES AND TYPES OF DRILLING USAMPLING EQUIPMENT <i>55 foot 55 spud 55 sample</i>		8. HOLE LOCATION: <i>FBZ Ø67</i>			
		9. SURFACE ELEVATION: <i>n/a</i>			
OVERBURDEN THICKNESS <i>n/c</i>		10. DATE STARTED: <i>11/14/03</i>			11. DATE COMPLETED: <i>11/14/03</i>
DEPTH DRILLED INTO ROCK <i>n/c</i>		15. DEPTH GROUNDWATER ENCOUNTERED: <i>n/c</i>			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <i>n/c</i>
TOTAL DEPTH OF HOLE <i>1' 6"</i>		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <i>n/c</i>			
GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES	
SAMPLES FOR CHEMICAL ANALYSIS <i>no act. log</i>	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)
DISPOSITION OF HOLE	BACKFILLED <input checked="" type="checkbox"/>	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %	
			23. SIGNATURE OF INSPECTOR <i>JKB</i>		
LOCATION SKETCH/COMMENTS <i>See pg 151</i>		SCALE:			

HTRW DRILLING LOG

HOLE NUMBER: FCBK 160

PROJECT: Fuzz & Booster/RVAAP

INSPECTOR

SHEET

OF

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (G)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (P)	REMARKS (G)
0	0-1	Brown sandy silt Some sharp material orange and gray loose-firm, moist Traces of shell.			F0020-067 0183-50	Organic material root, stem, leaves grass
1-3	Same as above				F00450-067 0184-50	
2						Rofusse (at 18")
3						
4						
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6						
7						
8						
9						
10						

TASK TEAM ACTIVITY LOG SHEET

161

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/14/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Randy Belyea
Andre Lelan
Steve King

Narrative (include time and location):

1010 - Arrive at FBQ 1D68. Monitor by S. King. Begin sample interval 0-1'
1024 - 1-3' interval closed by S. King
Begin 1-3' sample
1025 - Refract @ 2 ϕ "

1031 - Depart siteFCQSS-068-0135-SO (0)FBQSO 068-0136-SOAG12.4103

Daily Weather Conditions: A.M.

Mostly cloudy low 30s

P.M.

Recorded By

LBS

QA Checked By

Dawn Hennawall

NEW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
FBQ Q68

163

COMPANY NAME: SpecPro, Inc.

2. DRILL SUBCONTRACTOR:

SHEET 1 OF 1

PROJECT: Fuze & Booster/RVAAP

4. LOCATION: Fuze & Booster Quarry Landfill/Pond

NAME OF DRILLER:

Steve Kue

6. MANUFACTURERS DESIGNATION OF DRILL:

5. BRAND AND TYPES OF DRILLING EQUIPMENT

SS Spud

SS 2000

SS Spud

8. HOLE LOCATION:

FBQ Q68

OVERBURDEN THICKNESS

n/c

9. SURFACE ELEVATION:

n/c

DEPTH DRILLED INTO ROCK

n/c

10. DATE STARTED: 11-14-03

11. DATE COMPLETED: 11-14-03

TOTAL DEPTH OF HOLE

20"

15. DEPTH GROUNDWATER ENCOUNTERED:

n/c

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:

n/c

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/c

GEOTECHNICAL SAMPLES

DISTURBED

UNDISTURBED

19. TOTAL NUMBER OF CORE BOXES

SAMPLES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE RECOVERY %

DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

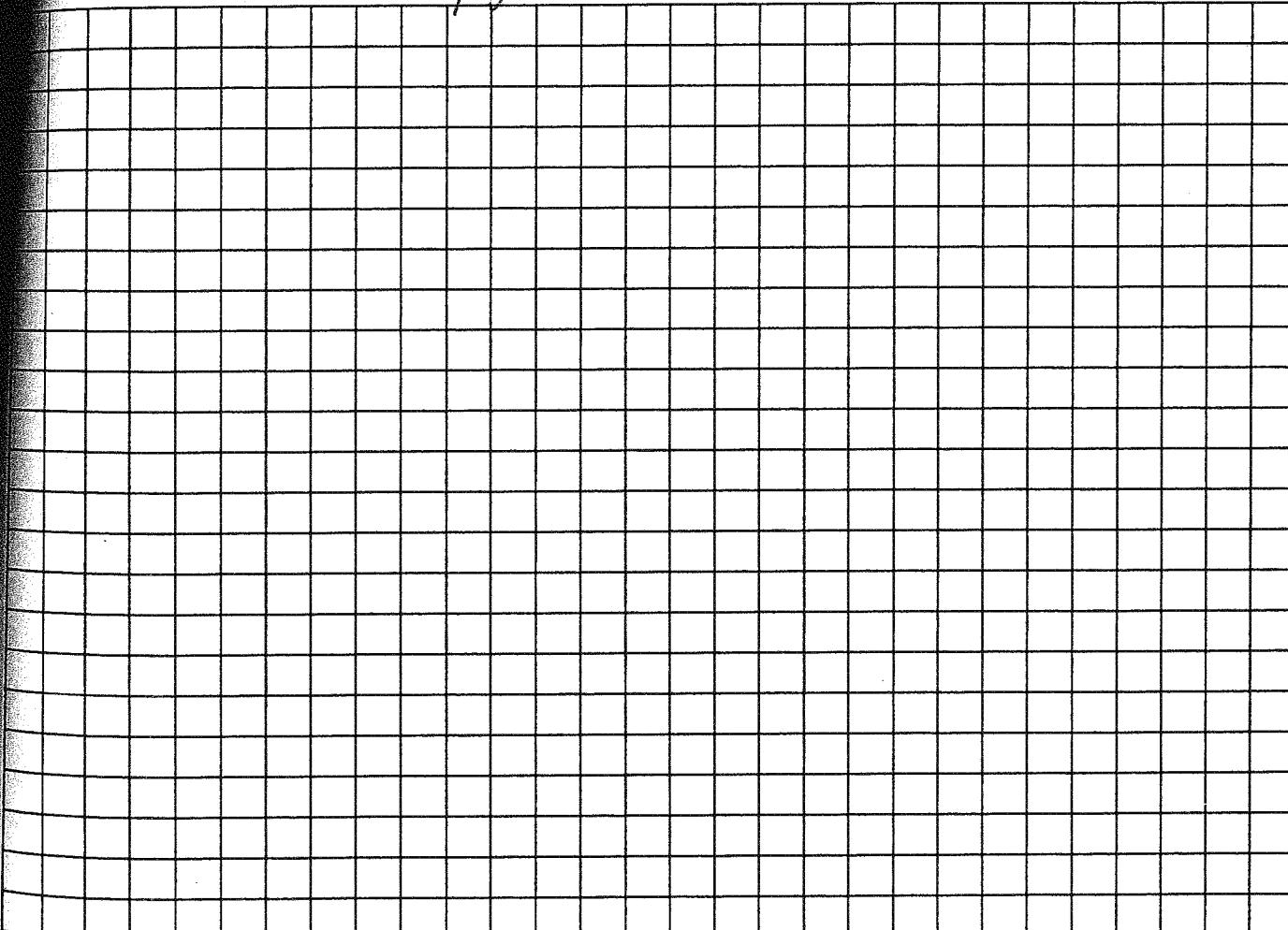
23. SIGNATURE OF INSPECTOR

CSR

LOCATION SKETCH/COMMENTS

See Pg 151

SCALE:



HTRW DRILLING LOG

HOLE NUMBER: FRAKX8

164

PROJECT: Fuze & Booster RVAAP

INSPECTOR: J. S. L.

SHEET 1 OF 1

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (G)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE IN CORE BOX	ANALYTICAL SAMPLE NO. (D)	REMARKS (G)
0	0-1	Wet to soft, soft Some clay and gravel - few pebbles Faint to pebbles loose long			F0030-D08 0135-50 (\$)	Organic material roots, grass, leaves, skins
1	1-3	Same as above			F0030-D08 0136-50 (\$)	
2						Refused @ 20'
3						
4						
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100						

TASK TEAM ACTIVITY LOG SHEET

165

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/14/03 SU M TU W TH F SAPAGE 1 OF 1

Task Team Members:

Ronde BabbittAndrea LeekSteve King

Narrative (include time and location):

- 1035 - Arrive @ FBR 044 Cleared
by S King Begin 0-1 Sample FB22-004-027-50
- 1045 1/3 cleared by S King Begin
1-3 sample
- 1050 Refusal (a) 2'6" F6050-064-028-50
- 1053 leave site to set up haul (part)
equipment out

A612.4/03

Daily Weather Conditions: A.M.

Mostly cloudy low 34°

P.M.

Recorded By

JFB

QA Checked By

Dawn Greenawald

TRW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER:
FBR D44

167

COMPANY NAME: SpecPro, Inc.

2. DRILL SUBCONTRACTOR:

SHEET 1 OF 1

PROJECT: Fuze & Booster/RVAAP

4. LOCATION: Fuze & Booster Quarry Landfill/Pond

NAME OF DRILLER:

Steve Knudsen

6. MANUFACTURERS DESIGNATION OF DRILL:

SIZES AND TYPES OF DRILLING
OR SAMPLING EQUIPMENTSS 100 ft
SS 100 ft
SS 100 ft

8. HOLE LOCATION:

FBR D44

OVERBURDEN THICKNESS

n/c

15. DEPTH GROUNDWATER ENCOUNTERED:

n/c

DEPTH DRILLED INTO ROCK

n/c

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:

n/c

TOTAL DEPTH OF HOLE

2' 6"

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):

n/c

GEOTECHNICAL SAMPLES

DISTURBED

UNDISTURBED

19. TOTAL NUMBER OF CORE BOXES

SAMPLES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE RECOVERY %

DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

LOCATION SKETCH/COMMENTS

See pg 151

SCALE:

1/2 in

HTRW DRILLING LOG

HOLE NUMBER: F304

168

PROJECT: Fuze & Booster/RVAAP

INSPECTOR

SHEET 1 OF 1

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS ①	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (if)	REMARKS (if)
0	0-1	1 ft. wet br. sand/silt Silt, some clay, tree pavels & loose fine to med. silt?			F0055-064 0127-50	May be- Material knots hardens stains
1	1-3	Some gl. gravel Fine to rubble S/S.			F0050-064 0128-50	
2						
3						
4						
5						
6						
7						
8						
9						
10						

Roughed Q 2' 6"

~~SB~~
~~114 Ø3~~

TASK TEAM ACTIVITY LOG SHEET

169

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/17/03 Su M Tu W Th F SaPAGE 1 OF 1

Task Team Members:

Ronda BaileyAndrea LeonSteve King

Narrative (include time and location):

0845 - Arrive at FQ #02. Cleared by S. King. Begin 1-3' sample and Duplicate.

0901 - At 1'-3' interval cleared by S. King. Begin 1-3' sample and duplicate.

0915 - Leave Site

~~11/17/03~~

Daily Weather Conditions: A.M.

Overcast, low 50°

P.M.

Recorded By

JBLZ

QA Checked By

Dawn Greenwald

NEW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
FBQ-D67

171

COMPANY NAME: SpecPro, Inc.

2. DRILL SUBCONTRACTOR:

SHEET 1 OF 1

OBJECT: Fuze & Booster/RVAAP

4. LOCATION: Fuze & Booster Quarry Landfill/Pond

NAME OF DRILLER:

Steve King

6. MANUFACTURERS DESIGNATION OF DRILL:

5. AND TYPES OF DRILLING
EQUIPMENTSS Spud
SS Bowl
SS Auger

8. HOLE LOCATION:

FBQ D67

OVERBURDEN THICKNESS

n/c

9. SURFACE ELEVATION:

n/c

DEPTH DRILLED INTO ROCK

n/c

10. DATE STARTED: 11-17-03

11. DATE COMPLETED: 11-17-03

TOTAL DEPTH OF HOLE

3'

15. DEPTH GROUNDWATER ENCOUNTERED:

n/c

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:

n/c

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):

n/c

EOTECNICAL SAMPLES

DISTURBED

UNDISTURBED

19. TOTAL NUMBER OF CORE BOXES

SAMPLES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE
RECOVERY %

art. Log

 BACKFILLED

MONITORING WELL

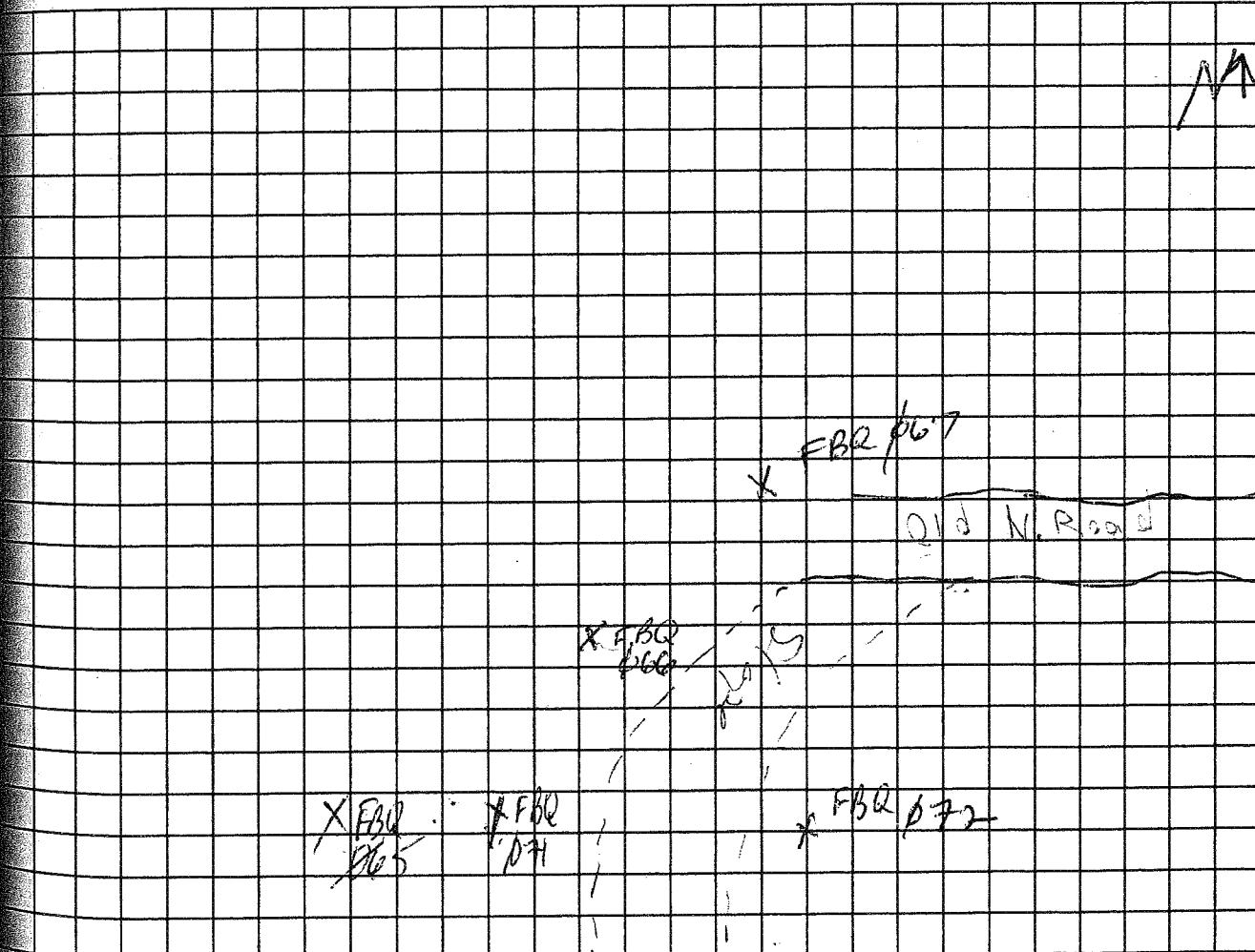
OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

LOCATION SKETCH/COMMENTS

See also pg 97

SCALE: n/c



HTRW DRILLING LOG

HOLE NUMBER: F80 #67

172

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: *PAB*

SHEET 1 OF 1

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (G)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE # OR CORE BOX	ANALYTICAL SAMPLE NO. (G)	REMARKS (G)
6-1	6'-8"	Med. Brn. Silt Clay soft, moist fine gravelly sand fine to coarse 1' to 8" to 11' wet silt some clay, trace sand and gravel. Fairly moist				Manganic reduct gas, gassy, heavy
1-3	1'-3'	It brown silt, some clay and sand, trace gravel fine to coarse. Mottled gray to orange.				
3	3'	@ 2.5' to 1' brown sand, silt some clay, mottled orange & gray, trace gravel				
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280	280'					
281	281'					

TASK TEAM ACTIVITY LOG SHEET

173

PROJECT NAME: Phase III Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/14/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Ronie BarleyAndre LeonSteve King

Narrative (include time and location):

- #924 - Arrive @ FBQ 066. Cleaned by S. King. Begin 4-1 sample FB055-066-0132-50
- #944 - 1.3' interval cleaned by S. King. Begin 1-3 sample FB050-066-0132-50
- #945 - Refused @ 2'6".
- #948 - Leave site

Daily Weather Conditions: A.M.

Overcast low 50's

P.M.

Recorded By KLBQA Checked By Dawn Hoemeward

TRW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
F130-966

COMPANY NAME: SpecPro, Inc.

2. DRILL SUBCONTRACTOR:

SHEET 1 OF 1

PROJECT: Fuze & Booster/RVAAP

4. LOCATION: Fuze & Booster Quarry Landfill/Pond

NAME OF DRILLER:

Steve King

6. MANUFACTURERS DESIGNATION OF DRILL:

SIZES AND TYPES OF DRILLING
AND SAMPLING EQUIPMENTSS Auger
SS Spudger
SS Bowl

8. HOLE LOCATION: FBR #64

10. SURFACE ELEVATION: n/c

10. DATE STARTED: 11-17-03 11. DATE COMPLETED: 11-17-03

12. OVERBURDEN THICKNESS

n/c

15. DEPTH GROUNDWATER ENCOUNTERED: n/c

13. DEPTH DRILLED INTO ROCK

n/c

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/c

17. TOTAL DEPTH OF HOLE

2' 6"

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/c

18. GEOTECHNICAL SAMPLES

DISTURBED

UNDISTURBED

19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE
RECOVERY %

See Act. Log

BACKFILLED

MONITORING WELL

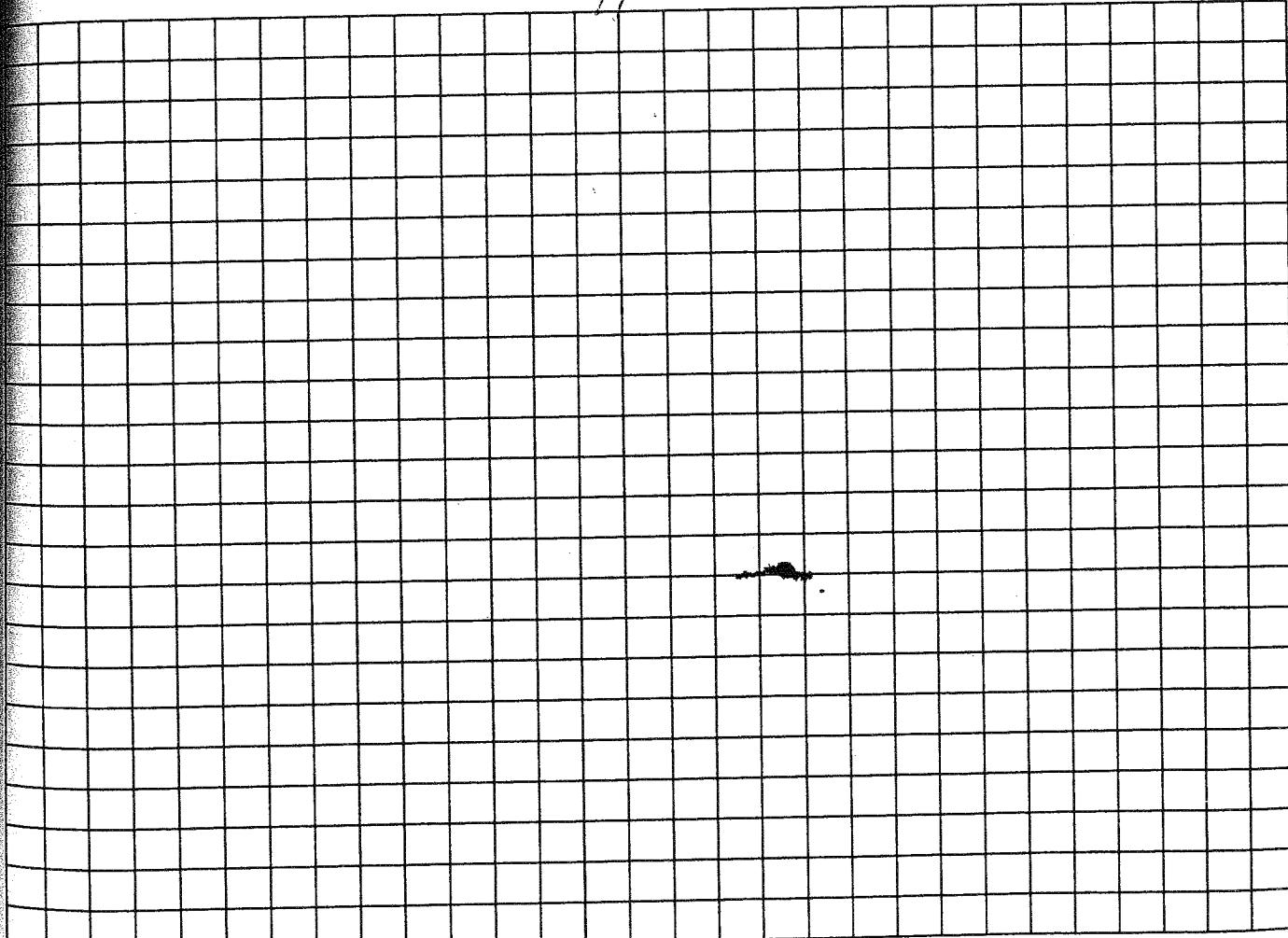
OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR: *[Signature]*

LOCATION SKETCH/COMMENTS

See Pg 99 Job 171

SCALE: n/c



HTRW DRILLING LOG

HOLE NUMBER: F360002

176

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: *R.S.B.*

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS C	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (D)	REMARKS (E)
0-1		Most brown silt, clayey trace sand & gravel locally coarse, soft, & @ 6' to 17' brown & dk brown sand & gravel, moist firm.			F0055-06 0131-50 ?	Organic material roots, stems leaves grass
1-3		It brown silt, some sand and clay, Mottled gray & orange fine gravel, fine to coarse firm moist to dry and increases with depth.			F0050-06 0132-50 ?	
2						
3						
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9						
10						

R.S.B. 2' 6"

~~*R.S.B.* 11/17/03~~

TASK TEAM ACTIVITY LOG SHEET

177

PROJECT NAME: Phase III RI Fuze & Booster Quarry Landfill/Pond DELIVERY ORDER NO: 0012

Date (mm/dd/yy): 11/17/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Ronie Bailey
Andre Lark
Steve King

Narrative (include time and location):

1055 - Arrive on site at 072. Checked by
King FBQ55-072-0143-50
1010 - Refusal (a) 1.
1020 Leave Site

At12.4.03Daily Weather Conditions: A.M. Overcast, H. 25°

P.M.

Recorded By JLB QA Checked By Amy Tannahill

HTRW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
FBQ 072

179

COMPANY NAME: SpecPro, Inc.

2. DRILL SUBCONTRACTOR:

SHEET 1 OF 1

PROJECT: Fuze & Booster/RVAAP

4. LOCATION: Fuze & Booster Quarry Landfill/Pond

NAME OF DRILLER:

Angie Leon

6. MANUFACTURERS DESIGNATION OF DRILL:

7. SIZES AND TYPES OF DRILLING
AND SAMPLING EQUIPMENT

55 s 2002

55 bond

55 auger

8. HOLE LOCATION:

FBQ 072

9. SURFACE ELEVATION:

n/c

10. DATE STARTED:

11/17/03

11. DATE COMPLETED:

11-17-03

12. OVERBURDEN THICKNESS

n/c

15. DEPTH GROUNDWATER ENCOUNTERED:

n/c

13. DEPTH DRILLED INTO ROCK

n/c

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:

n/c

14. TOTAL DEPTH OF HOLE

11

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):

n/c

18. GEOTECHNICAL SAMPLES

DISTURBED

UNDISTURBED

19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE
RECOVERY %

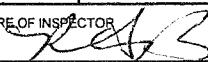
22. DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

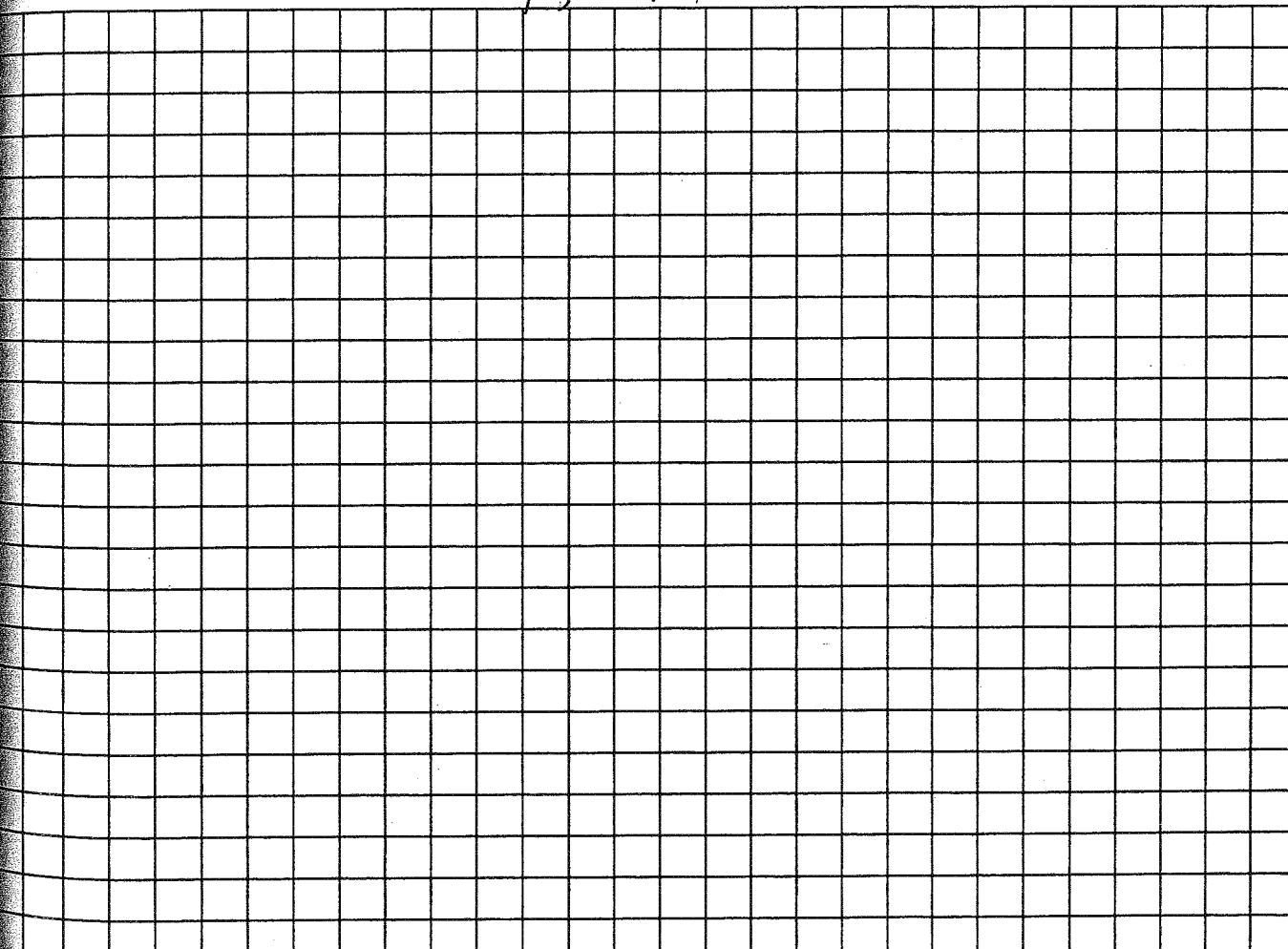
23. SIGNATURE OF INSPECTOR



LOCATION SKETCH/COMMENTS

See Pg 171

SCALE:



HTR W DRILLING LOG

HOLE NUMBER: FB0472

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: *PCJZ*

SHEET 1 OF 1

180

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS C	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (if)	REMARKS (if)
0-1	1	Med brown silty sand; gravel loose, fine to pebble mod trace clay. Red SS + sand			FB055-022 0143-50	Organic material Roots, stems, leaves grass.
1	1					<i>Refined @ 1'</i>
2	2					
3	3					
4	4					
5	5					
6	6					
7	7					
8	8					
9	9					
10	10					

TASK TEAM ACTIVITY LOG SHEET

181

PROJECT NAME: Phase VII RI Fuze & Booster Quarry Landfill/Pond DELIVERY ORDER NO: 0012

Date (mm/dd/yy): 1/17/13 Su M Tu W Th F Sa PAGE 1 OF 1
Task Team Members: J

Ken & Baby

Narrative (include time and location):

Narrative (include time and location):

1025 - Arrive @ FBO off Hwy 1. Cleared by S. King. Began p-1 sample FB059071-0141-50 (1)

1046 - (1-3') interval cleared by S. King

1043 - Refusal @ 1B." FB050-071-0142-50 (2)

1045 - Leave site

1
AG
12.4.05

Daily Weather Conditions: A.M. Mostly Cloudy and 54°

Recorded By SMB P.M. _____ QA Checked By Amy Hanaway

HTRW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
F30071

COMPANY NAME: SpecPro, Inc.

2. DRILL SUBCONTRACTOR:

SHEET 1 OF 1

3. PROJECT: Fuze & Booster/RVAAP

4. LOCATION: Fuze & Booster Quarry Landfill/Pond

5. NAME OF DRILLER: Steve King

6. MANUFACTURERS DESIGNATION OF DRILL:

7. SIZES AND TYPES OF DRILLING
AND SAMPLING EQUIPMENT

55 spoon

55 auger

55 bore

8. HOLE LOCATION: F30071

9. SURFACE ELEVATION: 1/210. DATE STARTED: 11/17/0311. DATE COMPLETED: 11-17-0312. OVERBURDEN THICKNESS n/c15. DEPTH GROUNDWATER ENCOUNTERED: n/c13. DEPTH DRILLED INTO ROCK n/c16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/c14. TOTAL DEPTH OF HOLE 18"17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/c

18. GEOTECHNICAL SAMPLES

DISTURBED

UNDISTURBED

19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE
RECOVERY %

22. DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

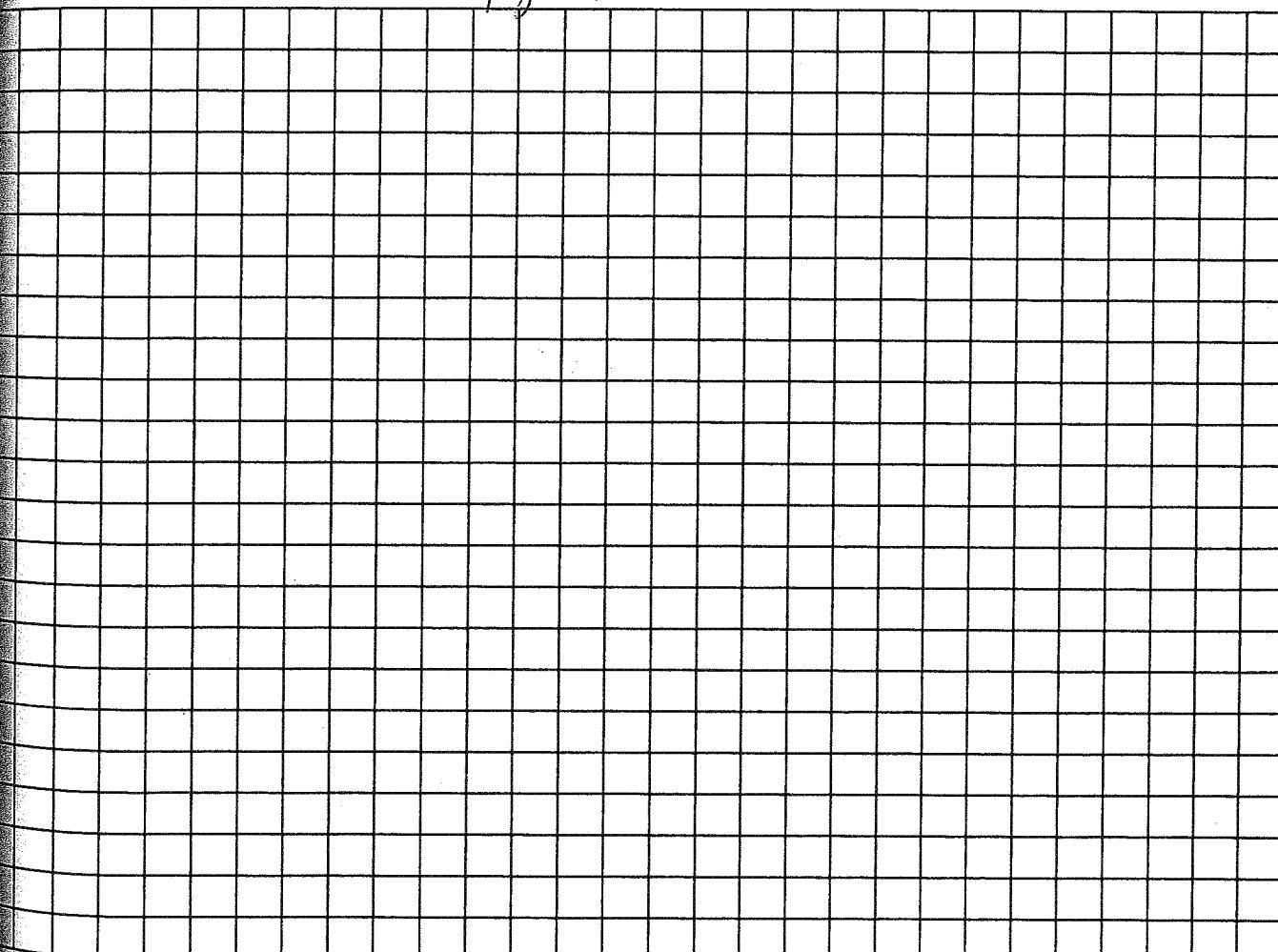
OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR RABZ

LOCATION SKETCH/COMMENTS

See Pg 171

SCALE:



HTRW DRILLING LOG

HOLE NUMBER: F60071

184

PROJECT: Fuz & Booster/RVAAP

INSPECTOR: *M.H.S.*

SHEET 1 OF 1

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (G)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	-1'	1' brown Silt sand Sand & gravel traces Clay, fine, in tilled orange. Fine to pebbles Dense Increase sand w/depth			F6050-011 0141-20	Organic Material leaves, stems grass, roots
	2'				F6050-011 0142-20	
	3'	Similar as above Red sand & ss pebbles.				
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	5'					
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TASK TEAM ACTIVITY LOG SHEET

185

PROJECT NAME: Phase I/II RI Fuze & Booster Quarry Landfill/Pond DELIVERY ORDER NO: 0012

Date (mm/dd/yy): 11/17/03

Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Randy BellAndre LeonSteve King

Narrative (include time and location):

- 1041 Arrive @ FBQ #65. Cleared 6' S. fence. Begin D-1 sample FBQ 30-068-0129
- 1052 - Refused @ 10" in and perimeter hole
- 1055 - 1-3' fence interval cleared by S. King. Being 1-3 sample FBQ 30-068-0130
- 1100 - Refused @ 2'
- 1105 - Leave site of haul equipment to Road

96

12.4 ps

Daily Weather Conditions: A.M.

Overcast mid 50s

P.M.

Recorded By

JFB

QA Checked By

Amy Hernandez

HTRW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
FBA 065

COMPANY NAME: SpecPro, Inc.

2. DRILL SUBCONTRACTOR:

SHEET 1 OF 1

187

PROJECT: Fuze & Booster/RVAAP

4. LOCATION: Fuze & Booster Quarry Landfill/Pond

NAME OF DRILLER:

Steve King

6. MANUFACTURERS DESIGNATION OF DRILL:

SIZES AND TYPES OF DRILLING
AND SAMPLING EQUIPMENTSS Spade
SS Bond
SS Auger

8. HOLE LOCATION: FBA 065

OVERBURDEN THICKNESS

n/c

9. SURFACE ELEVATION: n/c

DEPTH DRILLED INTO ROCK

n/c

10. DATE STARTED: 11/17/03

11. DATE COMPLETED: 11-17-03

TOTAL DEPTH OF HOLE

2'

15. DEPTH GROUNDWATER ENCOUNTERED: n/c

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/c

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/c

GEOTECHNICAL SAMPLES

DISTURBED

UNDISTURBED

19. TOTAL NUMBER OF CORE BOXES

SAMPLES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE RECOVERY %

DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

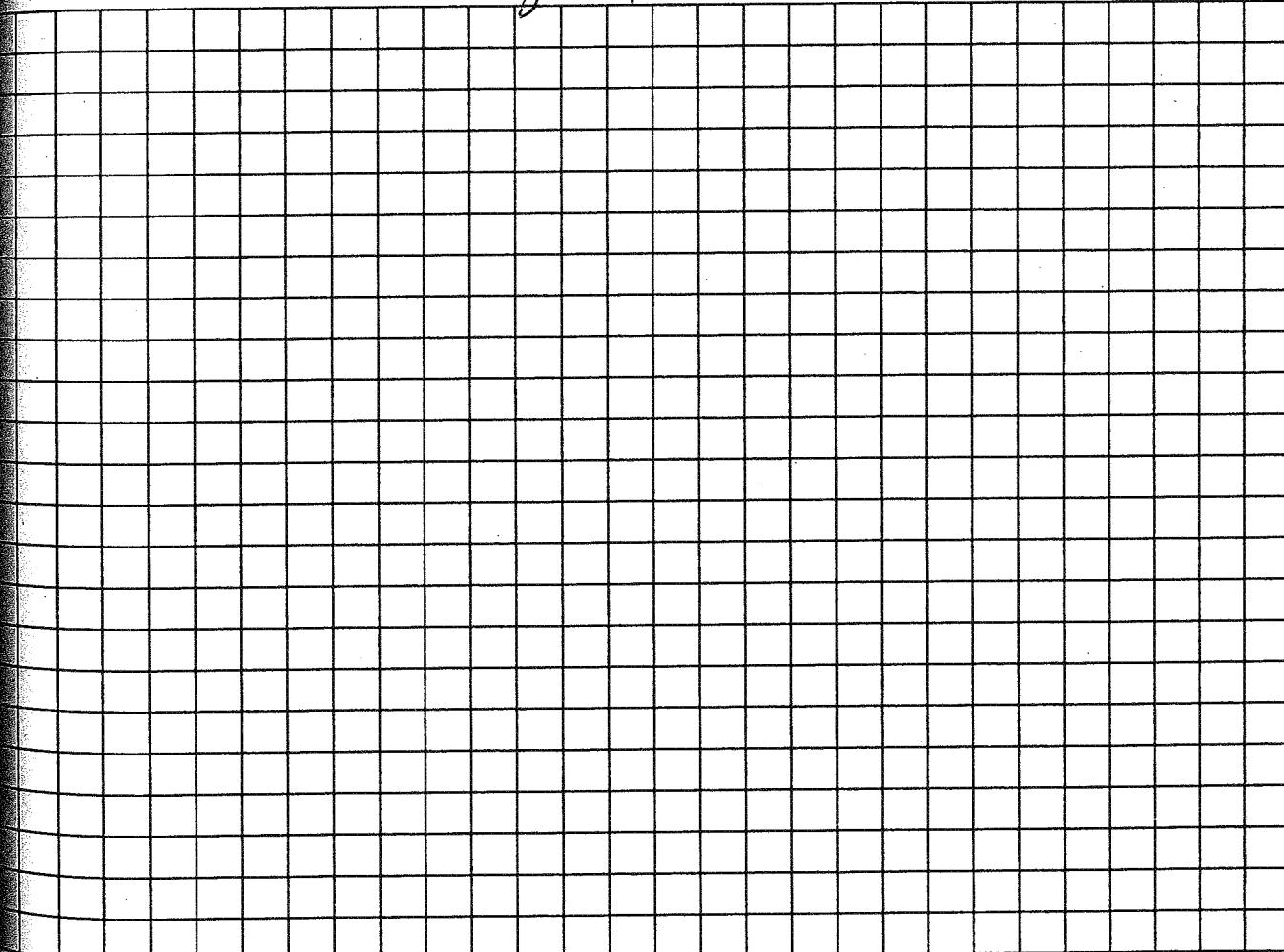
OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

LOCATION SKETCH/COMMENTS

See Pg 171

SCALE:



HTRW DRILLING LOG

HOLE NUMBER: FBQ665

188

PROJECT: Fuze & Booster/RVAAP

INSPECTOR *JLH*

SHEET 1 OF 1

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (E)	REMARKS (G)
0	0-1	bed very sandy with some clay and sand. Fine to coarse. Firm moist			FBQSS-065 0129-50 46	Refusal @ 1' in E Reprinted below Organic material root, stems, leaves, grass.
1-3	1-3	Same as above Increase in sand & gravel, tan & red 55. fine - pebbles			FBQSO-065 0130-54 46	
3						<i>Refusal @ 2'</i>
4						
5						
6						
7						
8						
9						
10						

TASK TEAM ACTIVITY LOG SHEET

189

PROJECT NAME: Phase III Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/17/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Ronnie Bailey
Andrea Leon
Steve King

Narrative (include time and location):

- 1300 - Arrive @ FBQ #86, Cleared by S King. Begin ^{explos/TA} _{FBQ-#86} _M ₂₀₀₃ for sample fo
- 1310 - 1'-3' cleared by S King. Begin sample of full suite with Duplicate
- 1320 - Refusal @ 2' ^{FBQ-#86-0172-S0}
^{FBQ-#86-0426-S0}
- 1334 - Leave site

Daily Weather Conditions: A.M.

P.M.

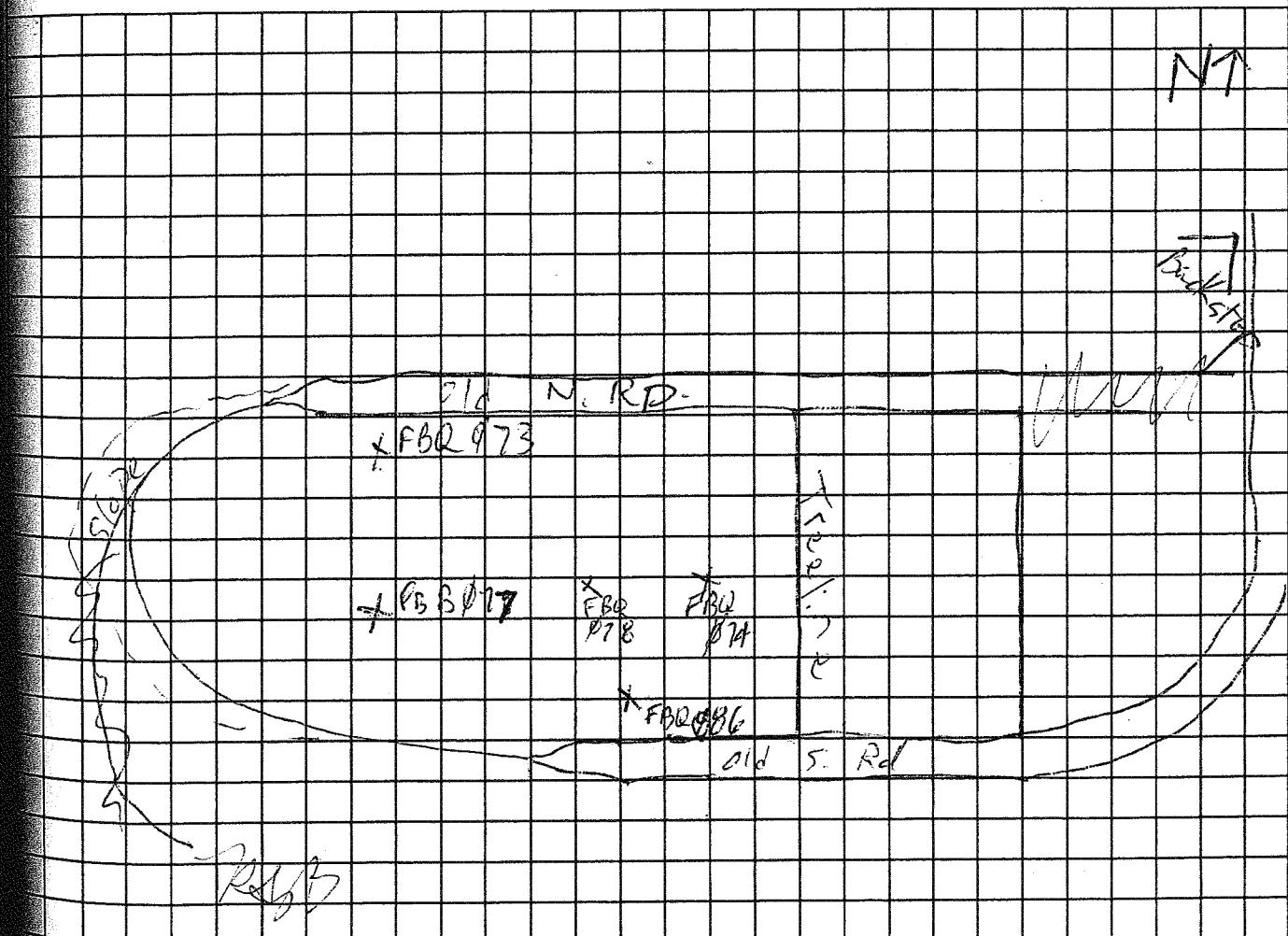
Overcast low 50's

Recorded By PLB QA Checked By Amy Greenawald

HTRW DRILLING LOG		DISTRICT: Louisville				HOLE NUMBER FBRQ 973
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:				SHEET 1 OF 1
3. PROJECT: Fuze & Booster/RVAAP			4. LOCATION: Fuze & Booster Quarry Landfill/Pond			
5. NAME OF DRILLER: Steven King			6. MANUFACTURERS DESIGNATION OF DRILL:			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: FBRQ 973				
		9. SURFACE ELEVATION: n/c				
		10. DATE STARTED: 11-17-03		11. DATE COMPLETED: 11-17-03		
12. OVERBURDEN THICKNESS n/c		15. DEPTH GROUNDWATER ENCOUNTERED: n/c				
13. DEPTH DRILLED INTO ROCK n/c		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/c				
14. TOTAL DEPTH OF HOLE 2'			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/c			
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES		
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	

LOCATION SKETCH/COMMENTS

SCALE: no scale



HTRW DRILLING LOG

FILE NUMBER: HTRW PEG

192

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: *J. L. St. L.*

SHEET 1 OF 1

ELEV (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (if applicable)	REMARKS
0	0-1	16' down Sandy silt Orange & grey wetting Trace clay and gravel Fine to coarse. 100%			F0025-000 0172-20	Organic material leaves, grass, stems, roots
1	1-3	Sand as above			B0025-000 0172-20	
2	2					Refusal @ 2'
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TASK TEAM ACTIVITY LOG SHEET

193

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/17/03Su Tu W Th F SaPAGE 1 OF 1

Task Team Members:

Hyndi LeggRendi GrisleySteve King

Narrative (include time and location):

1356 - Arrive @ FBQ #78. (Dug by S. King.)
Begin 0-1' sample FBQSS-078-0155-301357 - 1-3' interval cleared by S. King.Begin 1-3' sample & split.1358 - Retract @ 1' - No 1-3' sample
or split.1403 - leave siteA612.4.03

Daily Weather Conditions: A.M.

P.M.Overcast, mid 50'sRecorded By R.H.G.QA Checked By Darryl Steenward

HTRW DRILLING LOG		DISTRICT: Louisville				HOLE NUMBER FBQ #78
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:				SHEET 1 OF 1
3. PROJECT: Fuze & Booster/RVAAP			4. LOCATION: Fuze & Booster Quarry Landfill/Pond			
5. NAME OF DRILLER: Steve King			6. MANUFACTURERS DESIGNATION OF DRILL:			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		SS SPOON		8. HOLE LOCATION: FBQ #78		9. SURFACE ELEVATION: n/c
		SS Thread				
		SS Auger				
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 1'			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/a			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)
See site log						21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE		<input checked="" type="checkbox"/> BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR	
LOCATION SKETCH/COMMENTS See Fig 191 SCALE:						

HTRW DRILLING LOG

HOLE NUMBER: F8Q478

196

PROJECT: Fuze & Booster/RVAAP

INSPECTOR

SHEET 1 OF 1

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (#)	REMARKS (G)
6-1		Med brown silty sand, some Clay, moist, some gravel Fin to coarse. 100%			F8Q478 055-5	Organic material roots, stems, grass leaves

Reduced to 1'

AG 12 4.03

TASK TEAM ACTIVITY LOG SHEET

197

PROJECT NAME: Phase III Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/17/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Dan & BaileyAndre JeanSteve King

Narrative (include time and location):

1405 - Arrive @ FBO off 77, Marcellus
by S.King Begin 1-3 sample F0035-077-0153-20

1435 - 1-3 intervals cleared by F0035-077-0154-50
S.King, Begin 1-3 samples F0035-077-0154-50

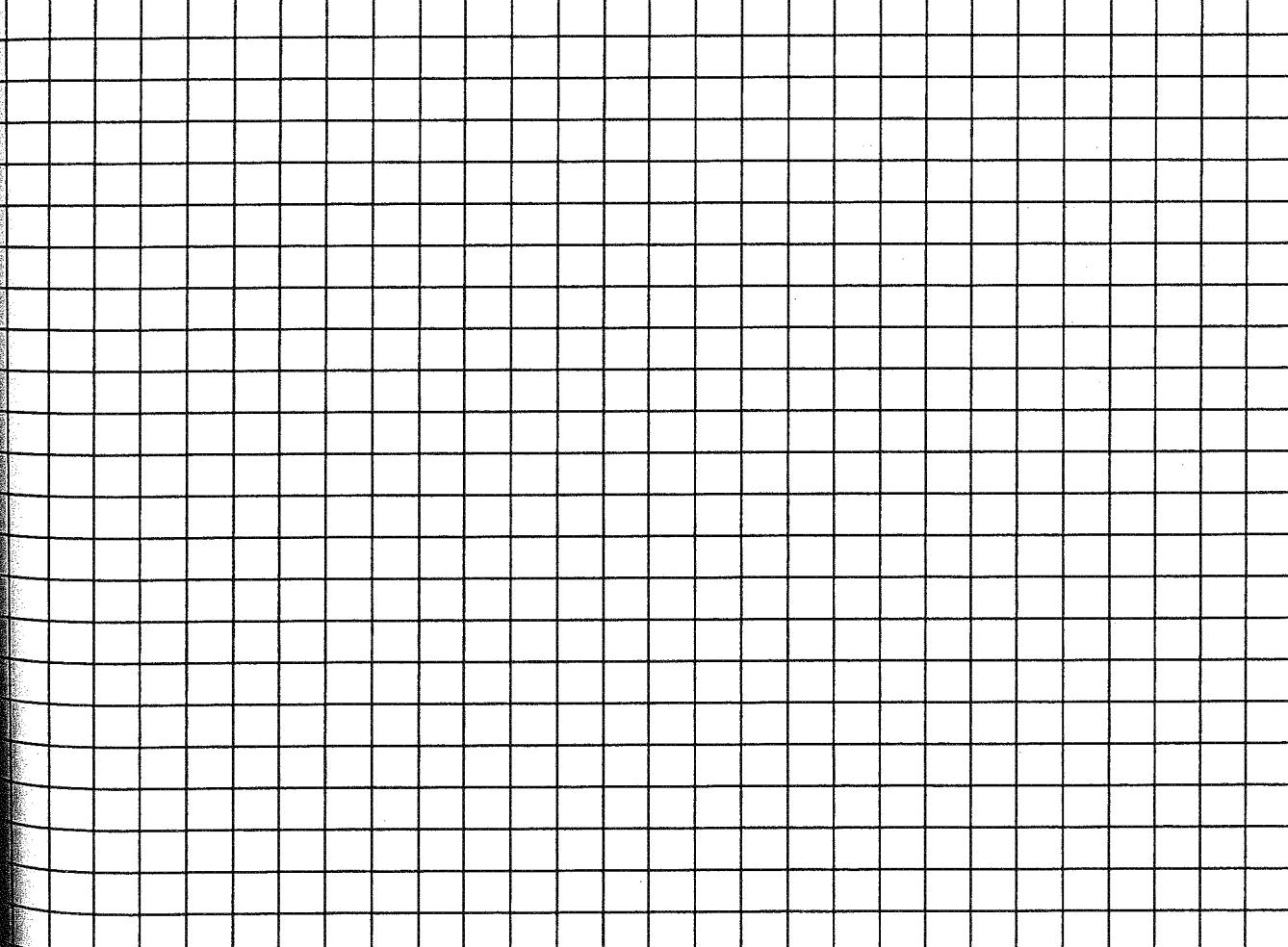
1443 - Leave site

AG
3.4.05

Daily Weather Conditions: A.M.

P.M.

Overcast low 50°Recorded By RFBQA Checked By Amy Greenwald

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER FBO 077	
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:			SHEET 1 OF 1	
3. PROJECT: Fuze & Booster/RVAAP		4. LOCATION: Fuze & Booster Quarry Landfill/Pond				
5. NAME OF DRILLER: Andre Leon		6. MANUFACTURERS DESIGNATION OF DRILL:				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: FBO 077				
		9. SURFACE ELEVATION:				
		10. DATE STARTED: 11/17/03		11. DATE COMPLETED: 11-17-03		
12. OVERBURDEN THICKNESS n/c		15. DEPTH GROUNDWATER ENCOUNTERED: n/c				
13. DEPTH DRILLED INTO ROCK n/c		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/c				
14. TOTAL DEPTH OF HOLE 3'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/c				
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES		
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)
Soil cut. 100' J						21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR <i>[Signature]</i>	
LOCATION SKETCH/COMMENTS See pg 191			SCALE:			
						

HTRW DRILLING LOG

HOLE NUMBER: F001 D77

200

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: *RDB*

SHEET 1 OF 1

ELEV. FT	DEPTH (ft)	DESCRIPTION OF MATERIALS ○	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE CR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
0	0 ft	6' 0" ft brn clay/soil Silt trace sand gravel fine. Pebbly. Plastic moist Fine silt moisture Tone zone sand & gravel			F001-077-0 0153-0	Oganic material Roots grass stones lenses
1	1 ft	Same as above, Increasing sand With depth to 1 ft brn sandy silt Zone clay & gravel. Some red tan Sand and SS			F001-077-0 0154-0	
2	2 ft					
3	3 ft					
4	4 ft					
5	5 ft					
6	6 ft					
7	7 ft					
8	8 ft					
9	9 ft					
10	10 ft					

RDB
11/7/03

TASK TEAM ACTIVITY LOG SHEET

201

PROJECT NAME: Phase I/II Fuze & Booster Quarry Landfill/Pond

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/17/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Ronk Bailey

Andre Leon

Steve King

Narrative (include time and location):

- 1445 - Arrive @ FBQ #73. Cleared by S. King. Begin Ø-1 sample FEBSS-073-0145-50
- 1500 - 1-3' interval cleared by S. King.
- Begin Sample for 1-3' FBQ#60-073-1146-50
- 1514 - Leave site to haul out equipment

Daily Weather Conditions: A.M.

P.M.

Overcast and 50°Recorded By RLB QA Checked By Doug Hennard

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER FBQ <i>Ø73</i>
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:			SHEET <u>1</u> OF <u>1</u>
3. PROJECT: Fuze & Booster/RVAAP		4. LOCATION: Fuze & Booster Quarry Landfill/Pond			
5. NAME OF DRILLER: Andre Loon		6. MANUFACTURERS DESIGNATION OF DRILL:			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: FBQ <i>Ø73</i>			
		9. SURFACE ELEVATION: n/c			
12. OVERBURDEN THICKNESS n/c		10. DATE STARTED: 11/17/03			11. DATE COMPLETED: 11-17-03
13. DEPTH DRILLED INTO ROCK n/c		15. DEPTH GROUNDWATER ENCOUNTERED: n/a			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/a
14. TOTAL DEPTH OF HOLE 3'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/c			
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS <i>500 ml CT 1g</i>		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE <i>j</i>		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
23. SIGNATURE OF INSPECTOR <i>RAB</i>					
LOCATION SKETCH/COMMENTS <i>See Pg 191</i>			SCALE:		

HTRW DRILLING LOG

HOLE NUMBER: HQ473

204

PROJECT: Fuze & Booster/RVAAP

INSPECTOR *Rash*

SHEET 1 OF 1

DEPTH (ft)	DEPTH (in)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OK CORE BOX	ANALYTICAL SAMPLE NO. (D)	REMARKS (G)
0-1		med brown silty sand. loose 2 gravel charge to brown sandy silt @ 8" down clayey gravel fine to pebbles. moist firm.			F6050-528 6145-50	Organic Material Roots, stems, knits grass
1		lt brown clayey silt orange & gray mottling firm moist trace sand & gravel fine to coarse. Increase in density and Sand with depth to 15' brown silt. some clayey sand, trace gravel, stiff			F6050-513 6145-50	
3						
4						
5						
6						
7						
8						
9						
10						

3'

11/7/03