

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 Su (X) M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Cinder Leon Steve King
Ronda Bailey
Charles Small

Narrative (include time and location):

9:00 Arrive at sample location FB9-082 (Steve clears
9:05 Begin sampling FB95-082-0163-50
for explosives and TML metals at the 0-1 interval
9:15 Start sampling FB950-082-0164-50
for explosives and TML metals at the 1-3
ft interval - hit rock in center, change over to W. exp hole
9:30 Finish sampling, go to next location

AG
12.4.03

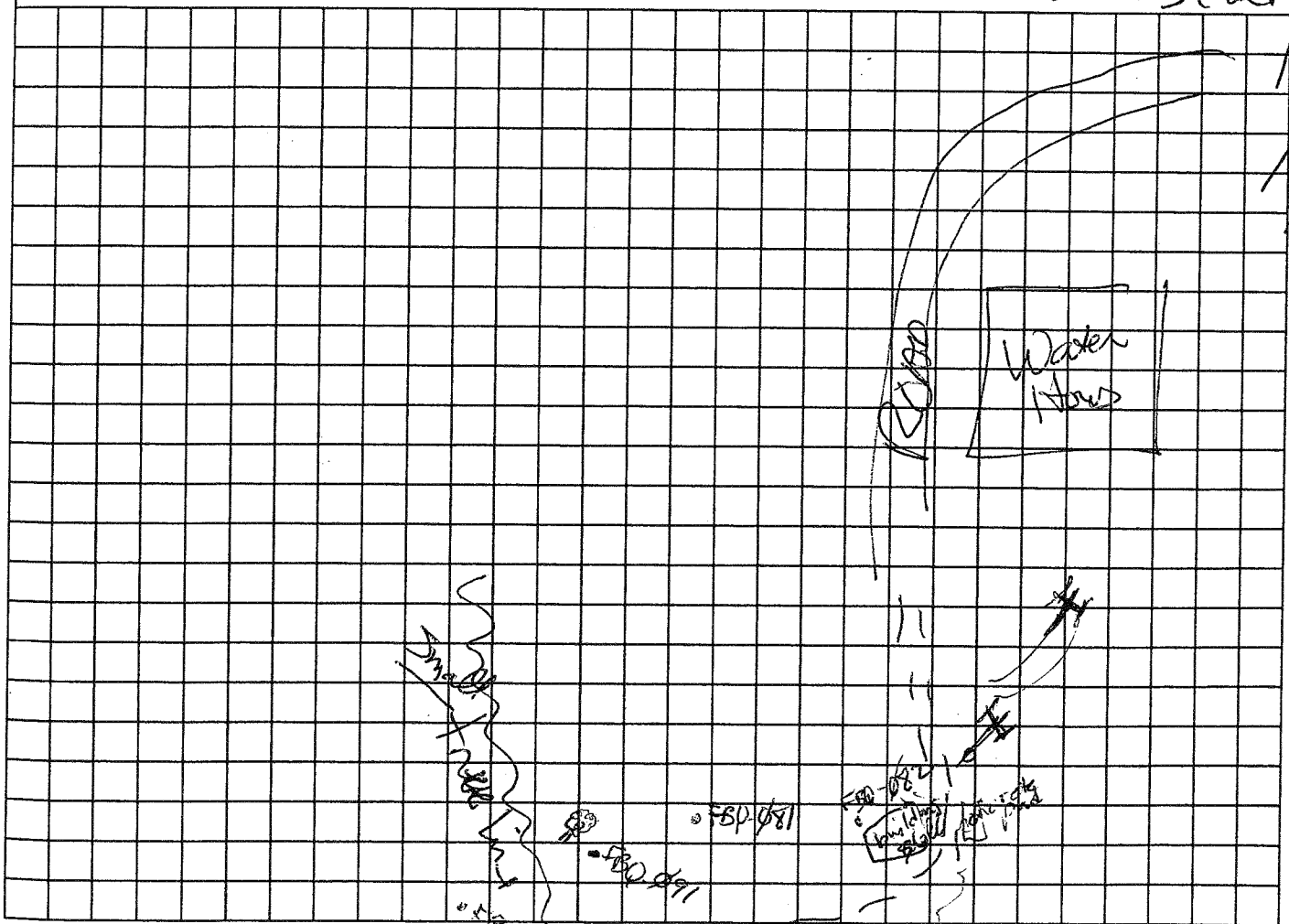
Daily Weather Conditions: A.M. Overcast, light drizzle, 48°/50°

P.M.
Recorded By Charles Small QA Checked By Almy Freeman

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBO-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: Andre Leon			6. MANUFACTURERS DESIGNATION OF DRILL: n/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT SS drill/spinn 35 3/2" auger/buckets		8. HOLE LOCATION: FBO			
9. SURFACE ELEVATION: n/A					
12. OVERBURDEN THICKNESS n/A			15. DEPTH GROUNDWATER ENCOUNTERED: n/A		
13. DEPTH DRILLED INTO ROCK n/A			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/A		
14. TOTAL DEPTH OF HOLE 3"			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): Water in hole after 1 hr		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
21. TOTAL CORE RECOVERY %		OTHER (SPECIFY)		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE n/A		BACKFILLED <input checked="" type="checkbox"/>		MONITORING WELL <input type="checkbox"/>	
23. SIGNATURE OF INSPECTOR		CCaney			

LOCATION SKETCH/COMMENTS

SCALE: **not to scale**



HTRW DRILLING LOG

HOLE NUMBER: ~~FBQ-080~~

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: C. C. Canello

SHEET 1 OF 1

48

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Sandy-silt, some clay, med brown, some sandstone approx 40% slag	PID not functioning	h/g	FBQ55-082- 0103-50	
	2	Sandy-silt, more sand than above, trace clay, some sandstone 40% slag		v	FBQ50-080 -0104-50	hit refusal in center hole, go to W. hole to get to the 1-3 interval
	3					
	4	<p>AG 12.4.03</p>				
	5					
	6					
	7					
	8					
	9					
	10					

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 Canell

Steve King

Andy Leon

Randa Bailey

Narrative (include time and location):

09:38 Arrive at sample location after Steve cleared

09:40 Began to sample FBSS-081-0161-50

for explosives and TAT metals at the 11" interval

Steve Refused in all explosive holes at the 11-12"

Center hole refusal at the 11", unable to do 1-3 intervals

10:00 Go to next location

~~AK-
12-4-03~~

Daily Weather Conditions: A.M.

Partly cloudy, 40° F

Recorded By

Chandler Canell

QA Checked By

Andy Leon

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER FBQ-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 Lean			6. MANUFACTURERS DESIGNATION OF DRILL: n/a				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT SS spoon/bawl SS 3 1/2" auger bucket		8. HOLE LOCATION: FBQ-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 see att. log		VOC		METALS		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE		BACKFILLED <input checked="" type="checkbox"/>		MONITORING WELL		OTHER (SPECIFY)	
						23. SIGNATURE OF INSPECTOR C. Canale	

LOCATION SKETCH/COMMENTS

SCALE:

See page 4/7 for location
of FBQ-087 in ^{soil} logbook
#2

HTRW DRILLING LOG

HOLE NUMBER: FB048

52

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: C. Canall

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0	Clayey sand, trace silt, med. brown mottled & some gravel, med to pebble, 20% slag, 40% pebble. Reddish sandstone appears from 11-12"	pid non function	N/A	FB055-1081 08/1/00	Water starts appearing in hole around 6-7"
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

Refusal in all exp holes around 11-12" - Center hole refusal @ 11"

RG
12-1-05

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 Sa PAGE 1 OF

Task Team Members:

Andie Leon Steve King
Chantelle Canall
Linda Bailey

Narrative (include time and location):

10:04 Arrive at sample FBD-091, Steve pre-cleared
10:05 Begin to sample FBDs-091-0181-50
for explosives and TAT metals
HT refusal at 6" in explosive holes and
at the HT 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~~

Daily Weather Conditions: A.M. overcast, low clouds 88/61 on 48°F

Recorded By Chantelle Canall P.M. QA Checked By Amy Greenwald

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER FBQ 091	
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 SS bowl / 50mm SS 3 1/2" auger bucket		8. HOLE LOCATION: FBQ 091		9. SURFACE ELEVATION: n/a		
12. OVERBURDEN THICKNESS: n/a		15. DEPTH GROUNDWATER ENCOUNTERED: n/a		10. DATE STARTED: 7/11/05		
13. DEPTH DRILLED INTO ROCK: n/a		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/a		11. DATE COMPLETED: 7/11/05		
14. TOTAL DEPTH OF HOLE: n/a		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):				
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES: n/a
20. SAMPLES FOR CHEMICAL ANALYSIS see att log		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE see att log		BACKFILLED <input checked="" type="checkbox"/>	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %	
				23. SIGNATURE OF INSPECTOR: C. Carroll		

LOCATION SKETCH/COMMENTS

SCALE: **not to scale**

See page 47 in the soil
logbook # 2 for sample

HTRW DRILLING LOG

HOLE NUMBER: **FB0-09**

56

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: **OCull**

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	Clayey-sand, trace Si 14, med brown-mottled tan, reddish sandstone, fine gravel med to coarse silt, 10% to 20% clay	non-functioning	N/A	FB009-09 0181-50	refused @ 1 ft and other 1 ft in the other 2 explor holes. Center hole @ 11
	1		<u>Refusal</u>			
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

~~AS
12.4.03~~

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 Sa

PAGE 1 OF 1

Task Team Members:

Kanda Bailey

Steve King

Andre Leon

Chandler Canall

Narrative (include time and location):

10:35 Arrive at sample location - Steve clears

10:40 Begin to sample BQ55-090-0179-50

for explosives and HAP Metals

Refusal in all 3 explosive holes at
4-5" due to cobbles and rocks

Refusal @ 9" in center hole

10:59 Go to next sample

[Large section of the log sheet is crossed out with a diagonal line.]

PK
12-4-03

Daily Weather Conditions: A.M. overcast, mist rain off/on

P.M.

Recorded By Chandler Canall

QA Checked By Amy Greenwall

HTRW DRILLING LOG

DISTRICT: **Louisville**

HOLE NUMBER **FBD-090** 59

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 Leary**

6. MANUFACTURERS DESIGNATION OF DRILL: **n/a**

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

**SS hand/spoon
SS 3 1/2" auger bucket**

8. HOLE LOCATION: **FBD-090**

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):
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)

21. TOTAL CORE RECOVERY %

22. DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

E. Canell

LOCATION SKETCH/COMMENTS

SCALE:

See page 47 in the
soil logbook #2
for location

HTRW DRILLING LOG

HOLE NUMBER: **FB5-270** 60

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: *Card*

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	1	Clayey sand, trace silt, med brown, mottled tan, reddish sandstone, some gravel med to pebbles, trace Slag plus	Air not functioning	1/A	FB55 05/05 179-50	Refusal @ 4' as per 3 expos. hole roots in ^{ce} some roots/stems throughout
	9	<u>refusal at 9"</u>				
	12.4	AG 12-4-05				

HTRW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
F13Q 093

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 Legu

6. MANUFACTURERS DESIGNATION OF DRILL:

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

SS Band
SS auger
SS spjw

8. HOLE LOCATION: F13Q 093

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

6'

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):

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

[Signature]

LOCATION SKETCH/COMMENTS

See pg 47

SCALE:

HTRW DRILLING LOG

HOLE NUMBER: F-10093

64

PROJECT: Fuze & Booster/RVAAP

INSPECTOR

SHEET OF

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0	med br sandy clay. Some silt. Some silty. Trace gravel. Red SS.			10093-0185	organic character
	6	<u>Refusal @ 6"</u>			<u>(all)</u>	holes
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

AG
12.4.03

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: Steve King

6. MANUFACTURERS DESIGNATION OF DRILL:

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

45 Auger
55 S
55 Hand

8. HOLE LOCATION: FBQ 092

9. SURFACE ELEVATION:

10. DATE STARTED: 11-11-03

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)

OTHER (SPECIFY)

21. TOTAL CORE RECOVERY %

22. DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

[Signature]

LOCATION SKETCH/COMMENTS

See Pg 47

SCALE:

HTRW DRILLING LOG

HOLE NUMBER: FB207

68

PROJECT: Fuze & Booster R/VAAP

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)
		Med brn Sandy clay Silt. Some gravel trace Red SS	DP		FB207 #18350	2-6" Refusal 1-5" Refusal Cuts 6' Refusal Rocks, glass flakes etc.
		Refusal @ 5"				
		ALG 12.4.03				

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

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

Task Team Members:

Anche Leon
Ronald Bailey
Steve King

Narrative (include time and location):

1300 - Arrive @ FBQ 160. Cleared by S. King
Begin 0-1' sample FBQ55 1400/19950
1314 - Begin 1-3' sample. Cleared by S. King
Refused @ 18" FBQ50 1400/21050
1318 - Leave site

AG
12.4.03

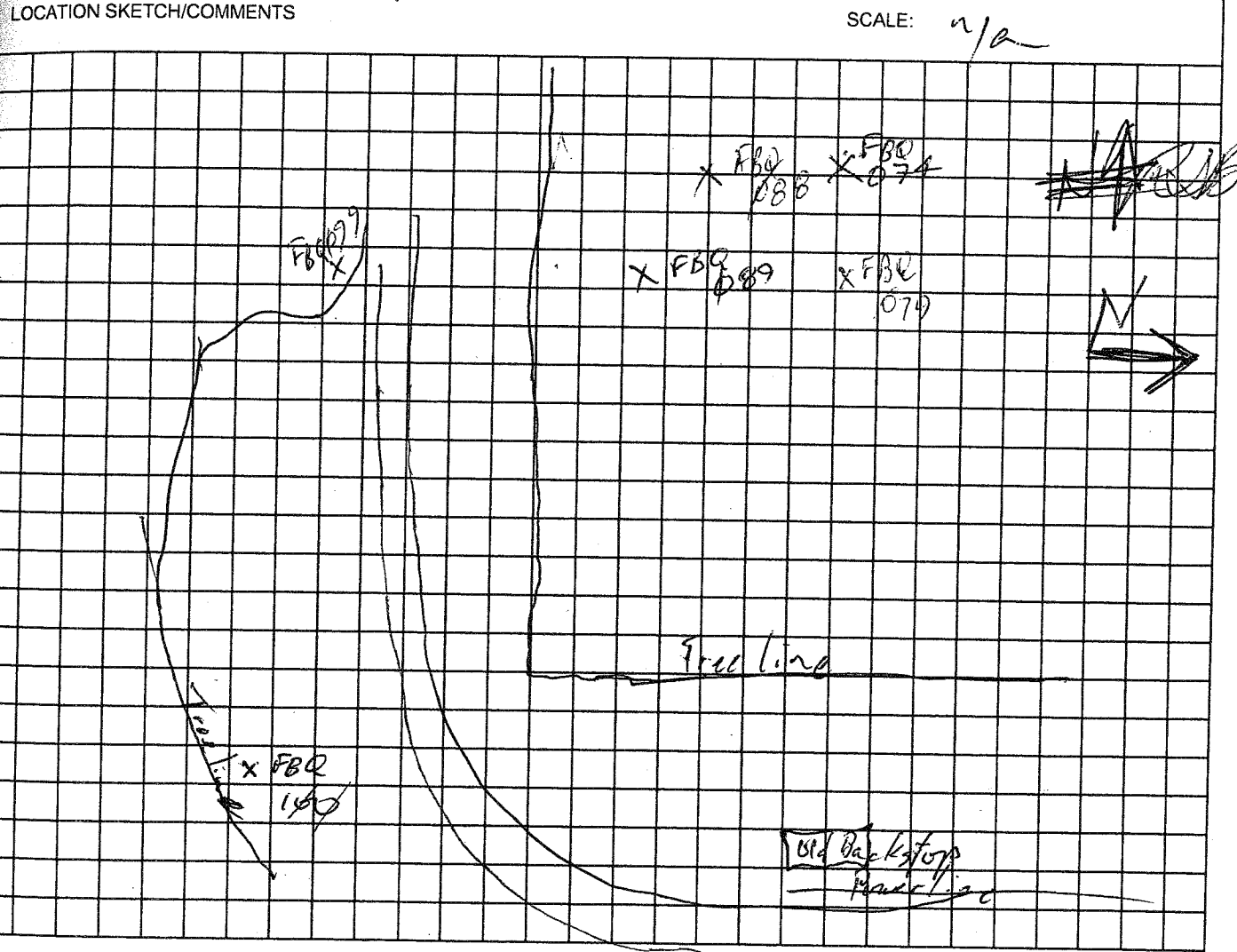
Daily Weather Conditions: A.M. _____

P.M. Overcast, sprinkle rain, mid 40s

Recorded By RKB

QA Checked By Amy Harnswall

RW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBR 140	
COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:		SHEET <u>1</u> OF <u>1</u>	
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 EQUIPMENT SS Saw SS Auger SS Tripod			8. HOLE LOCATION: FBR 140		
12. OVERBURDEN THICKNESS			9. SURFACE ELEVATION:		
13. DEPTH DRILLED INTO ROCK			10. DATE STARTED: 11-11-03		11. DATE COMPLETED: 11-11-03
14. TOTAL DEPTH OF HOLE 18"			15. DEPTH GROUNDWATER ENCOUNTERED:		
18. GEOTECHNICAL SAMPLES			19. TOTAL NUMBER OF CORE BOXES		
20. SAMPLES FOR CHEMICAL ANALYSIS Free Act 104		DISTURBED VOC	UNDISTURBED METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE <input checked="" type="checkbox"/> BACKFILLED		MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %	
			23. SIGNATURE OF INSPECTOR <i>[Signature]</i>		



HTRW DRILLING LOG

HOLE NUMBER: **FBQ 1476** 72

PROJECT: **Fuze & Booster/RVAAP**

INSPECTOR: *[Signature]*

SHEET | OF |

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	1	M brn sand and clay some s; H and gravel fine to 20610, trace slag, wet soft				6" } Exp 5" } (6" + 5" refusal) 1" } Pants grass leaves etc.
	18"	Same a/a				18" <u>Refusal</u>
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

*AS
12.4.03*

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 Sa

PAGE 1 OF 1

Task Team Members:

Randolph
Andre Lee
Steve King

Narrative (include time and location):

1328 - Arrive @ FBA 009. Cleared by S. King
Begin P-1 sample FBQSS-099-0197-50
1338 - Refusal @ 8"
1342 - Leave Site

~~AG
12.4.03~~

Daily Weather Conditions: A.M. _____

P.M. Overcast high 40s

Recorded By AKB

QA Checked By Amy Greenwald

HTRW DRILLING LOG

HOLE NUMBER: FBQ/97

76

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: *Rob B*

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)
		lt and med brown sandy clay, some silt and gravel to 4' red ss. fine to pbble. most. soft.			FBQ.S-09A 0197-20	6" 8" 8" 8" Roots, grass, leaves etc.
		<i>Refused @ 8"</i>				
		<i>ALG 12-4-03</i>				

TASK TEAM ACTIVITY LOG SHEET

PROJECT NAME: Phase VII 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:

Rond. Bailey
Andre Leon
Steve King

Narrative (include time and location):

1345 - Arrive @ FBA 089. Observed by S. King
Borehole Sample FB055-089-017, 150
1349 - Refusal @ 6", 6", 5", 5"
1357 - Leave Site

AG
12.4.03

Daily Weather Conditions: A.M. _____

P.M. Overcast, high 40s

Recorded By Rond. Bailey QA Checked By Amy Greenwald

HTRW DRILLING LOG

HOLE NUMBER: FB0100 80

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: Rob

SHEET | OF |

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		H + had brn sandy clay Some silt & gravel. tan and rd ss - fine to pebble moist, soft			FB0100-089 177.50	6" } Refusal 6" } 5" } 5" } Organic Material Red's etc
	1	<u>Refusal @ 6"</u>				
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					

FIG
12-4-03

TASK TEAM ACTIVITY LOG SHEET

81

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/16/03 Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Ronald Bailey
Aacho Low
Steve King

Narrative (include time and location):

1415 - arrive @ FBO 080. Cleared by SK. -
Begin 1-1 sample and duplicate
1425 - 1-3' Cleared by Steve King Begin 1-3'
Sample & Duplicate
1445 - Leave site

FBO 088-0175-50
FBO 088-0399-50

FBO 088-0176-50
FBO 088-0400-50

AG
12.4.03

Daily Weather Conditions: A.M. _____

P.M. Overcast, high 46

Recorded By RBZ QA Checked By Amy Freeman

HTRW DRILLING LOG

HOLE NUMBER: *F02 100*

PROJECT: *Fuze & Booster/RVAAP*

INSPECTOR: *RSB*

SHEET | OF |

84

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0	<i>lt brn sandy clay. trace salt some gravel. soft wet fine to medium</i>				<i>organic material roots + leaves + grass</i>
	13	<i>Same as above with increase of gravel. saturated</i>				
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	99					
	100					

AG 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): 11/10/03 Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Ronda Bailey

Andre Leon

Steve King

Narrative (include time and location):

1450 - Arrive @ FBR 087 Cleared by S. King. Begin 0-1' sample FBOSS 087-0173-50

1514. 1-3' cleared by S. King. Begin 1-3' sample interval FBOSS-087-0174-50

1521 - Refused @ 2'

1528 - Depart site

AK
12.4.03

Daily Weather Conditions: A.M.

P.M.

Overcast Mid 40s

Recorded By

[Signature]

QA Checked By

[Signature]

HTRW DRILLING LOG

HOLE NUMBER: HA 457

88

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 (D)	REMARKS (E)
	1	lt brn sandy clay Some silt, trace gravel fine to coarse med, soft			F8955227 0173-57	Some note & mass
	1-2	lt brn sandy silt some clay, trace gravel fine to coarse loose, Dry-damp			F89550-987 0174-50	Refusal @ 2'
	1-3					Refusal @ 2'
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
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	99					
	100					

Refusal @ 2'

[Signature]
111703

TASK TEAM ACTIVITY LOG SHEET

89

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

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

Task Team Members:

Andre Leon
Randy Bailey
Steve King

Narrative (include time and location):

1145 - Arrive @ FBQ #74. Cleared by
Steve King. Begin D-1 sample ^{FBQ50-074-0147-50}
1630 - 1-3' Cleared by S. King.
Begin sample for 1-3' ^{FBQ50-074-0148-50} (ok)
1645 - depart site

AK
12.4.03

Daily Weather Conditions: A.M. _____

P.M. Overcast High 40s

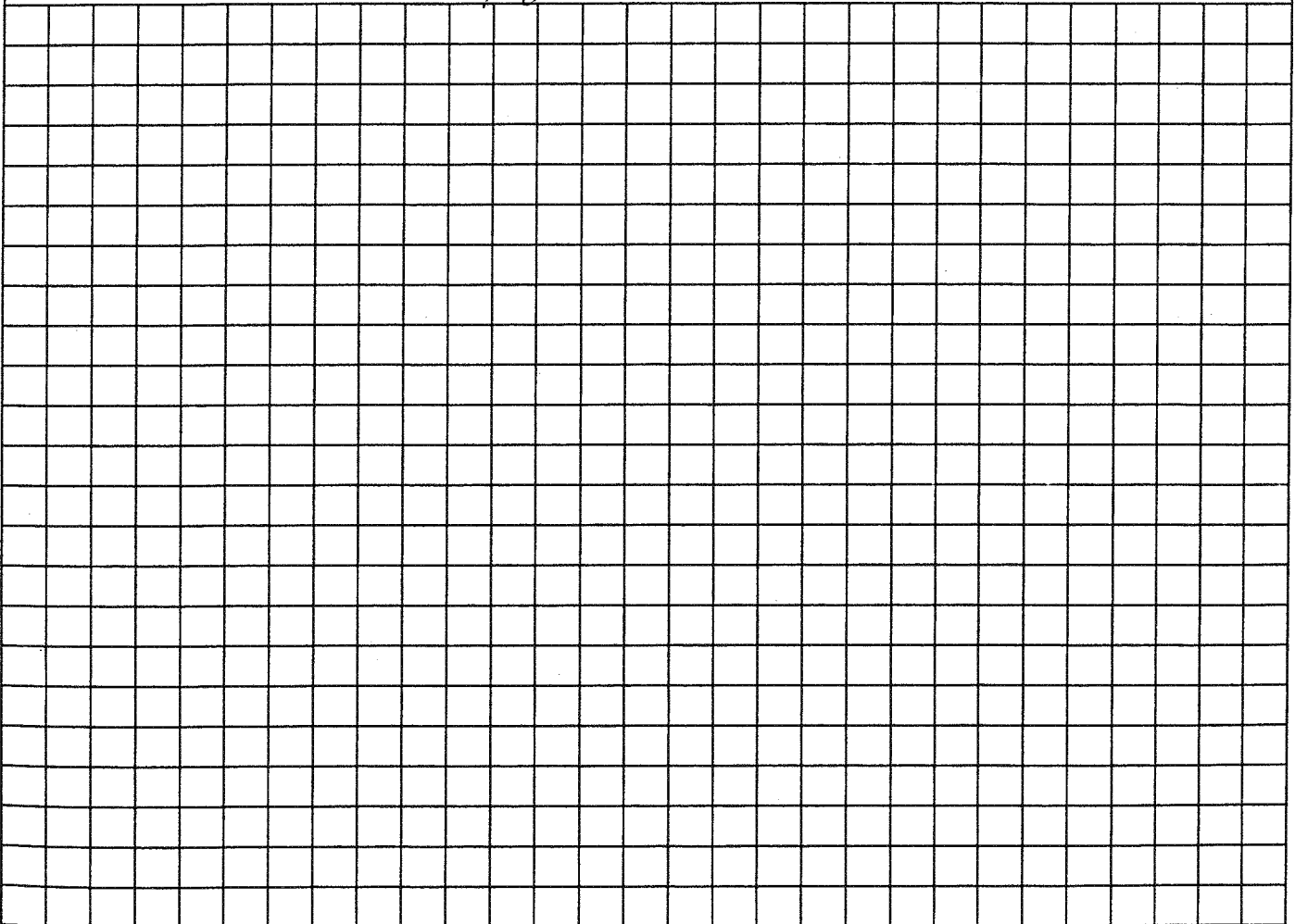
Recorded By [Signature] QA Checked By Amy Greenwald

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER FBO 474	
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>Andre Lee</i>			6. MANUFACTURERS DESIGNATION OF DRILL:			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		<i>SS Spoon</i>		8. HOLE LOCATION: FBO 474		
		<i>SS Auger</i>		9. SURFACE ELEVATION: <i>n/c</i>		
		<i>SS bit</i>		10. DATE STARTED: <i>11/10/03</i>		
				11. DATE COMPLETED: 11-11-03		
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' 3"</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		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)
<i>See Att. Log</i>						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: *F330/A*

PROJECT: Fuse & Booster/RVAAP

INSPECTOR: *[Signature]*

SHEET | OF |

ELEV. (A)	DEPTH (B)	DISRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLING (F)	REMARKS (G)
	0-1	1/2 lb brn clayey silt mottled orange & gray. Some sand trace gravel. Fine to. Pakhale damp <i>firm</i>			F8036-074 0147-50	Some organics grass, leaves, roots
	1-3	A to med brn Sandy silt. some clay trace gravel. look damp? @ 18" in color. to 1/2 lb brn ^{sandy} mottled gray & orange			F8030-074 0148-50	
		Refusal @ 2'3"				
		[Large handwritten signature/initials]				

TASK TEAM ACTIVITY LOG SHEET

93

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

Date (mm/dd/yy): 11/20/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Ronald Banks
Andro Linn
Steve King

Narrative (include time and location):

0910 - Arrive @ FBQ 079. Cleared by S. King. Begin 0'-1' sample

0955 - Full suite? split. FBQ 55-079-0157-50

0925 - Refusal @ 8", 10" & 1' per holes

0955 - ~~Begin~~ ^{S. King} Cleared 1-3'. Begin

full suite? split 1-3' FBQ 50-079-0157-50

1020 - Refusal @ 2"

1024 - Leave Site

AG
12.4.03

Daily Weather Conditions: A.M. Overcast, mid 50s

Recorded By *[Signature]* P.M. QA Checked By *Amy Greenwald*

HTRW DRILLING LOG

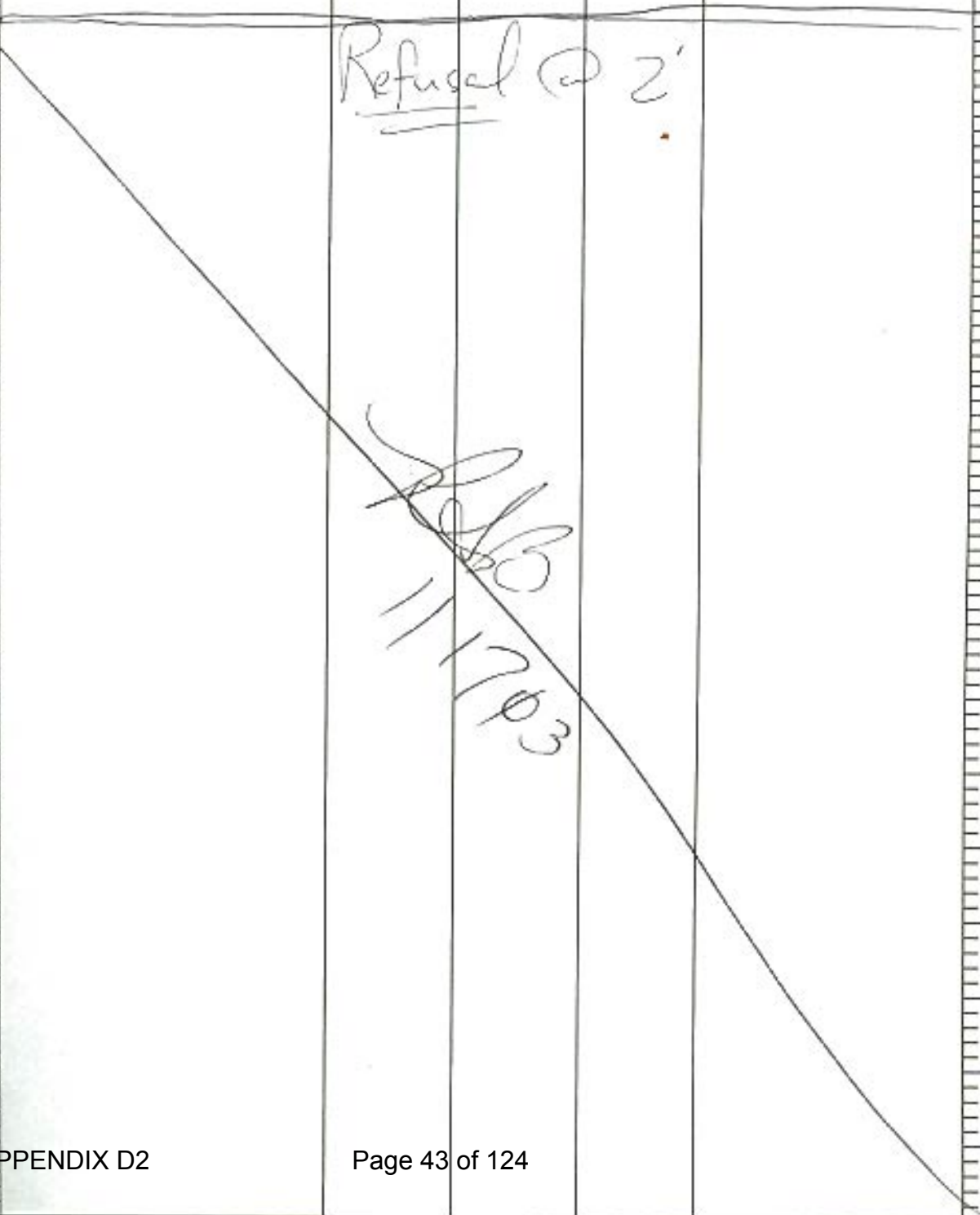
HOLE NUMBER: FBO #77

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: *[Signature]*

SHEET 1 OF 1

96

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)	
	0-1	It been sandy clay fine silt, some gravel fine pebble - wet			FBOSS-079 0157-50	Some organic material - roots, leaves Stony grass 8" Refusal 10" Refusal	
	1-3	Same as above			FBO 50-079 0158-50		
	2	<u>Refusal @ 2'</u>					
	3	 <i>[Signature]</i> 11/17/03					
	4						
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	7						
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	9						
	10						

TASK TEAM ACTIVITY LOG SHEET

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

Date (mm/dd/yy): 11/20/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Ancho Leon
Rene Bailey
Steve King

Narrative (include time and location):

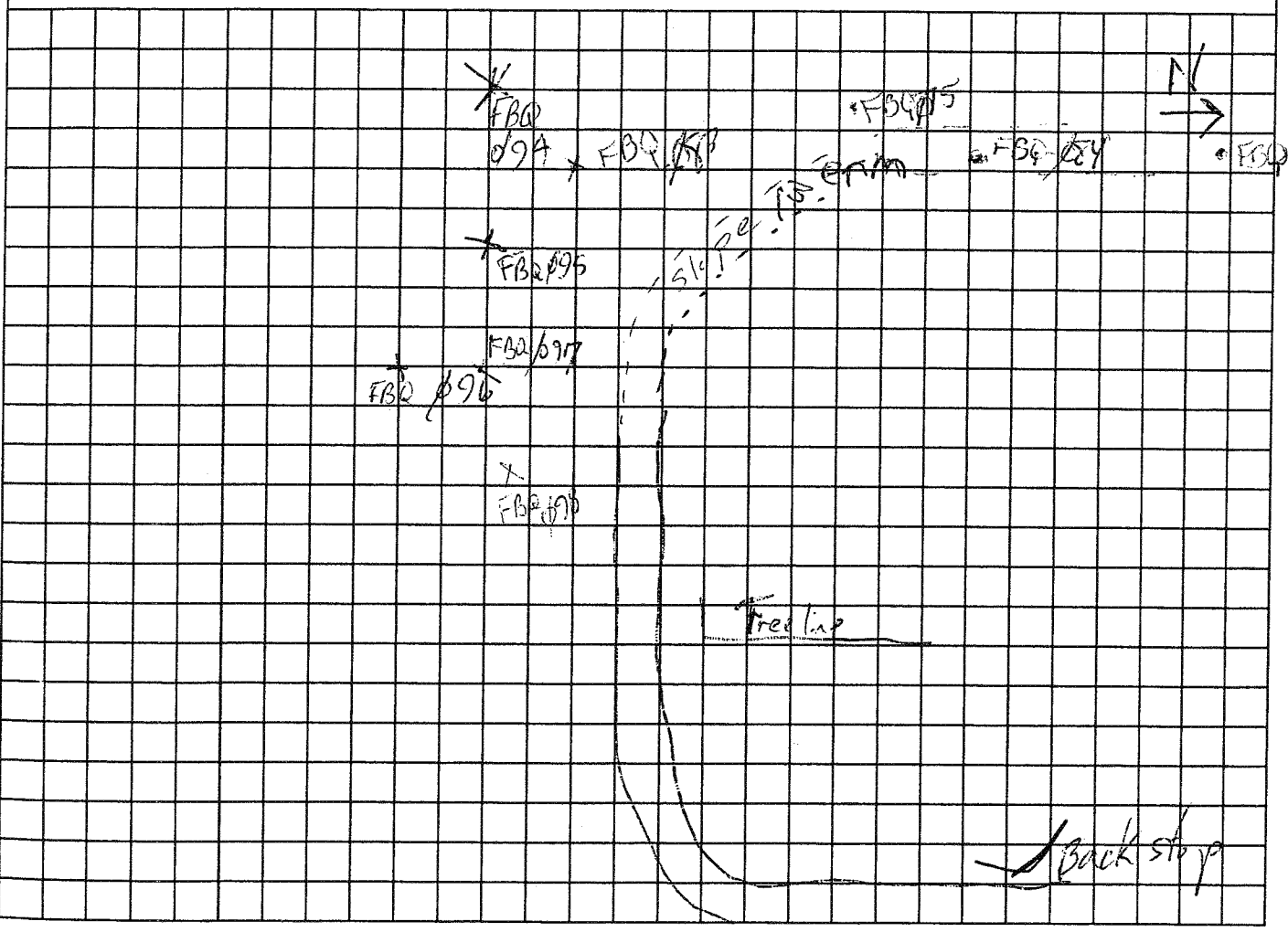
FLQSO-092-0195-50
1030 Arrive @ FBA 098. Cleared by S. King
Begin sample #1 full suite & split.
1115. S. King cleared 1'-3' Begin FBQSO-092-0196-50
1'-3' Sample and split
1138 - Leave Site

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

P.M.
Recorded By Rene Bailey QA Checked By Amy Hearnwald

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBQ 098	
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>Anche Loan</i>			6. MANUFACTURERS DESIGNATION OF DRILL:		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>55 down 55 auger 55 bore</i>		8. HOLE LOCATION: <i>FBQ 098</i>		9. SURFACE ELEVATION:	
12. OVERBURDEN THICKNESS		10. DATE STARTED: <i>11-12-03</i>		11. DATE COMPLETED: <i>11-12-03</i>	
13. DEPTH DRILLED INTO ROCK		15. DEPTH GROUNDWATER ENCOUNTERED:			
14. TOTAL DEPTH OF HOLE <i>2'6"</i>		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED:			
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):		18. GEOTECHNICAL SAMPLES			
		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY %	
		VOC		METALS	
		OTHER (SPECIFY)		OTHER (SPECIFY)	
		OTHER (SPECIFY)		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE <i>See act log</i>		BACKFILLED		MONITORING WELL	
		OTHER (SPECIFY)		23. SIGNATURE OF INSPECTOR <i>[Signature]</i>	

LOCATION SKETCH/COMMENTS SCALE: *n/a*



HTRW DRILLING LOG

WELL NUMBER: F90 #96

100

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 SAMPLING (F)	REMARKS (G)
	0-1	lt and med brown clayey silt, some sand, trace gravel fine to med. damp, loose			F8922-097 0195-50	Organic material roots, leaves, stems,
	1-3	Same as above w. th increase of sand and ss gravel. damp. loose			F8920-098 0196-50	
	3	<i>Refusal @ 2'6"</i>				
	3	<i>[Signature]</i>				
	3	<i>11/2/03</i>				

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:

Ronnie Bailey

Andre Leon

Steve King

Narrative (include time and location):

1330 - Arrive @ FBQ #90. Cleared by S. King. Begin ϕ -1 FBQS-1090-0191-50 sample & split.

1340 - 1-3' cleared by S. King. Begin 1-3' interval FBQ30-090-0192-50

1350 - Refusal @ 2'6"

1355 - Depart site

AG
12.4.03

Daily Weather Conditions: A.M. _____

P.M. Mostly cloudy, low clouds

Recorded By Ref B

QA Checked By Amy Greenwald

HTRW DRILLING LOG

HOLE NUMBER: FB0796

104

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: [Signature]

SHEET | OF |

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLING (D)	REMARKS (E)
	0-1	lt + med brn silt, some clay and sand. Trace of gravel fine sand?			FB055-096 0191-50	Organic material roots stems leaves
	1-3	lt brn silt. some clay trace sand. Trace gravel. fine to med. stiff. This is below 18". 1'-16" is same as 0-1 description			FB060-096 0191-50	
	3	Refusal @ 2'6"				
	4	[Signature]				
	5	11 12 03				
	6	[Signature]				
	7	[Signature]				
	8	[Signature]				
	9	[Signature]				
	10	[Signature]				

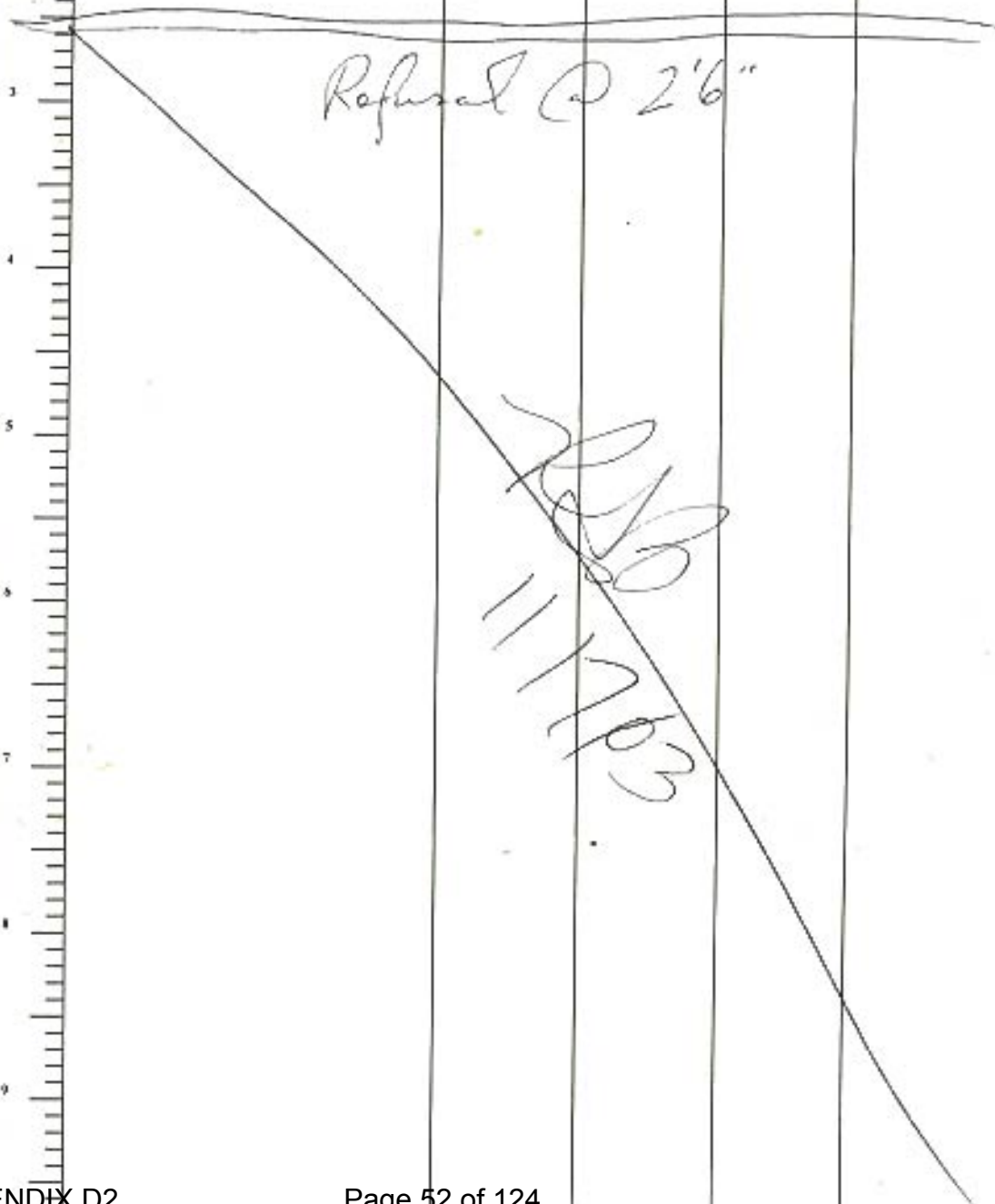
HTRW DRILLING LOG

HOLE NUMBER: *FB0619*

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: *[Signature]*

SHEET | OF |

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0-1	lt and med brn silt some clay and sand trace gravel fine to med. coarse to firm. Increasing density w/depth			FB055-097 C193-50	Organic material roots stems, leaves
	1-3	Sand a/a Δ @ 18" to 1 ft brn clayey sand, some silt & sand gravel fine to pebble			FB050-097 C194-50	
	3	Refusal @ 2'6"				
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	9					
	10					

[Handwritten signature]
11/17/03

HTRW DRILLING LOG

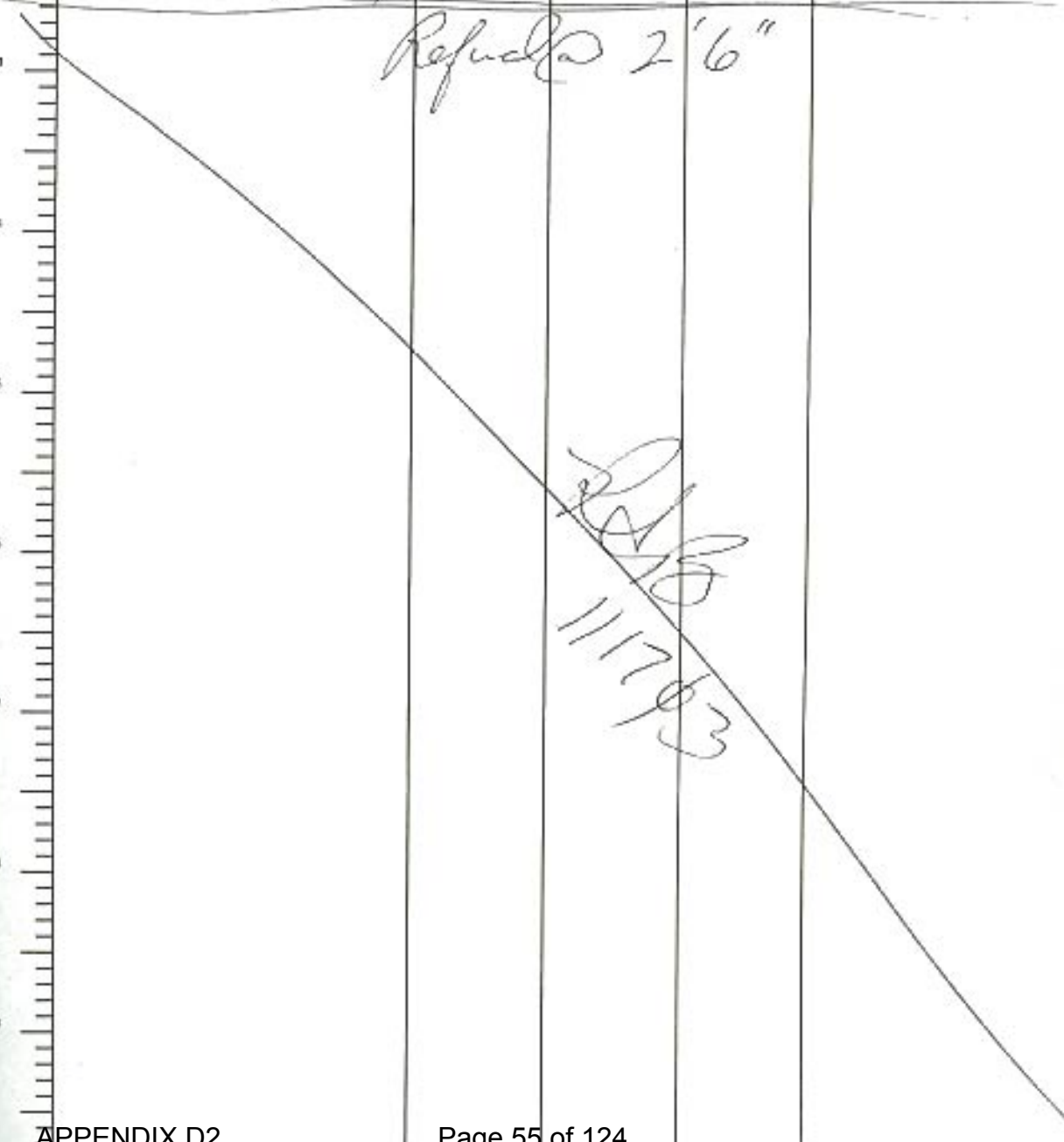
HOLE NUMBER: FKO 095

112

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: [Signature]

SHEET | OF |

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0-1	Med brown Clayey silt, silt. Some sand, trace gravel A @ 1' to 12" brn silt firm, some sand, trace clay			FK000-095 0179-50	Organic material roots, stems, leaves
	1-3	Same a/a to 18" A to 12" brn mottled gray & orange sandy silt. Some clay trace gravel fine to coarse. stiff			FK000-095 0190-50	
	3	Refused 2'6"				
	4					
	5					
	6					
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	8					
	9					
	10					

[Signature]
111703

TASK TEAM ACTIVITY LOG SHEET

113

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/24/03 Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Andre Leon
Ronald Bailey
Steve King

Narrative (include time and location):

1525 - Arrive @ FBQ 994. Observed by
S. King. Begin ϕ -1 sample
and duplicate for Explos and TAC Metals

FBQ95-014-0187
FBQ95-014-0401

1545 - 1-3' observed by S. King. Begin
1-3' sample and duplicate (Explos/TAC Metals)

FBQ95-014-0
FBQ95-014-040

1600 - Refusal @ 2'6"

1605 Leave site

AG
12-4-03

Daily Weather Conditions: A.M. _____

P.M. _____

Recorded By _____

QA Checked By _____

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 Sa

PAGE 1 OF 1

Task Team Members:

Chandler Canell

Andrew

Steve King

Narrative (include time and location):

0938 Arrive at sample location FBQ-083

0944 Basin (after cleared by Steve) sampling

Full suite at the 0-1 interval

for FBQ-083-0165-50 (Exp/ Tail Metals/ Sw/ Rock/ H₂O/
P/B/Pe/Propell)

1005 Basin sampling the 1-3 interval (Full suite)

for FBQ-083-0116-50 (after Steve cleared)

1020 Finish sample, go to next location

~~11/13/03~~

Daily Weather Conditions: A.M. Snowy, breezy

Recorded By Chandler Canell

P.M.

QA Checked By Jack O'Neil

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER: FR30083	
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: <i>Andre Leon</i>			6. MANUFACTURERS DESIGNATION OF DRILL: n/a		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>3 5/2" auger</i>		8. HOLE LOCATION: FR30083			
		9. SURFACE ELEVATION: n/a			
		10. DATE STARTED: 1/13/03		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	
20. SAMPLES FOR CHEMICAL ANALYSIS: <i>see next pg</i>		VOC		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE: n/a		BACKFILLED <input checked="" type="checkbox"/>		23. SIGNATURE OF INSPECTOR: <i>[Signature]</i>	
		MONITORING WELL		OTHER (SPECIFY)	
				21. TOTAL CORE RECOVERY %	

LOCATION SKETCH/COMMENTS

SCALE:

See Page 99
 for location of
 sample in the soil
 logbook #15

HTRW DRILLING LOG

HOLE NUMBER: **FB0183**
 SHEET 1 OF 1

120

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: *(C) anal*

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0-1	top organics, med brown with roots, silty sand clay-silt	not functioning	n/A	FB0183-0145-20 (null)	roots present throughout
	1	light clay sand clay silt - 14 known by roots tent.				
	1-3	grad into red, more clay type mix, ground mollusks			FB0183-0160-50	
	3		de	11-B-183		
	4					
	5					
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	9					
	10					

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 Canale

Steve King

Andre Leon

Narrative (include time and location):

~~1157~~ Steve clears trail site FBQ-075

1158 Began sampling FBQ-075-049-50
for explosives and TAC Metals and
take a duplicate FBQ-075-049-50
at the 0-1 interval

1111 Began the 1-3 interval for explosives and
TAC metals on FBQ-075-050-50 of the Steve clear
Refused due to rock at JH.

1120 Finish sample and go to next location

~~1117
11/17/03~~

Daily Weather Conditions: A.M. Dravy, breezy

P.M.

Recorded By

Chandler Canale

QA Checked By

Andre Leon

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FD-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 King			6. MANUFACTURERS DESIGNATION OF DRILL: n/a		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 55 power/spdm 55 3/4" duiker bucket		8. HOLE LOCATION: FBO 075			
		9. SURFACE ELEVATION: n/a			
		10. DATE STARTED: 1-3-03		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 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 302 act. log		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
21. TOTAL CORE RECOVERY %					
22. DISPOSITION OF HOLE n/a		BACKFILLED <input checked="" type="checkbox"/>	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR C. Canale

LOCATION SKETCH/COMMENTS

SCALE:

See page 99
 in the soil logbook
 for location

HTRW DRILLING LOG

HOLE NUMBER: *FB075*

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: *A Canal*

SHEET *1* of *1*

124

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	LITHIC SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0-1	top silty, med brown clay - silty, trace sand some gravel grading into clay silty, H. brown fine red sandstone, nodding grading into larger cobbles stems	pio not functioning	N/A	FB075-015 0149-50 + dup	roots, stems
	1-3	grading into lighter brown tan gravel cobbles and sandstone	gravel		FB075-015 0150-00	
	2	Refusal at 211				
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

TASK TEAM ACTIVITY LOG SHEET

125

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:

Steve King
Charles Kayal
Anche Leon

Narrative (include time and location):

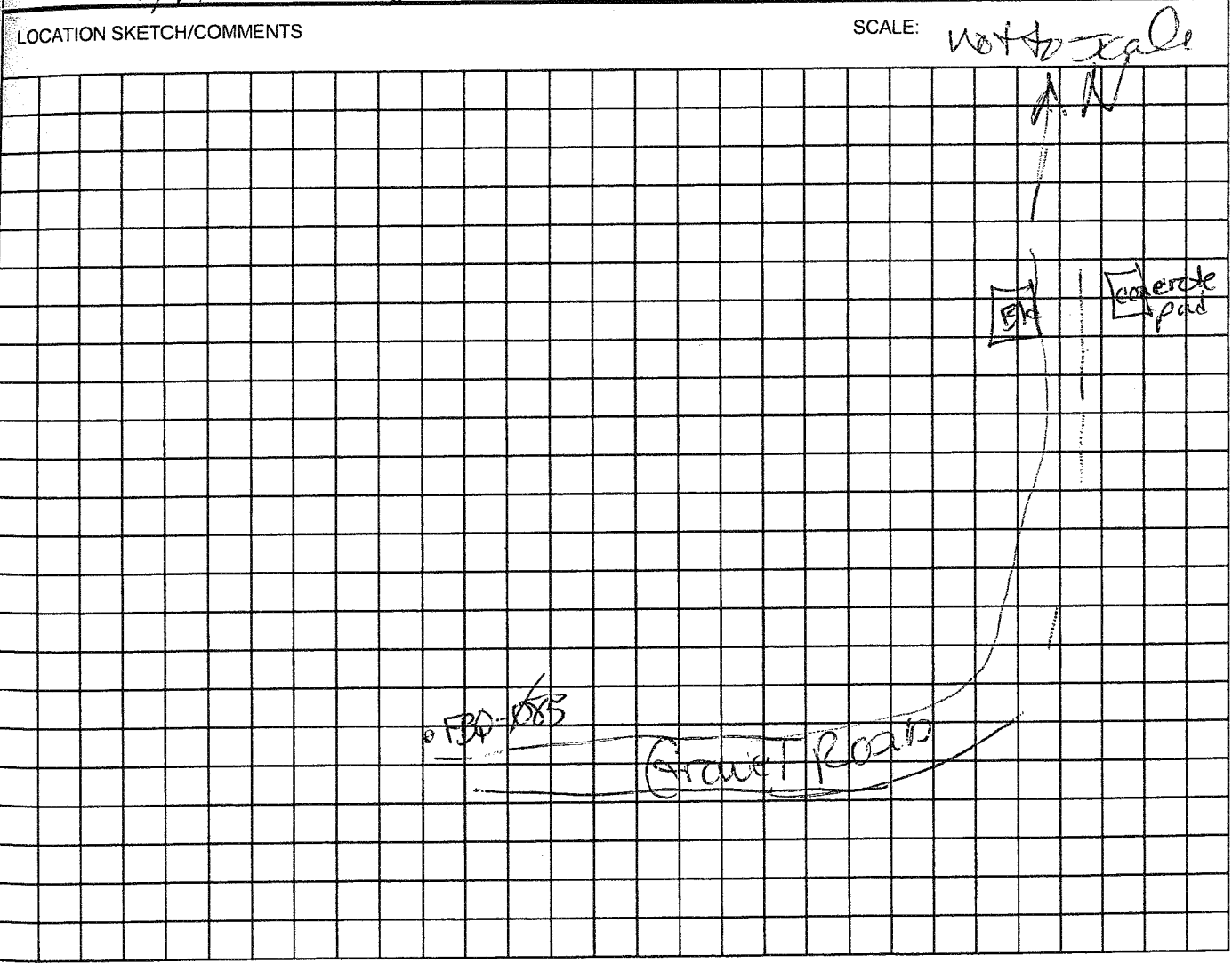
11:25 Go to FBQ-085 (Stewo clean prior)
11:25 Began to sample FBQs-085-0169-30
for explosives / TAL Metals
11:48 Stewo cleans 1-3 and began to sample the
1-3 interval for Explos / TAL Metals for
Sample FBQs-085-0170-30-
12:00 Finish sample, go back to building

~~REVIS
11/17/03~~

Daily Weather Conditions: A.M. Snowy, breezy

Recorded By Charles Kayal P.M. QA Checked By Kadetsky

TRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBP-1085	
COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR: n/a		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: n/a		
SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 35 diam spin 35 3/2 auger bucket			8. HOLE LOCATION: FBP-1085		
			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 3ft			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 see act 105		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE n/a		BACKFILLED <input checked="" type="checkbox"/>	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR <i>Carroll</i>
21. TOTAL CORE RECOVERY %					



HTRW DRILLING LOG

HOLE NUMBER: F30-085

128

PROJECT: Fuze & Booster/RVAAI

INSPECTOR: Canal

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	deformed brown organic, grading into med bitum clay. Stiff, some sand, clay grading into a lighter brown w/ reddish mottling and gray in top clay, silty and gravelly med plastic clay.	not working	n/a	F30-085-0169-50	roots, gens throughout
	1-3	grading into a clay with med plastic, moist, heavy mottling of gray and reddish brown & occasional gravel particles.	"	"	F30-085-0174-50	
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

3'

~~111703~~

TASK TEAM ACTIVITY LOG SHEET

129

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:

Steve King
Charlie Conn
Charlene Conn

Narrative (include time and location):

1358 Arrive at location FBQ-084

1400 Begin to sample FBQs-084-01107-50 for a full suite (exp/propyl/PCB/Pest/SvOC/VOC and TAC Metals, Cr⁶⁺ and take a duplicate (FBQs-084-0404-50) after Steve cleared phen arrived

1425 Stop due to refusal of rock at the 1 foot interval. Unable to get the 1-3 sample

1427 Go to next location

~~11/13/03~~

Daily Weather Conditions: A.M. _____

P.M. hazy, light snowfall, 33-35°

Recorded By

Charlene Conn

QA Checked By

Steve King

TRW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER

FBQ-084

COMPANY NAME: SpecPro, Inc.

2. DRILL SUBCONTRACTOR:

n/A

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: n/A

SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

35 mm span
55 3/4" bucket

8. HOLE LOCATION: FBQ 084

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: 119

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)	21. TOTAL CORE RECOVERY %
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
n/A	<input checked="" type="checkbox"/>			[Signature]		

LOCATION SKETCH/COMMENTS

SCALE:

go to page 97 in
the soil logbook #2
for the location

HTRW DRILLING LOG

HOLE NUMBER: H30-024

132

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: C Canalt

SHEET 1 OF 11

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GROUT SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0-1	1m x 1m brown clay with pebbles and sandstone pieces, some sand, most going into larger cracks. Refusal at 1" due to rock in center hole and all explosive holes (Refusal)	non-functional PID	N/A	56255-84-12015, 56255-84-120730 + cup	12015, 56255-84-120730 - Refusal in all holes at the 1" depth
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

111703

DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
FB30-076

COMPANY NAME: SpecPro, Inc.

2. DRILL SUBCONTRACTOR:
n/a

SHEET 1 OF 1

3. TYPE OF DRILL: Fuze & Booster/RVAAP

4. LOCATION: Fuze & Booster Quarry Landfill/Pond

5. NAME OF DRILLER: Steve King

6. MANUFACTURERS DESIGNATION OF DRILL: n/a

7. TYPES OF DRILLING EQUIPMENT: 3 3/4" through bucket

8. HOLE LOCATION: FB30-076

9. SURFACE ELEVATION: n/a

10. DATE STARTED: 11-13-03

11. DATE COMPLETED: 11-13-03

12. SOIL BURDEN 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 ft

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

18. GEOTECHNICAL SAMPLES

DISTURBED

UNDISTURBED

19. TOTAL NUMBER OF CORE BOXES: n/a

18.1. SAMPLES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE RECOVERY %

18.2. POSITION OF HOLE: n/a

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR: [Signature]

LOCATION SKETCH/COMMENTS

SCALE:

See page 97 in the soil log for the location

HTRW DRILLING LOG

HOLE NUMBER: *FB-476*

136

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: *Cand*

SHEET 1 OF 7

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLING (F)	REMARKS (G)
	0-1	<i>top 2 inches, med brown clay with small amount of pebbles approx 2-3% at 6" color grading into h. brown w/ matting last 1/2 inch</i>	<i>not functioning w/a</i>		<i>FB-476 #151-30</i>	<i>rocks 1 - 2 mm refused in all 3 explor tubes at 11-12</i>
	1-2	<i>Refused in center hole @ 1 ft</i>				
	2-3	<i>Refused</i>				
	3-4	<i>Refused</i>				
	4-5	<i>Refused</i>				
	5-6	<i>Refused</i>				
	6-7	<i>Refused</i>				
	7-8	<i>Refused</i>				
	8-9	<i>Refused</i>				
	9-10	<i>Refused</i>				

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 Sa

PAGE 1 OF 1

Task Team Members:

Steve King
Gandy.com
Charles Canal

Narrative (include time and location):

15:08 Arrive at FBQ-070 (Steve clean prior)
15:11 Begin to sample FBQ-070-139-30
for explosives/TAL Metals at 4" & 1" intervals
Refusal in explosive holes at 6", 8" and 8", moved
center hole over a bit to see if better, it appears it ^{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 back refusal, therefore unable to sample past
15:39 Finish sample and go to next location ^{intervals}

~~11/17/03~~

Daily Weather Conditions: A.M. _____

P.M. _____

Breezy, snow off on 30-35's

Recorded By

Charles Canal

QA Checked By

Steve King

HTRW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER

FBO-070

139

COMPANY NAME: SpecPro, Inc.

2. DRILL SUBCONTRACTOR: n/a

SHEET 1 OF 1

PROJECT: Fuze & Booster/RVAAP

4. LOCATION: Fuze & Booster Quarry Landfill/Pond

NAME OF DRILLER: Andrew Leon

6. MANUFACTURERS DESIGNATION OF DRILL: n/a

SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

33 DAWL-0200
33 3/2" auger bucket

8. HOLE LOCATION: FBO 070

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: 1 ft

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)

21. TOTAL CORE RECOVERY %

22. DISPOSITION OF HOLE

n/a

BACKFILLED

MONITORING WELL

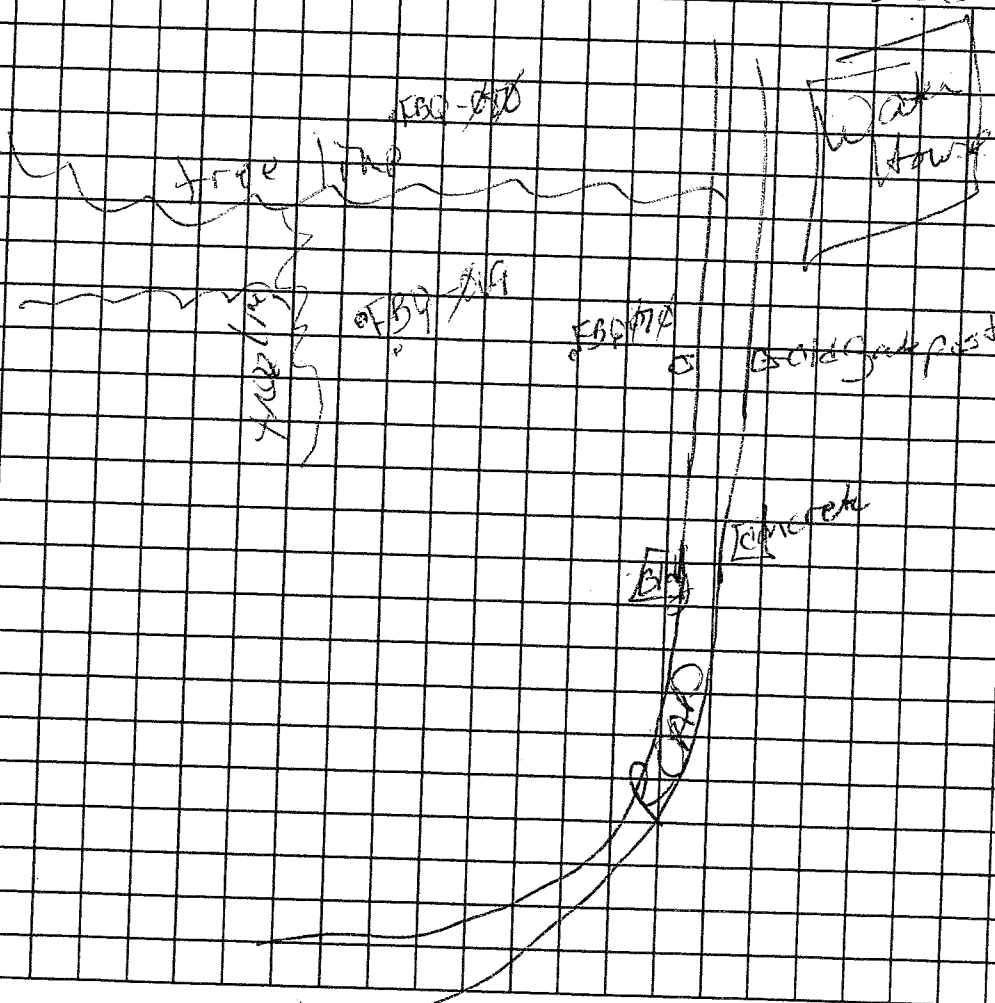
OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

Carroll

LOCATION SKETCH/COMMENTS

SCALE: Not to scale



HTRW DRILLING LOG

HOLE NUMBER: FB0-100 140
SHEET 1 OF 1

PROJECT: Fuze & Booster/VVAAP

INSPECTOR:

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	DETECTH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0	dk brown silty-clay sand med brown silty-clay sand 2-4% moisture, gravel pieces fracturing into left log and PID	not fracturing n/p		FB055-010 -0139-00	roots/stems Repaired out exposure hole - 8" 8" 6"
	1	<u>Regrind @ 1" in center hole</u>				
	2	[Diagonal line from 1' depth to 10' depth]				
	3	[Diagonal line from 1' depth to 10' depth]				
	4	[Diagonal line from 1' depth to 10' depth]				
	5	[Diagonal line from 1' depth to 10' depth]				
	6	[Diagonal line from 1' depth to 10' depth]				
	7	[Diagonal line from 1' depth to 10' depth]				
	8	[Diagonal line from 1' depth to 10' depth]				
	9	[Diagonal line from 1' depth to 10' depth]				
	10	[Diagonal line from 1' depth to 10' depth]				

[Handwritten signature]
11/1/03

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 Sa

PAGE 1 OF 1

Task Team Members:

Charles Canell
Carole Lam

Narrative (include time and location):

15:45 Arrive at FBQ-069 (Steve cleared prior)

15:46 Begin to sample FBQ55-069 (437-50)

for explosives and trace metals

Hit refusal in all explosive and in center hole

due to sandstone rocks (possible (Sharon sandstone))

16:00 Finish up sample since unable to do the 1-3 interval

RLS
11/17/03

Daily Weather Conditions: A.M. _____

P.M. Snow on/overcast 30-35°

Recorded By Charles Canell

QA Checked By Linda Kelly

RAW DRILLING LOG

DISTRICT: **Louisville**

HOLE NUMBER

F30-069

143

COMPANY NAME: **SpecPro, Inc.**

2. DRILL SUBCONTRACTOR:

n/a

SHEET 1 OF 1

PROJECT: **Fuze & Booster/RVAAP**

4. LOCATION: **Fuze & Booster Quarry Landfill/Pond**

NAME OF DRILLER: **Cynthia Lam**

6. MANUFACTURERS DESIGNATION OF DRILL: **n/a**

ROTTING AND TYPES OF DRILLING SAMPLING EQUIPMENT
**55 hand pump
55 3/2" auger bucket**

8. HOLE LOCATION: **F30-069**

9. SURFACE ELEVATION: **n/a**

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

11. DATE COMPLETED: **11-13-03**

OVERBURDEN THICKNESS **n/a**

15. DEPTH GROUNDWATER ENCOUNTERED: **n/a**

DEPTH DRILLED INTO ROCK **n/a**

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

TOTAL DEPTH OF HOLE
10" finished cc

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

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

[Signature]

LOCATION SKETCH/COMMENTS

SCALE:

See page 139 in the SWD log book #2 for location

HTRW DRILLING LOG

HOLE NUMBER: F80-1A

144

PROJECT: Fuse & Booster/RVAAP

INSPECTOR: C. Cant

SHEET / OF 1 / 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CURE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0	top organics lined brown clay - silt and sand, covered to 200 yds. irregularly, moist, cold up 8" from bottom of postures in rock strata	Not functioning h/A		F80-1A-157-50	roots, stems 2xpts. hole refusal at 4" 8"
	1					Center hole refusal @ 6"
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

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 Sa

PAGE 1 OF 1

Task Team Members:

Andee Loom
Chantelle Amell
Steve King

Narrative (include time and location):

16:11 Arrive at FBP 0870 (Steve cleared pit)
16:15 Begin to sample FBP 0870-0159-50
for Explosives & Trace Metals
Refusal in explosives holes at 4" in all 3 holes
Refusal in center hole at 1 ft
Unable to take the 1-3 ft interval due to rock
16:28 Leave site and return to building

~~11/13/03~~

Daily Weather Conditions: A.M. _____

P.M. Shaw 22-24/on, breeze 30/35

Recorded By Chantelle Amell

QA Checked By Robert Guly

DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER

FBI/180

COMPANY NAME: SpecPro, Inc.

2. DRILL SUBCONTRACTOR:

n/A

SHEET 1 OF 1

3. TYPE OF DRILL: Fuze & Booster/RVAAP

4. LOCATION: Fuze & Booster Quarry Landfill/Pond

5. DRILLER:

Andrew Leon

6. MANUFACTURERS DESIGNATION OF DRILL: n/A

7. TYPES OF DRILLING EQUIPMENT

SS barrel / SPDM
SS 3/8" auger bucket

8. HOLE LOCATION: FBI-080

9. SURFACE ELEVATION: n/A

10. DATE STARTED: 11/13/03

11. DATE COMPLETED: 11/13/03

12. BURDEN 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 ft

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

18. TECHNICAL SAMPLES

DISTURBED

UNDISTURBED

19. TOTAL NUMBER OF CORE BOXES

20. TYPES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE RECOVERY %

22. POSITION OF HOLE

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

C. Arnold

24. LOCATION SKETCH/COMMENTS

SCALE:

See page 139
for location with
soil logbook #2

HTRW DRILLING LOG

HOLE NUMBER: FB0-158

148

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: Can D

SHEET | OF |

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOCHEM SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	1	top 2" of sand is mud below soft clay fine sand, grading into a bright brown orange gravel to lenses and shales (red iron color) <u>20-100mm</u>	non- fluorescing PID	n/a	FB0-158- 0159-30	roots, stems Explosion hole <u>1" per hole</u> Center hole <u>refused</u>
	2	<u>200-300mm</u> <u>700-900mm</u> dug up in center hole, <u>200mm</u>	Refused @	ft		more holes over
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

11-13-03

TASK TEAM ACTIVITY LOG SHEET

149

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:

Huske Leon

Rand. Bradley

Steve King

Narrative (include time and location):

0840 Arrive @ F&B DBL Cleared by 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. Mostly bry, low 3s.

P.M. T.T

Recorded By

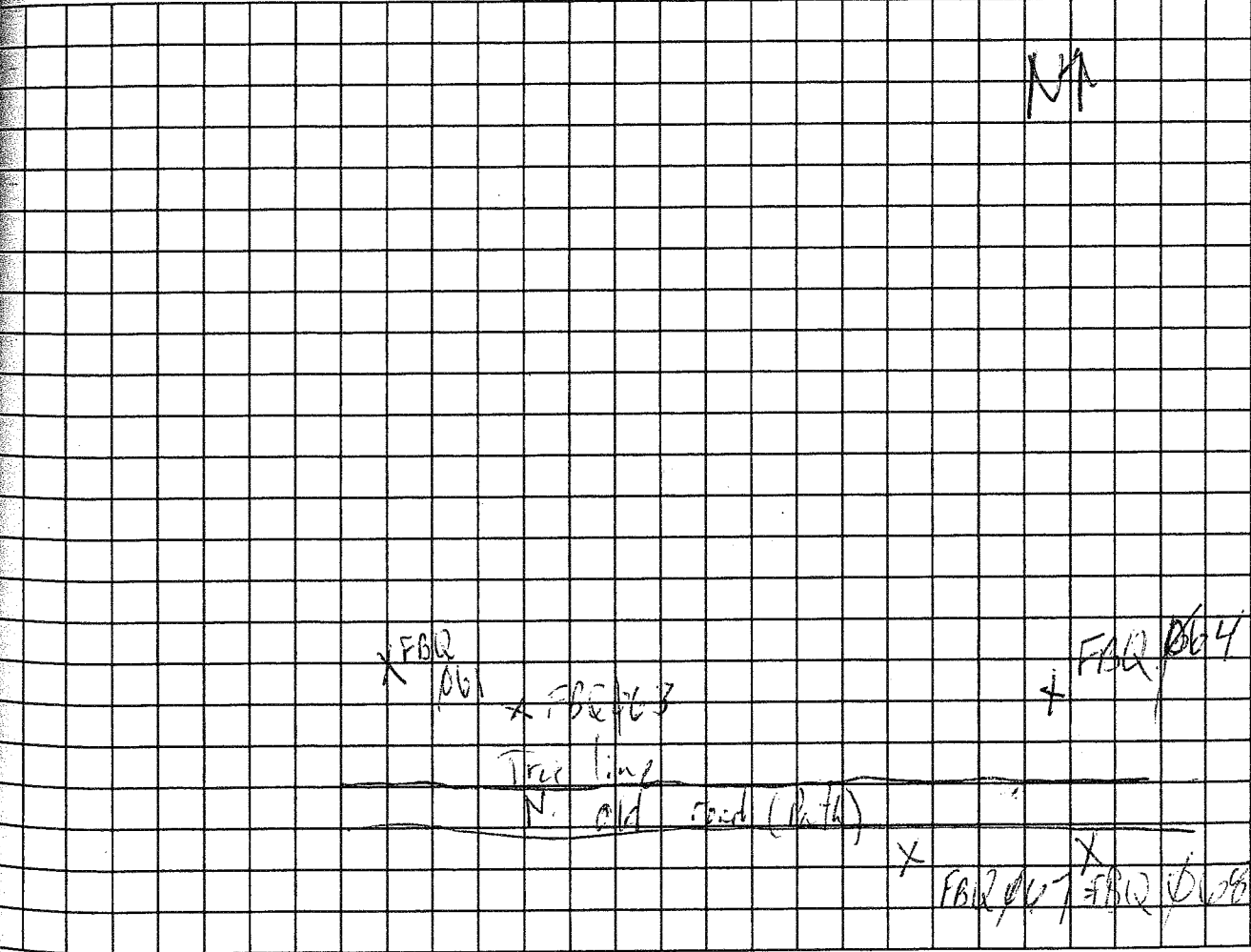
[Signature]

QA Checked By

[Signature]

W DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER: <i>F06 061</i>	
COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:			SHEET <u>1</u> OF <u>1</u>	
PROJECT: Fuze & Booster/RVAAP				4. LOCATION: Fuze & Booster Quarry Landfill/Pond		
NAME OF DRILLER: <i>Steve King</i>				6. MANUFACTURERS DESIGNATION OF DRILL:		
EQUIPMENT AND TYPES OF DRILLING AND PUMPING EQUIPMENT: <i>SS Hydro SS Power SS Spun</i>				8. HOLE LOCATION: <i>F06 061</i>		
				9. SURFACE ELEVATION: <i>11/2</i>		
				10. DATE STARTED: <i>11-14-03</i>		11. DATE COMPLETED: 11-14-03
PERBURDEN THICKNESS: <i>1/2</i>				15. DEPTH GROUNDWATER ENCOUNTERED: <i>1/2</i>		
DEPTH DRILLED INTO ROCK: <i>1/2</i>				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <i>1/2</i>		
TOTAL DEPTH OF HOLE: <i>31</i>				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <i>1/2</i>		
PROTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES
SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)
<i>act 1/2</i>						21. TOTAL CORE RECOVERY %
POSITION OF HOLE: <i>1/2</i>		BACKFILLED <input checked="" type="checkbox"/>	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR: <i>[Signature]</i>	

LOCATION SKETCH/COMMENTS SCALE: *no scale*



TASK TEAM ACTIVITY LOG SHEET

153

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 Sa

PAGE 1 OF 1

Task Team Members:

Anche Lee

Ronda Bailey

Steve King

Narrative (include time and location):

0910 Arrive @ FBQ #63. Cleared by S. King
Begin 0-1 samples

0925 1-3' interval cleared by S. King
Begin 1-3' samples

0942 Leave Site

FBQ SS-063-0125-50

FBQ SS-063-0126-50

~~AG
12.4.03~~

Daily Weather Conditions: A.M. Partly cloudy, low 30s

P.M.

Recorded By [Signature]

QA Checked By Amy Henshaw

HTRW DRILLING LOG

HOLE NUMBER: F34063

156

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)
	0-6"	Med brn clayey silt fine sand and gravel - fine to coarse 6-12 lb brn clayey silt fine sand and gravel, firm damp fine to coarse			F3055-063 0125-50 ab	My name what soil photo, stems loc. v. 0.5, glass
	6-12"	lt. brn. clayey silt mottled orange & gray fine sand & gravel fine to coarse fine			F3050-063 0126-50 ab	
	12-18"					
	18-24"					
	24-30"					
	30-36"					
	36-42"					
	42-48"					
	48-54"					
	54-60"					
	60-66"					
	66-72"					
	72-78"					
	78-84"					
	84-90"					
	90-96"					
	96-102"					
	102-108"					
	108-114"					
	114-120"					
	120-126"					
	126-132"					
	132-138"					
	138-144"					
	144-150"					
	150-156"					
	156-162"					
	162-168"					
	168-174"					
	174-180"					
	180-186"					
	186-192"					
	192-198"					
	198-204"					
	204-210"					
	210-216"					
	216-222"					
	222-228"					
	228-234"					
	234-240"					
	240-246"					
	246-252"					
	252-258"					
	258-264"					
	264-270"					
	270-276"					
	276-282"					
	282-288"					
	288-294"					
	294-300"					

3

[Signature]

111403

TASK TEAM ACTIVITY LOG SHEET

157

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

DELIVERY ORDER: 0012

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

PAGE 1 OF 1

Task Team Members:

Randy Boly

Andre Leon

Steve King

Narrative (include time and location):

0945 - Arrived @ FBQ Plot. Cleared by S. King. Began ϕ -1 sample. FBQ 55-061-0133-50 (lab)

0955. 11-3' interval cleared by S. King. 1000 ϕ . Refusal @ 18". FBQ 50-067-0134-50 (lab)

1605 leave site

AG
12.4.03

Daily Weather Conditions: A.M. Partly Cloudy low 35°

P.M. 11°

Recorded By [Signature]

QA Checked By Amy Greenwood

HTRW DRILLING LOG

HOSE NUMBER: F132 of 160
SHEET OF 1

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: [Signature]

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (D)	REMARKS (E)
	0-1	lt. tan sandy silt some clay mottled orange and gray loose-fine, moist fractured			F0420-067 01 05-20	organic material root, stem, leaves grass
	1-3	Same as above			F0420-067 01 04-20	
	2	Refused @ 18"				
	3	<div style="font-size: 2em; font-family: cursive;"> [Signature] 11/4/03 </div>				
	4					
	5					
	6					
	7					
	8					
	9					
	10					

TASK TEAM ACTIVITY LOG SHEET

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:

Rand Beckey
Andre Lohm
Steve King

Narrative (include time and location):

1010 - Arrive at FBO 0608. Observed by

S. King. Begin sample interval 0-1'

1020 - 1-3' interval clear by S. King

Begin 1-3' sample

1025 - Refusal @ 2ft

1031 - Depart site

FBOSS-068-0135-SO (20)

FBOSS 068-0136-SO

AK
12-4-03

Daily Weather Conditions: A.M. Mostly cloudy low 30s

P.M.

Recorded By [Signature]

QA Checked By Amy Greenwald

HTRW DRILLING LOG

HOLE NUMBER *F134008*

164

PROJECT: Fuze & Booster R/VAAP

INSPECTOR *[Signature]*

SHEET OF

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<i>0-1</i>	<i>Met on soil, soft Some clay and gravel - 1/2" pebbles fine to pebbles loose tan?</i>			<i>F0030-D62 0135-50</i>	<i>Organic material roots, grass, leaves, stems</i>
	<i>1-3</i>	<i>Gravel at above</i>			<i>F0030-D62 0136-50</i>	
	<i>2</i>	<i>Refused @ 20'</i>				
	<i>3</i>	<div style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;"> <i>SP 11/14/03</i> </div>				
	<i>4</i>					
	<i>5</i>					
	<i>6</i>					
	<i>7</i>					
	<i>8</i>					
	<i>9</i>					
	<i>10</i>					
	<i>11</i>					
	<i>12</i>					

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 Sa

PAGE 1 OF 1

Task Team Members:

Randy Baker

Andre Lee

Steve King

Narrative (include time and location):

1035 - Arrive @ FBR 004. Cleared by S. King. Begin D-1 Sample

FBR 004-028-50

1045 1-3 cleared by S. King. Begin 1-3 Sample

1050 Refusal @ 2'6" FBR 004-028-50

1055 leave site to return haul equipment out

AG
12.14.03

Daily Weather Conditions: A.M. Mostly cloudy, low 30s

P.M.

Recorded By [Signature]

QA Checked By Amy Greenward

HTRW DRILLING LOG

HOLE NUMBER: *FBW 164* 168

PROJECT: Fuze & Booster/RVAAP

INSPECTOR

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR COKE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0-1	<i>lt. tan med brn sandy silt, some clay. trace gravel is loose, fine to med, clear?</i>			<i>FB055-064 0127-20</i>	<i>Magnum - Mittelman Kort's Kants Stans</i>
	1-3	<i>same @, gravel fine to, rubble S/S.</i>			<i>FB050-064 0128-50</i>	
	3	<i>Refused @ 2'6"</i>				
	5	<i>11/4-03</i>				

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 Sa

PAGE 1 OF 1

Task Team Members:

Ronda Bailey
Andre Legon
Steve King

Narrative (include time and location):

0845 - Arrive at F02 No2. Cleared by S. King. Begin 0-1 sample and duplicate.

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

72413

0915 - Leave site

~~11/17/03~~

~~12.4.03~~

Daily Weather Conditions: A.M. Overcast, low 50

P.M.

Recorded By

[Signature]

QA Checked By

[Signature]

RW DRILLING LOG

DISTRICT: **Louisville**

HOLE NUMBER
FBO 067

171

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:

AND TYPES OF DRILLING
EQUIPMENT
**SS spoon
SS barrel
SS auger**

8. HOLE LOCATION: **FBO 067**

9. SURFACE ELEVATION: **n/c**

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

11. DATE COMPLETED: **11-17-03**

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 **3'**

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

PROTECHNICAL 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)

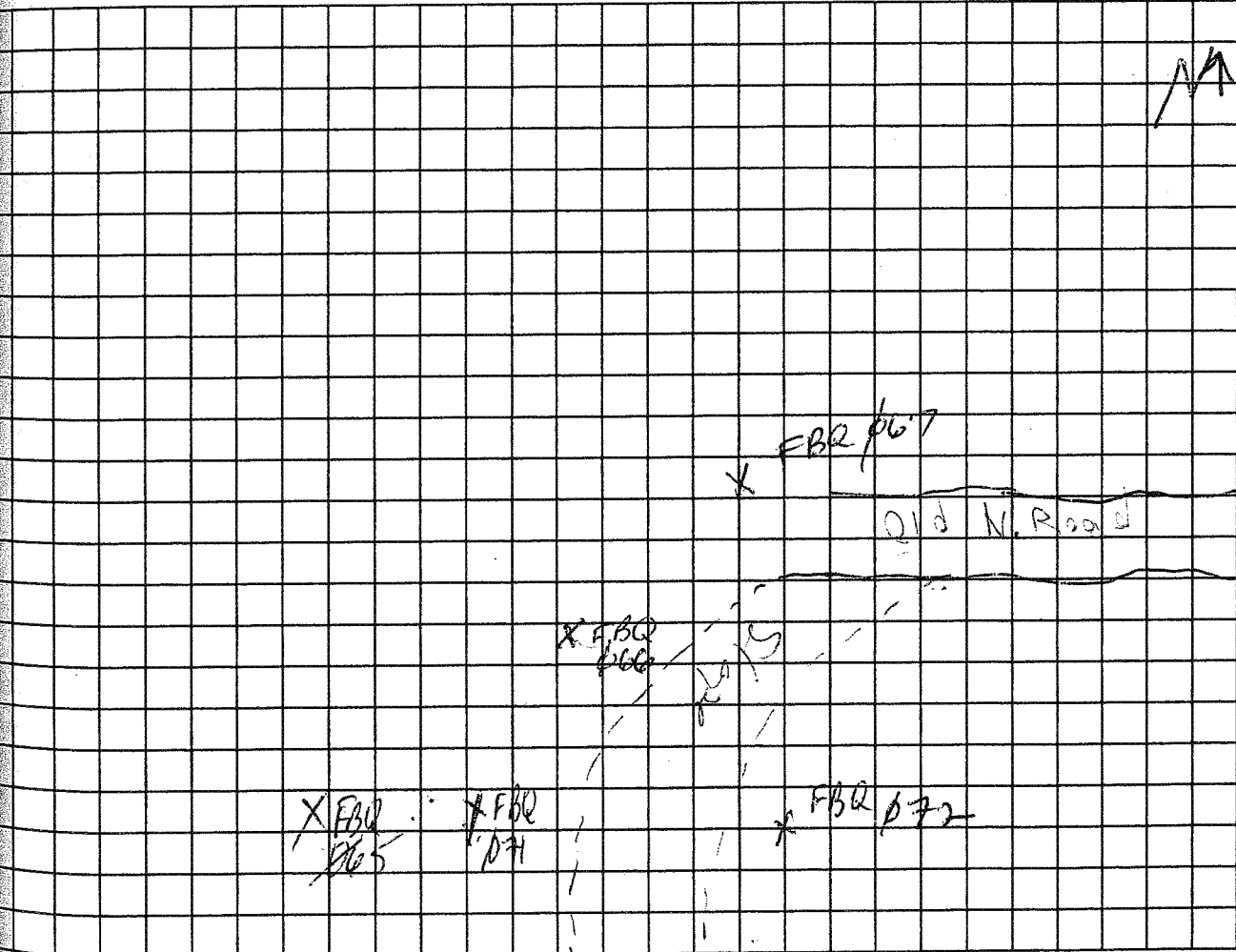
23. SIGNATURE OF INSPECTOR

LOCATION SKETCH/COMMENTS

see also pg 97

SCALE: **n/c**

MM



HTRW DRILLING LOG

HOLE NUMBER: FBO #67

172

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: [Signature]

SHEET | OF |

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0-1	0-8" Med Brn. Silty Clay soft, moist trace sand & gravel fine to coarse. Below 8" to 14" brn silt, some clay, trace sand and gravel. Firm, moist				Organic roots, stems, grass, leaves
	1-3	14" brn silt, some clay and sand, trace gravel fine to coarse. Mottled gray to orange.				
	3	At 2.5' to 14" brn sandy silt some clay, mottled orange & gray, trace gravel				
	4					
	5					
	6					
	7					
	8					
	9					
	10					

~~[Signature]~~
11-17-93

TASK TEAM ACTIVITY LOG SHEET

173

PROJECT NAME: Phase VIII 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:

Ronda Barley

Andre Lee

Steve King

Narrative (include time and location):

0920 - Arrive @ FBR 066. Cleared by
S. King. Begin 0-1 sample FBR 55-066-0131-20

0940 - 1:30 interval cleared by S. King.
Begin 1-3 sample FBR 50-066-0132-50

0945 - Refused @ 2'6"

0948 - Leave site

AG
12.4.03

Daily Weather Conditions: A.M. Overcast low 50s

P.M. _____

Recorded By KRB

QA Checked By Amy Hoemswald

TRW DRILLING LOG

DISTRICT: **Louisville**

HOLE NUMBER

FBR 466

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:

Stevenson

6. MANUFACTURERS DESIGNATION OF DRILL:

SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

*SS auger
SS spoon
SS bowl*

8. HOLE LOCATION:

FBR 466

SURFACE ELEVATION:

n/c

10. DATE STARTED:

11-17-03

11. DATE COMPLETED:

11-17-03

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

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 log

22. DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

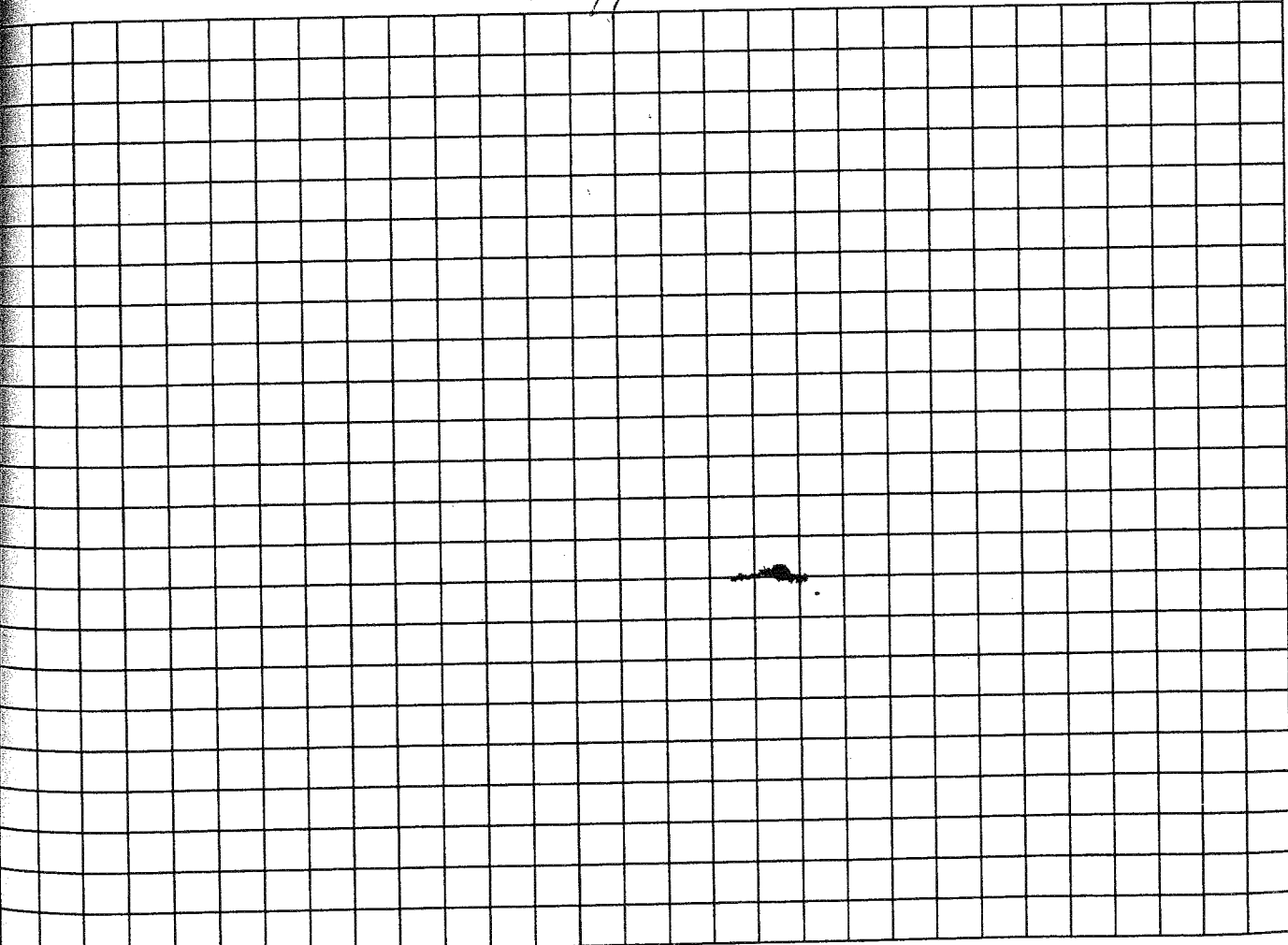
[Signature]

LOCATION SKETCH/COMMENTS

See pg 99 sub 171

SCALE:

n/c



HTRW DRILLING LOG

HOLE NUMBER: F3R0202

176

PROJECT: Fuze & Booster/RVAAP

INSPECTOR

RJB

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	Mod brn silt, clay trace sand & gravel fine to coarse, soft. At @ 6" to 11" brown silt some sand & gravel. Mod firm.			F0055-066 0131-50 Ⓢ	Organic material roots, stems, leaves grass
	1-3	lt brn silt some sand and clay, mottled gray & orange fine gravel, fine to coarse firm moist to damp. Soil increases with depth.			F0050-066 0132-50 Ⓢ	
		<u>Refracted 2'6"</u>				
		<i>RJB</i> 11/17/03				

TASK TEAM ACTIVITY LOG SHEET

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

Date (mm/dd/yy): 11/7/03 Su (M) Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Ronald Bailey
Andre Leach
Steve King

Narrative (include time and location):

10955. Uraine @ FBA #72. Cleared by
Steve King FBQSS-072-0143-SO

10116 - Refused @ 1'

1020 Leave Site

At
12.4.03

Daily Weather Conditions: A.M. Overcast, W. d 50%

P.M.
Recorded By [Signature] QA Checked By Amy Harnawald

HTRW DRILLING LOG

HOLE NUMBER: *FBC 472*

PROJECT: *Fuze & Booster/RVAAP*

INSPECTOR: *RCS/R*

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

180

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	<i>0-1</i>	<i>Med brn silty sand; gravel loose, fine to xbbble moist. trace clay. Red SS. & sand</i>			<i>F2055-022 0143-50</i>	<i>Organic material foots, stems, leaves grass.</i>
	<i>1</i>	<i>Refused @ 1'</i>				
	<i>2</i>	<div style="font-size: 2em; font-family: cursive;"> </div>				
	<i>3</i>					
	<i>4</i>					
	<i>5</i>					
	<i>6</i>					
	<i>7</i>					
	<i>8</i>					
	<i>9</i>					
	<i>10</i>					

TASK TEAM ACTIVITY LOG SHEET

181

PROJECT NAME: Phase VII 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:

Renee Bailey
Andre Leon
Steve King

Narrative (include time and location):

1025 - Arrive @ FBO of 71. Cleared by
S. King. Begin P-1 Sample FBQ55-071-0141-50 (20)
1040 - P-3 interval cleared by
S. King
1043 - Refusal @ 18" FBQ55-071-0142-50 (20)
1045 - Leave site

~~AG
12.14.05~~

Daily Weather Conditions: A.M. Mostly cloudy w/d 50%

P.M. _____
Recorded By Steve King QA Checked By Amy Greenwald

HTRW DRILLING LOG

HOLE NUMBER: FB0071

184

PROJECT: Fuzo & Booster/RVAAP

INSPECTOR: *RBH*

SHEET OF

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0-1'	11 tan silt sand sand & gravel. Trace clay, firm, mottled orange. Fine to pebble. Damp increase sand w/ depth.			FB00-01 0141-20	Organic Material leaves, stems grass, roots
	1-3'	Same as above Red sand & ss pebbles.			FB00-01 0142-20	
		Refusal @ 18"				
		<i>RBH</i>				
		11/17/03				

TASK TEAM ACTIVITY LOG SHEET

185

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

Date (mm/dd/yy): 11/7/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Randy Bailey
Andre Leon
Steve King

Narrative (include time and location):

1047 arrive @ FBO #65. (Cleared by
S. King. Begin 0-1 sample
1052 - Refusal @ 10" in and perimeter
hole
1055 - 1-3' ~~area~~ interval cleared by
S. King. Begin 1-3 sample
1100 - Refusal @ 2'
1105 - Leave site & haul
equipment to Road

AG
12.4.03

Daily Weather Conditions: A.M.

Overcast wind 50%

Recorded By

AG

P.M.

QA Checked By

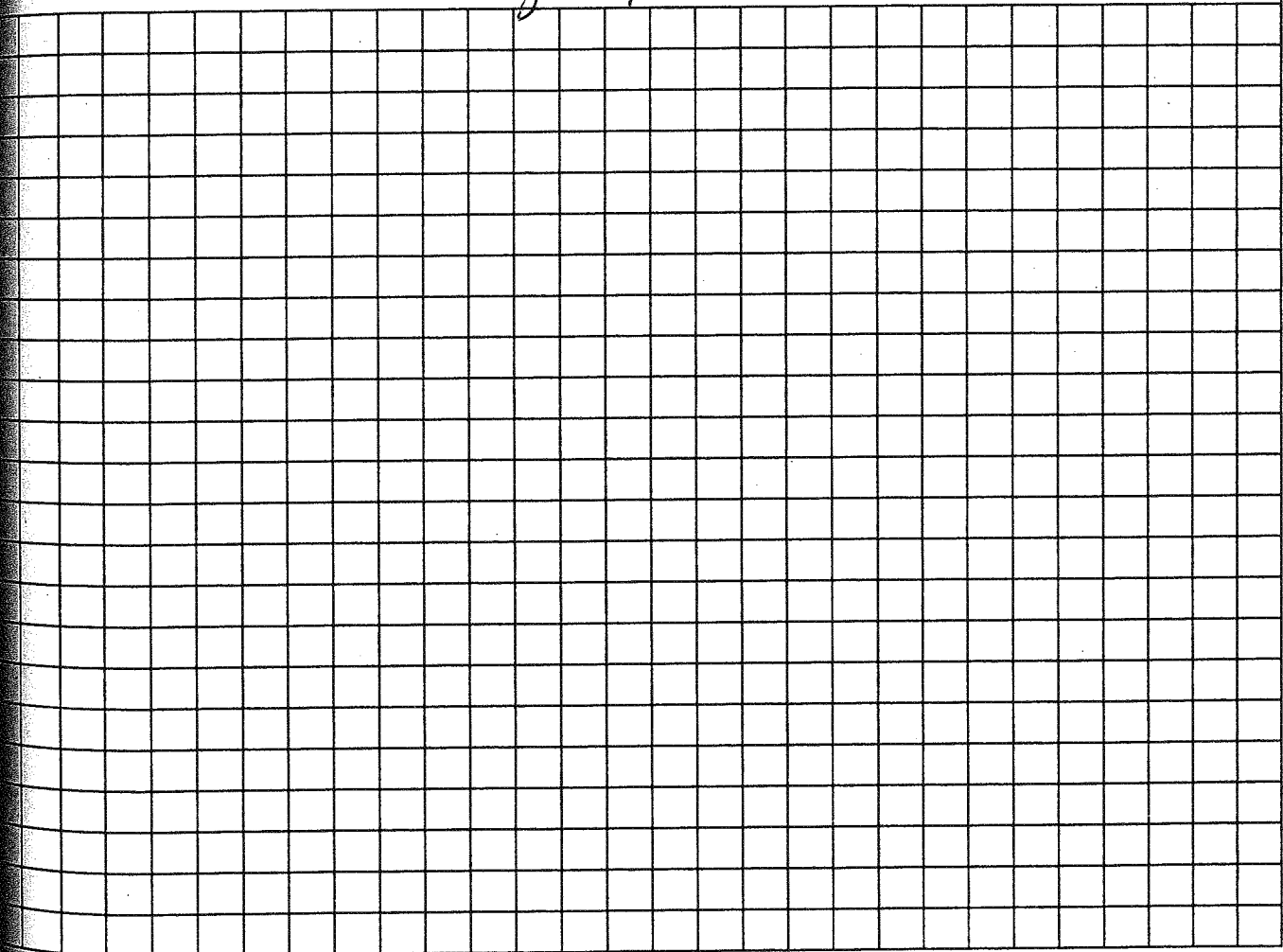
Amy Stewart

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER FBA 065	
COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR:			SHEET <u>1</u> OF <u>1</u>	
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 EQUIPMENT SS Spudger SS Mount SS Auger			8. HOLE LOCATION: FBA 065			
			9. SURFACE ELEVATION: n/c			
			10. DATE STARTED: 11/17/03		11. DATE COMPLETED: 11-17-03	
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 2'			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)
see act log						21. TOTAL CORE RECOVERY %
DISPOSITION OF HOLE		BACKFILLED <input checked="" type="checkbox"/>	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR [Signature]	

LOCATION SKETCH/COMMENTS

See pg 171

SCALE:



HTRW DRILLING LOG

HOLE NUMBER: FBQ065

188

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)
	0-1	Red brown sandy silt Some clay and gravel. Fine to coarse. Fine moist			FBQ55-065 0129-50 (40)	Refusal @ 11" in E Resiniter hole Organic material root, stems, leaves, grass.
	1-3	Same as above Increase in sand & gravel, tan & red SS. fine pebbles			FBQ50-065 0130-50 (40)	
	2	Refusal @ 2'				
	3	<div style="font-size: 2em; font-weight: bold; transform: rotate(-45deg);"> Refusal 11/17/03 </div>				
	4					
	5					
	6					
	7					
	8					
	9					
	10					

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/7/03 Su (M) Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Randy Bailey _____
Andres Lora _____
Steve King _____

Narrative (include time and location):

1300 - Arrive @ FBQ 086. Cleared
by S. King. Begin 01 sample for
1310 - 1'-3' cleared by S King. Begin
sample of full suite and duplicate
1320 - Refusal @ 2' FBQ 086-0172-50,
1334 - Leave site FBQ 086-0406-50

01/10/03/TA
m
FBQ 086-0172-50AS
12.4.03

Daily Weather Conditions: A.M. _____

P.M. _____

Recorded By _____

QA Checked By _____

HTRW DRILLING LOG

DISTRICT: **Louisville**

HOLE NUMBER

FBQ 086

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

*35 spoon
35 hand
35 auger*

8. HOLE LOCATION: *FBQ #6*

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)

21. TOTAL CORE RECOVERY %

22. DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

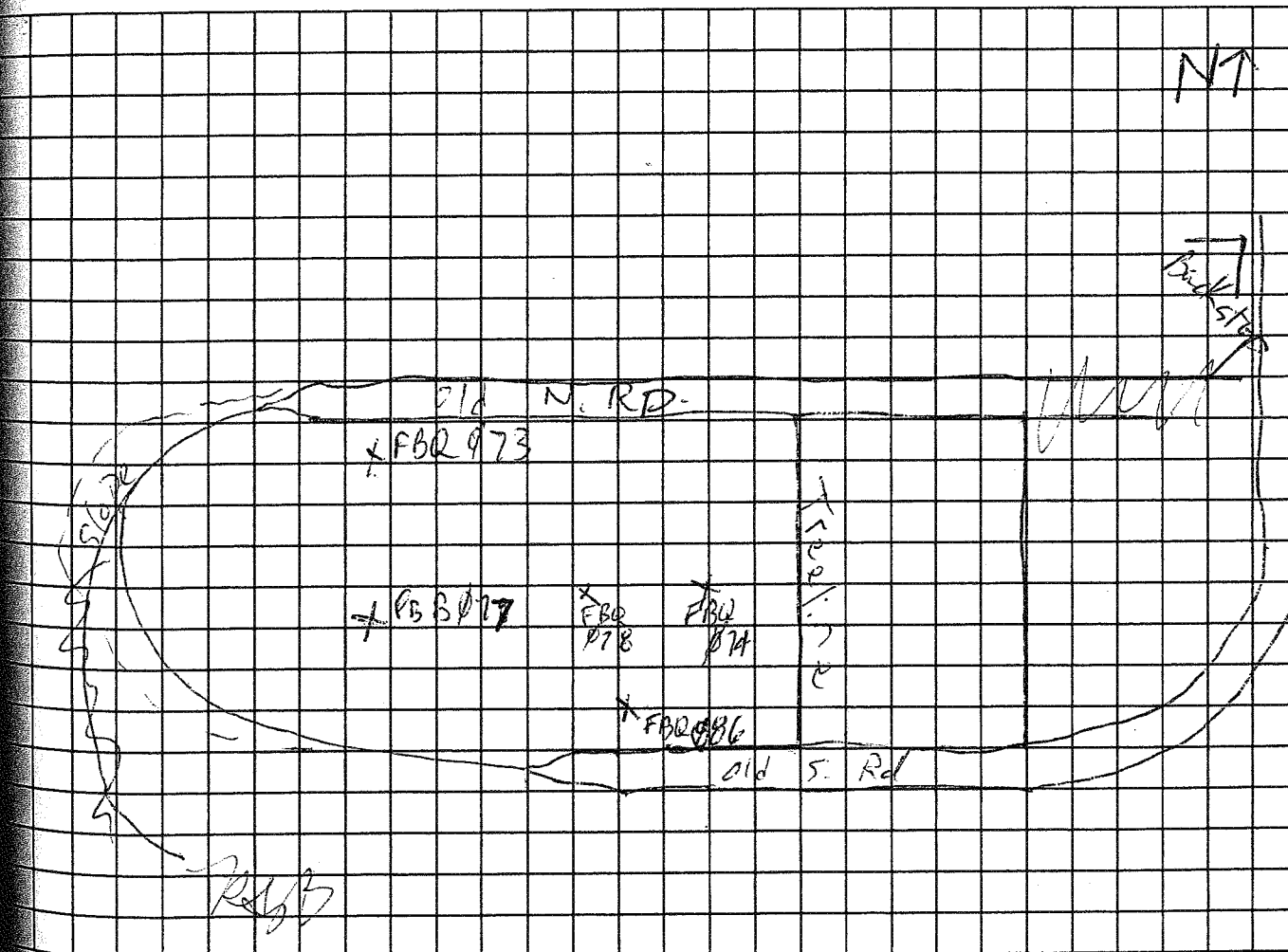
OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

[Signature]

LOCATION SKETCH/COMMENTS

SCALE: *no scale*



HTRW DRILLING LOG

HOLE NUMBER: **162 PEG**

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)
	0-1	16 in Sandy silt Orange & grey mottling Trace clay and gravel Fine to coarse. loose lumpy.			FOSS-000 0172-00	Organic material leaves, grass, stems, roots
	1-3	Same as above			FOSS-006 0173-00	
	2	Refusal @ 2'				
	3	<i>[Large diagonal scribble]</i>				
	4	<i>[Large diagonal scribble]</i>				
	5	<i>[Large diagonal scribble]</i>				
	6	<i>[Large diagonal scribble]</i>				
	7	<i>[Large diagonal scribble]</i>				
	8	<i>[Large diagonal scribble]</i>				
	9	<i>[Large diagonal scribble]</i>				
	10	<i>[Large diagonal scribble]</i>				

TASK TEAM ACTIVITY LOG SHEET

193

PROJECT NAME: Phase I/II 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:

Hydra Leon
Randy Briley
Steve King

Narrative (include time and location):

1354 - Arrive @ FBQ #78. Cleared by S. King.
Begin 1-3' sample FBQSS 078-0155-50

1357 - 1-3' interval cleared by S. King.
Begin 1-3' sample & split

1358 - Retrial @ 1" - No 1-3' sample
or split.

1403 - leave site

ALG
12-4-03

Daily Weather Conditions: A.M.

P.M.

Overcast, mid 50s

Recorded By

RHB

QA Checked By

Amy Greenwood

HTRW DRILLING LOG

HOLE NUMBER: *F00478*

PROJECT: Fuze & Booster/RVAAP

INSPECTOR *RLS*

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	Med brn silty sand, some clay, moist, some gravel and to coarse. tubse			<i>F00478 0.50-5'</i>	<i>organic material roots, stems, grass leaves</i>
	1	<i>Refusal @ 1'</i>				
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

*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:

Randy Bailey _____
Andre Leon _____
Steve King _____

Narrative (include time and location):

1405 - Arrive @ FBO #77. Cleared
by S. King Region 1-1 Sample ^{FOCUS-076-0153-20}
1435 - 1-3 intervals cleared by
S. King, Region 1-3 Sample ^{FOCUS-076-0154-50}
1443 - Leave site

AG
12.4.05

Daily Weather Conditions: A.M. _____

P.M. Overcast low 50s

Recorded By RLB

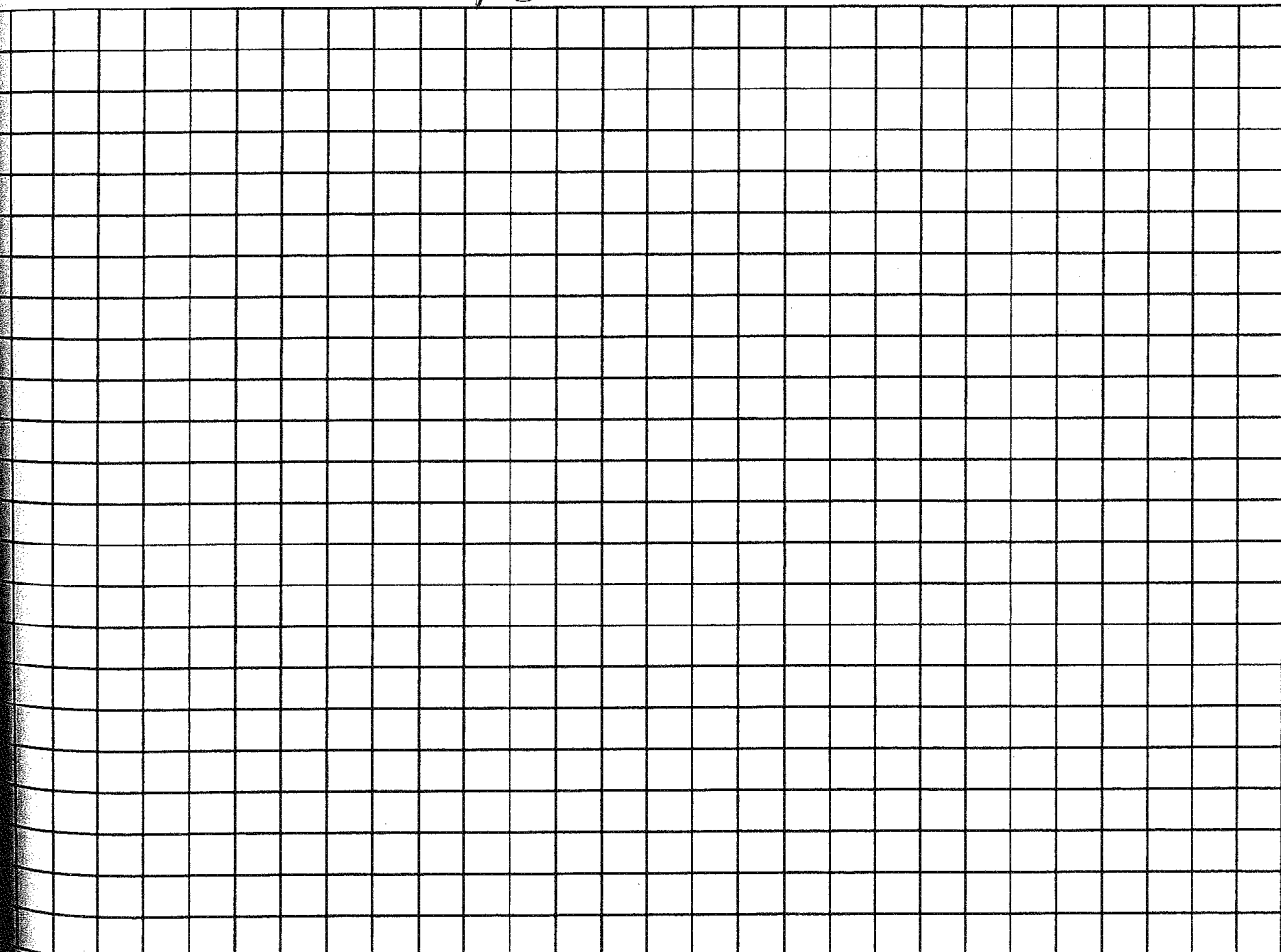
QA Checked By Amy Greenwald

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBO 077	
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>Andre Leon</i>			6. MANUFACTURERS DESIGNATION OF DRILL:		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: FBO 077			
<i>SS spoon</i>		9. SURFACE ELEVATION:			
<i>SS bucket</i>		10. DATE STARTED: <i>11-7-03</i>		11. DATE COMPLETED: <i>11-17-03</i>	
<i>SS hand</i>		12. OVERBURDEN THICKNESS: <i>w/c</i>		15. DEPTH GROUNDWATER ENCOUNTERED: <i>w/c</i>	
13. DEPTH DRILLED INTO ROCK: <i>w/c</i>		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <i>w/c</i>			
14. TOTAL DEPTH OF HOLE: <i>3'</i>		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <i>w/c</i>			
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
<i>See att. log</i>					
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
<i>J</i>		<input checked="" type="checkbox"/>			<i>[Signature]</i>

LOCATION SKETCH/COMMENTS

See pg 191

SCALE:



HTRW DRILLING LOG

HOLE NUMBER: F02 077

200

PROJECT: Fuze & Booster/RVAAP

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)
	0-1	6" brn clayey silt. trace small gravel. trace pebbles. plastic moist. fine silt increase to some sand & gra			F02-077-01 0125-0	Organic material Roots grass stems leaves
	1-2	Same as above. Increasing sand with depth to 1" brn sandy silt. some clay & gravel. some red id tan sand and SS			F02-077-02 0124-0	
	2-3					
	3-4					
	4-5					
	5-6					
	6-7					
	7-8					
	8-9					
	9-10					
	10-11					

RSB
111703

TASK TEAM ACTIVITY LOG SHEET

201

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/7/03 Su M Tu W Th F Sa

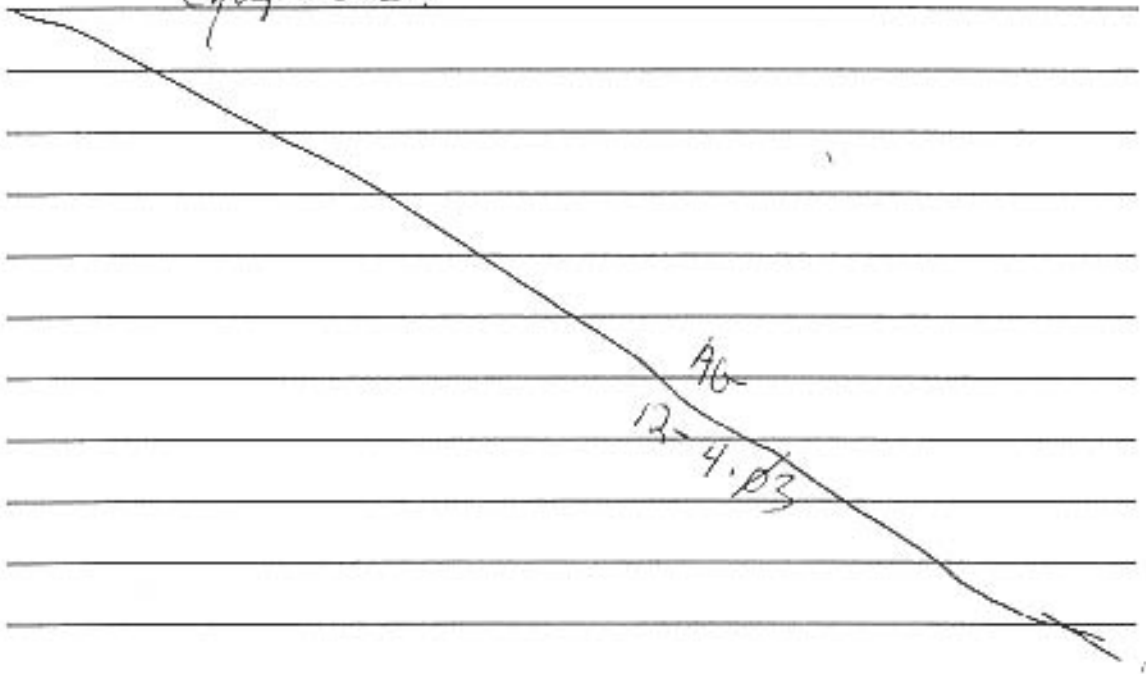
PAGE 1 OF 1

Task Team Members:

Ronda Bailey _____
Andre Leon _____
Steve King _____

Narrative (include time and location):

1445 - Arrive @ FBQ #73. Cleared by S. King. Begin 0-1 sample ^{FBQ 55-073-0145-50}
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 50s

Recorded By [Signature]

QA Checked By Amy Greenwald

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER FBO 073	
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: FBO 073		9. SURFACE ELEVATION: n/c		
SS Spoon				10. DATE STARTED: 11-17-03		
SS bit				11. DATE COMPLETED: 11-17-03		
SS tubes				12. OVERBURDEN THICKNESS: n/c		
13. DEPTH DRILLED INTO ROCK: n/c		15. DEPTH GROUNDWATER ENCOUNTERED: 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)
500 Grit log						OTHER (SPECIFY)
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)
J		<input checked="" type="checkbox"/>				OTHER (SPECIFY)
						23. SIGNATURE OF INSPECTOR
						[Signature]

LOCATION SKETCH/COMMENTS: **see pg 191**

SCALE:

HTRW DRILLING LOG

HOLE NUMBER: F10473

204

PROJECT: Fuzz & Booster/RVAAP

INSPECTOR

Rab

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GROTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0-1	med brn silty sand. loose & gravel change to silty sandy silt @ 8" sand clay & gravel. Fine to med. Moist. Firm.			F6050-073 0145-50	Organic Material Rats, stems, hair's grass
	1-2	lt brn clayey silt orange & gray mottling firm, moist trace sand & gravel, fine to coarse. Increase in density and sand with depth to 15 brn silt, some clay, s sand, trace gravel, silt			F6050-073 0145-50	
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

3'

Rab
111723
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