

APPENDIX D1
FUZE AND BOOSTER SOIL SAMPLING LOGS

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APPENDIX D1 SOIL SAMPLING LOG LOCATOR SHEET

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TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/01/03 Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Chantelle Carroll

William "Bill" Drolsbaugh

Andre Leon

Narrative (include time and location):

11:20 Arrive at sample location FBQ-057

Steve cleared site prior at 0-1 level

11:23 Start sampling FBQ50-057-0113-50

for explosives and metals at the 0-1

12:08 Steve clears 1-3 ft

12:10 Start sampling FBQ50-057-0114-50

for explosives & metals at the 1-3

12:29 Finished Sample Leaving for lunch

~~REB
12/4/03~~

Daily Weather Conditions: A.M.

Sunny, cool, 40-50's, light breeze

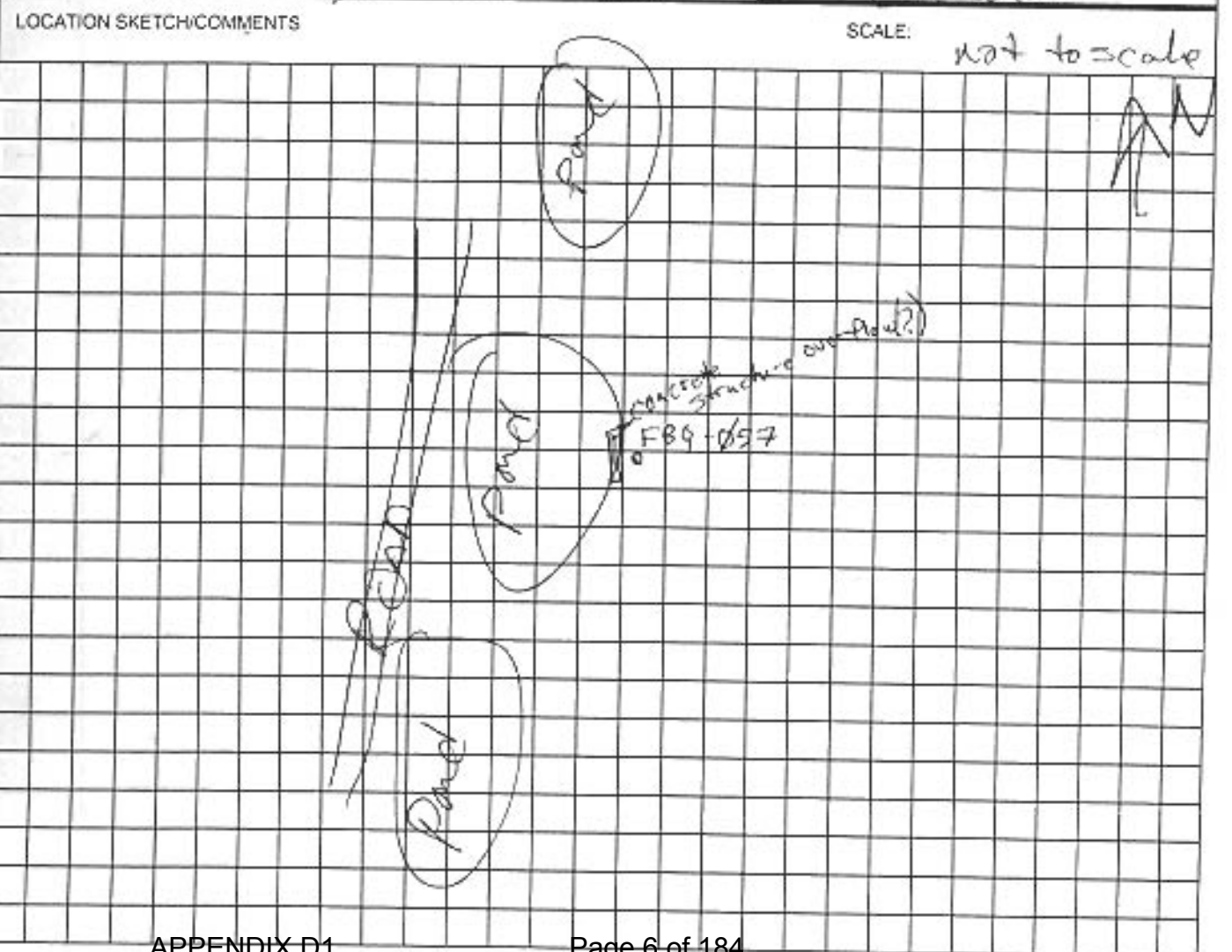
Recorded By

Chantelle Carroll P.M.

QA Checked By

Andre Leon

HTRW DRILLING LOG		DISTRICT: Louisville			HOLE NUMBER FBQ-057	
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR N/A			SHEET <u>1</u> of <u>1</u>	
3. PROJECT: Fuze & Booster/RVAAP				4. LOCATION: Fuze & Booster Quarry Landfill/Pond		
5. NAME OF DRILLER:				6. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION: FBQ-057				
SS bowl SS spoon SS 3 1/2 dia auger bucket		9. SURFACE ELEVATION: N/A				
12. OVERBURDEN THICKNESS: N/A		10. DATE STARTED: 10-1-03				
13. DEPTH DRILLED INTO ROCK: N/A		11. DATE COMPLETED: 10-1-03				
14. TOTAL DEPTH OF HOLE: 30		15. DEPTH GROUND/WATER ENCOUNTERED:				
		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A				
		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A				
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS		OTHER (SPECIFY)
see active log						OTHER (SPECIFY)
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)
N/A						23. SIGNATURE OF DIRECTOR C. C. Small



HTRW DRILLING LOG

HOLE NUMBER: FBG-057

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: C. O'Connell

SHEET / OF /

ELEV (A)	DEPTH (B) <i>feet</i>	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE DR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	2"	topsoil - BT samples dark olive brown, sandy				
	5'	Yellowish brown, silty sand, some gravel, moist, soft, low plasticity		N/A	FBG-057-0113-50	
	1	yellow-orange brown, silty clay, sand, moist, soft, low to med. plasticity, some gravel, sub angular			FBG-057-0114-50	
	2					
	3	Color Grade Bright Orange silty sand moist soft subangular pebbles				
	4	<div style="font-size: 2em; font-family: cursive;"> R O S 129403 </div>				
	5	<div style="font-size: 2em; font-family: cursive;"> R O S 129403 </div>				
	6	<div style="font-size: 2em; font-family: cursive;"> R O S 129403 </div>				
	7	<div style="font-size: 2em; font-family: cursive;"> R O S 129403 </div>				
	8	<div style="font-size: 2em; font-family: cursive;"> R O S 129403 </div>				
	9	<div style="font-size: 2em; font-family: cursive;"> R O S 129403 </div>				
	10	<div style="font-size: 2em; font-family: cursive;"> R O S 129403 </div>				

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

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

Task Team Members:

Christelle Carroll Steve King
Andre Leon
Bill Drobbaugh

Narrative (include time and location):

AT 1600 Arrive Sample Location FBQ-058
16:01 Steve cleared site prior to start sampling, φ-1 level and FBQ-058-0113-30. 2a explosives & metals
16:32 Have Refusal in center hole - off-set approx. 7" to the west 2nd & 3rd refusal tries → stop @ 8" have to use the NW corner explosives through hole to proceed to the 1-3 interval
Start sampling the 1-3 interval after clearance
Unable to sample below the φ-foot interval
16:48 Stop sampling due to refusal at the 1 foot interval. Go to next sample.

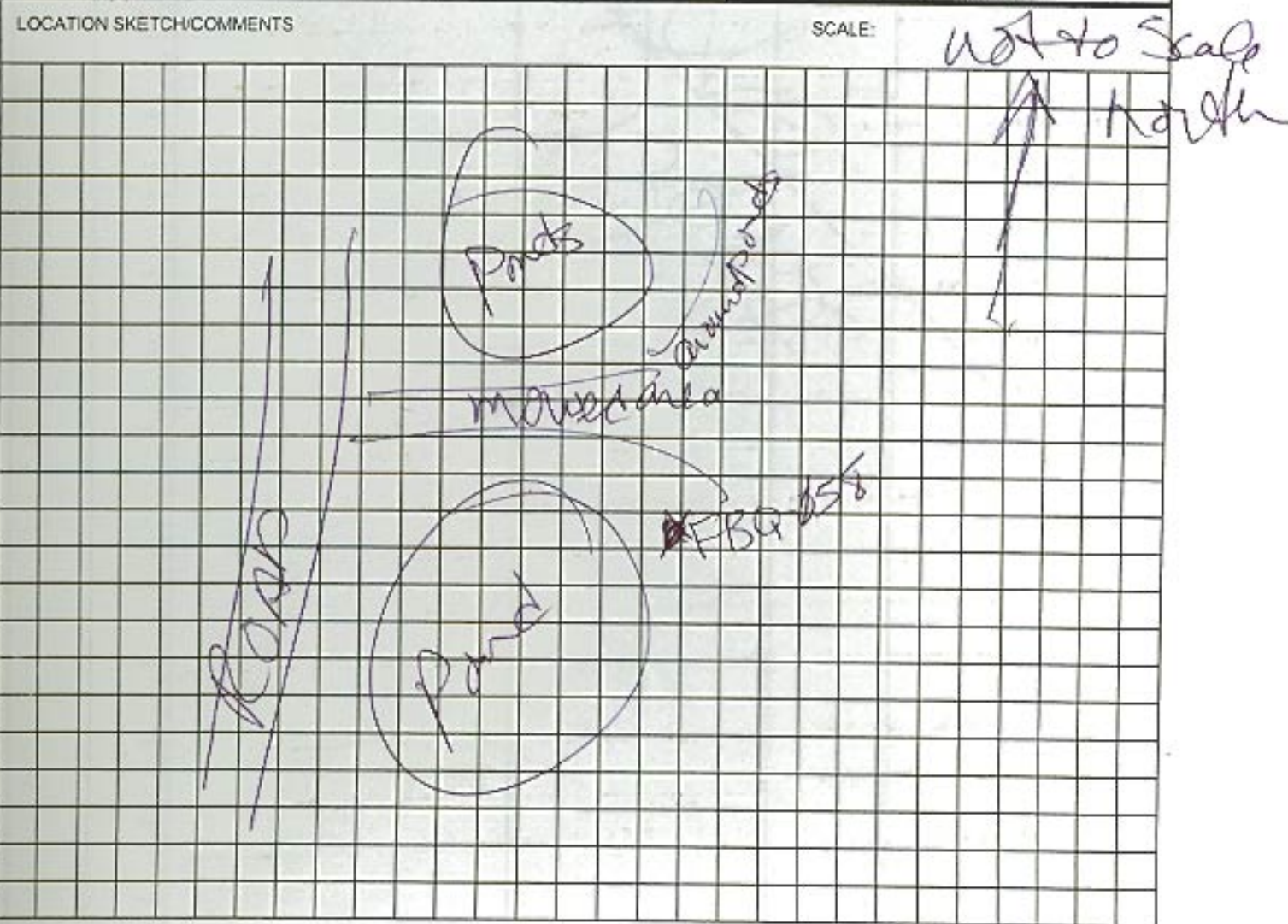
SCB
12/1/03

Daily Weather Conditions: A.M. _____

intermittent
PM. Most, rain, windy, Sun later

Recorded By Christelle Carroll QA Checked By Lord Kelly

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBQ 058	
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 spoon / bowl SS 3 1/2" bucket auger		8. HOLE LOCATION: FBQ-058			
9. SURFACE ELEVATION: n/a					
10. DATE STARTED: 10-1-03			11. DATE COMPLETED: 10-1-03		
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: 1.1" - refusal due to rock			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. log		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DEPOSITION OF HOLE: n/a		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY: %
				23. SIGNATURE OF INSPECTOR: E. Canale	



HTRW DRILLING LOG

HOLE NUMBER FBO-058

PROJECT: Fuze & Booster R/VAAP

INSPECTOR

C. Camell

SHEET 1 OF 1

ELEV. (A)	DEPTH (B) feet	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0	Top of gravels - dark olive brown	D.O. App	N/A	FBO-058-015-50	Refusal ^{due to} rock down to on 3 holes on top of hole = approx 8" x 6" = Center refusal to offset to west - 3 other off-set - refusal to stop at 8"
	1	yellowish sandy brown, silty sand, mostly firm, coarse grain				
	1.1	1.1" - then refusal		N/A	FBO-058-016-50	go to NW corner go down 1.3 in that hole, refusal unable to sample due to refusal
	2					
	3					
	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): 10/02/03 Su M Tu W (Th) F Sa

PAGE 1 OF 1

Task Team Members:

CharTelle Canall

Steve King

Andre Leav

Bill Drolshaug

Narrative (include time and location):

10:29 Arrived Sample Location FBQ-052

Steve cleaned site prior to testing FBQ-052

10:30 Started Sampling FBQ-052-010350

for Explosives and Metals

10:35 Have Refusal on North Sample Hole & East Hole
& West Hole ϕ - 6"

Go to Center Hole / Refusal Due To Rock/Sand at 8"

11:35 Due To Refusal in all 3 holes and center prior to
1' interval stop work and wait for EPA. Guidance

* 11:36 Pack up and return to BLD., Get guidance
to fully document all holes if refusal
is determined by the shallow bedrock
by EPA. all efforts must be made before
refusal is determined on ~~the~~ hole.

RB
12/7/03

Daily Weather Conditions: (A.M.) 10:20 Sunny Windy Cold 45°

P.M. _____

Recorded By W.D. Drolshaug
CharTelle Canall

QA Checked By RB

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER <i>FBQ-052</i>	
1. COMPANY NAME: <i>SpecPro, Inc.</i>		2. DRILL SUBCONTRACTOR		SHEET <i>1 of 1</i>	
3. PROJECT: <i>Fuze & Booster/RVAAP</i>			4. LOCATION: <i>Fuze & Booster Quarry Landfill/Pond</i>		
5. NAME OF DRILLER: <i>Andro Leon</i>			6. MANUFACTURERS DESIGNATION OF DRILL		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>55 g.p.m. hoses bowl</i>		8. HOLE LOCATION: <i>FBQ-052</i>			
		9. SURFACE ELEVATION			
		10. DATE STARTED: <i>10/02/03</i>		11. DATE COMPLETED: <i>10/24/03</i>	
12. OVERBURDEN THICKNESS: <i>n/c</i>		15. DEPTH GROUNDWATER ENCOUNTERED			
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>8" Due To Refusal</i>		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <i>n/a</i>			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES		VOC		METALS	
20. SAMPLES FOR CHEMICAL ANALYSIS: <i>See not. log</i>		OTHER (SPECIFY)		OTHER (SPECIFY)	
21. TOTAL CORE RECOVERY: <i>%</i>		MONITORING WELL		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE: <i>Backfilled</i>		23. SIGNATURE OF INSPECTOR: <i>[Signature]</i>			

LOCATION SKETCH/COMMENTS

SCALE: *Not To Scale*



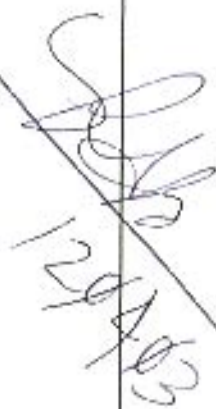
HTRW DRILLING LOG

HOLE NUMBER: **FBQ-052** 20

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: *W. Drolsbach*

SHEET / OF /

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	6"	Top Organics Dark olive Brown	0.0PPM	N/A	FBQ-052 0103.50	lots of roots
	8"					Sandstone rocks AT
		Refusal Due To Rock				Failed AT 8"
		<div style="font-size: 2em; font-family: cursive;">  </div>				
		129403				

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): 10/02/03 Su M Tu W (Th) F Sa

PAGE 1 OF 1

Task Team Members:

Charitelle Cannell

Audre Leon

Bill Drolsbrough

~~REP
12/4/03~~

Narrative (include time and location):

13:46 Steve K. cleaned site prior to testing FBQ-054

13:46 Started Sampling FBQ-054 010750

for Explosives and Metals AT 0-1' Interval

14:20 Start Sampling FBQ-054 010850 for Explosives and Metals (1-3')

14:30 Finish Sample Going to Next location

~~REP
12/4/03~~

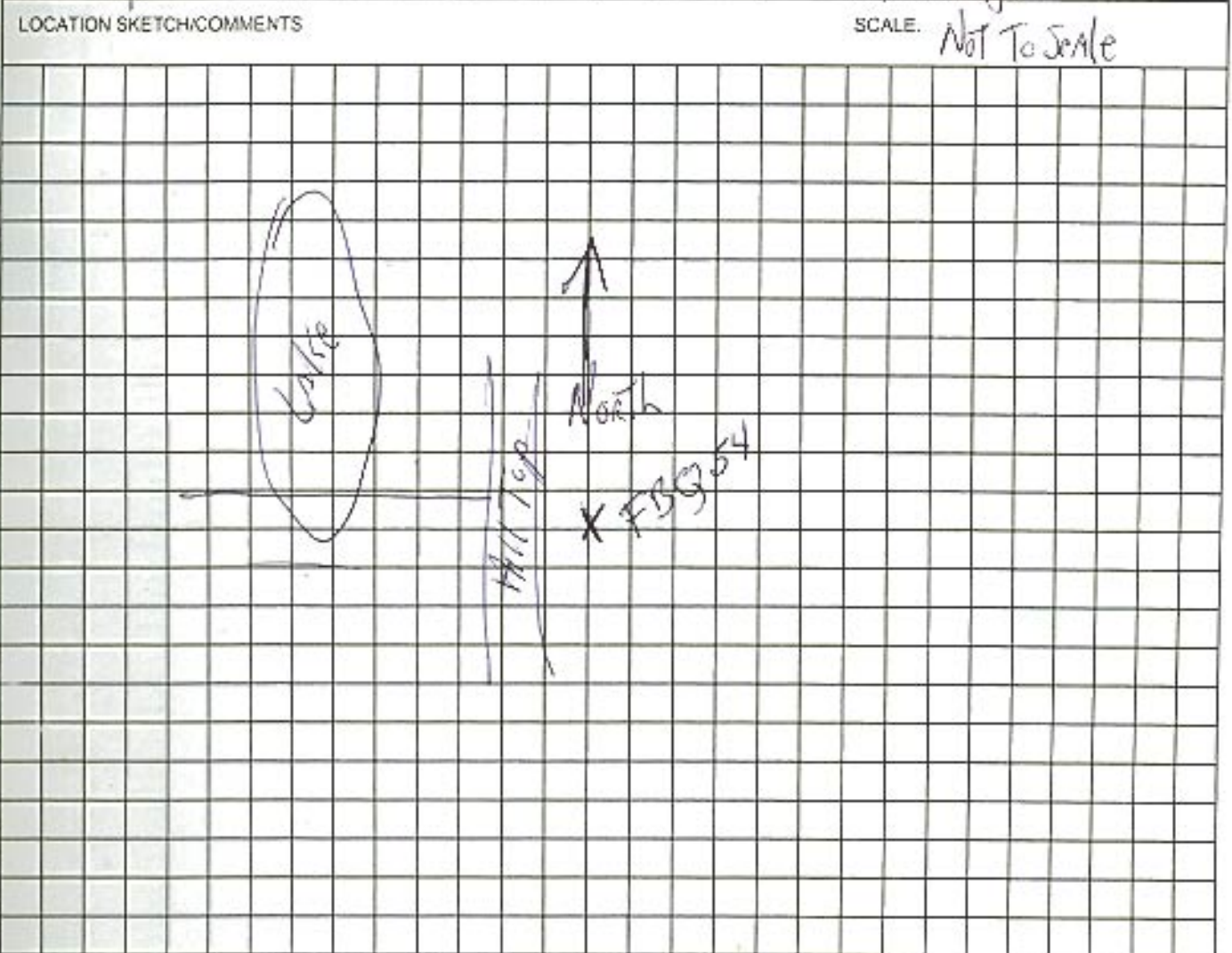
Daily Weather Conditions: A.M. _____

(P.M) 13:48 Sunny Scattered Clouds - Cold 45°

Recorded By WA Drolsbrough

QA Checked By [Signature]

HTRW DRILLING LOG		DISTRICT Louisville		HOLE NUMBER FBG-054	
1. COMPANY NAME SpecPro, Inc.		2. DRILL SUBCONTRACTOR N/A		SHEET 2 of 1	
3. PROJECT: Fuze & Booster/RVAAP			4. LOCATION Fuze & Booster Quarry Landfill/Pond		
5. NAME OF DRILLER			6. MANUFACTURERS DESIGNATION OF DRILL N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT SS/spoon auger SS bucket auger		8. HOLE LOCATION FBG-054			
		9. SURFACE ELEVATION N/A			
		10. DATE STARTED 10/02/03		11. DATE COMPLETED 10/02/03	
12. OVERBURDEN THICKNESS N/A		15. DEPTH GROUNDWATER ENCOUNTERED			
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) N/A			
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)
22. DISPOSITION OF HOLE N/A		SACK FILLED ✓	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
				23. SIGNATURE OF INSPECTOR WA [Signature]	



HTRW DRILLING LOG

HOLE NUMBER: FBG 054

PROJECT: Fuze & Booster RVAAP

INSPECTOR: W.D. [Signature]

SHEET / OF 1 / 24

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	4'	ORGANIC MEDIUM BROWN SILTY SAND/TACKY CLAY	0.0 PPM	N/A	FBG 054 .0107	Rooty
	11'	Light yellow Brown Silty Clay Light Mottled Bright Orange Firm Moist Low Plast. Fine Med. Grain			FBG 054 .0108	More Rooty
		Bright Orange Mottled Tan Coarse Silty Med. Plast. Soft + Pump sand/clay				Less Rooty
	2'	← sample same to bottom of hole				
	3'	[Diagonal line from 3' depth to 9.5' depth]				
	4'	[Diagonal line from 3' depth to 9.5' depth]				
	5'	[Diagonal line from 3' depth to 9.5' depth]				
	6'	[Diagonal line from 3' depth to 9.5' depth]				
	7'	[Diagonal line from 3' depth to 9.5' depth]				
	8'	[Diagonal line from 3' depth to 9.5' depth]				
	9'	[Diagonal line from 3' depth to 9.5' depth]				
	9.5'	[Diagonal line from 3' depth to 9.5' depth]				

[Signature]
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): 10/02/03 Su M Tu W (Th) F Sa

PAGE 1 OF 1

Task Team Members:

Charitelle Carroll

Ardene Leon

Bill Deolsbaugh

Narrative (include time and location):

14:45 Steve King Cleaned Site prior to Testing FBQ #56

14:46 STARTED SAMPLING FBQ #56 #111 SO
for Explosives and METALS AT 0-1' INTERVAL15:20 STARTED SAMPLING FBQ #56 #112 SO
for Explosives + METALS - 1-3' level

15:35 Refusal AT 1'4" AT THE 1 TO 3" INTERVAL

15:36 END of Test Moving To another Test Spot

~~Bill Deolsbaugh~~
12/4/03

Daily Weather Conditions: A.M. _____

(P.M.) 14:45 Sunny Windy Cool 45°

Recorded By

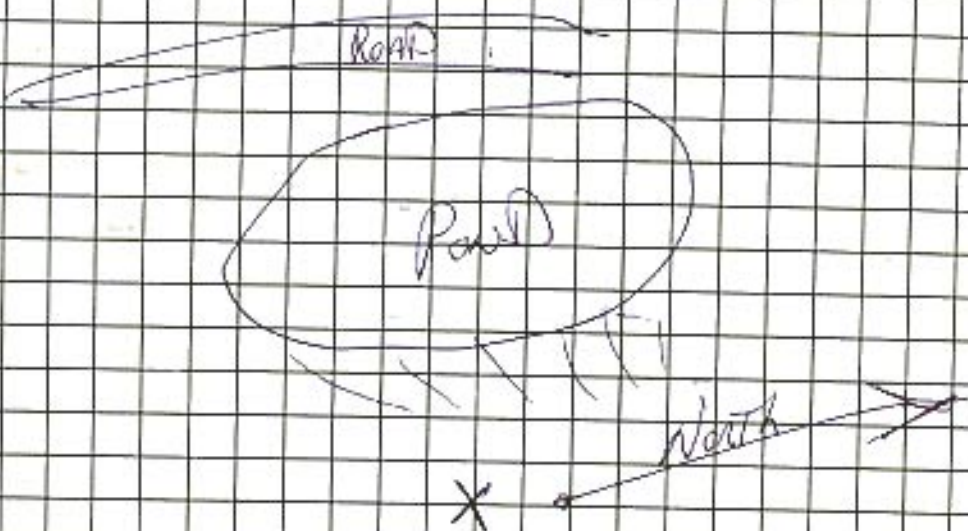
WA Deolsbaugh

QA Checked By

Bill Deolsbaugh

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBO-056	
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR <i>N/A</i>		SHEET L of L	
3. PROJECT: Fuze & Booster/RVAAP			4. LOCATION: Fuze & Booster Quarry Landfill/Pond		
5. NAME OF DRILLER:			6. MANUFACTURERS DESIGNATION OF DRILL <i>N/A</i>		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>SS Special/ Bowl SS Bucket Auger</i>		8. HOLE LOCATION FBO-056			
		9. SURFACE ELEVATION <i>N/A</i>			
		10. DATE STARTED <i>10/02/03</i>		11. DATE COMPLETED <i>10/02/03</i>	
12. OVERBURDEN THICKNESS <i>N/A</i>		15. DEPTH GROUNDWATER ENCOUNTERED:			
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 1.4"		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>SPP Act. Log</i>		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE <i>SPP Act. Log</i>		BACKFILLED <input checked="" type="checkbox"/>	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
					23. SIGNATURE OF INSPECTOR <i>W.A. Dabbs</i>

LOCATION SKETCH/COMMENTS SCALE: *Not To Scale*



HTRW DRILLING LOG

HOLE NUMBER: FBQ056 28

PROJECT: Fuze & Booster RVAAP

INSPECTOR

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)
	2"	ORGANICS Dark Brown Silty Clay w/ sand small pebbles Moist-soft med-hard plastic	250 PPM.	N/A	FBQ056 Ø111.50	Roots
	1	Silty Sand Clay				
148	1	Subangular pebbles No Silty SAND & Clay Color Change Moist			FBQ056 Ø112.50	
	2		Refusal @ 10 1/4"			
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

[Handwritten signature]
12/4/13

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/02/03 Su M Tu W (Th) F Sa PAGE 1 OF 1

Task Team Members:

Andre Leon
Christelle Carroll
Bill Deatsburgh

Narrative (include time and location):

16:00 Steve cleaned site FBO - 043
Prior to Testing

16:10 Started Sampling FBO 043-0085-S1
Metal + Explosives AT 0-1' interval

Unable to get past 1' Refusal in all holes
Digging a Composite of 5 Holes

Deepest Hole is 6" Stop Sampling - unable to take
16:50 Finish Going Back To Bid. 1-3ft into sample

~~[Signature]~~
~~10/02/03~~

Daily Weather Conditions: A.M. _____

(P.M.) Sunny Windy Cool
Recorded By Bill Deatsburgh QA Checked By [Signature]
Christelle Carroll

HTRW DRILLING LOG		DISTRICT Louisville		HOLE NUMBER FBQ-043	
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR N/A		SHEET L of L	
3. PROJECT: Fuze & Booster/RVAAP			4. LOCATION: Fuze & Booster Quarry Landfill/Pond		
5. NAME OF DRILLER:			6. MANUFACTURERS DESIGNATION OF DRILL N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT SS spray/Brawl SS Bucket/Auger		8. HOLE LOCATION FBQ-043		9. SURFACE ELEVATION	
12. OVERBURDEN THICKNESS N/A		10. DATE STARTED 10/02/03		11. DATE COMPLETED 10/21/03	
13. DEPTH DRILLED INTO ROCK N/A		15. DEPTH GROUNDWATER ENCOUNTERED:		18. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE 6" Due To Rocks Refusal		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 SPP Activity Log		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DEPOSITION OF HOLE SPP		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
				23. SIGNATURE OF INSPECTOR N.A. Dunbar	

LOCATION SKETCH/COMMENTS SCALE: **NOT TO SCALE**



HTRW DRILLING LOG

HOLE NUMBER: **FBO043**

32

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)
	6"	Medium Brown mixed w/ Top Silty Sand soft moist 40% Sub Anglase Sandstone Pebbles	0% PPM.	N/A	1-892-143 -0025-50	Heteric Field Tile Glass/Rocks Chanceal/
	1	<p>Refusal AT 6" Due to Rock unable to take 1-3 sample</p>				
	2	<p><i>[Signature]</i> 120403</p>				
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/03/03 Su M Tu W Th **(F)** Sa

PAGE 1 OF 1

Task Team Members:

Chastelle Conell

Bill Drolsbough

Steve King

Narrative (include time and location):

9:20 Steve cleaned site FBQ-038
Prior to testing

9:25 Start sampling FBQ-038-1075-50 at the
0-1 interval for explosives, metals

all 3 expl
holes refueled
@ 8-9 inches

10:00 After Steve clears the 1-3'

10:02 Starting sampling at the 1-3 interval for
explosives, metals (FBQ-038-0075-50)

10:25 Refusal at 1.9 in Center hole (still takes sample)

10:37 Finished holes to next hole

~~Bill Drolsbough
10/03/03~~

Daily Weather Conditions: A.M. overcast, to P. cloudy, breeze, first PM

Recorded By: Chastelle Conell

QA Checked By: Bill Drolsbough

HTRW DRILLING LOG

DISTRICT Louisville

HOLE NUMBER
FBQ-038

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: B. Drabbanon

6. MANUFACTURERS DESIGNATION OF DRILL

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT
33 hole / 1/2" ID
33 3/8 dia. long bucket

8. HOLE LOCATION: FBQ-038

9. SURFACE ELEVATION: n/a

10. DATE STARTED: 10/30/03

11. DATE COMPLETED: 11/3/03

12. OVERBURDEN THICKNESS: n/a

15. DEPTH GROUNDWATER ENCOUNTERED: ~ 8"

13. DEPTH DRILLED INTO ROCK: n/a

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED
~ 1 ft to water in center hole

14. TOTAL DEPTH OF HOLE: 1.9'

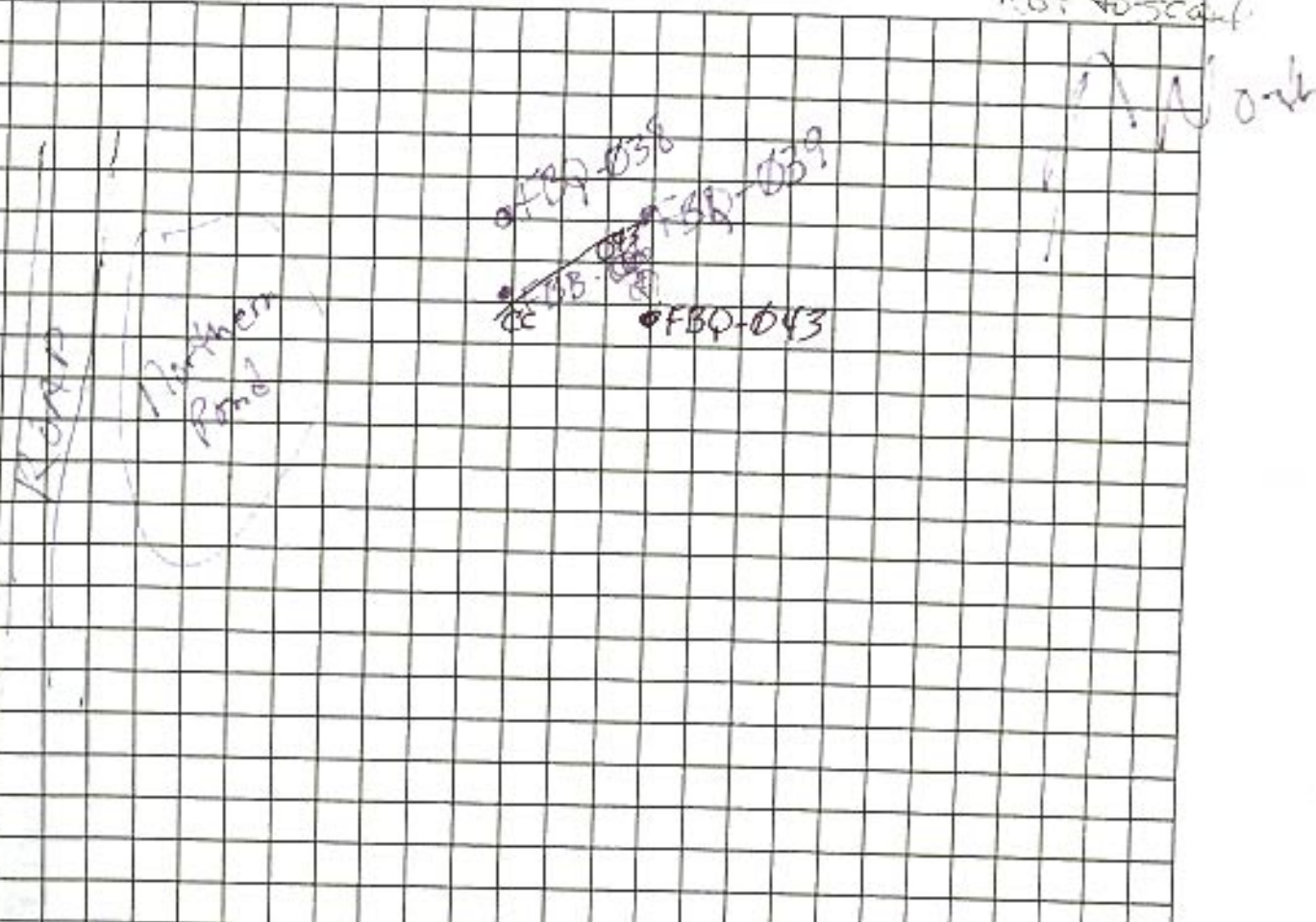
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):
n/a

18. GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES: n/a		21. TOTAL CORE RECOVERY %
20. SAMPLES FOR CHEMICAL ANALYSIS See log 105	LOG	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)		
22. DISPOSITION OF HOLE n/a	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR <i>[Signature]</i>			

LOCATION SKETCH/COMMENTS

SCALE:

10' to scale



HTRW DRILLING LOG

PROJECT: Fuzo & Booster RVAAP

INSPECTOR: C. Canall

WOLE NUMBER: FB-158

36

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
		Organics top 1/2 inch yellowish-brown color silty sand, cobbles to gravel size, hard; (40%) gravel	1.0 ppm	N/A	FB-158 0015-2	lots roots exp holes - 8", with 8" water rock 10" water rock
		Color changes to grayish gravel size to gravel	0.0 ppm	N/A	FB-158 0016-0	Water in center hole 2.1"
	1.9	Refusal in center 1.9				
	1.9	Refusal in center 1.9				

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10-2-03 Su M Tu W Th (F) Sa

PAGE 1 OF 1

Task Team Members:

Bill Drolsbach
Chantelle Carroll
~~Rob~~
12/4/03

Narrative (include time and location):

10:29 Arrive at location FBQ-039
Steve cleaned site prior to arrival

10:31 Start sampling FBQ-039-0077 - 50 ft
explosives & metals at the 0-1 interval
Refusal in Custer hole at 9ft -
all explosive holes have refusal betw 4-8"
water in holes also

10:59 Stop sample go to next location

~~Rob~~
12/4/03

Daily Weather Conditions: A.M. P. Cloudy, breezy, 40's

P.M.

Recorded By

CCarroll

QA Checked By

Rob

HTRW DRILLING LOG		DISTRICT Louisville		HOLE NUMBER FBQ-039	
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR n/a		SHEET 6 of 6	
3. PROJECT: Fuze & Booster/RVAAP			4. LOCATION: Fuze & Booster Quarry Landfill/Pond		
5. NAME OF DRILLER: B. Doosbaugh			6. MANUFACTURERS DESIGNATION OF DRILL: n/a		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 3" spoon/bowl 55 3/2 dia auger bucket		8. HOLE LOCATION: FBQ-039			
		9. SURFACE ELEVATION: n/a			
		10. DATE STARTED: 10-3-03		11. DATE COMPLETED: 10-3-03	
12. OVERBURDEN THICKNESS: n/a		13. DEPTH GROUNDWATER ENCOUNTERED: 8.4			
13. DEPTH DRILLED INTO ROCK: n/a		14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/a			
14. TOTAL DEPTH OF HOLE: 9" ^{auger} refusal		15. 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)	
21. TOTAL CORE RECOVERY					
22. DISPOSITION OF HOLE backfilled		MONITORING WELL		OTHER (SPECIFY)	
				23. SIGNATURE OF INSPECTOR: C. Canall	

LOCATION SKETCH/COMMENTS SCALE:

See location on
map on page 36
in the Soil Log #1

HTRW DRILLING LOG

HOLE NUMBER: **FB0-037**

PROJECT: Fuze & Booster RVAAP

INSPECTOR: **C. Small**

SHEET 1 OF 1

40

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
		top 2' soil approx 1" below reddish brown, silty sand, gravel + 40% color changing around 9" to a brownish-red, etc		N/A	037-0077 50	explosives hole refusal @ 8" due to rock - roots/stems @ 4" rock refusal @ 9" rock refusal water in hole @ 2 1/2"
		Refusal in center hole 29"				
		037-0077 120403				

TASK TEAM ACTIVITY LOG SHEET

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

Date (m/m/dd/yy): 10/06/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Bill Dadsbaugh

Andre Leon

Randy Bailey

Narrative (include time and location):

10:03 Arrived AT Location FBQ-059
 Steve cleaned the pipe to arrive.

10:05 Started sampling FBQ-059-0117-50
 for Explosives + Metal at the 0-1 interval

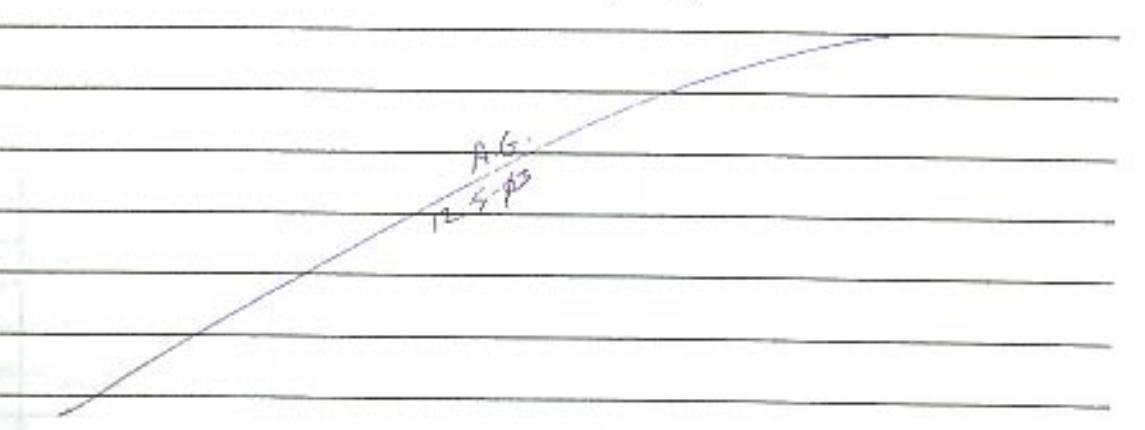
Retired AT 1' 10/06/03 ^{WAD}

11:00 0-1

11:11 Started Sampling AT the 1-3 interval for
 Explosives + Metals FBQ 059 0118 50

11:15 Retired AT Center Hole AT 1'6" Still Taking ^{Metal} Exp. Sample

11:36 Finished Hole and Sampling



Daily Weather Conditions A.M. Sunny 52°

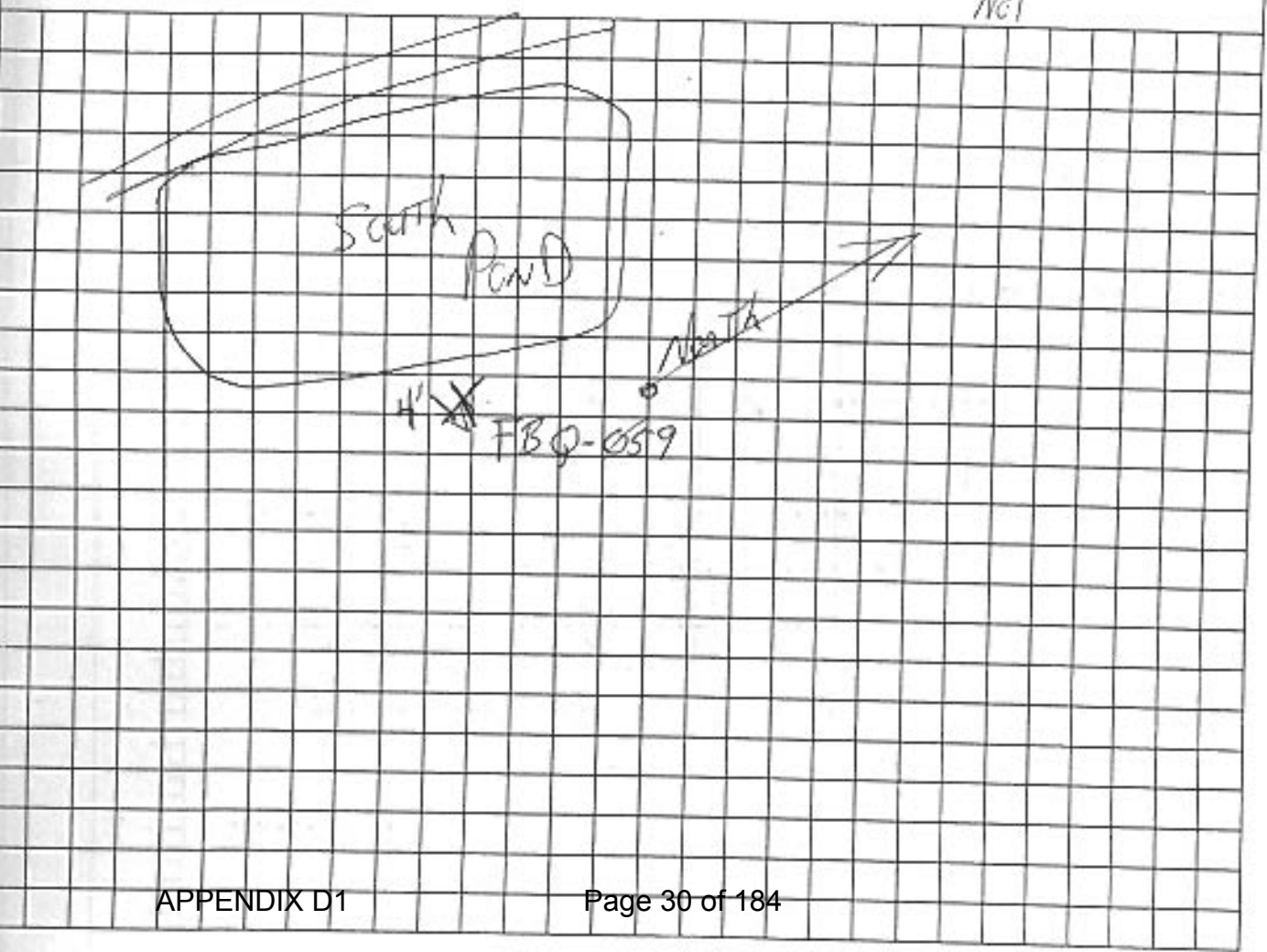
P.M. _____

Recorded By WA Dadsbaugh QA Checked By Amy Hearnwald

HTRW DRILLING LOG		DISTRICT Louisville		HOLE NUMBER FBQ-059	
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>Photo Log</i>			6. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <i>SS 9/16" Drill SS 3/16" Drill Auger Bucket</i>			8. HOLE LOCATION: FBQ-059		
			9. SURFACE ELEVATION: N/A		
			10. DATE STARTED: <i>10/06/03</i>		11. DATE COMPLETED: <i>10/06/03</i>
12. OVERBURDEN THICKNESS: <i>NA</i>			15. DEPTH GROUNDWATER ENCOUNTERED:		
13. DEPTH DRILLED INTO ROCK: <i>NA</i>			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: <i>N/A</i>		
14. TOTAL DEPTH OF HOLE: <i>1.0</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 Activity log</i>		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE: <i>See Activity log</i>		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
				23. SIGNATURE OF INSPECTOR: <i>WA. D. ...</i>	

LOCATION SKETCH/COMMENTS

SCALE: *NCT*



HTRW DRILLING LOG

PROJECT: Fuel & Booster RVAAP

INSPECTOR: B. Drobman

HOLE NUMBER: FB0209 44

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (D)	REMARKS (E)
	6"	olive Brown Clay Silt Trace Sand Trace Gravel Fine-Medium Gravel	PID = Ø	NA	Ø59-Ø11750	side slope of Southern Peninsula Light ACTS
	1'6"	Change AT 6" Lyr. yellowish Brown Firm. Mass/loose Silt/Clay SAND/A @ 1'6" some FINE			FBR 20-Ø37 Ø118-50	Westward hole AT 8" (Ave) In Due To Radial Hole Refusal at 1'6" Center Hole for Explosive FINE To Medium Grain Some Gravel/Fine To coarse
<p><i>CE 12-1-63</i></p>						

TASK TEAM ACTIVITY LOG SHEET

45

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

DELIVERY ORDER: 0012

Date (mm/dd/yyyy): 10/06/03 Su (M) Tu W Th F SaPAGE 1 OF 1

Task Team Members:

Ronda BaileyAndee LewBill Duckburgh

Narrative (include time and location):

12:00 Arrived AT Location FBQ-051Steve K. cleaned site prior To Arrival12:05 Start Sampling FBQ-051-0101 so.AT the 0' level for Explosives & Metal Samplers12:17 Retreat AT West Hole 1 ft. - East Hole 8"Samplers Taken12:45 Started Sampling FBQ-051-0102 so.AT the 1-3' level for Explosives & ^{The metal, Propellant, Cr+6, SVOCs, PCBs/Pesticides/DO} Center Hole1:30 ~~Sampled A Full Suite~~Returned To Bld.12-1:03
ceDaily Weather Conditions (A.M.) Scattered Clouds Sunny 58° Light Wind

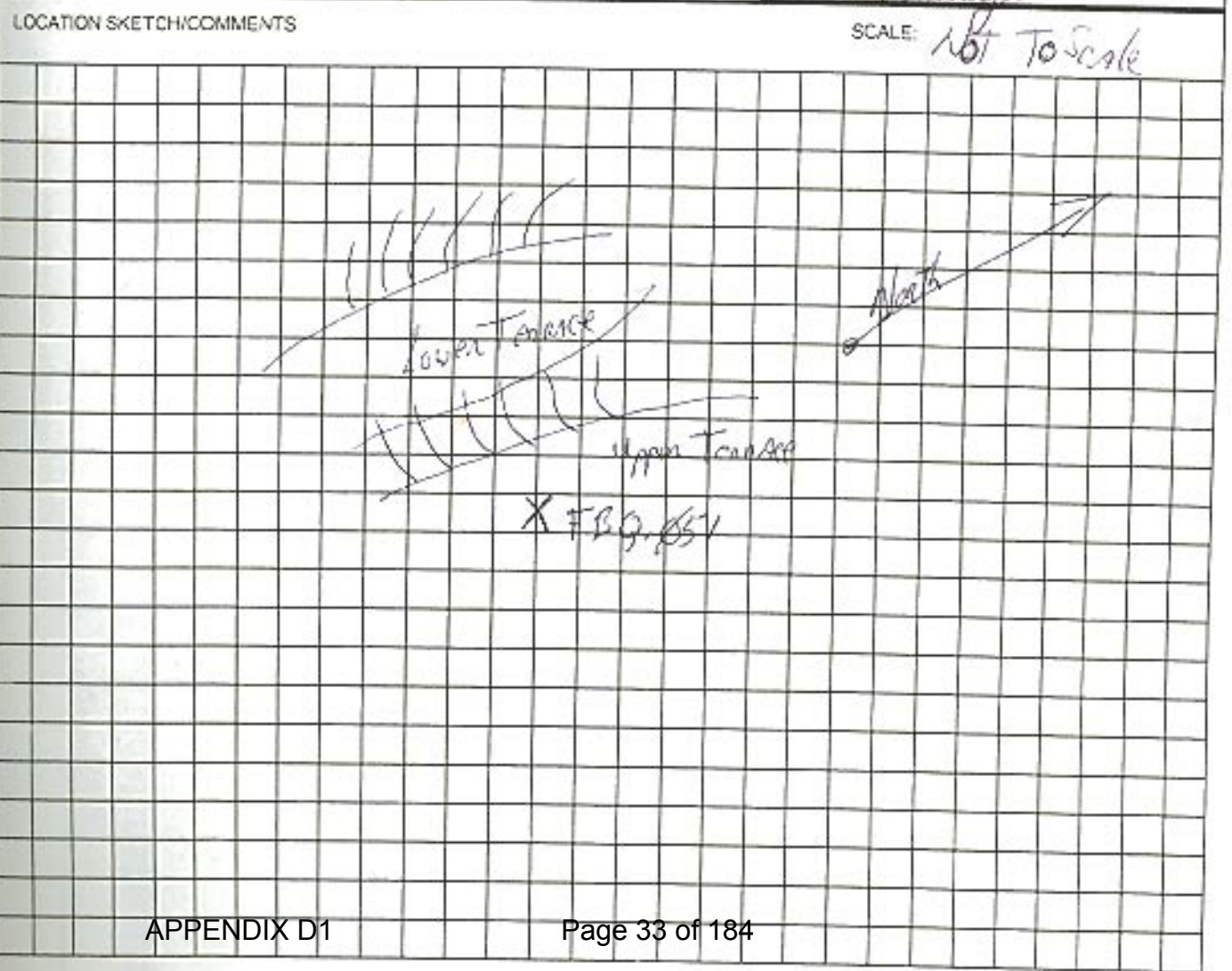
P.M.

Recorded By W.A. DuckburghQA Checked By Chris Card

HTRW DRILLING LOG		DISTRICT Louisville	HOLE NUMBER FBG.051 47
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>Fuze Lee</i>		6. MANUFACTURERS DESIGNATION OF DRILL: N/A	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: SS Bowl SS ^{3/4} Spool + Bucket		8. HOLE LOCATION: FBG.051	
		9. SURFACE ELEVATION: N/A	
		10. DATE STARTED: 10/06/03	11. DATE COMPLETED: 10/06/03
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED:	
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 30ft		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 Activity Log</i>	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)
21. DEPOSITION OF HOLE: <i>See Activity Log</i>	BACKFILLED <input checked="" type="checkbox"/>	MONITORING WELL	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY: N/A	
			23. SIGNATURE OF SUPERVISOR: <i>W.D. Dabney</i>		



HTRW DRILLING LOG

HOLE NUMBER: **FBQ.051**
SHEET 1 OF 1

PROJECT: Fuse & Booster RVAAP

INSPECTOR

48

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	1'	LIGHT GIVE BROWN Clay Silt Trace/Gravel Fine Trace Sand Moist - Loose	PID-φ	N/A	FBQ.051 φ1φ1.50	Small Trees on upper Terrain Light brown Lt
	1'6"	Change of Color Light Yellowish Brown Clay Silt Silt Sand	SA/A			
	2'	Light Yellowish Brown Mottled Orange Silty Clay Trace Gravel Trace Sand (Medium) Dry - Plastic @ 1.6"	SA/A	N/A		
	3'	Color change to Light Grayish Brown Mottled Orange SA/A @ -2'-3' Light Yellowish Brown Silty Sand Trace of Clay/Gravel Fine Trace Loose Moist			FBQ.051 φ1φ2.50	
	4'					
	5'					
	6'					
	7'					
	8'					
	9'					
	10'					
	11'					
	12'					
	13'					
	14'					
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	37'					
	38'					
	39'					
	40'					
	41'					
	42'					
	43'					
	44'					
	45'					
	46'					
	47'					
	48'					
	49'					
	50'					

AG
12.5.03

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/24/03 Su (M) Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Andre Leon _____ Steve King _____
 Bill Drolbaugh _____
 Ronde Bailey _____

Narrative (include time and location):

1515 - Arrive @ FBQ #44. Begin sample take ~~AB~~

Duplicate sample - FBQ 55-040-07950 (metals/explos) ~~AB~~

1600 - Begin center hole for metals sample incl. split ~~AB~~

* 1610 - Begin 1-3, take duplicate ~~AB~~ (FBQ 50-040-07340-50) metals

1630 - Leave site

(0-1: metals; explosives, 1:3 metals; explosives and dupli. sample taken)

split
not taken
~~AB~~

* 1620 - site closed by SK. @ 1-3'

12-1-03
ca

Daily Weather Conditions: A.M. _____

P.M. Sunny, H₀ 50° F

Recorded By Ronde Bailey

QA Checked By Charles Carroll

HTRW DRILLING LOG		DISTRICT Louisville		HOLE NUMBER FBQ 049	
1. COMPANY NAME SpecPro, Inc.		2. DRILL SUBCONTRACTOR Andros Leon		SEE LOG	
3. PROJECT Fuze & Booster/RVAAP			4. LOCATION Fuze & Booster Quarry Landfill/Pond		
5. NAME OF DRILLER Andros Leon			6. MANUFACTURERS DESIGNATION OF DRILL n/a		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 5/8 Spoon 5/8 Pawl 3/4 SS Auger bucket			8. HOLE LOCATION FBQ 049		
			9. SURFACE ELEVATION n/c		
			10. DATE STARTED 10/16/03		11. DATE COMPLETED 10/16/03
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/c		
14. TOTAL DEPTH OF HOLE 3			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
22. DISPOSITION OF HOLE n/a		BACKFILLED	VENT/DRAG WELL	OTHER SPECIFY	21. TOTAL CORE RECOVERY
				23. SIGNATURE OF INSPECTOR <i>[Signature]</i>	

LOCATION SKETCH/COMMENTS

SCALE: no scale



HTRW DRILLING LOG

PROJECT: Fuze & Booster RV.AAP

INSPECTOR: K. Bailey

HOLE NUMBER: **FB0646**

52

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (D)	REMARKS (E)
----------	-----------	------------------------------	-----------------------------	-----------------------------	--------------------------	-------------

0-1' Light Olive Brown Clayey Silty, moist, trace sand trace gravel fine med. to 6" @ 6' change to yellowish brown silty clay, damp trace sand, trace gravel

PID-φ

n/a

FB020-046
0279-50

1-3' Same as above yellow-brn. Silty Clay.

0-7100

n/a

FB020-046
0280-50
FB020-046
0366-50


 12.5' φ3

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

53

Date (mm/dd/yy): 12/2/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Andre Leon _____ Steve King _____
Bill Drolsbach _____ _____
Randy Bely _____ _____

Narrative (include time and location):

0900 - Arrive @ FBR 036; Begin sample interval. Site cleared by S.K. FBR 50 036007150
0925 - Begin center hole of interval for explosive/metals portion
0953 - Eng sample @ 2'10"; refusal of glb
Auger Take FBR 50 036007250, metals; explosive
0957 - Abandon site

AG
12-5-03

Daily Weather Conditions: A.M. Sunny, mid to high 40s°F

P.M.

Recorded By Randy Bely QA Checked By Amy Hummard

HTRW DRILLING LOG

DISTRICT Louisville

HOLE NUMBER
F10-436

55

1. COMPANY NAME: SpecPro, Inc.

2. DRILL SUBCONTRACTOR
n/a

SHEET L of L

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 spore
SS 3 1/2" Auger bucket
SS hand

8. HOLE LOCATION: F10-436

9. SURFACE ELEVATION: n/a

10. DATE STARTED: 10/07/13 DATE COMPLETED: 10/07/13

12. OVERBURDEN THICKNESS: 1/2

15. DEPTH GROUNDWATER ENCOUNTERED: n/a

13. DEPTH DRILLED INTO ROCK: 1/2

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

14. TOTAL DEPTH OF HOLE: 2-10

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

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 51

SCALE:

HTRW DRILLING LOG

PILE NUMBER: *FB0136*

PROJECT: *Fuzz & Donner RYAAP*

INSPECTOR: *ALB*

SHEET *1* OF *1*

56

ELEV (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS	HEADSPACE SCREENING RESULTS	LOCATION SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<i>0-1</i>	<i>Olive brn silty clay, moist, trace sand, trace gravel fine, plastic, soft change @ 6" to olive brn clayey silt, damp, trace gravel, trace sand, change @ 8" to yellowish brn silty clay, some sand, damp, plastic, firm.</i>	<i>φ φ 100</i>	<i>n/a</i>	<i>FB05130807150</i>	
	<i>1-3</i>	<i>Yellowish brn clayey silt, damp, trace sand, trace to some gravel, fine to coarse med. dense silt up to 2' 10" some gray mottling.</i>	<i>φ φ 100</i>	<i>n/a</i>	<i>FB05036007250</i>	<i>Refusal @ 2' 10" of Auger.</i>
		<i>Refusal 2.10</i>				
		<i>ALB 12.6.03</i>				

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/07/03

Su M (Tu) W Th F Sa

PAGE 1 OF 1

Task Team Members:

Andre Lear
Bill Dredgbaugh
Ronda Bentley
Steve King

Narrative (include time and location):

Site cleared by S.K.
1050: Arrive @ FBO #34. Begin interval.
Refusal @ 3'-6" in 5 perimeter
holes. Sample from all 5 per. holes. FBO #34 10/07/03
1108 - begin center hole for metals
1130 - Abandon site, refusal @ 6".

AG
12.5
.03

Daily Weather Conditions: A.M.

Sunny, Lt brz, low 50°F

P.M.

Recorded By

RB

QA Checked By

Amy Stearns

HTRW DRILLING LOG

PROJECT: Fuse & Booster RVAAP

INSPECTOR: *ASB*

PILE NUMBER: *FBA 03A*

60

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE ID#	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.0	<p><i>01.ve brn clayey silt and sand, mottled red trace to gray, loose, damp. gravel fine to med refused all holes up to 6".</i></p>			<i>FBA 03A 0067</i>	
	1.0					
	2.0					
	3.0					
	4.0					
	5.0					
	6.0					
	7.0					
	8.0					
	9.0					
	10.0					

Refusal @ 6"

*A-
12.5.03*

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/07/03 Su M Tu W Th F Sa

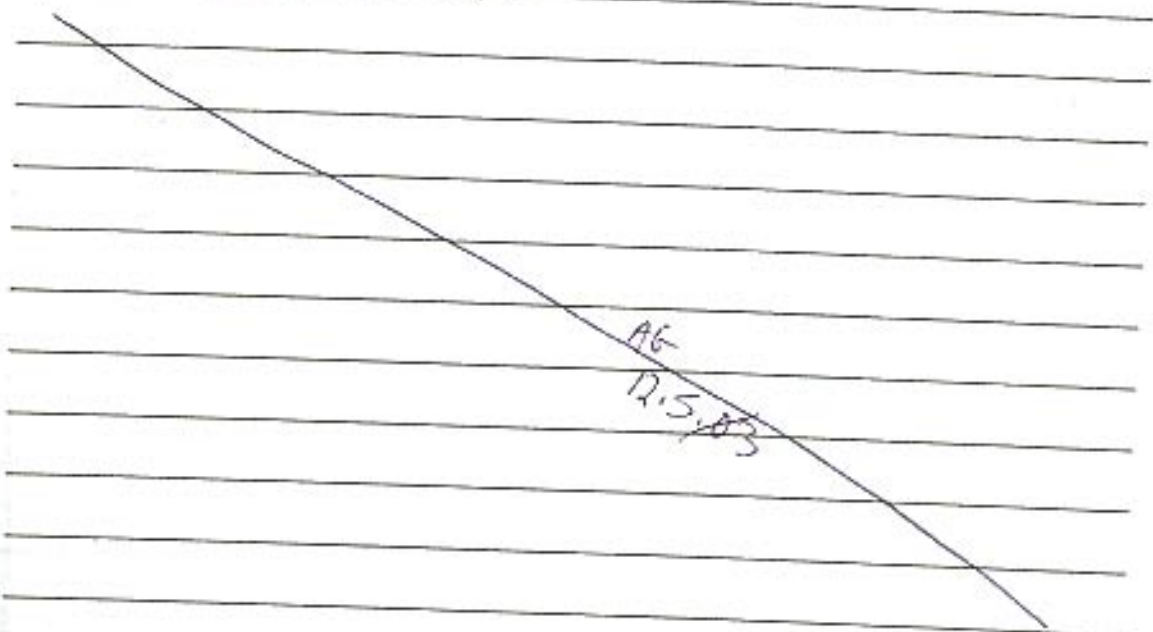
PAGE 1 OF 1

Task Team Members:

Andre Leon Steve King
Bill Dindorich
Randy Bully

Narrative (include time and location):

1404 - Arrive @ FBQ 435. Begin interval for sample. Site cleared by S.K. FBQ 55 435 006950
1416 - Refusal @ 1' in south perimeter hole
1424 - Refusal @ 10" in center hole, offset 3" NE of center. Refusal RdB
1430 - Refusal @ offset center hole @ 1'
1437 - ^{leave} Abandon site



Daily Weather Conditions: A.M. Sunny mid to high 40's. Lt breeze
P.M. _____

Recorded By RdB QA Checked By Amy Freeman

HTRW DRILLING LOG

PROJECT: Fize & Bombe RV.A.P

INSPECTOR: *J.H.B.*

INDEX NUMBER: *FBR 035*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (C)	REMARKS (D)
	0-1	Ok dir thin, clayey silt, most trace sand, trace gravel to 6" @ 6" change to dir brn silt, trace clay samp. loose. Refusal at 1'	p.d.p.m	n/a	FBR 25.035 / 06 950	Refusal @ 1'
	1	<i>Refusal @ 1'</i>				
	2	<i>Refusal @ 1'</i>				
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

*Ms
12.5.03*

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/27/03 Su M (Tu) W Th F Sa

PAGE 1 OF 1

Task Team Members:

Andre Leon Steve King
Bill Drogstanch
Ronda Parker

Narrative (include time and location):

1300 - Arrive @ FBO #33. Begin sample interval. Site cleared by S.K. FBass #33#06559 (metals & explosives)
 1315 - Refusal between 4" and 6" in perimeter - X/S
 1330 - Begin +/- 3' 1-3" interval ASD
 1349 - Refusal @ 12" 2' in center hole Take FB0506330666 (metals & explosives)
 1355 - Abandon site

~~12-5-03
A.G.~~

Daily Weather Conditions: A.M. _____

P.M. Sunny, lt wind, Low 60's °F

Recorded By Ronda Parker QA Checked By Amy Stromwald

HTRW DRILLING LOG

DISTRICT Louisville

HOLE NUMBER

FBO 433 ⁶⁷

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 Broad
SS 3/8" 5'00"
SS 3/8" 14' over bucket

8. HOLE LOCATION

FBO 433

9. SURFACE ELEVATION

n/a

10. DATE STARTED

10/17/03

11. DATE COMPLETED

10/17/03

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

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

[Signature]

LOCATION SKETCH/COMMENTS

See pg 51

SCALE:

HTRW DRILLING LOG

PROJECT: Fuzz & Booster RV AAP

INSPECTOR: *DLB*

HOLE NUMBER: *FB093368*

SHEET OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0'-1'	yellowish brn clay, trace sand, trace gravel, moist, soft, gravel fine to coarse, below to 6" mottled yellowish brown. <i>Refusal @ 8" in perimeter Center hole to 1' - Same A/A</i>	<i>PID-7</i>		<i>FB05093306550</i>	
	1'-2'	light yellowish brn silty sand, trace gravel fine to coarse, dry. <i>Refusal @ 2'</i>		<i>N/A</i>	<i>FB05093306650</i>	
	2'-3'	<i>Refusal @ 2'</i>				
	3'-4'					
	4'-5'					
	5'-6'					
	6'-7'					
	7'-8'					

*16
12.5.05*

TASK TEAM ACTIVITY LOG SHEET

69

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:

Andre Leon Steve King
Bill Probst
Ronda B. King

Narrative (include time and location):

1415 - Arrive @ FBQ 028 ^{observed by S.K.} Begin sample interval FBQ 028 0555
1430 - Begin center hole QA metals and explosives
1455 - Begin ^{loop} 1-3' interval. FBQ 50 028 0565 for metals/explos
1515 Abandon site.

12:45 p.m.
7.6.

Daily Weather Conditions: A.M. _____

P.M. Sunny, Lt Brz., M. of 60°F

Recorded By R.B.B.

QA Checked By Amy Greenward

HTRW DRILLING LOG

PROJECT: Fire & Booster BVAAP

INSPECTOR: R. Bailey

HOLE NUMBER: FBQ-28

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPICE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (D)	REMARKS (E)
	0-1	10 olive brn clayey silt, trace gravel, trace sand, moist to 6" @ 6" Δ light yellow olive brn silt, trace clay, trace gravel. Med dense, med.	710-φ	n/a	FBQ55028005550	organic material
	1-3	1' to 2' 6" Same as above @ 2' 6" Δ to med brn silt, very dense, damp, trace gravel. Mottled gray.	6 p 110m	n/a	FBQ50028005650	
	3'		3'			
	12-4-03					

TASK TEAM ACTIVITY LOG SHEET

73

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/07/03 Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Andy Leon _____ Steve King _____
Bill Probst _____
Randy Bely _____

Narrative (include time and location):

1520p - Arrive @ FBR 044. Cleared by SK.
Begin sample interval. Refusal up to 8" perimeter
1540p - Begin center hole for nicks.
1545p - Refusal center hole @ 1'.
1555 - Abandon ^{LEFT} site AG

Daily Weather Conditions: A.M. _____

P.M. Sunny LT B73 Mid 60s

Recorded By AB

QA Checked By Amy Freeman

HTRW DRILLING LOG

DISTRICT Louisville

HOLE NUMBER

FBR 0445

1. COMPANY NAME: **SpecPro, Inc.**

2. DRILL SUBCONTRACTOR

n/a

Sheet of L

3. PROJECT **Fuze & Booster/RVAAP**

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

5. NAME OF DRILLER

Andie Loom

6. MANUFACTURERS DESIGNATION OF DRILL

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

*SS log
SS screen
SS 3/4 auger*

8. HOLE LOCATION

FBR 044

9. SURFACE ELEVATION

n/c

10. DATE STARTED

10/7/03

11. DATE COMPLETED

10/7/03

12. OVERBURDEN THICKNESS

n/c

15. DEPTH GROUNDWATER ENCOUNTERED

n/c

13. DEPTH DRILLED INTO ROCK

n/a

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED

n/c

14. TOTAL DEPTH OF HOLE

1'

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

Swact. log

22. DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

[Signature]

LOCATION SKETCH/COMMENTS

See pg 71

SCALE

HTRW DRILLING LOG

HOLE NUMBER: *PBA 444*

76

PROJECT: Fuse & Booster RVAAP

INSPECTOR: *[Signature]*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<i>0-1'</i>	<i>DK brn siltstone of clay, fine gravel, oxidized particles, gravels up to coarse grain. Refusal @ 1'</i>	<i>0.0 ppm</i>	<i>n/a</i>	<i>FBA 444 9087</i>	<i>0.0 fine material</i>
		<i>Refusal @ 1'</i>				
		<i>Refusal</i>				
		<i>12.5.03</i>				

TASK TEAM ACTIVITY LOG SHEET

77

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 12-8-03 Su M Tu (W) Th F Sa

PAGE 1 OF 1

Task Team Members:

Andre Leon

Bill Nolsbender

Chandler Canell

Narrative (include time and location):

09:37 Arrive at location FBQ-132

09:38 Start sampling for a full suite at the
0-1 interval Explosives/PCBs-Pesticides/TAC/Asbestos
Cr+4, Propellants, SWC, VOC's
PCBs-030-030-030-3010:10 Start sampling the 1-3 interval for explosives
and TAC metals FBQ50-030-030-030 and
take a split sample10:18 Finish sample after refusal of rock
at 1.9". Go to next holeAG
R.S. #3

Daily Weather Conditions: A.M.

Sunny, P. Cloudy, mid-upper 50's

Recorded By

Chandler Canell

QA Checked By

Amy Freeman

HTRW DRILLING LOG

DISTRICT Louisville

HOLE NUMBER

FBQ-030

79

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 / SS 3/4" diameter bucket

8 HOLE LOCATION: FBQ-030

9 SURFACE ELEVATION: n/a

10 DATE STARTED: 10/8/03

11 DATE COMPLETED: 10/8/03

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: 1.9'

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 %

22 DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

23 SIGNATURE OF INSPECTOR

C. Canal

LOCATION SKETCH/COMMENTS

SCALE:

not to scale

FBQ-030
12/4/03
FBQ-035



HTRW DRILLING LOG

PROJECT: Fuse & Booster RV LAP

INSPECTOR: C. Can

HOLE NUMBER: FBQ-032

80

SHEET 1 OF 1

ELEV (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (I)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0	top organic, med dk brown silty-clay trace sand pits, moist	0.9 ppm	n/A	FBQ-032 (see)	roots, stems throughout
	1	med. H yellow brown soft moist, silty-clay, subv. pebbles grading into small holes color change	0.9 ppm	n/A	FBQ-032 (see) + spit	
	1.9	Refusal 1.9"				
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

As
12.5.03

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10-8-03 Su M Tu (W) Th F Sa

PAGE 1 OF 1

Task Team Members:

Anche Leon

Charles Canall

Bill Probst

Narrative (include time and location):

10:28 Arrive at location FBQ-029, Steve Cloud prior

10:30 Start to sample (FBQs-029-0057-50) for
explosive, Al metals, Cr+6, PCB/Pesticides, VOC,
SVOC, Propellants at the 0-1 interval

10:54 Start the 1-3 interval after closed,
for explosives and metals (FBQs-029-0058-50)
at the 1-3 and take the duplicate
FBQs-029-0067-50

11:00 Refusal at 1.8", finish sample

11:05 Go to next hole

~~12.5.03~~

Daily Weather Conditions: A.M.

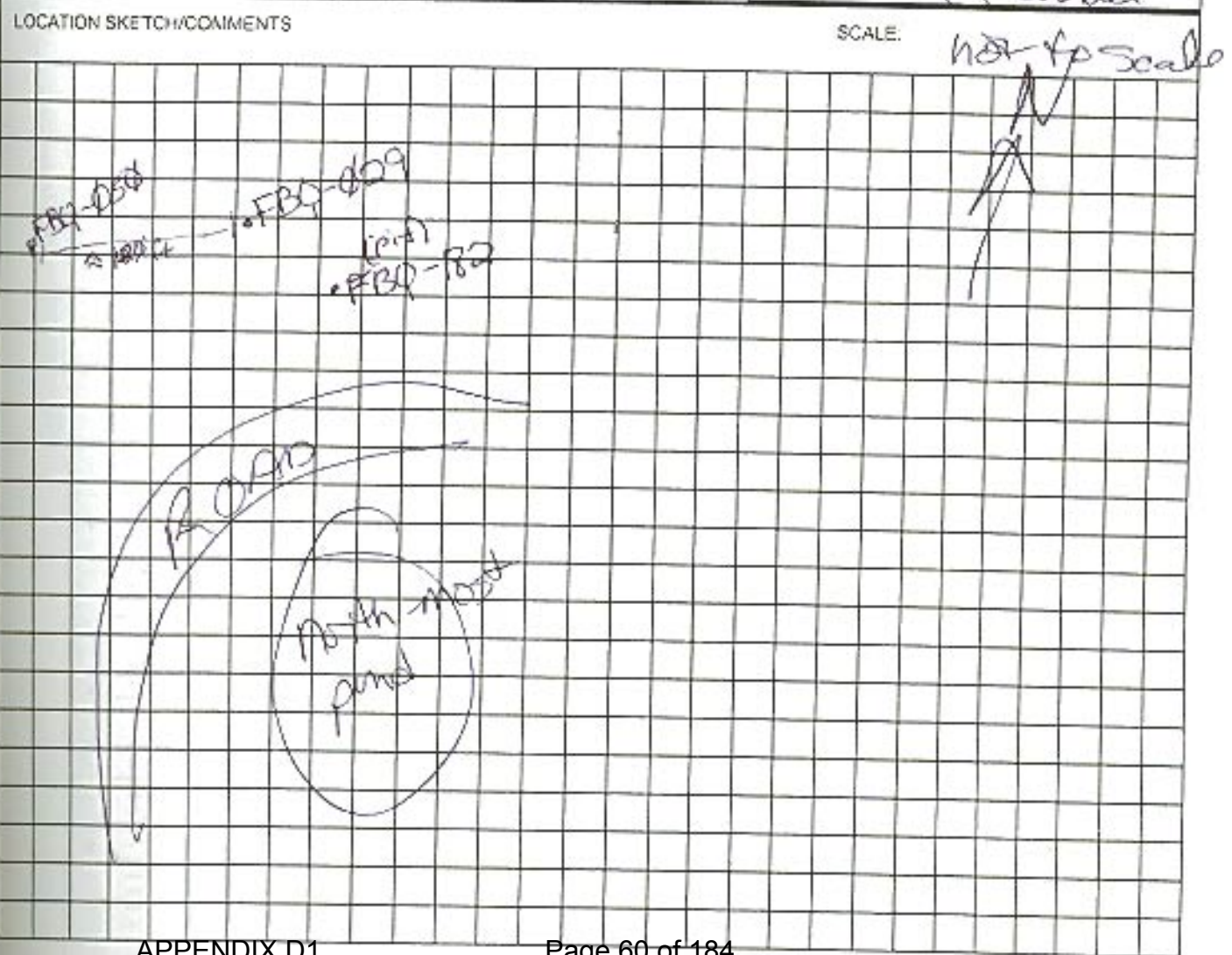
Sunny, low 60's

Recorded By Charles Canall P.M.

QA Checked By

Amy Greenwood

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER: FBQ-029	
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 n/a		
5. NAME OF DRILLER: Andre Leon			6. MANUFACTURERS DESIGNATION OF DRILL: n/a		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 3 1/2" hole / 1" stem 3 1/2" SD with a aligner bucket		8. HOLE LOCATION: FBQ-029			
			9. SURFACE ELEVATION: n/a		
12. OVERBURDEN THICKNESS: n/a		10. DATE STARTED: 4/8		11. DATE COMPLETED: 4/8	
13. DEPTH DRILLED INTO ROCK: n/a		15. DEPTH GROUNDWATER ENCOUNTERED: n/a			
14. TOTAL DEPTH OF HOLE: 1.8"		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/a			
		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/a			
18. GEOTECHNICAL SAMPLES:		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES: n/a					
20. SAMPLES FOR CHEMICAL ANALYSIS: See act. log		VOC		METALS	
		OTHER (SPECIFY)		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE: BACKFILLED ✓		MONITORING WELL		OTHER (SPECIFY)	
				21. TOTAL CORE RECOVERY: n/a	
				23. SIGNATURE OF INSPECTOR: C. Canall	



HTRW DRILLING LOG

HOLE NUMBER **FBQ 029**

84

PROJECT: Fuze & Booster RVAAP

INSPECTOR **D. Cannell**

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO IF-	REMARKS (G)
		trace top of g. dunes med brown, silty ^{clay} sand trace sand, moist, soft	ØØ ppm	N/A	FBQ -0057 (Full)	roots, stems
		graded into more of a sand than just trace	ØØ ppm	N/A	FBQ-009 ØØ58 -0367 (Dup)	
		Refusal at 1.8				
		AB 12.5.03				

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11-28-03 Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

- Andie Leon
- Bill Dialsbaugh
- Charli Carroll

Narrative (include time and location):

11:35 Go to location FBQ-030 - Stevo clean prior

11:38 Sample explosives and metals at the 0-1 (FBQ-030-0159). Also take a split and a duplicate (FBQ-030-0308-50)

Refusal in 3 explosive holes and center, need to offset center hole approximately 5" to the east. (Center hole refusal @ 3")

6" Refusal in one explos. hole

4.5" Refusal, 3" Refusal, dig 4th explos. hole

12:11 Start the 1-3' interval (FBQ-030-01100-50) and take a split for explosives & metals

Refusal @ 1.9"

12:18 Finish sample go to next location - go to lunch

Daily Weather Conditions: A.M.

Sunny, mid - 100's

P.M.

Recorded By

Charli Carroll

QA Checked By

Amy Greenwood

HTRW DRILLING LOG		DISTRICT Louisville	HOLE NUMBER FBQ-630 ⁸⁷
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR n/a	DEPT 10-1

3. PROJECT: Fuze & Booster/RVAAP	4. LOCATION: Fuze & Booster Quarry Landfill/Pond
----------------------------------	--------------------------------------------------

5. NAME OF DRILLER: <i>Quincy Loan</i>	6. MANUFACTURERS DESIGNATION OF DRILL: n/a
----------------------------------------	--------------------------------------------

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: <i>22" bowl / spoon 22 3/2" auger bucket</i>	8. HOLE LOCATION: FBQ-030
------------------------------------------------------------------------------------------------------------	---------------------------

9. SURFACE ELEVATION: n/a

10. DATE STARTED: <i>10/8/03</i>	11. DATE COMPLETED: <i>10/8/03</i>
----------------------------------	------------------------------------

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: <i>1.9"</i>	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: <i>see act. log</i>	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
-----------------------------------------------------------	-----	--------	-----------------	-----------------	-----------------	---------------------------

22. DISPOSITION OF HOLE: <i>n/a</i>	BACKFILLED <input checked="" type="checkbox"/>	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR: <i>C. Canale</i>
----------------------------------------	------------------------------------------------	-----------------	-----------------	-------------------------------------------------

LOCATION SKETCH/COMMENTS	SCALE:
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<p><i>Go to page 83 to see location of FBQ-030 in the Soil logbook #1</i></p>	
-------------------------------------------------------------------------------	--

HTRW DRILLING LOG

HOLE NUMBER: ~~FBQ-030~~ 88

PROJECT: Fure & Binnet RVAAP

INSPECTOR: C. Canall

SHEET 1 OF 1

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE (OR CORE BOX)	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	3"	top of orange-tan soil / reddish brown soil, silty sand reddish brown soil, silty sand reddish brown, silty sand sand, pebbles 3/8", rounded to sub-angular, well, loose	6φ	n/A	FBQ-030 030 + split - 3/8"	Refusal @ 6" depth Refusal @ 4.5 dis. hole and 3" refusal - refusal @ 3" in center - off-set new center hole
	1'	Graded into more sand		n/A	FBQ-030 030 + split	
	10.9'			Refusal 10.9"		
				As 12.5.03		

TASK TEAM ACTIVITY LOG SHEET

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

Date (mm/dd/yy): 10-9-03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:
Steve King Bill Drolsbach
Charles Canall
Randa Bailey

Narrative (include time and location):

~~0940~~: Arrive on location # FBB-031
0945 Starting sample (FBB-031-0370-30)
for explosives and metals and
complete a deep. sample (FBB-031-0370-50)
at the 0-1 interval also take split
center hole ~~split~~ refusal at 6" - ~~set~~
5" over to North -
Second center hole refusal at 9"
10:17 Finish up and go to the next sample due
to refusal on center hole - unable to
take 1-3 sample

12:15 P.M.
P.G.

Daily Weather Conditions: A.M. Sunny
Recorded By Charles Canall P.M. QA Checked By Amy Howard

HTRW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
FBQ-031

91

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: Steve Kins

6. MANUFACTURERS DESIGNATION OF DRILL: n/a

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT
SS bowl/spoon
SS 3 1/2" dia auger bucket

8. HOLE LOCATION: FBQ-031

9. SURFACE ELEVATION: n/a

10. DATE STARTED: 10/9/03 11. DATE COMPLETED: 10/9/03

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

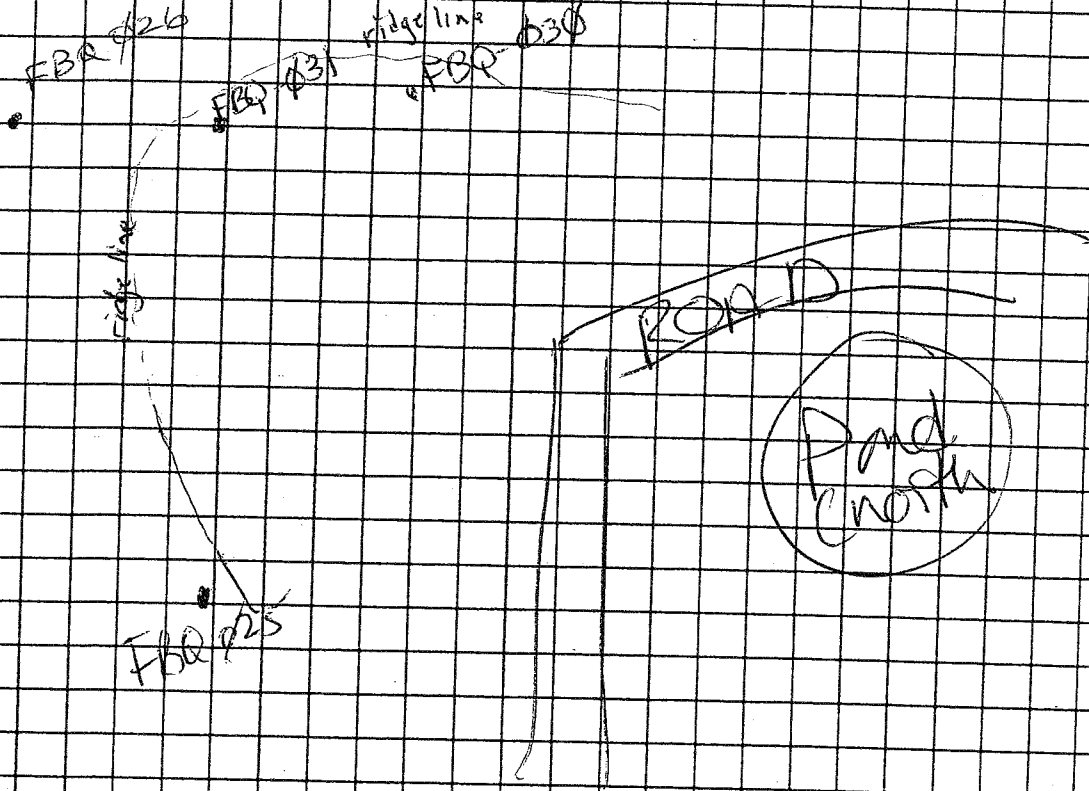
14. TOTAL DEPTH OF HOLE
1" in explosive hole
9" in 2nd center hole

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 %
See act. log						
22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR		
n/a	<input checked="" type="checkbox"/>			C. Canale		

LOCATION SKETCH/COMMENTS

SCALE: Not to scale



HTRW DRILLING LOG

HOLE NUMBER: **F80-131**

PROJECT: **Fuze & Booster RVAAP**

INSPECTOR: **C. Canall**

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

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GIDTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0	dk. olive brown, sandy silt, loose, some gravel, fine to coarse, dry (red colored sand)	φφ ppm	n/a	F80-131-03 0001-50 Dug - 031 037452	10" refusal on top 6" refusal Center hole refusal 5" 070 set to 10" Second refusal in center hole at 9"
	1	yellow brown, sandy silt fine to coarse, dry (red color, trace clay)				
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

AG
 12-05-05

TASK TEAM ACTIVITY LOG SHEET

93

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

Date (mm/dd/yy): 10/09/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Randee Barber _____ Steve King _____
Bill Probst _____ _____
Chantelle Carroll _____ _____

Narrative (include time and location):

1040 - Arrive @ ~~FBB~~ FBQ - 020. Clear ~~BBB~~
by S. King. Begin 0-1' sample interval. FBQ50p26p051 SO
1115 - Begin 1-3' sample. FBQ50p26p052 SO (metals, organics)
1140 - Refusal @ 2' 18", ^{Local} Abandon Site

(This section contains a large diagonal line drawn across the page, with handwritten notes "AG", "12:05", and "03" near the center.)

Daily Weather Conditions: A.M. Sunny, H. breeze 52° F

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

HTRW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
FBQ-026
SHEET **1 of 1**

1. COMPANY NAME: **SpecPro, Inc.**

2. DRILL SUBCONTRACTOR
n/a

3. PROJECT: **Fuze & Booster/RVAAP**

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

5. NAME OF DRILLER: **Bill Drolshank**

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

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT:
**SS Spinning
SS hand
SS 3 1/2" Auger bit**

8. HOLE LOCATION: **FBQ 026**

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

10. DATE STARTED: **10/9/03** 11. DATE COMPLETED: **10/9/03**

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**

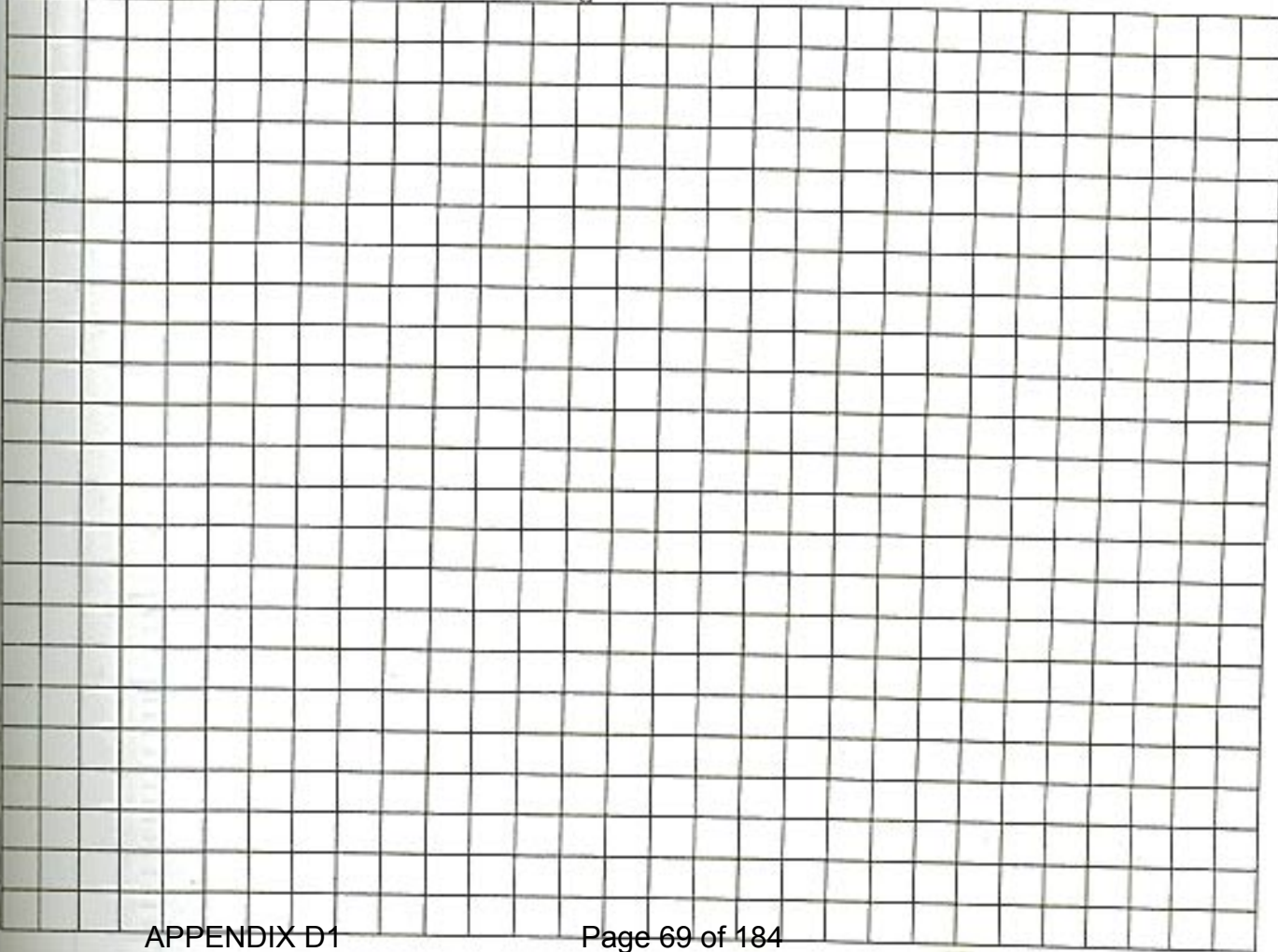
14. TOTAL DEPTH OF HOLE: ~~2'8"~~ **2'8"**

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 %
See att. Log						
22. DISPOSITION OF HOLE	<input checked="" type="checkbox"/> BACKFILLED	<input type="checkbox"/> MONITORING WELL	OTHER (SPECIFY)		23. SIGNATURE OF INSPECTOR	
					[Signature]	

LOCATION SKETCH/COMMENTS: **SEE Pg 91**

SCALE:



HTRW DRILLING LOG

HOLE NUMBER: FBR 020

PROJECT: Fuse & Booster RVAAP

INSPECTOR: *R. S. B.*

SHEET 1 OF 1

96

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS (D)	GEO TECH SAMPLE OR CORE BOX (E)	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0-1	0-8" dk brn to dk olive brn clayey silt, trace sand, some gravel fine to med. change @ 8" to yellowish brn silty clay, trace sand, some gravel, both moist, soft, plastic	ØØ	n/a	FBR 020 FBR 55 Ø26 Ø451	SO Organic Matter
	1-3	Same A/A: yellowish brn silty clay. Δ @ 1'6" to med. damp yellowish silty clay, w/ orange & gray mottling, some gravel fine to coarse, soft, oxidized particles up to 2'6"	ØØ	n/a	FBR 50 Ø26 Ø452	SO
		Δ @ 2'6" to yellowish silt mottled orange gray; dry, some sand				
		T.D. 2'8"				
<p><i>Refused @ 2'8"</i></p> <p><i>100903</i> <i>R. S. B.</i></p>						

TASK TEAM ACTIVITY LOG SHEET

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

Date (mm/dd/yy): 10/09/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Bill D. D'Alonzo
Ronnie Bally
Chantelle Carroll
Shane King

Narrative (include time and location):

12:40 - Arrive @ FBA - $\phi 25$. Begin interval after Dave clears and take the $\phi 1$ for metals and explosives sample FBA $\phi 25$ - $\phi 50$ $\phi 49$ 50
Refusal in explosive holes @ 6", 3", and 8"
Refusal in center hole for metals @ 10" because not enough dirt to fill the sample jar, and second hole was started and had refusal @ 6"
12:45 Finish sample and go to bldg. for lunch

Daily Weather Conditions: A.M. Sunny, 60° F, Lt Brz SE

Recorded By Chantelle Carroll PM QA Checked By Amy Freeman

HTRW DRILLING LOG

HOLE NUMBER: *FBQ-725*

PROJECT: *Fuze & Booster RVAAP*

INSPECTOR: *[Signature]*

SHEET *1* OF *1*

100

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR LOGS BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	<i>0-1</i>	<i>6-10" olive brown silty sand, some gravel, fine to coarse, loose poorly sorted, trace clay</i>	<i>Ø. Open</i>	<i>n/A</i>	<i>FBQ-725-01</i> <i>FBQ-725-01</i> <i>7/14/95</i>	<i>Refusal @ 6"</i> <i>3"</i> <i>8"</i> <i>Center holes</i> <i>explosives holes</i>
	<i>10"</i>					<i>Refusal @ 10"</i> <i>Refusal @ 6"</i> <i>(to get around dirt in Au jars)</i> <i>Center holes</i>
	<i>1</i>					
	<i>2</i>					
	<i>3</i>					
	<i>4</i>					
	<i>5</i>					
	<i>6</i>					
	<i>7</i>					
	<i>8</i>					
	<i>9</i>					
	<i>10</i>					

[Signature]
160993

TASK TEAM ACTIVITY LOG SHEET

101

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 12/19/03 Su M Tu W (Th) F Sa

PAGE 1 OF 1

Task Team Members:

Randa Bailey

Steve King

Andre Leon

Bill Drobkaugh

Narrative (include time and location):

1415 - Arrive @ FBQ #21. Cleared by Steve K.
Begin sample interval FBQ55 @ 21, 004150 + FBQ55 @ 21, 0032350
P-1 + Dupes for Exp + Mat.

1445 - Begin 1'-3' interval - cleared by
S. King. FBQ50 @ 21, 004250 + FBQ50 @ 21, 0037450 (Dup) Refused @ 2

1503 - End interval and abandon site

~~12-19-03
A.G.~~

Daily Weather Conditions: A.M. _____

P.M. Partly sunny, mid 60's F

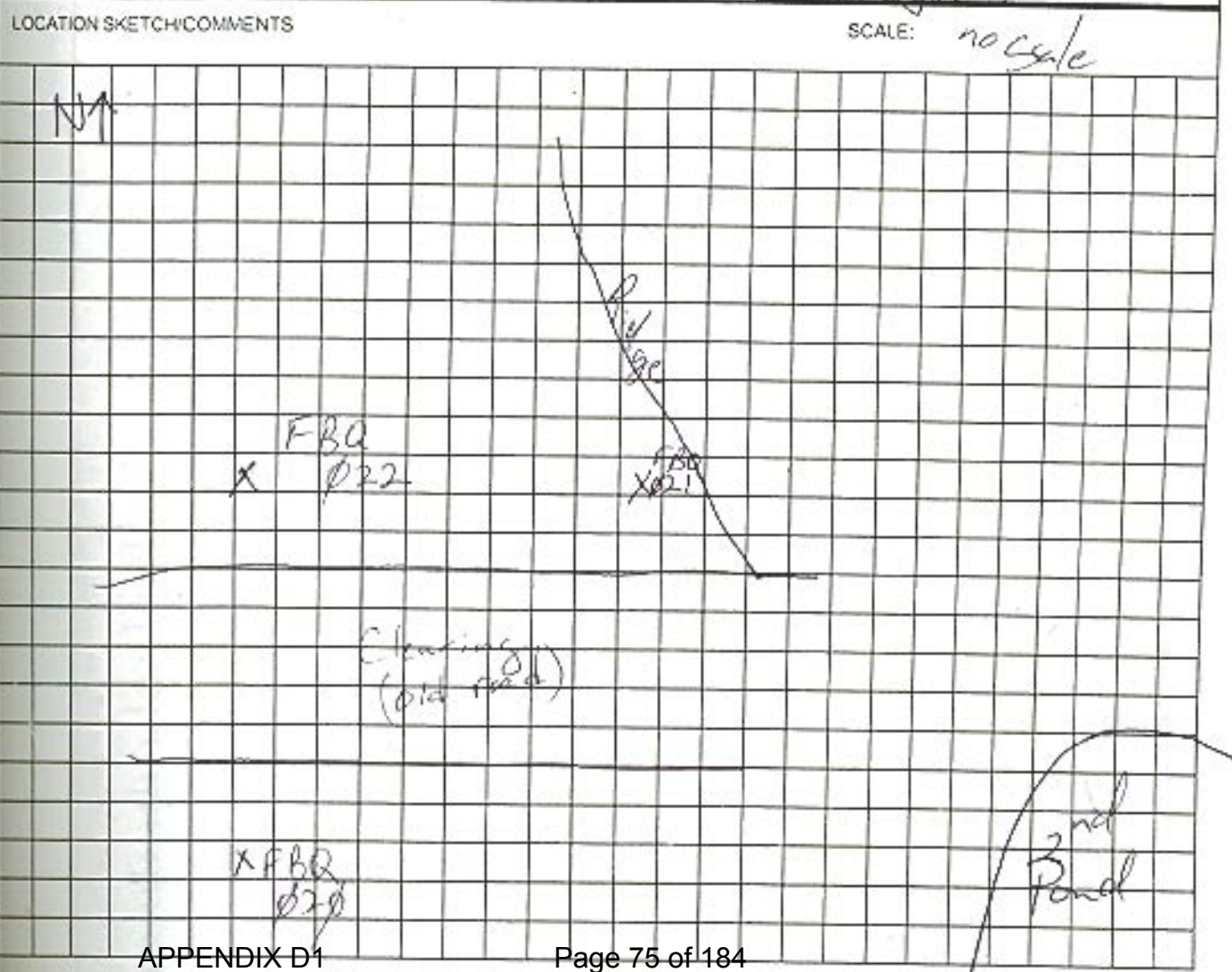
Recorded By

RBB

QA Checked By

Amy Greenwald

HTRW DRILLING LOG		DISTRICT Louisville		HOLE NUMBER FBQ 021	
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 Bill Dredgeband			6. MANUFACTURERS DESIGNATION OF DRILL n/a		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT SS Spinn SS bit SS 3 1/2 Auger		8. HOLE LOCATION FBQ 021			
		9. SURFACE ELEVATION n/a			
		10. DATE STARTED 10/09/03		11. DATE COMPLETED 10/09/03	
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 n/a 2' FBQ		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) n/a			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY %	
22. DEPOSITION OF HOLE		23. SIGNATURE OF INSPECTOR			



HTRW DRILLING LOG

HOLE NUMBER FBQ021

104

PROJECT: Fuse & Booster RVAAP

INSPECTOR *[Signature]*

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)	
	0-1	Olive brn. silt, clay, sp Trace gravel, trace sand Soft, damp to B, A to yellow brn clayey Silt trace sand, trace gravel, fine to med, damp soft. A @ 1'6" to sand A/A Mod dense clayey silt to 2 ft	PID = 0.0ppm			<i>[Signature]</i>	
	1-2				FBQSS021064150 Dup FBQSS021037350		
	2-3				FBQ50021064250 Dup FBQ50021037450	<i>[Signature]</i>	
	2	<u>Refusal @ 2'</u>					
	3-10	11/19/03 [Signature]					

TASK TEAM ACTIVITY LOG SHEET

105

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/09/03 Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Andre Leon _____ Steve King _____
Bill Dredshaupt _____
Kendrick Bailey _____

Narrative (include time and location).

1505 - Arrive @ FBRQ - 022. ^{Cleared by SK} Begin sample interval 0-1'. Exp. split taken ^{Met splitter taken}
1535 - Begin 1'-3' interval. Begin sample and split. ^{Cleared by S.K.}
~~1600~~ _____
1555 - ^{Lease} Abandoned Site _____

Daily Weather Conditions: A.M. _____

P.M. Partly Sunny

Recorded By AKB QA Checked By Amy Hennessey

HTRW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
FBQ #22 107

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

Bill Drostbaugh

6. MANUFACTURERS DESIGNATION OF DRILL

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

SS bowl
SS spoon
SS 1 3/4 auger

8. HOLE LOCATION: FBQ #22

9. SURFACE ELEVATION: n/c

10. DATE STARTED: 10/09/03

11. DATE COMPLETED: 10/09/03

12. OVERBURDEN THICKNESS: n/c

15. DEPTH GROUNDWATER ENCOUNTERED: n/c

13. DEPTH DRILLED INTO ROCK: n/a

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)

21. TOTAL CORE RECOVERY %

22. DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

LOCATION SKETCH/COMMENTS

See Pg 103

SCALE:

HTRW DRILLING LOG

FILE NUMBER FBQ 022

108

PROJECT: Fuse & 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'	0-6" Olive brn sandy silt dump, trace gravel, trace clay. Fine to med grain. A @ 6" to clayey silt, yellow brn, mottled gray/orange firm.	P10-φ4mm	FBQ55	0220043	SO + <u>Split</u>
	1'-3'	Same as yellow brn mottled orange and gray, firm. dump. Clayey silt.	↓		FBQ50 φ22 φ4450	+ <u>split</u>
	3'	<div style="font-size: 2em; font-family: cursive;"> [Signature] 10/29/03 </div>				

TASK TEAM ACTIVITY LOG SHEET

109

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 12/6/03 Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Andy Lee

Steve King

Bill Drobinski

Randy Bely

Narrative (include time and location):

1600 - Arrive @ FBQ #20. Cleared by
Steve King. Begin sample interval
D-1. Duplicate exp 0-1', dust metals
1635 1-3' interval begins Dup. metals/Exp
taken with wet/Exp sample
1655 End interval and ^{leave} abandon site

FBQ 50 #20 #063750
FBQ 50 #20 #0637150
FBQ 50 #20 #064050
FBQ 50 #20 #0637250

12-05-03
AG

Daily Weather Conditions: A.M. _____

P.M. Cloudy, 68° F

Recorded By [Signature]

QA Checked By Amy [Signature]

HTRW DRILLING LOG

HOLE NUMBER: *FBQ-020* 112
 SHEET 1 OF 1

PROJECT: Fuze & Booster RVAAP

INSPECTOR: *[Signature]*

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (D)	REMARKS (E)
	0-1	<i>DK olive brn sandy silt. Trace gravel plus up to 8". A to yellow brn sandy silt, trace clay, trace gravel. material is damp & loose</i>	<i>PID: 0.4 ppm</i>		<i>FBQ55020003950</i>	<i>E. hole 4' Refusal in perimeter</i>
	1-3	<i>Same A/A yellow brn sandy silt trace clay + mottled gray. Med dense</i>	<i>0.8 ppm</i>		<i>FBQ50020004450</i> <i>Dup FBQ500200037250</i>	
	3	<i>3'</i>				
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					

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100903

TASK TEAM ACTIVITY LOG SHEET

113

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

DELIVERY ORDER: 0012

Date (mm/dd/yyyy): 10 10 03 Su M Tu W Th (F) Sa

PAGE 1 OF 1

Task Team Members:

Ronda Bailey Steve King
Andre Leon
Bill Drotshauer

Narrative (include time and location):

0900 - Arrive @ FBQ 024. Cleared by Steve K.
0905 - Begin sample interval 0-1 and ^{FOR 02 464730} ^{FOR 02 4637550} duplicates for explosives and Refusal ↑ 9"
0920 - Refusal @ 1' in center hole.
Retrieve Sample metals & Duplicate.
0930 - ^{Leaving} Abandon site.

AK
12:05:03

Daily Weather Conditions: A.M. Overcast, 58°F, no breeze, foggy.

P.M. _____

Recorded By RHB

QA Checked By Amy Heanward

HTRW DRILLING LOG

HOLE NUMBER: *FBQ 134* 116

PROJECT: *Furc & Booster RVAAP*

INSPECTOR: *R. Bailey*

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	<i>Yellow brn clayey silt mottled orange and gray. Some gravel fine to coarse trace sand (fine). Soft, loose</i>	<i>0.0</i>		<i>FBQ 134 10475 * FBQ 13424 13750</i>	<i>Refusal @ 8" N @ 5" S @ 9" W Per perimeter logs Refusal @ 1' center hole</i>
	1	<i>Refusal @ 1'</i>				
	2	<i>Refusal @ 1'</i>				
	3	<i>Refusal @ 1'</i>				
	4	<i>Refusal @ 1'</i>				
	5	<i>Refusal @ 1'</i>				
	6	<i>Refusal @ 1'</i>				
	7	<i>Refusal @ 1'</i>				
	8	<i>Refusal @ 1'</i>				
	9	<i>Refusal @ 1'</i>				
	10	<i>Refusal @ 1'</i>				

HTRW DRILLING LOG

DISTRICT Louisville

HOLE NUMBER
FBQ #49

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

7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT:
SS Barrel
SS Auger
SS Spoon

8 HOLE LOCATION: FBQ #49

9 SURFACE ELEVATION: n/c

10 DATE STARTED: 10/14/03

11 DATE COMPLETED: 10/16/03

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: 1'

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

18 GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED			19 TOTAL NUMBER OF CORE BOXES
	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	
20 SAMPLES FOR CHEMICAL ANALYSIS See act. Log						21 TOTAL CORE RECOVERY %
22 DISPOSITION OF HOLE	<input checked="" type="checkbox"/> BACKFILLED	<input type="checkbox"/> MONITORING WELL	OTHER (SPECIFY)	23 SIGNATURE OF ASSOCIATE <i>[Signature]</i>		

LOCATION SKETCH/COMMENTS

See pg 71

SCALE: no scale

HTRW DRILLING LOG

HOLE NUMBER: FBQ 049

120

PROJECT: Fire & Booster RVAAP

INSPECTOR: *J. [Signature]*

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	NENOSALE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0-1	Olive brown silty to silty sand, loose, moist. Sand is also reddish. Trace clay, also top sand, some gravel. Fine to coarse grain.			FBQSS049 069750 FBQSS049 057050	Refusal of perimeter holes 6" E 5" W 5" N 6" center hole
	1	<u>Refusal</u>				
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	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): 10/10/03 Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Ronda Bailey

Steve King

Andre Leon

Bill Drolsbach

Narrative (include time and location):

1030 - Arrive @ FBQ #27. Cleared by S. King
Begin 0-1" sample interval. Refusal @
6" in perimeter FBQ #27 009/350

1035 Refusal @ 6" in perimeter holes Retrieve
sample and split samples for exp. ~~SS~~

~~1100 - Abandon Site~~

1045 Refusal @ 5" center hole. Retrieve
sample and split for metals

1105 - ~~Abandon Site~~

12:05-03
A.G.

Daily Weather Conditions: A.M.

Partly cloudy, 60°F, H brz

P.M.

Recorded By

[Signature]

QA Checked By

Amy Greenwood

HTRW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER:
FBQ 027
SHEET **1 of 1**

123

1 COMPANY NAME: SpecPro, Inc.

2 DRILL SUBCONTRACTOR: *n/a*

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

*SS Spoon/Hand
SS 3/4" Auger*

8 HOLE LOCATION: *FBQ 027*

9 SURFACE ELEVATION: *n/c*

10 DATE STARTED: *10/10/03*

11 DATE COMPLETED: *10/16/03*

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: *6"*

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

18 GEOTECHNICAL SAMPLES

DISTURBED

UNCISTURBED

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 71

SCALE:

HTRW DRILLING LOG

HOLE NUMBER: *FBA 027*

PROJECT: Fire & Booster R.V.A.P

INSPECTOR: *[Signature]*

SHEET 1 OF

124

ELEV. (ft)	DEPTH (ft)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0-6"	<i>Yellowish br sandy clay, trace glauca, fine to med. grain moist, plastic, soft.</i>	<i>0.6 ppm</i>	<i>n/a</i>	<i>FBS 55027 #5350 - split</i>	<i>Refusal @ 6" N } perimeter 6" S } holes 6" E } 5" center hole</i>
		<i>Refusal @ 6"</i>				
		<i>[Large scribbled signature]</i>				
		<i>161603</i>				

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10 14 03 Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Andre Lea Steve King
Ronda Bailey
Bill Drottsbaugh

Narrative (include time and location):

1115 : Arrive @ FBR 023. Begin sample interval 0-1'. Retrieve met. exp samples & dupes. FBR 55 023 0
FBR 55 023 0 376 5
 1200 : Begin 1-3' interval. Retrieve met/exp sample and dupes. Cleared by S. King
 1215 : ^{leave} Abandon site FBR 50 023 0 46 50
FBR 50 023 0 377 50

(This section of the log sheet is crossed out with a large diagonal line.)

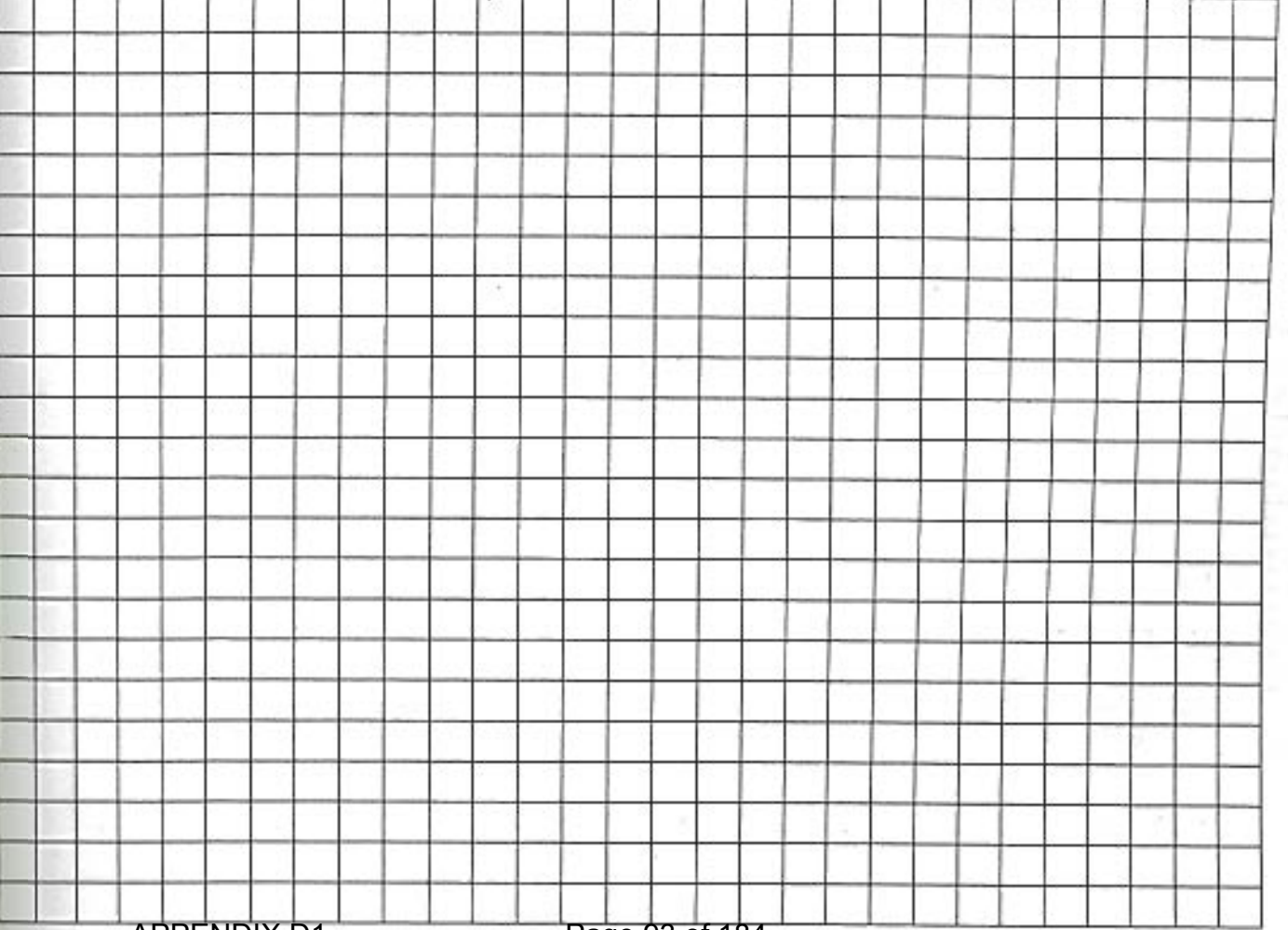
Daily Weather Conditions: A.M. P. Cloudy 67° F, 14 pre

P.M.

Recorded By Roll B QA Checked By Amy Greenwood

HTRW DRILLING LOG		DISTRICT Louisville		HOLE NUMBER <i>FBR 023</i>	
1. COMPANY NAME <i>SpecPro, Inc.</i>		2. DRILL SUBCONTRACTOR <i>n/a</i>		SHEET <i>1</i> of <i>1</i>	
3. PROJECT <i>Fuze & Booster/RVAAP</i>			4. LOCATION <i>Fuze & Booster Quarry Landfill/Pond</i>		
5. NAME OF DRILLER <i>Andre Jean</i>			6. MANUFACTURERS DESIGNATION OF DRILL <i>n/a</i>		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>SS auger SS pump SS auger</i>			8. HOLE LOCATION <i>FBR 023</i>		
			9. SURFACE ELEVATION <i>n/a</i>		
			10. DATE STARTED <i>10-16-03</i>		11. DATE COMPLETED <i>10-14-03</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>			14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <i>n/a</i>		
14. TOTAL DEPTH OF HOLE <i>n/a 3'</i>			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <i>n/a</i>		
16. 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)
22. DISPOSITION OF HOLE <i>See act. log</i>		BACKFILLED <input checked="" type="checkbox"/>	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY <i>0</i>
					23. SIGNATURE OF INSPECTOR <i>[Signature]</i>

LOCATION SKETCH/COMMENTS *See pg 71* SCALE: *no scale*



HTRW DRILLING LOG

HOLE NUMBER: *FBQ #23*

PROJECT: *Fuze & Booster/RVAAP*

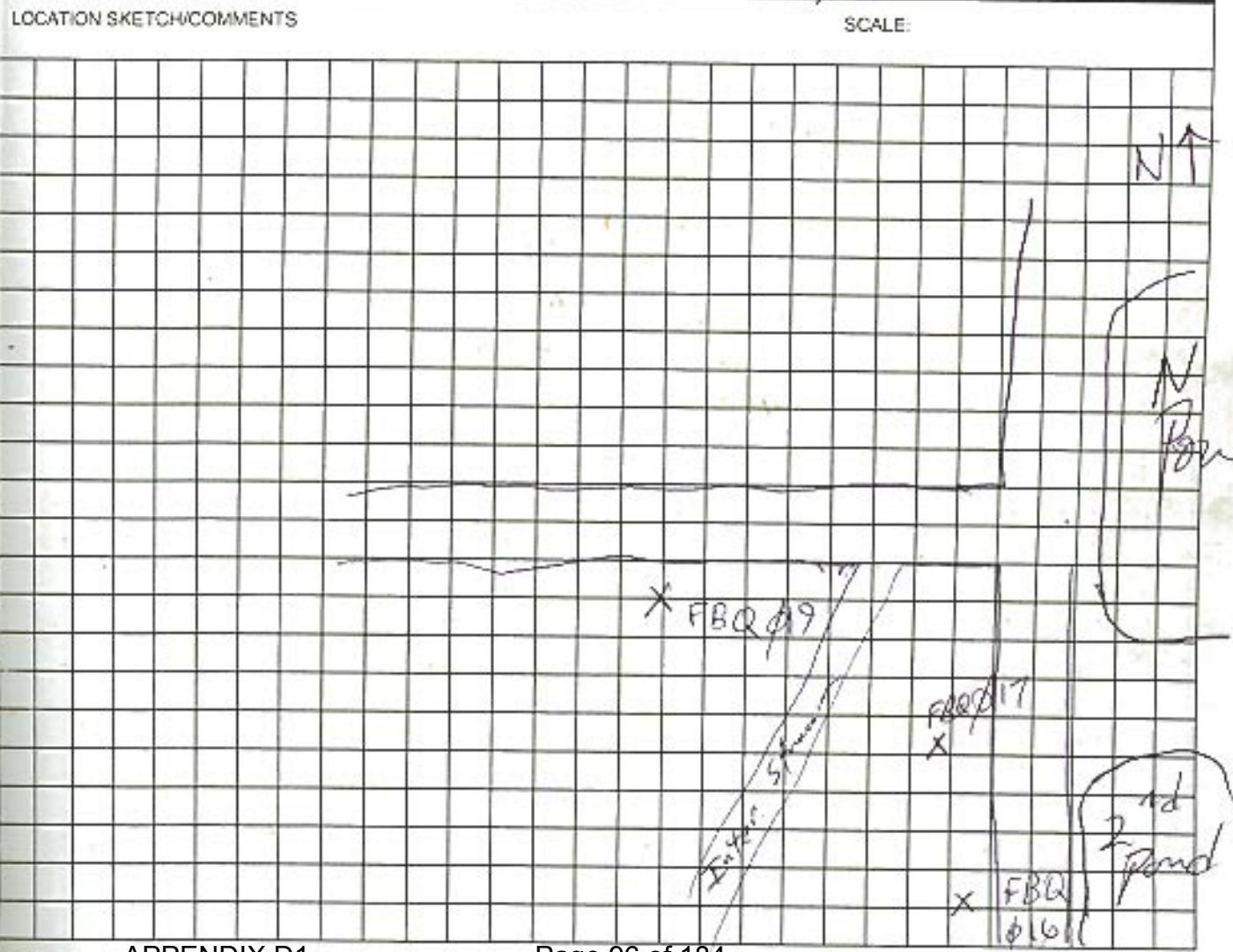
INSPECTOR: *[Signature]*

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)
	<i>0-1'</i>	<i>Yellow tan sandy silty, trace clay, some gravel, fine to coarse. Loose, damp, mottled gray.</i>	<i>0.0</i>			<i>Refused</i> <i>FBQ 55623104550</i> <i>FBQ 55623037650</i> <i>Openly material</i>
	<i>1-3'</i>	<i>Same A/A up to 2', A @ 2' to yellow brown silty sand. Loose, some gravel fine to med. dry-damp</i>	↓		<i>FBQ 56623004650</i> <i>FBQ 56623637750</i>	
	<i>3'</i>					
	<i>4'</i>					
	<i>5'</i>					
	<i>6'</i>					
	<i>7'</i>					
	<i>8'</i>					
	<i>9'</i>					
	<i>10'</i>					

[Large handwritten signature]

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBQ #19	
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 Leo			6. MANUFACTURERS DESIGNATION OF DRILL: n/a		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: SS Spoon SS Hand SS 3/4" Auger		8. HOLE LOCATION: FBQ #19		9. SURFACE ELEVATION: n/a	
12. OVERBURDEN THICKNESS: n/c		10. DATE STARTED: 10/3/05		11. DATE COMPLETED: 10/13/05	
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/a			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY %	
22. DISPOSITION OF HOLE		VOC		METALS	
BACKFILLED <input checked="" type="checkbox"/>		OTHER (SPECIFY)		OTHER (SPECIFY)	
MONITORING WELL <input type="checkbox"/>		OTHER (SPECIFY)		OTHER (SPECIFY)	
				23. SIGNATURE OF INSPECTOR R. [Signature]	



HTRW DRILLING LOG

HOLE NUMBER: F10-D19

132

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: R. Bailey

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0-1'	Olive brn clayey silt up to 6" loose, moist, trace sand, trace gravel (fine to coarse grain). Δ @ 6" to yellow brn clayey silt, some sand fine grain damp, loose, some orange mottling.	PID: 244		FBR 010003750	Refusal @ 6" N 6" E
	1-3'	Yellow Brn clay silt, some sand, some gravel fine to coarse, damp, loose, orange and gray mottling. Some white & red powder grains (oxidized). Between 2'0" & 3'.			FBR 010003850	Refusal @ 3'
	3-4'	Refusal @ 3'				
	4-11'					

TASK TEAM ACTIVITY LOG SHEET

133

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/13/03 Su M Tu W Th F Sa PAGE 1 OF 1

Task Team Members:

Andee Leon
Ronda Bailey
Steve King
Bill Drottschugh
Char-telle Carroll

Narrative (include time and location):

1430 - Arrive @ FBQ #17. ^{cleared by S. King} Begin Sample interval ^{FBQ50#17043350}
1435 - Refusal @ N Perimeter hole: 0" Take full site. @
1445 - Begin interval 1-3. Retrieve sample
for exp/mat. ^{FBQ50#170434}
1450 - Stop interval. Abandon site.

AG
12:05:03

Daily Weather Conditions: A.M. Sunny. High 59°F

P.M.

Recorded By [Signature] QA Checked By [Signature]

HTRW DRILLING LOG

HOLE NUMBER: *FBR 017*

136

PROJECT: Fuze & Booster RVAAP

INSPECTOR: *[Signature]*

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0-1	Olive Ben clayey silt same sand, trace gravel loose, moist. Fine med grain gravel.	7-12-0-10		FBR550171013008	8" Refusa # N Perimeter hole
	1-3	Same A/A. Δ@ 1'8" to a yellow brown clayey silt. Some gravel fine-coarse trace sand. loose, damp!			FBR50617603450	
	3					3'
	5					<i>[Signature]</i>
	6					14 13 103
	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): 1/13/03 Su (M) Tu W Th F Sa

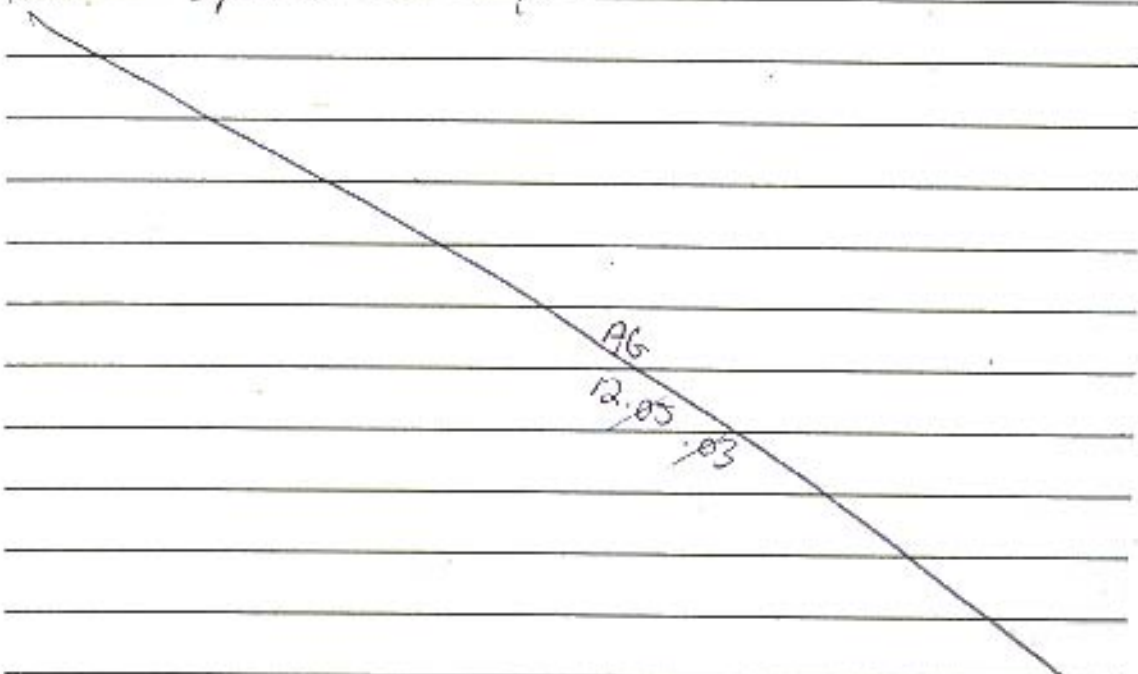
PAGE 1 OF 1

Task Team Members:

Andre Leon
Ronald Bailey
Steve King

Narrative (include time and location):

1105 - Arrive @ FBO 016 Operated by S. King Begin ϕ -1 sample interval
1120 - Retrieve sample for ϕ -1 exp FBQ25010603150
1125 - Refusal 6" in center hole
Retrieve ϕ -1' Metals.
1130 - ^{Leppu} Abandon Site



AG
12.05
03

Daily Weather Conditions: A.M. Sunny 60°F

P.M.

Recorded By [Signature] QA Checked By Army Greenwood

HTRW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
FBQ 016

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 Lewis

6. MANUFACTURERS DESIGNATION OF DRILL: n/a

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

SS Bore
SS Auger 3/4
SS System

8. HOLE LOCATION: FBQ 016

9. SURFACE ELEVATION: n/c

10. DATE STARTED: 10/13/03

11. DATE COMPLETED: 10/13/03

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. DEPOSITION OF HOLE

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

[Signature]

LOCATION SKETCH/COMMENTS

See pg 131

SCALE: no scale

HTRW DRILLING LOG

HOLE NUMBER: FBG/016

140

PROJECT: Fuze & Booster RVAAP

INSPECTOR: [Signature]

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0-1	Clayey silt - olive brn. some gravel fine - coarse. Some sand to 3". A to yellow brn clayey silt. Some sand - loose, damp. Some gravel. fine to coarse pebble.	P10-D.9		FBGSS016003150	Refusal @ 18" } Perimeter @ 6" @ 1" @ 6" center hole
		Refusal @ 1"				
		[Large handwritten scribble]				

TASK TEAM ACTIVITY LOG SHEET

141

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/14/03 Su M (Tu) W Th F Sa

PAGE 1 OF 1

Task Team Members:

Randy Bailey

Steve King

Andre Leon

Bill Drolsbach

Narrative (include time and location):

0945- Arrive @ FBQ #10. Cleared by S. King. Begin p-1 interval and took a split sample for explosives; metals ^{19/10/03} ce

0946 Begin 1-3 interval FBQ #10 #10 #10

0955 Retrieve sample for met/exp, Refusal @ 3'

1005 Abandon ^{leave} site

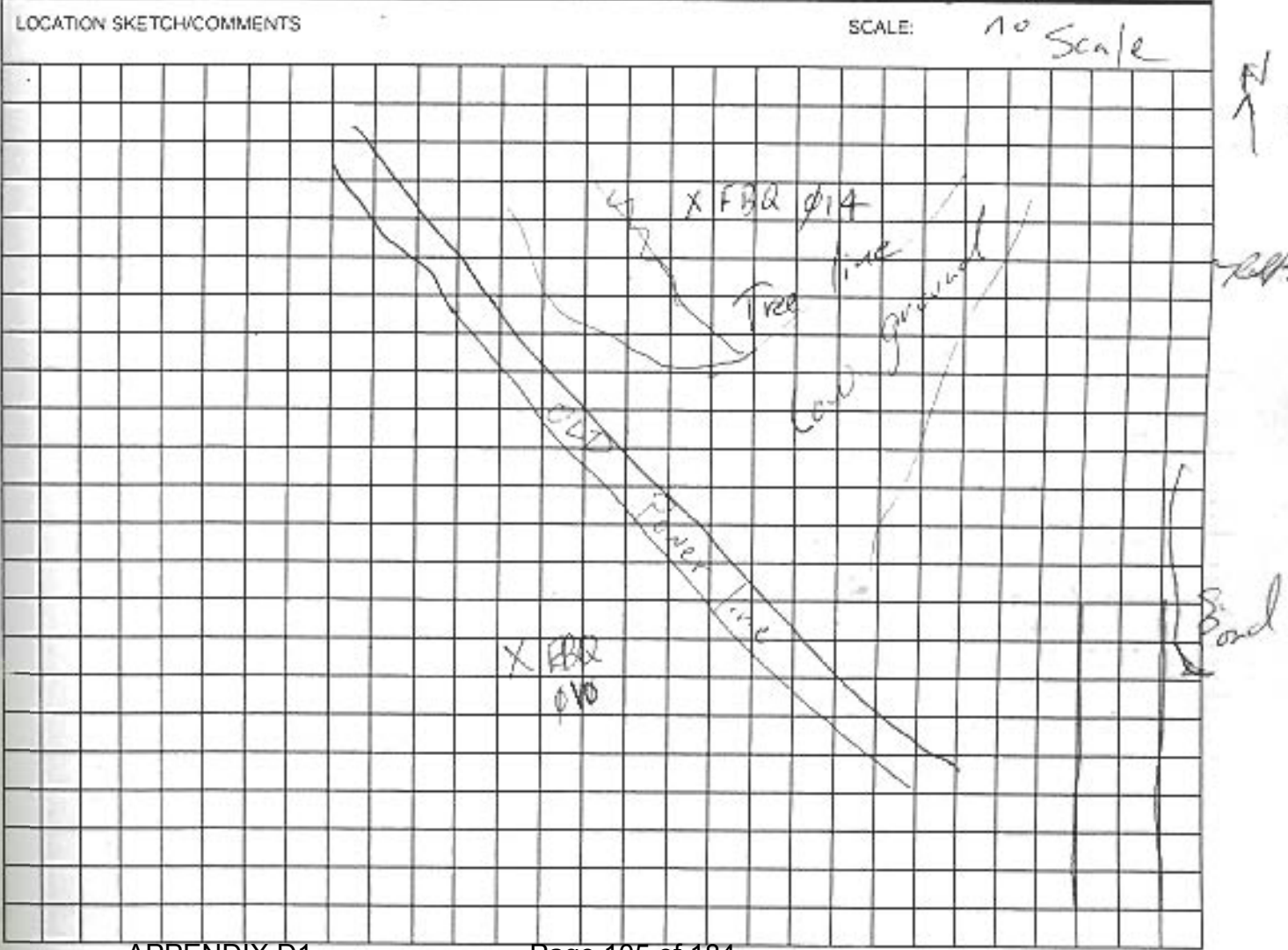
~~10-15-03
cc~~

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

Recorded By Randy Bailey P.M.

QA Checked By Steve King

HTRW DRILLING LOG		DISTRICT Louisville		HOLE NUMBER FBQ 010 143	
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 FBQ 010			
SS Spoon		9 SURFACE ELEVATION n/a			
SS Bowl		10 DATE STARTED 1/14/13		11 DATE COMPLETED 1/14/13	
SS 3/4" Auger		12 OVERBURDEN THICKNESS n/c			
13 DEPTH DRILLED INTO ROCK n/a		15 DEPTH GROUNDWATER ENCOUNTERED n/c			
14 TOTAL DEPTH OF HOLE n/c 3' FBQ		16 DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED n/c			
18 GEOTECHNICAL SAMPLES		19 TOTAL NUMBER OF CORE BOXES			
20 SAMPLES FOR CHEMICAL ANALYSIS		DISTURBED		UNDISTURBED	
VOC		METALS		OTHER (SPECIFY)	
Set at Log					
22 DISPOSITION OF HOLE		23 SIGNATURE OF INSPECTOR		21 TOTAL CORE RECOVERY %	
BACKFILLED		MONITORING WELL		OTHER (SPECIFY)	



HTRW DRILLING LOG		DISTRICT Louisville		HOLE NUMBER FBQ 014	
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR n/a		3. DATE 10/14/03	
3. PROJECT Fuze & Booster/RVAAP			4. LOCATION Fuze & Booster Quarry Landfill/Pond		
5. NAME OF DRILLER Bill Drolshaufer		6. MANUFACTURERS DESIGNATION OF DRILL n/a			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT SS Spoon SS Hammer SS 3 1/2 Auger		8. HOLE LOCATION FBQ 014			
		9. SURFACE ELEVATION n/a			
		10. DATE STARTED 10/14/03		11. DATE COMPLETED 10/14/03	
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 to 3' FBQ		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)
21. DEPOSITION OF HOLE ✓		BACKFILLED ✓	MONITORING WELL	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY
		23. SIGNATURE OF INSPECTOR [Signature]			

LOCATION SKETCH/COMMENTS See pg 143	SCALE:
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 90%; height: 100%; border: 1px solid black; background-image: linear-gradient(to right, transparent 49%, black 49% 49%, black 49% 51%, transparent 51%); background-size: 20px 20px;"></div> <div style="width: 5%;"></div> </div>	

HTRW DRILLING LOG

FILE NUMBER: F80 014

148

PROJECT: Face & Booster/RVAAP

INSPECTOR: *RJS*

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS (D)	GEOTECH SAMPLE OR CORE BOX (E)	ANALYTICAL SAMPLE NO (F)	REMARKS (G)	
	0-1	0-6" olive brn silty clay, soft, some sand, trace gravel, fine moist. Δ @ 0.6" to clayey silt - lt brn w/ orange & gray mottling. loose, med dense. moist			FBR55014002750		
	1-3	1' Δ to a R brn clayey silt with orange gray mottling. loose, damp Δ @ 2' 13" med dense			FBR50014002850		
	2	Same to A/A, Δ @ 2' 6" to olive brn clayey silt, med dense, damp. trace sand, trace gravel - fine					
	3	3'					
	4	<div style="font-size: 2em; font-family: cursive;"> RJS 10/14/03 </div>					
	5						
	6						
	7						
	8						
	9						
	10						

RJS
gms

TASK TEAM ACTIVITY LOG SHEET

149

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:

Andre LeonSteve KingBill DrottsbanglRonald Bailey

Narrative (include time and location):

1117 - Arrive @ FBQ 001. Begin 0-1' sample interval. FBQ 55 001 000150

1125 - Retrieve Exp & Met 0-1 samples

1140 - Begin 1-3' interval. FBQ 50 001 00250

He Water percolating in from 10'

1142 - Retrieve 1-3' exp/met sample

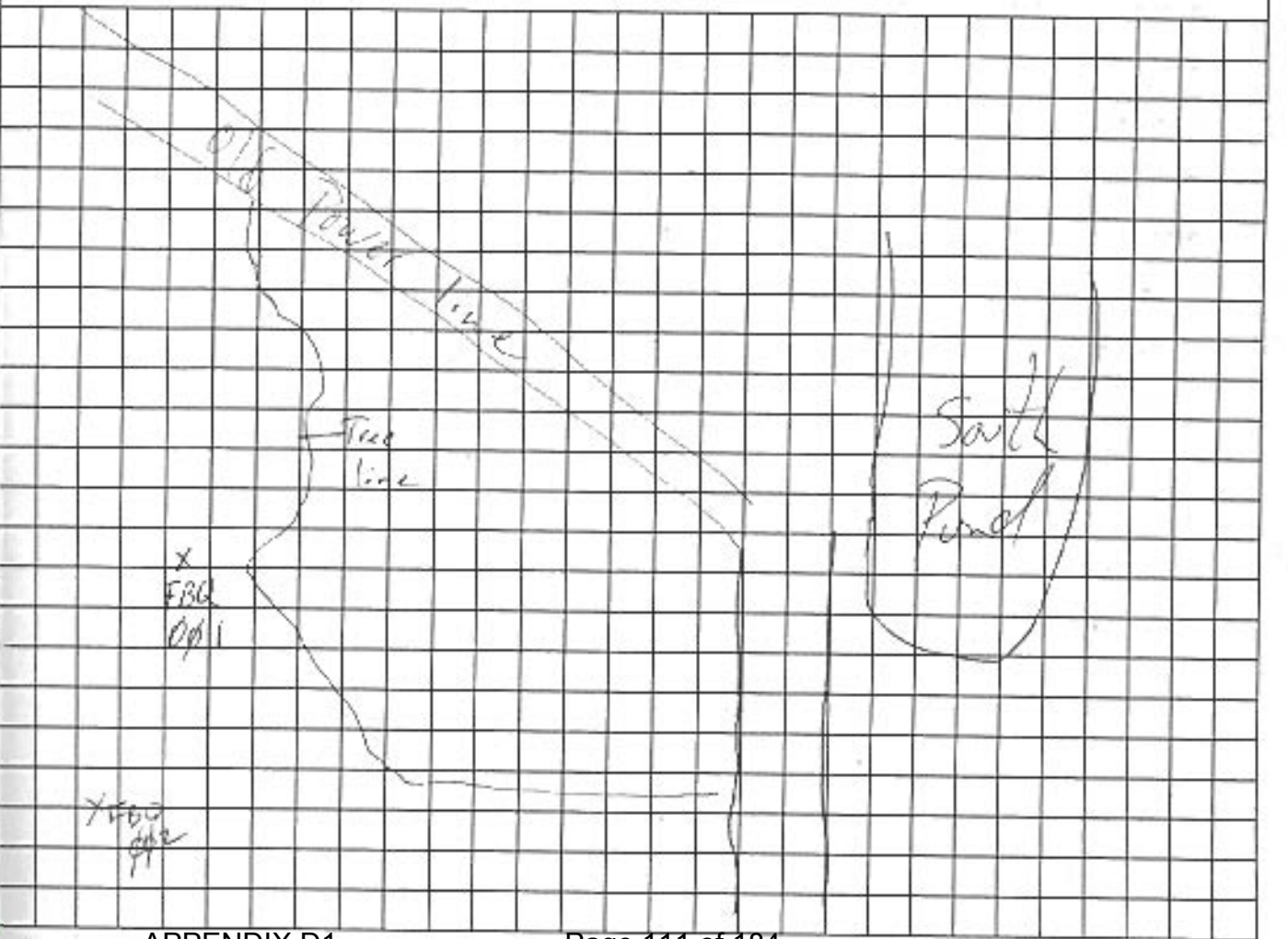
1145 - ^{leave} ~~Abandon~~ siteAB
12:05:03Daily Weather Conditions: A.M. cloudy, mid 50's F

P.M.

Recorded By Rachel BaileyQA Checked By Amy Greenwald

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBQ 001	
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:		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: CS Bore CS Spinn SS 3/4" Auger		8. HOLE LOCATION: FBQ 4φ1		9. SURFACE ELEVATION: n/a	
12. OVERBURDEN THICKNESS: n/a		15. DEPTH GROUNDWATER ENCOUNTERED: 7φ"		10. DATE STARTED: 10/14/63	
13. DEPTH DRILLED INTO ROCK: n/a		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/a		11. DATE COMPLETED: 10/14/63	
14. TOTAL DEPTH OF HOLE: n/a 3'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 7 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)
23. DEPOSITION OF HOLE: BACK-FILLED		MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %	
				22. SIGNATURE OF INSPECTOR: Andre Leon	

LOCATION SKETCH/COMMENTS SCALE: n/a



HTRW DRILLING LOG

HOLE NUMBER: *FBQ 001*

152

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		0.0			
	1	<p><i>16" olive brn silty clay, moist, soft, trace sand, some gravel fine. @ 6" H brn sandy clay, wet trace silt, some gravel fine to coarse, soft. @ 10" to clayey sand: H brn, mottled orange, fine to coarse, moist.</i></p>	↓		<i>FBQ55001/000150</i>	<p><i>Water seep in to 10" bgs in perimeter holes</i></p>
	2			<p><i>Same as above, alternates from sandy clay to clayey sand.</i></p>		
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

[Large handwritten signature]

1403

TASK TEAM ACTIVITY LOG SHEET

153

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/14/03

Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Ronnie Brailley

Steve King

Andre Leon

Bill Protsbaugh

Narrative (include time and location):

1210p - Arrive @ FBQ #02; Cleared by S. King
Begin 0-1' interval FBQ #02 #0350

1220p - Retrieve sample for exp water

1240p - Perc. in perimeter holes @ 7" bgn.

Begin 1-3' interval #21 ~~22~~

1250p - Retrieve sample 1-3 exp/met. FBQ #02 #0450

1300p - ~~Abandon~~ Leave Site

AG
12:05 p.m.

Daily Weather Conditions: A.M.

Cloudy, lt. wind, high 50°F

P.M.

Recorded By

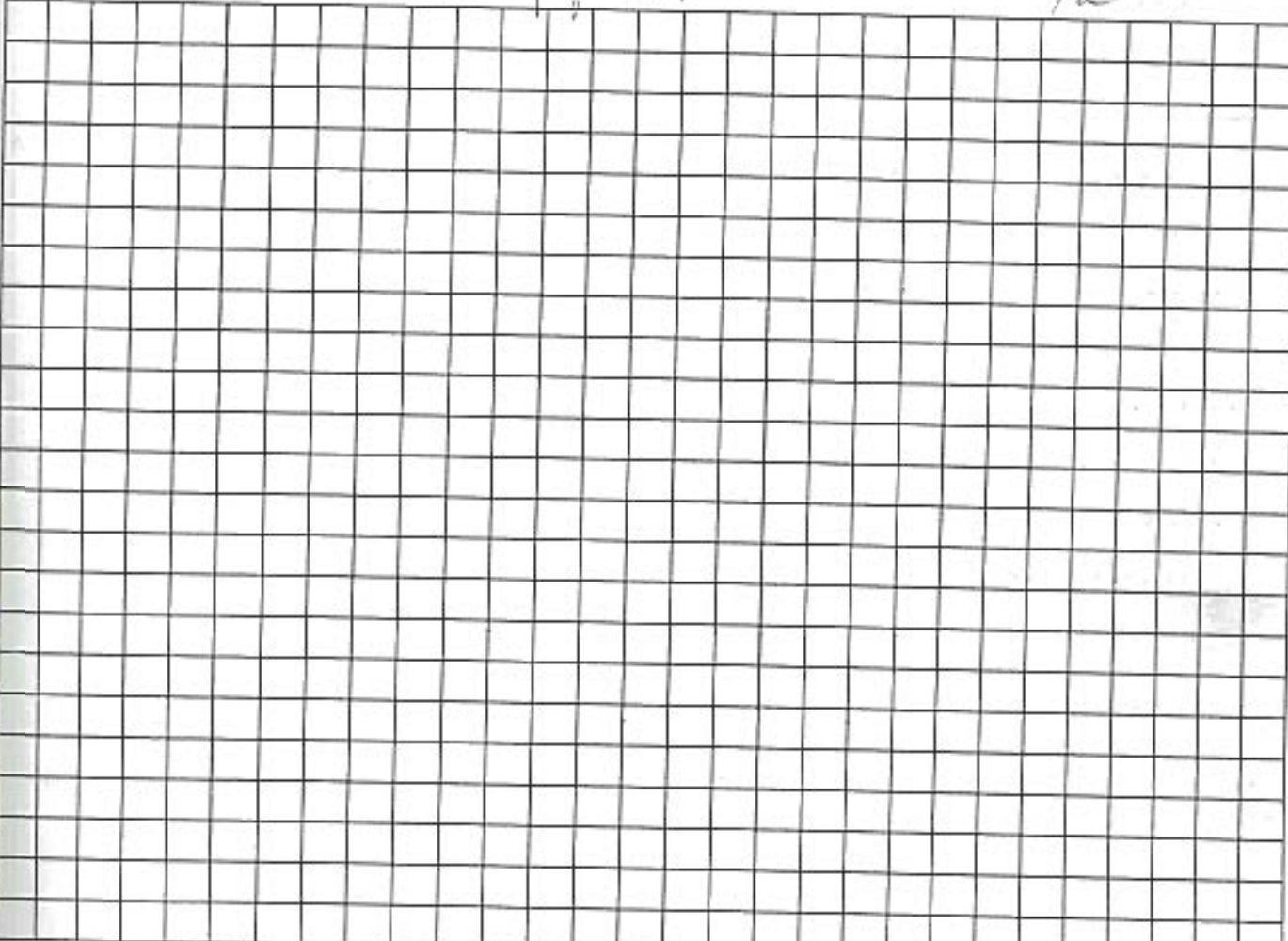
Ronnie Brailley

QA Checked By

Amy Greenwald

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBQ 102	
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 Bill Drakbauch			6 MANUFACTURERS DESIGNATION OF DRILL		
7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8 HOLE LOCATION FBQ 102			
CS 2000 CS 3 1/2" Auger CS. hand		9 SURFACE ELEVATION n/a			
		10 DATE STARTED 1/14/13		11 DATE COMPLETED 1/14/13	
12 OVERBURDEN THICKNESS n/a		15 DEPTH GROUNDWATER ENCOUNTERED 6"			
13 DEPTH DRILLED INTO ROCK n/a		16 DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED n/h			
14 TOTAL DEPTH OF HOLE 3'		17 OTHER WATER LEVEL MEASUREMENTS (SPECIFY) n/a			
18 GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19 TOTAL NUMBER OF CORE BOXES		VOC		METALS	
20 SAMPLES FOR CHEMICAL ANALYSIS		OTHER (SPECIFY)		OTHER (SPECIFY)	
SPC art. log					
21 TOTAL CORE RECOVERY %		22 SIGNATURE OF INSPECTION			
23 DEPOSITION OF HOLE		BACKFILLED <input checked="" type="checkbox"/>		MONITORING WELL <input type="checkbox"/>	

LOCATION SKETCH/COMMENTS See pg 151 SCALE: n/a



HTRW DRILLING LOG

HOLE NUMBER: *FBO-102* 156

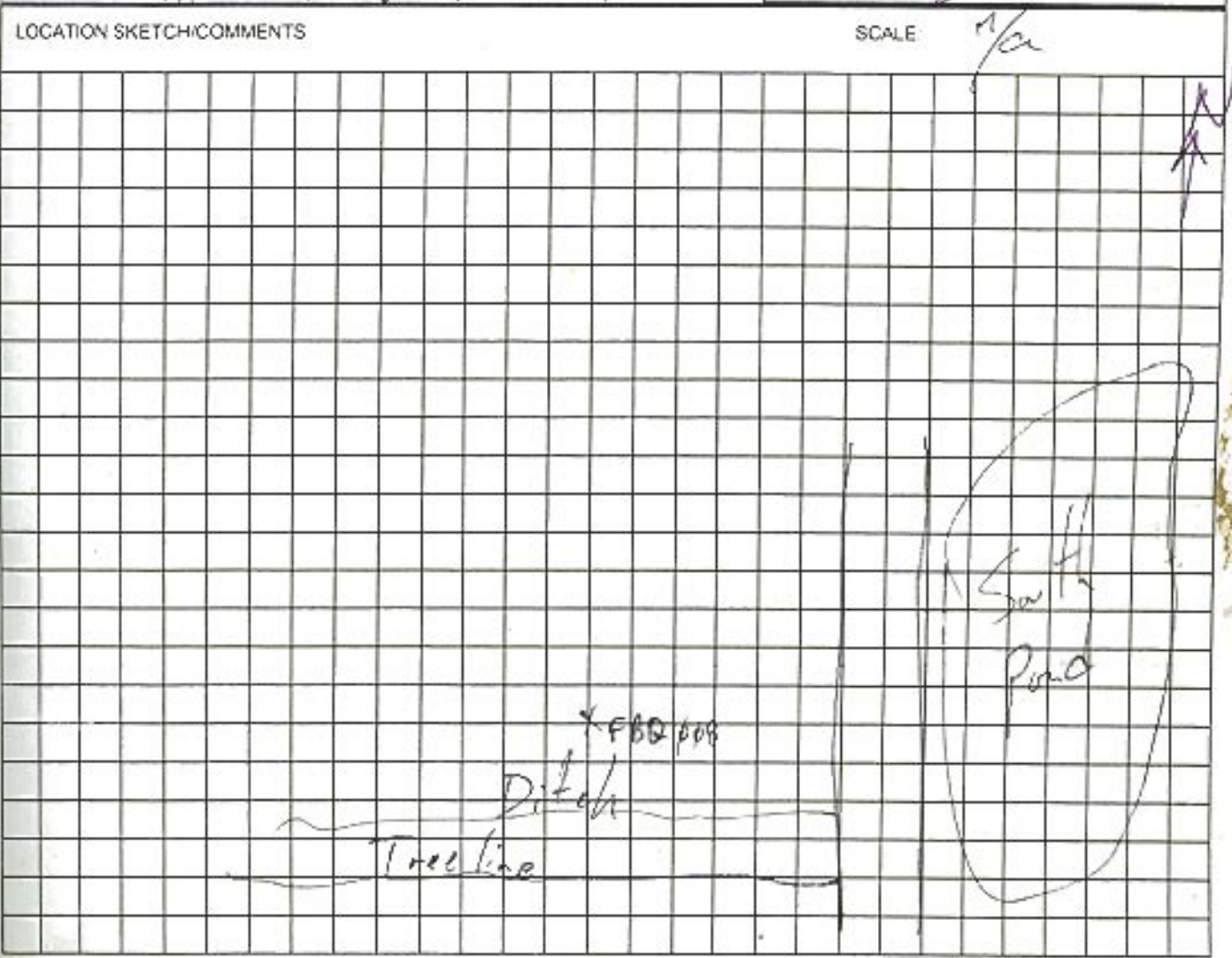
PROJECT: Fuse & Booster RVAAP

INSPECTOR: *[Signature]*

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE MIX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0-1'	Dark Olive brn clayey silt mottled gray with orange. Trace sand, some gravel; fine-med. Mod Dense moist.	Q.P		<i>FBO35902109350</i>	water perfs in @ 6" in perimeter holes
	1-3'	Olive brn silty clay mottled orange & gray, trace sand, some gravel, fine to coarse, moist, soft increasing consistency to stiff with depth, some sand inc. w/depth plastic			<i>FBO3002111450</i>	
	3-10'	<p>To 14.03</p>				

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBO #08	
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			6. MANUFACTURERS DESIGNATION OF DRILL: n/a		
7. SIZES AND TYPES OF OPENING AND SAMPLING EQUIPMENT 32 bowl/spoon 35 3/4" auger bucket		8. HOLE LOCATION: FBO #08		9. SURFACE ELEVATION: n/a	
12. OVERBURDEN THICKNESS: n/a		15. DEPTH GROUNDWATER ENCOUNTERED: n/a		10. DATE STARTED: 10/14/03	
13. DEPTH DRILLED INTO ROCK: n/a		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/a		11. DATE COMPLETED: 10/14/03	
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 See act. log		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE n/a		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
				23. SIGNATURE OF INSPECTOR: [Signature]	



TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/15/03 Su M Tu (W) Th F Sa

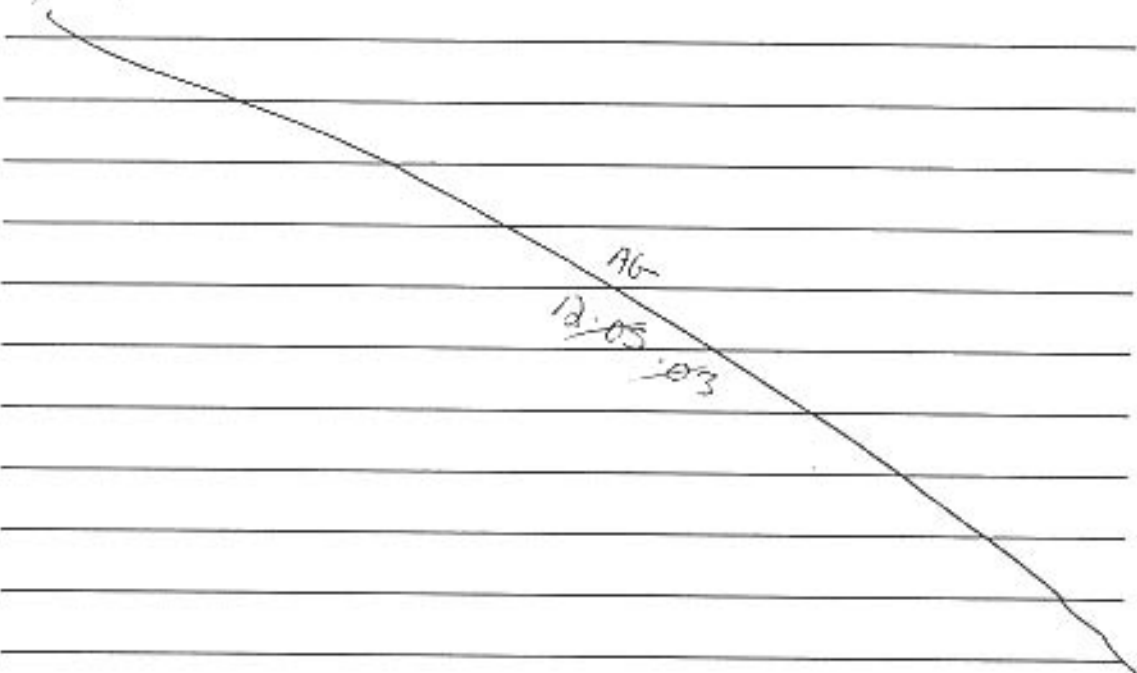
PAGE 1 OF 1

Task Team Members:

Anne Lew
Bill Dealough
Steve King

Narrative (include time and location):

09:10 Steve King (leased) Site FBQ #13
Began #1 Sampled Met+Exp.
09:30 Began 1-3 Interval FBQ ss #13 #p25 SO
FBQ ss #13 #p26 SO
09:35 Collected 1-3 Sample Met-Exp
09:40 leave
Abandoned Site




116-
12:05
03

Daily Weather Conditions: A.M. cloudy windy sp

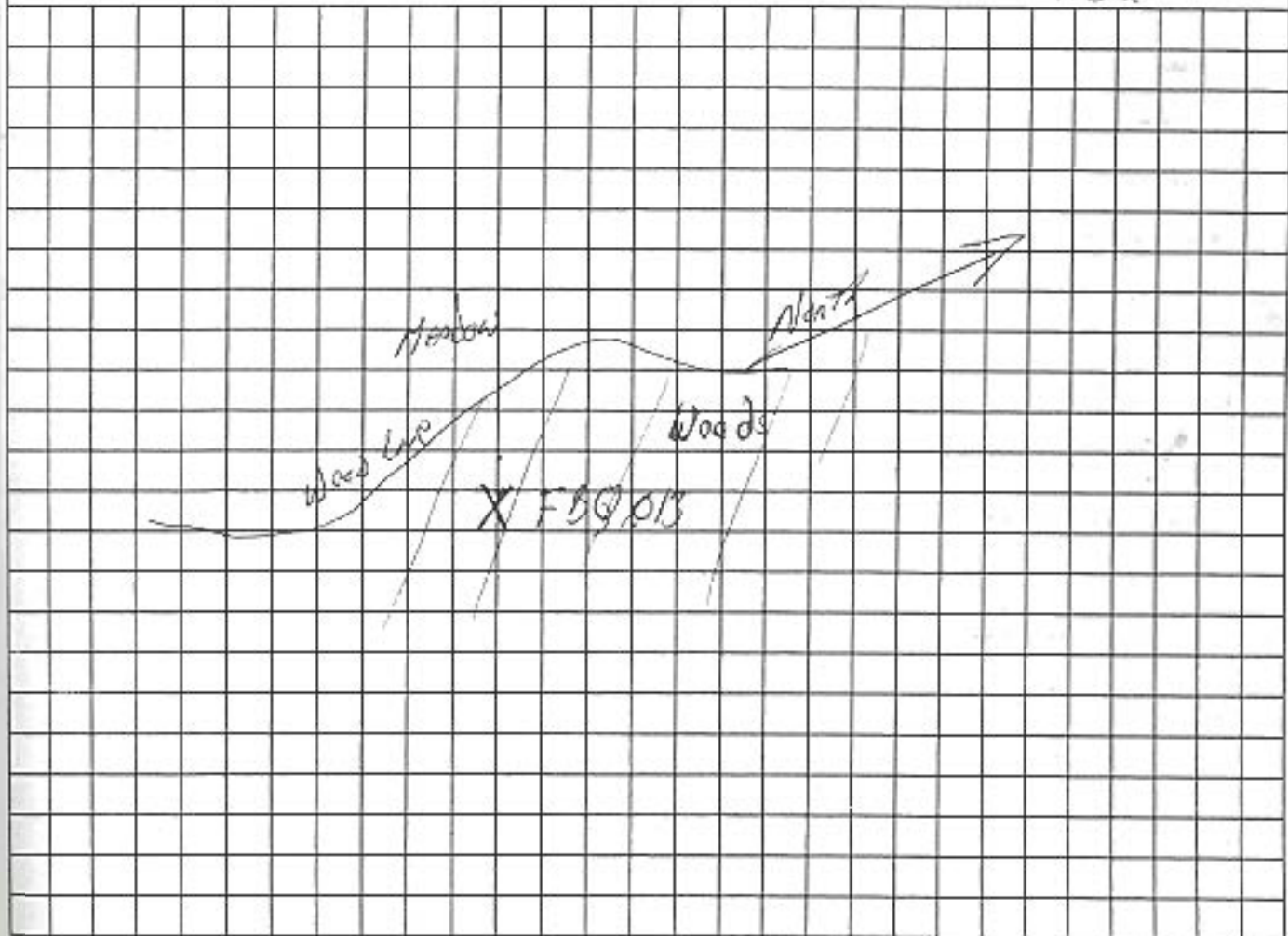
P.M. _____

Recorded By Bill Dealough QA Checked By Amy Howard

HTRW DRILLING LOG		DISTRICT Louisville		HOLE NUMBER FBQ #13	
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			6 MANUFACTURERS DESIGNATION OF DRILL: n/a		
7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: SS Drill SS 36 In. Bucket		8 HOLE LOCATION: FBQ #13		9 SURFACE ELEVATION:	
12 OVERBURDEN THICKNESS: N/A		10 DATE STARTED: 11/15/03		11 DATE COMPLETED: 12/15/03	
13 DEPTH DRILLED INTO ROCK: N/A		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		21. TOTAL CORE RECOVERY	
22. DISPOSITION OF HOLE: N/A		VOC		METALS	
23. SIGNATURE OF INSPECTOR: 		OTHER (SPECIFY):		OTHER (SPECIFY):	
BACKFILLED <input checked="" type="checkbox"/>		MONITORING WELL <input type="checkbox"/>		OTHER (SPECIFY):	

LOCATION SKETCH/COMMENTS

SCALE: **Not to Scale**



HTRW DRILLING LOG

HOLE NUMBER: **FBQ 45/13**
 SHEET **1** OF **1**

166

PROJECT: Fuzze & Booster RVAAP

INSPECTOR: **ALB**

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (D)	REMARKS (E)
	1	DK Olive Brown Clayey Silt Silt Sand Gravel Fines @ 10' light brown clay silt sandstone bed	φ φ		FBQ 45/13/02550	Sub Soil started at 10'
	2	Light Yellow Sand Clay Silt Sand fines 2% to 4% pebbles rounded Light Dry			FBQ 45/13/02650	Light Roots
	3	3'				
	4	10/15/13 WA Drilling				
	5	(The rest of the log is crossed out with a diagonal line)				

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 12/15/03 Su M Tu (W) Th F Sa

PAGE 1 OF 1

Task Team Members:

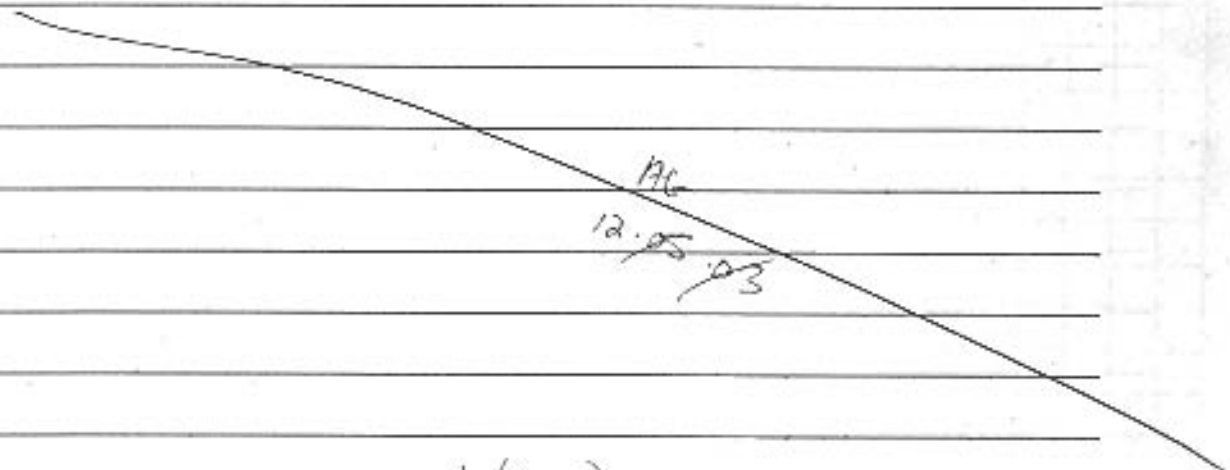
Steve King

Andre Lewis

Bill Dadsbough

Narrative (include time and location):

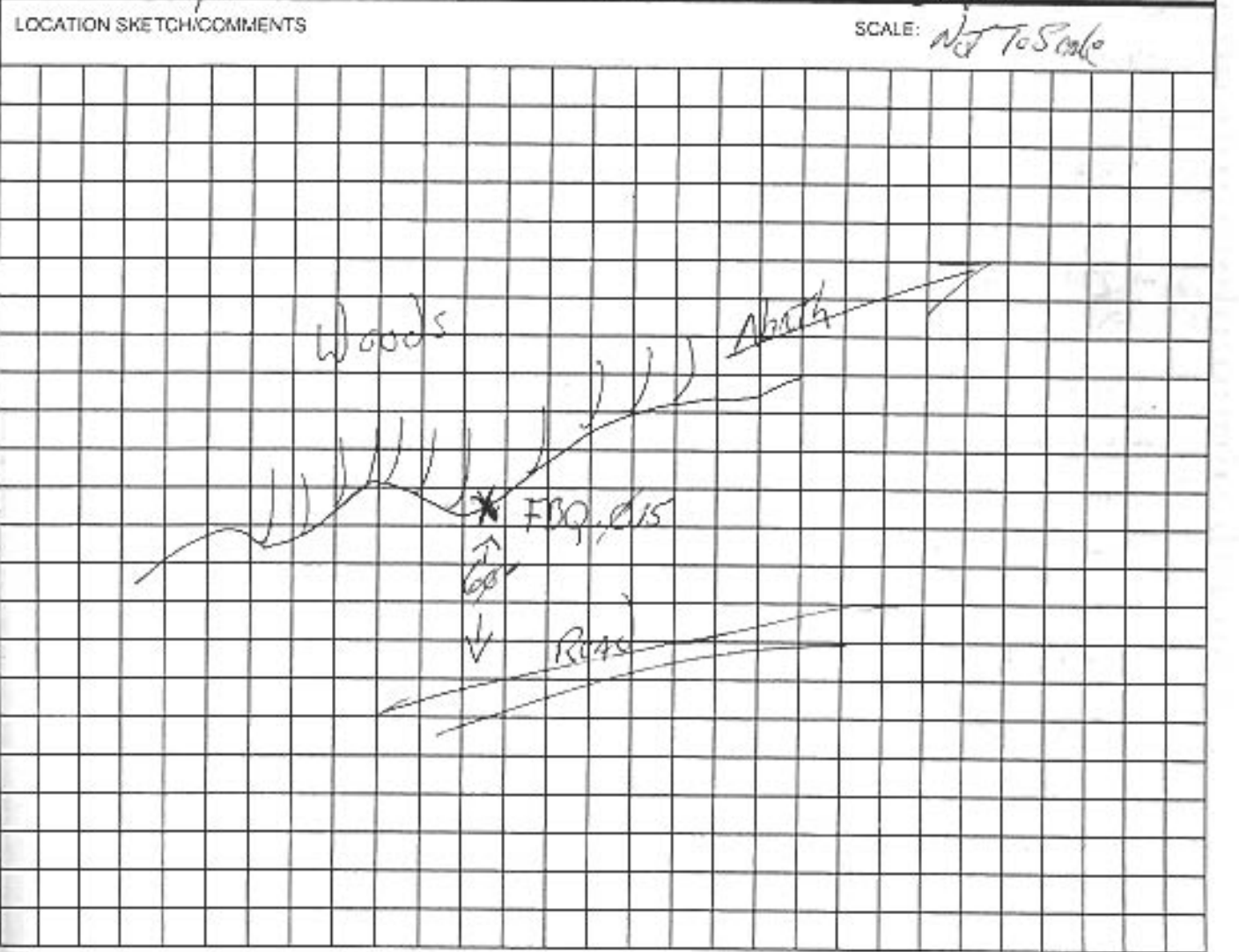
09:50 Steve King Cleared Site FBQ-015
Began Sampling Met+Exp FBQ55 015 02950
09:55 South Perimeter Hole Refusal AT 1' on Exp. Hole
10:15 Center Hole Refusal AT 10"
Unable To Get Met+Exp AT 1-3, Therefore Took Sample from Perimeter
10:16 Compton 1-3 Sample AT Northwest
Perimeter Hole, AT 2' 9" Hit Refusal
10:28 Obtained 1-3 Met/Exp Sample FBQ50 015 P.3 050
10:21 Left Site



Daily Weather Conditions: A.M. Cloud (Partal) Sunny 52°
 P.M. _____

Recorded By W.D. Dadsbough QA Checked By Amy Henderson

HTRW DRILLING LOG		DISTRICT Louisville		HOLE NUMBER FBQ, 015	
1. COMPANY NAME SpecPro, Inc.		2. DRILL SUBCONTRACTOR n/a		SHEET 2 OF 2	
3. PROJECT Fuze & Booster/RVAAP			4. LOCATION Fuze & Booster Quarry Landfill/Pond		
5. NAME OF DRILLER Andre			6. MANUFACTURERS DESIGNATION OF DRILL n/a		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		8. HOLE LOCATION FBQ, 015			
CS Auger 36 Bucket		9. SURFACE ELEVATION			
SS Spreader Bowl		10. DATE STARTED 11/15/93		11. DATE COMPLETED 10/15/93	
12. OVERBURDEN THICKNESS N/A		15. DEPTH GROUNDWATER ENCOUNTERED: None			
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' 9"		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES		VOC		METALS	
20. SAMPLES FOR CHEMICAL ANALYSIS		OTHER (SPECIFY)		OTHER (SPECIFY)	
See Act. log					
21. TOTAL CORE RECOVERY		MONITORING WELL		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE N/A		BACK FILLED <input checked="" type="checkbox"/>		23. SIGNATURE OF INSPECTOR	
				[Signature]	



HTRW DRILLING LOG

HOLE NUMBER: *FBQ-015*

168

PROJECT: Fuze & Booster RVAAP

INSPECTOR: *RSB*

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)
		Medium Dark Brown Silt w/ sand traces Clay 10% gravel Fine to med dense mat	<i>D.P</i>		<i>FBQ5015 #2950</i>	<i>Working on Down Stop</i>
	<i>2'9"</i>	Lighter Yellow Brown Silt w/ traces sand Heavy Gravels Med dense			<i>FBQ5015 #3050</i>	<i>Retract at 2'9" obtained sample</i>
		<i>19' 15" / 3 W.A.D. Drilling</i>				

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10-15-03 Su M Tu (W) Th F Sa

PAGE 1 OF 1

Task Team Members:

Annie Lee

Bill Doolough

Steve King

Narrative (include time and location):

10:35

Steve King Cleared Site

FBQ, D11

Begin of Instrument

FBQ SS D11 0p2 50

2/15

10:40

Retrieved Sample for ^{Met} Exp Sample

10:50

Sampling 1-3 Met/Exp Sample

FBQ SS D11 0p2 50

Collected Met/Exp Sample

11:00

Left Site

AG
12:05
03

Daily Weather Conditions: A.M.

Sunny Windy 51°

P.M.

Recorded By

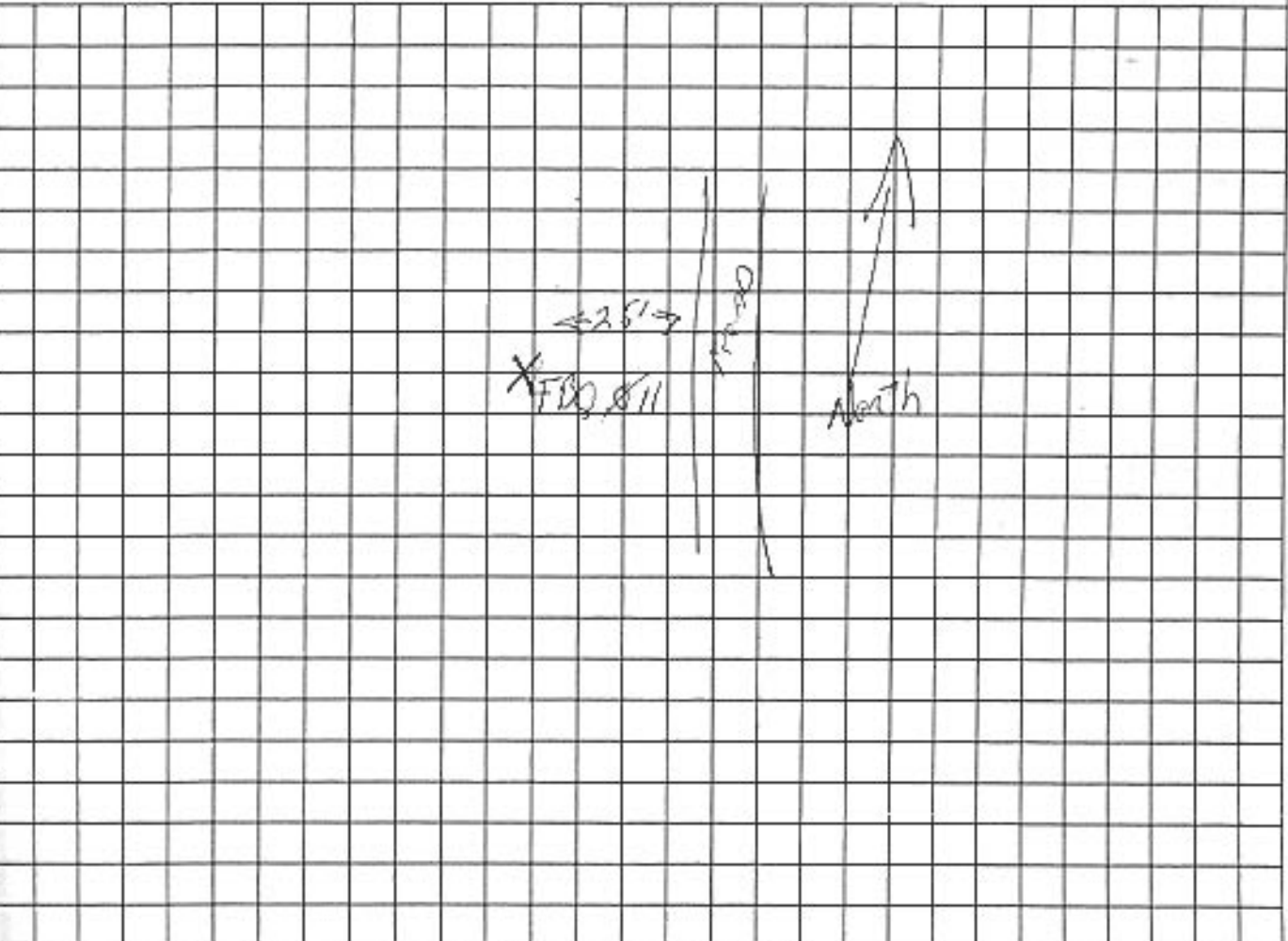
WA. Doolough

QA Checked By

Amy Stranawa

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBQ.011	
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR: N/A		SHEET 2 of 2	
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 Spade Bowl SS 3/4" Auger		8. HOLE LOCATION: FDQ.011			
12. OVERBURDEN THICKNESS:			9. SURFACE ELEVATION:		
13. DEPTH DRILLED INTO ROCK: N/A		10. DATE STARTED: 10/15/03		11. DATE COMPLETED: 10/15/03	
14. TOTAL DEPTH OF HOLE: 3'			15. DEPTH GROUNDWATER ENCOUNTERED: 2' PB		
18. GEOTECHNICAL SAMPLES			19. TOTAL NUMBER OF CORE BOXES:		
20. SAMPLES FOR CHEMICAL ANALYSIS: see At log		DISTURBED	UNDISTURBED	21. TOTAL CORE RECOVERY %:	
22. DISPOSITION OF HOLE: N/A		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR: <i>[Signature]</i>

LOCATION SKETCH/COMMENTS SCALE: **Not To Scale**



HTRW DRILLING LOG

HOLE NUMBER: **FBQ 011**

172

PROJECT: **Fuze & Booster/RVAAP**

INSPECTOR: **B. Drobny**

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

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	0.1	Medium Dark Brown Silt w/ traces of sand Clay Day			FBQ 05/11/02 250	Flat Wooded Area East of Road
	1.0	Dry Trace Gravel Fine Med			FBQ 50/11/02 350	
	1.3	Light Yellow Brown Silt Traces Sand Small pebbles trace Fine - med. NET Mottled with Red Orange Coarse Sand Med. Dense				Water at 2' Interval
	1.5					
	2.0					
	3.0					
	4.0					
	5.0					
	6.0					
	7.0					
	8.0					
	9.0					
	10.0					

WA Drobny
1/5 1/3

TASK TEAM ACTIVITY LOG SHEET

173

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/15/03 Su M Tu (W) Th F Sa

PAGE 1 OF 1

Task Team Members:

Steve King
Andee Lewis
Bill Deeksbaugh

Narrative (include time and location):

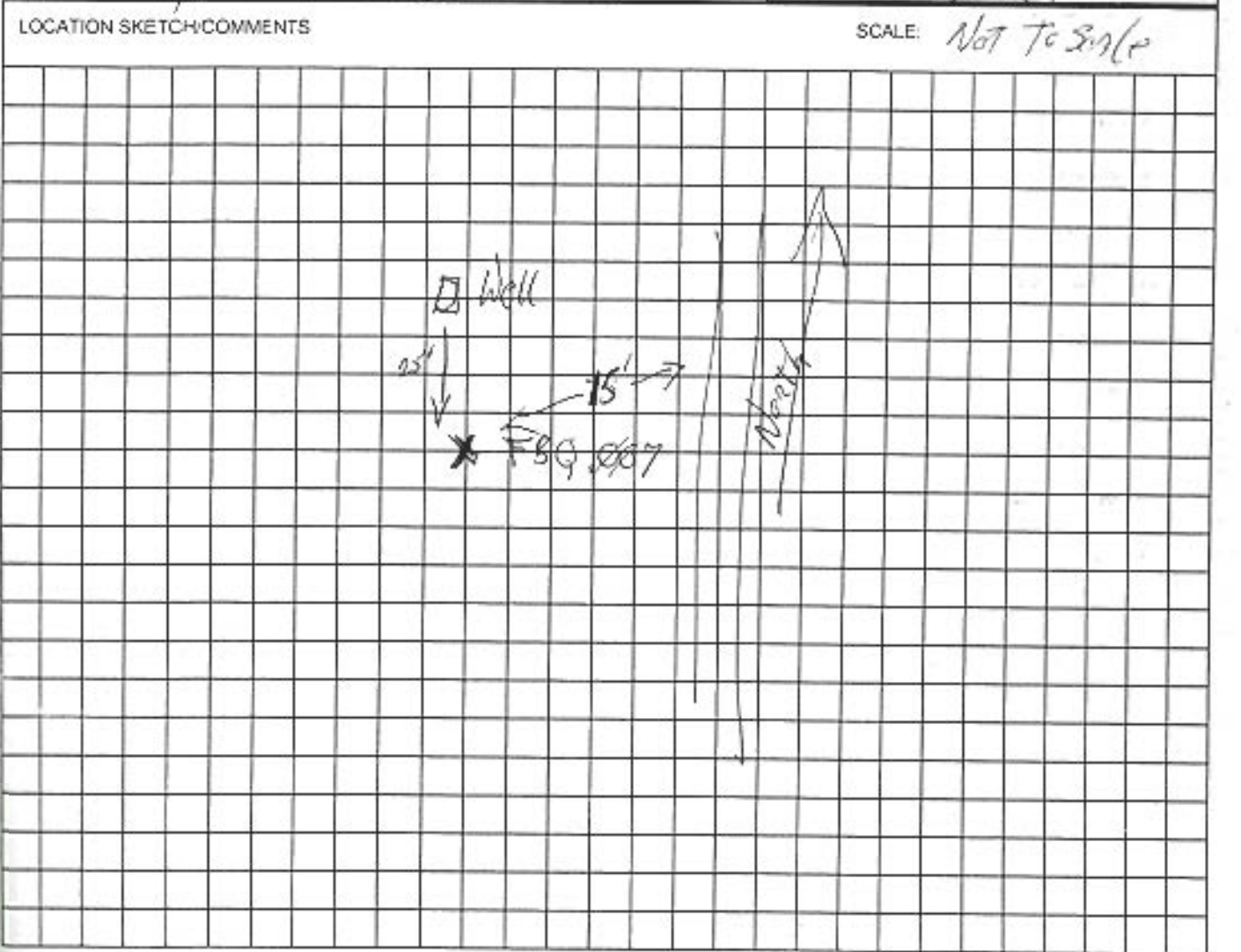
11:19 Steve King (closed) SITE FBQ. #17
Beginning ϕ -1 Interval FBQ55 #07 @ 1350
11:15 Retrieved MET/Exp samples ϕ -1
11:25 Started Sampling Center 1
Hole 1-3 MET/Exp FBQ50 #07 @ 1450
11:37 ^{Leave} ~~Abandon~~ site

~~AG
12:00:03~~

Daily Weather Conditions: A.M. Sunny Cloudy Windy 50°
P.M. _____

Recorded By WA-Deeksbaugh QA Checked By Amy Greenwald

HTRW DRILLING LOG		DISTRICT Louisville		HOLE NUMBER FBQ-007	
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		8 HOLE LOCATION: FBQ-007			
55 2 1/2" auger		9 SURFACE ELEVATION: N/A			
SS screen		10 DATE STARTED: 11/15/13		11 DATE COMPLETED: 11/15/13	
30" bucket		12 OVERBURDEN THICKNESS: N/A		13 DEPTH GROUNDWATER ENCOUNTERED: N/A	
13 DEPTH DRILLED INTO ROCK: N/A		14 DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
14 TOTAL DEPTH OF HOLE: 3'		17 OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
16 GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	18 TOTAL NUMBER OF CORE BOXES	
20 SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
SEE AEL-403					
22 DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21 TOTAL CORE RECOVERY
N/A					N/A
23 SIGNATURE OF INSPECTOR				[Signature]	



HTRW DRILLING LOG

HOLE NUMBER: **F50191**

176

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	Medium Brown Silt w/ traces of sand clay Trace Gravel Dull Red Brown Med Pebbles Med Dense			FBR55/07/01350	
	1-3	Light Yellow Brown Silt Traces sand/clay Small Pebbles (Pebbles Small) Filled w/ Red/brown coarse sand Med Dense WET			FBR55/07/01450	
	3-10		3'			
			10/15/03 WA D... <i>[Signature]</i>			

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): 10/20/03 Su **M** Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Ronda Bailey
 Andre Lea
 Jiggs

Narrative (include time and location):

* 0930 - Arrive @ FBQ 018. Cleared by Jiggs. Begin 0-1 interval, moved from prior location

0947 - Retrieve 1st exp & exp split - FBQ 018 093550

1000 - 4oz VOC from 0-1 center hole and 8oz VOC split from 1st Auger bucket

1020 - Retrieve full suite and split:
 TAL met/cr⁶ + Split
 PCB/pest + split
 SVOC/Prop + split
 VOC + split
 MS/MSD

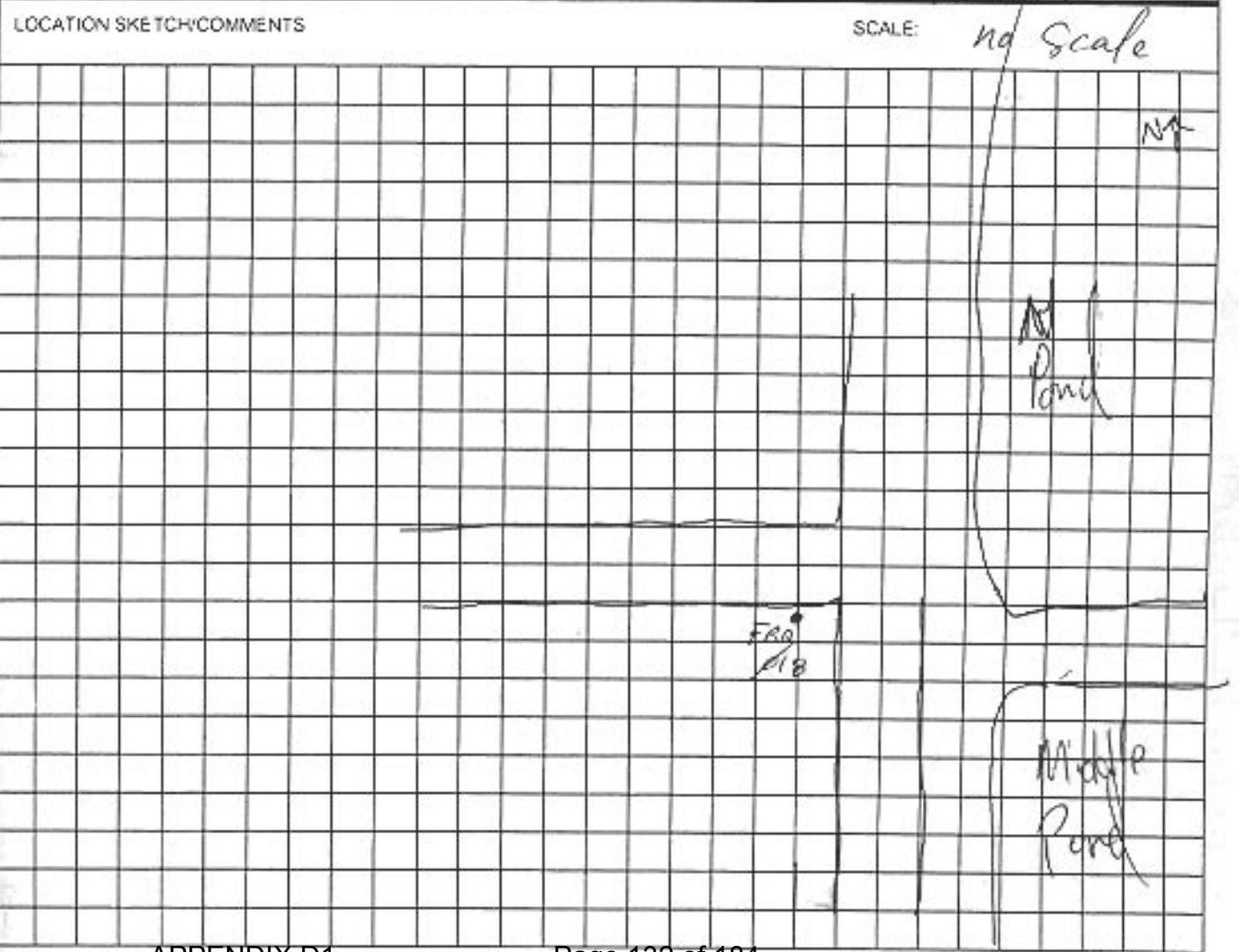
1025 - Refusal @ 1'

* See page 1777 for reference of 1st sample

Daily Weather Conditions: A.M. Sunny, Mid 50's F

P.M.
 Recorded By: Ronda Bailey QA Checked By: Amy DeMarshall

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBO #18	
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			
7 SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>SS 5/8" Drill SS 1/2" Bit SS 3/4" Auger</i>		8 HOLE LOCATION: FBO #18		9 SURFACE ELEVATION: <i>n/a</i>	
12 OVERBURDEN THICKNESS <i>n/c</i>		10 DATE STARTED <i>1p 2p 93</i>		11 DATE COMPLETED <i>1p 2p 93</i>	
13 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>	
14 TOTAL DEPTH OF HOLE <i>n/c 11'</i>		17 OTHER WATER LEVEL MEASUREMENTS (SPECIFY): <i>n/c</i>			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES		20. TOTAL CORE RECOVERY %		21. SIGNATURE OF INSPECTOR <i>[Signature]</i>	
22 DISPOSITION OF HOLE <i>Backfilled</i>		23. METALS		24. OTHER (SPECIFY)	
25. VOC		26. OTHER (SPECIFY)		27. OTHER (SPECIFY)	



HTRW DRILLING LOG

HOLE NUMBER: *F9Q 016*

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	<i>Med brn Silty Clay, trace Sand trace gravel. Fine to med. soft, damp.</i>	<i>D.P</i>		<i>F9Q 55018 #350</i>	<i>Refusal @ 9" E. perimeter Refusal @ 1' center hole</i>
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

Refusal

[Signature]

102003

TASK TEAM ACTIVITY LOG SHEET

189

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): ^{10/20/03} ~~10/20/03~~ Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Ronald Bailey
Andre Leon
Jiggs

Narrative (include time and location):

1055 - Arrive @ FBQ #9, Cleared by Jiggs.
 Begin 0-1 interval, FBQ 550000/1750

1100 - Retrieve exp & Exp Split from per holes

1110 - Retrieve VOC & VOC split from centerhole

1125 - Retrieving 0-1 Full suite & split: TAL met/cr + split
 PCB/PCB + split
 SVOC/Prop + split
 MS/MSI

1140 - Begin 1-3 interval, Retrieve VOC & split

1155 - Retrieve 1-3 full/suite & split: exp + split
 FBQ 500000/1850 TAL met/cr + split
 PCB/PCB + split
 SVOC/Prop + split

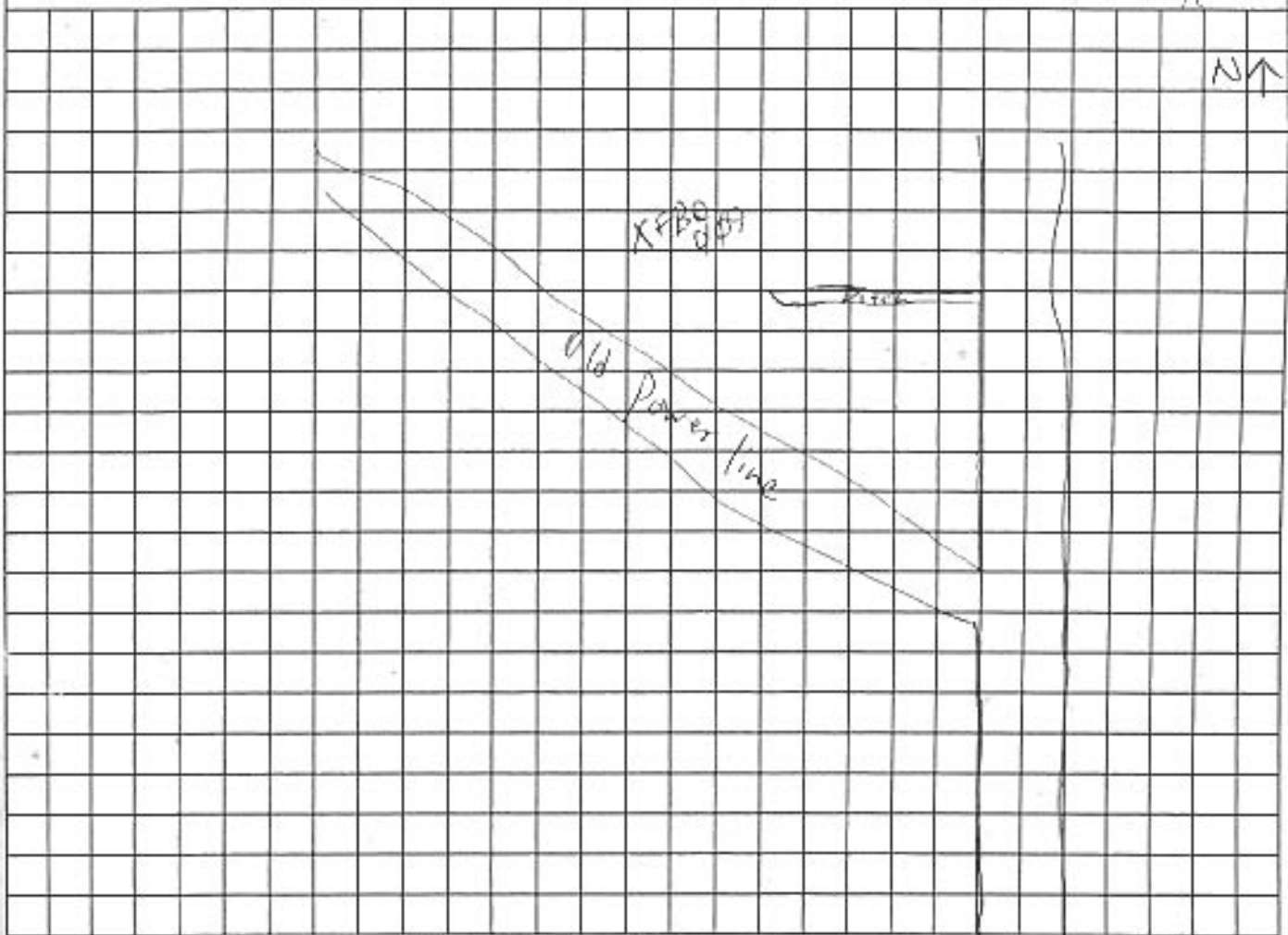
** Sample originally taken 10-15-03,
 was chopped and had to be re-done
 see page 181-184 for original. ca

Daily Weather Conditions: A.M. Sunny, high 50's F

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

HTRW DRILLING LOG		DISTRICT Louisville		HOLE NUMBER FBQ 489	
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: J.995			6 MANUFACTURERS DESIGNATION OF DRILL: n/a		
7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT SS bowl SS 4" diam SS 3/2" H2O		8 HOLE LOCATION: FBQ-489		9 SURFACE ELEVATION: n/a	
12 OVERBURDEN THICKNESS: n/c		15 DEPTH GROUNDWATER ENCOUNTERED: n/c		10 DATE STARTED: 1/21/03	
13 DEPTH DRILLED INTO ROCK: n/c		16 DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/c		11 DATE COMPLETED: 1/24/03	
14 TOTAL DEPTH OF HOLE: n/c 30 ft (n/a)		17 OTHER WATER LEVEL MEASUREMENTS (SPECIFY): n/c		18 GEOTECHNICAL SAMPLES	
		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: n/a	
20 SAMPLES FOR CHEMICAL ANALYSIS: See activity log		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
22 DISPOSITION OF HOLE: See activity log		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21 TOTAL CORE RECOVERY: n/a
				23 SIGNATURE OF INSPECTOR: R. Bailey	

LOCATION SKETCH/COMMENTS SCALE: no scale

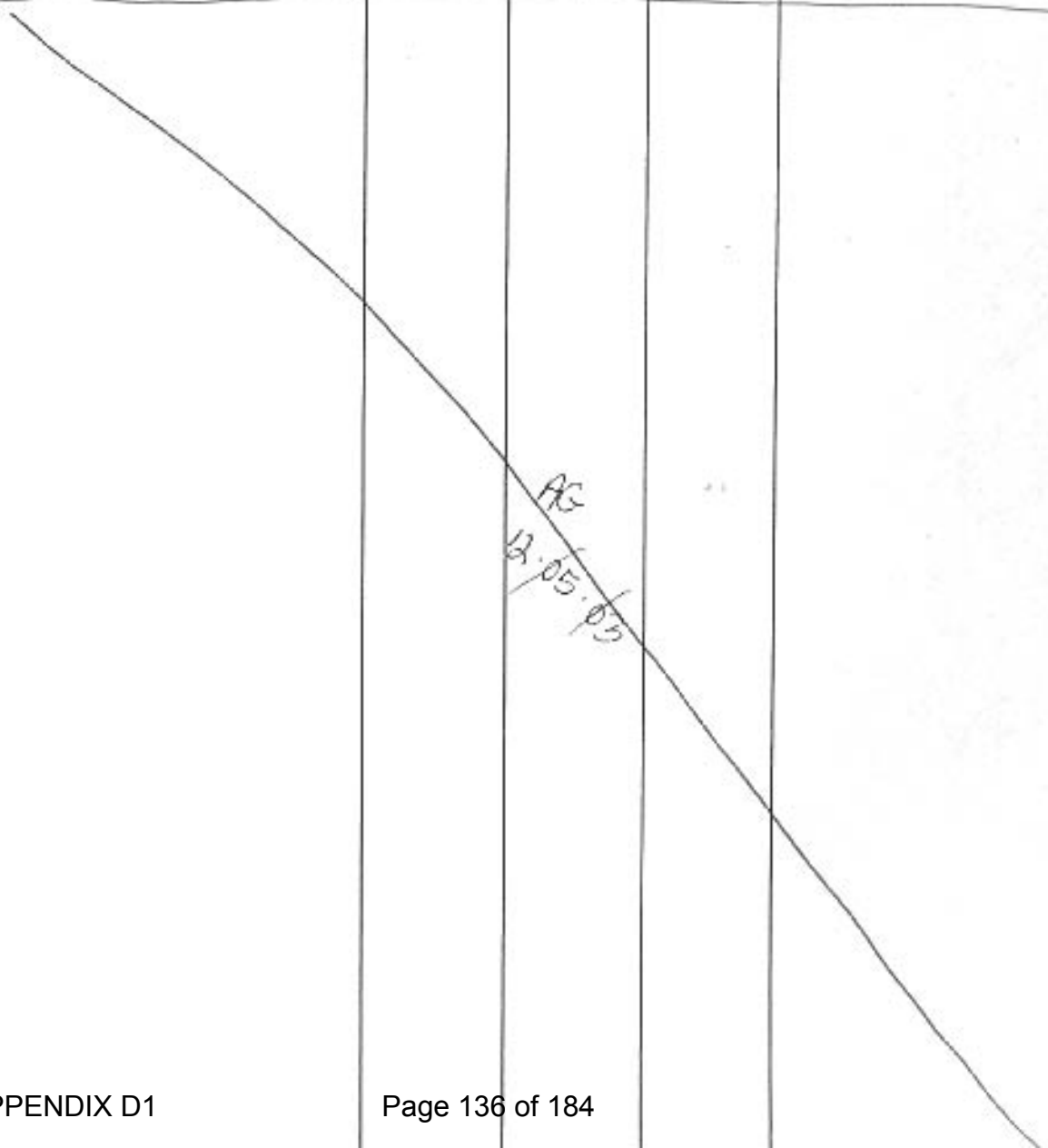


HTRW DRILLING LOG

HOLE NUMBER: *FBR 007*

192

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	<i>0.12. Brn Silty clay some sand, trace gravel, fine to med. saturated soft. orange & grey mottling.</i>	<i>0.0</i> ↓		<i>FBR0070071750</i> (Full)	<i>Grasses, roots Stems, leaves</i>
	1-3	<i>Sand as above</i>			<i>FBR0070071850</i> (Full)	
	3-10					
						<i>AG 12.05.03</i>

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): ~~12-27-03~~ Su (M) Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Ronda Bailey Jiggs Ennis
Chad Cannell
Andy Leon

Narrative (include time and location):

1409 Arrive at sample location ~~FBQ-015-008~~⁰¹⁵
1410 Start sampling after ~~FBQ~~ clear
location ~~FBQ-015-008-50~~⁰¹⁵⁻⁰⁰⁹⁻⁵⁰
for explosives, TAL metals, and MS/mistaken
1435 Start 1-3 sample ~~FBQ-015-008-50~~⁰¹⁵
for explosives and metals and MS/MSD
1450 Finish sample go to next location

~~_____

_____~~

AG
~~12-05-03~~

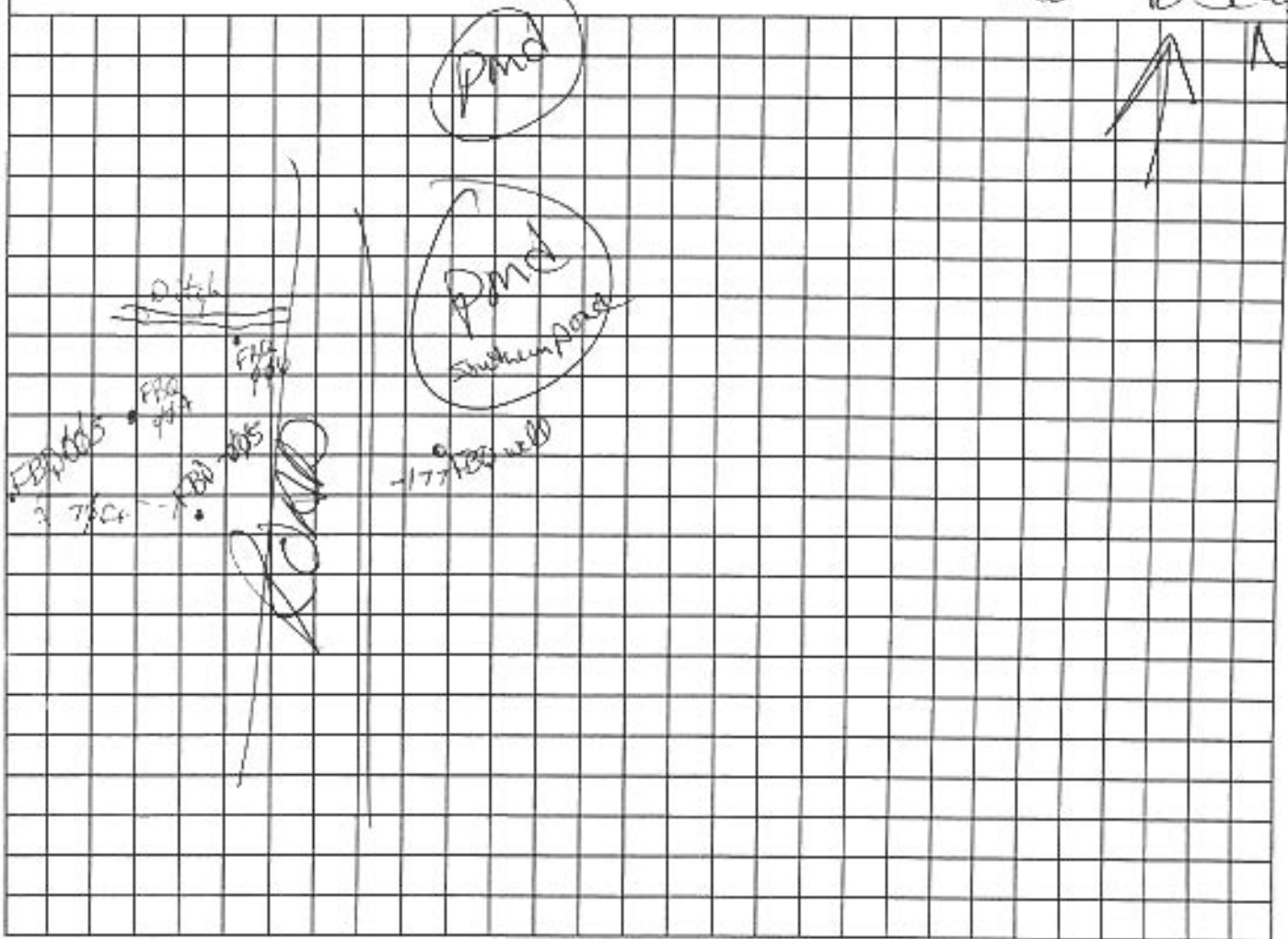
Daily Weather Conditions: A.M. _____

P.M. Sunny, Warm, light breeze SW
Recorded By Chad Cannell QA Checked By Amy Newman

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBQ-005	
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 1 1/2" / Spoon SS 3/4" dia auger Duckbit		8. HOLE LOCATION: FBQ-005		9. SURFACE ELEVATION: n/A	
12. OVERBURDEN THICKNESS: n/A		10. DATE STARTED: 10/20/03		11. DATE COMPLETED: 10/20/03	
13. DEPTH DRILLED INTO ROCK: n/A		15. DEPTH GROUNDWATER ENCOUNTERED: 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		YDC		METALS	
22. DEPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
21. TOTAL CORE RECOVERY		OTHER (SPECIFY)		OTHER (SPECIFY)	
23. SIGNATURE OF INSPECTOR		C. Canale			

LOCATION SKETCH/COMMENTS

SCALE: ~~not to scale~~ North



HTRW DRILLING LOG

HOLE NUMBER: **F80-005**

196

PROJECT: **Fuze & Booster RVAAP**

INSPECTOR: **C. Camall**

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

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0-1	med brownish tan, clay-silt trace sand, coarse, moist med plasticity	0 ppm	N/A	F80-005 009-50	roots, stems
	1-3	graded into either clay silt, or coarse, trace sand med to low plasticity	0 ppm	N/A	F80-005 008-50 010-50	
	3-4					
	4-5					
	5-6					
	6-7					
	7-8					
	8-9					
	9-10					

10-20-03
ce

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10-20-03 Su (M) Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Chandler Canale Jigg Ennis
Ronda Bailey
Andre Leon

Narrative (include time and location):

14:57 Arrive at sample location
FBQ-003

14:58 Start sample FBQ55-003-0005 .50
after Jigg cleared for explosives
and TAC Metals with MS/MSD

15:23 Start 1-3 interval FBQ50-003-0006.50
and take the split for DOC/SVOC, propellant/
PCB, Pesticides/TAC metals, Cr^{VI} and explosives

15:45 Finish sample, go to next location

[Large diagonal scribble across the page]

Daily Weather Conditions: A.M. _____

Recorded By Chandler Canale P.M. Sunny, clear, breeze, 60's
QA Checked By Amy Greenwood

TASK TEAM ACTIVITY LOG SHEET

201

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10-20-03 Su M Tu W Th F Sa

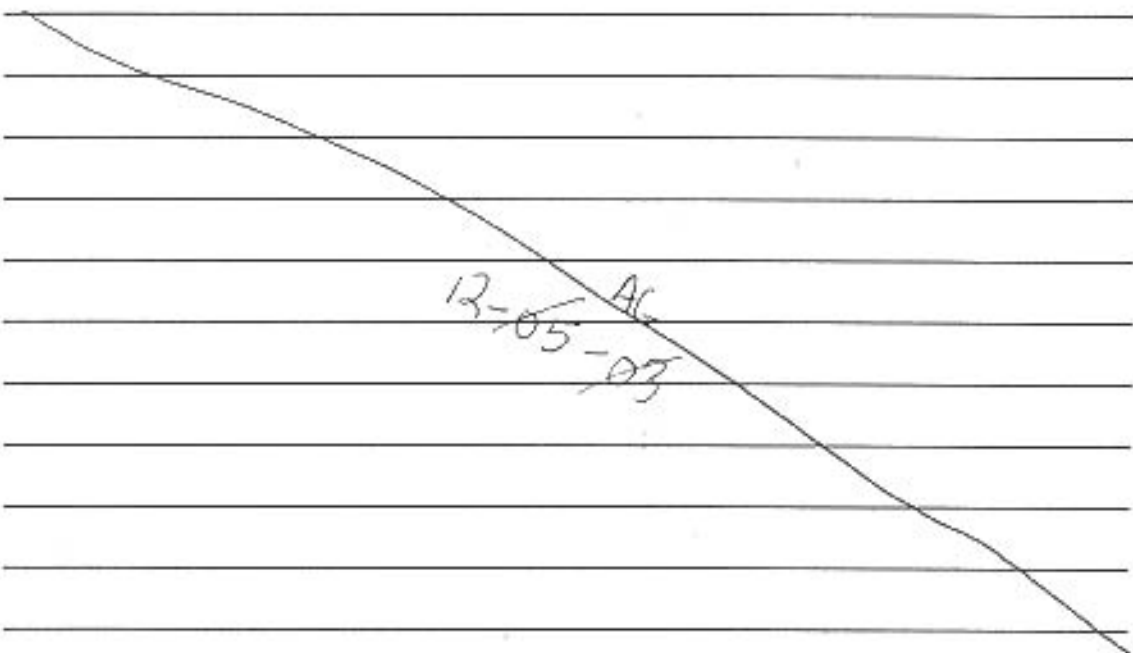
PAGE 1 OF 1

Task Team Members:

<u>Chandra Canalt</u>	<u>Jesse Fennis</u>
<u>Ronda Bailey</u>	
<u>Andrea Leon</u>	

Narrative (include time and location):

1555 Census at sample location FBQ-004
Begin sample #1 FBQ50-004-000750
 1600 Exp, Met + MS/MSD
 1615 Begin 1-3' interval - FBQ50-004-000850
 1618 Refusal center hole 22" (1'10")
 1625 Abandon ~~test~~ site



Daily Weather Conditions: A.M. _____

P.M. Sunny, 100's, clear

Recorded By Chandra Canalt

QA Checked By Amy Greenwald

HTRW DRILLING LOG

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: *RJB*

HOLE NUMBER: FBQ-444
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)
	1-1	Med brn Clayey silt, firm, trace sand, trace gravel, fine to coarse, damp.	ϕ p: $\text{P} \text{ID}$	FBQ 55 11A	110750	Roots, stems
	1-1 1/2	Med brn Sand, silt, trace clay, some gravel, fine-coarse, dry-damp-stiff.	ϕ p: $\text{P} \text{ID}$	FBQ 50 11A	110850	
	2	Refusal @ 1' 10"				
	3	Refusal				
	4	Refusal				
	5	Refusal				
	6	Refusal				
	7	Refusal				
	8	Refusal				
	9	Refusal				
	10	Refusal				

TASK TEAM ACTIVITY LOG SHEET

205

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 1/2/03

Su (M) Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Ronda Bailey _____ Jiggs Ennis _____
 Andre Leon _____
 Chantelle Curroll _____

Narrative (include time and location):

1634 - Arrive @ FBQ 646. Checked by Jiggs. Begin
 0-1 interval
 1639 - Retrieve Exp Sample FBQ sop 644 130
 1642 - Retrieve met sample a mslmsr sample
 1645 - Begin 1-3' interval
 1656 - Retrieve met/Exp Sample FBQ sop 644 1250
 1744 - ^{Leave} Abandon Site

12 AG
 -05-03

Daily Weather Conditions: A.M. _____

P.M. Sunny, 60°F

Recorded By _____

QA Checked By _____

HTRW DRILLING LOG

HOLE NUMBER: F02066

208

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'	Olive br. claysilt. Trace Sand, trace gravel, soft. Damp. A mottling @ 6"	P10-φ.4	F02066/16	4/11/50	feels, stans.
	1-3'	Same as above: orange mottling with gray mottling @ 2'	P10-φ.4	F02066/16	4/12/50	
	2'	@ 2'6" Δ to clayey sand, reddish br. some gravel fine to coarse				
	3'					
	4'					
	5'					
	6'					
	7'					
	8'					
	9'					
	10'					
	11'					
	12'					

12-85-03
 AG

TASK TEAM ACTIVITY LOG SHEET

209

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 1/24/03 Su M Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Randy Bailey

Andre Leon

Jiggs Ferris

Narrative (include time and location):

1705 - Arrive @ FBQ #12. Cleared by Jiggs. Begin
0-1' interval

1715 - Exp sample FBQ ss #12 #23 SO.

1720 - Mat sample

1722 - Begin 1-3' interval

1725 - Mat exp sample SO #12 #24 SO

1730 - ~~Abandon Site~~

AG
12-05-03

Daily Weather Conditions: A.M. _____

P.M. Sunny, 60°F

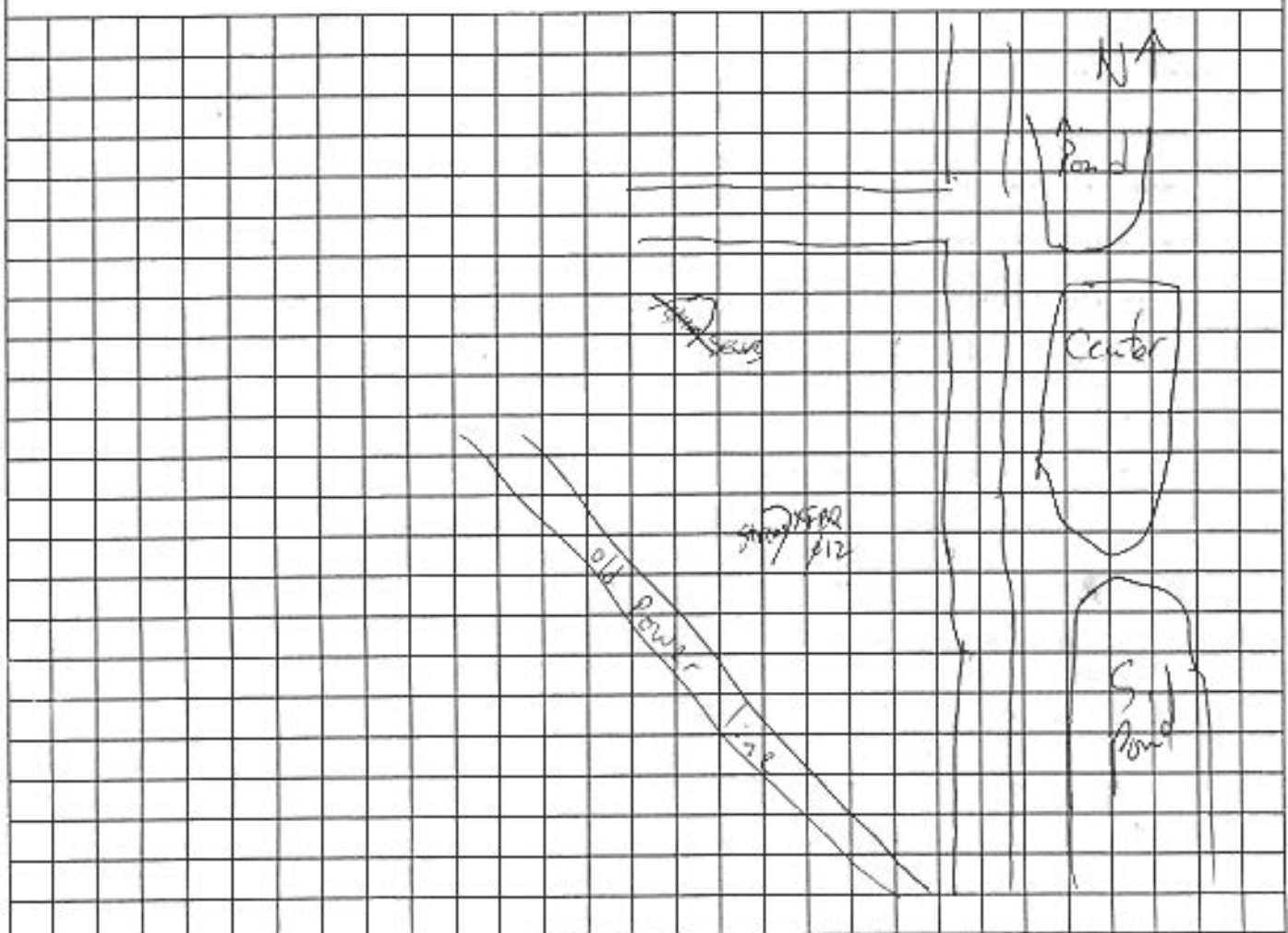
Recorded By Randy Bailey

QA Checked By Amy Greenwood

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBQ-012	
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 J. J. S.			6. MANUFACTURERS DESIGNATION OF DRILL		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT SS 3 1/2" Auger			8. HOLE LOCATION FBQ-012		
			9. SURFACE ELEVATION: n/a		
			10. DATE STARTED: 1/22/03		11. DATE COMPLETED: 1/22/03
12. OVERBURDEN THICKNESS 7/8"			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' 9"			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 activity log		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
				25. SIGNATURE OF INSPECTOR <i>[Signature]</i>	

LOCATION SKETCH/COMMENTS

SCALE:



HTRW DRILLING LOG

HOLE NUMBER: **FBO/12**

212

PROJECT: **Fuze & Booster R/VAAP**

INSPECTOR: *[Signature]*

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

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOLOGIC SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	0'-1"	Olive brn sandy silt, trace clay some gravel - fine to coarse. damp, loose.	Ø/Ø		FBO 5/12/02/2360	Refusal in Perimeter 9" W 1" E 1" S
	1'-3"	Same a/a to 2' Δ to Olive brn clayey silt, some sand & gravel. fine to coarse			FBO 5/12/02/2450	Roots & stems
	2'-9"					Refusal @ 2' 9"
	3'					
	4'					
	5'					
	6'					
	7'					
	8'					
	9'					
	10'					

AG
12-05-03

TASK TEAM ACTIVITY LOG SHEET

1

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/2/03 Su M Tu W (Th) F Sa

PAGE 1 OF 1

Task Team Members:

MFD

Chantelle Carroll

Steve King

Ronda Bailey

Mark Derring

Narrative (include time and location):

MFD

10:20 Arrive on location @ FBQ 055

10:25 S. King clears

10:36 Start sampling @ 0-1 for samp. FBQ55-055-0109-50 for Exps. + Mts.

11:00 Collect 0-1' Exp. samp.

11:05 Start sampling @ 0-1 center hole

11:20 Augering effort halted due to lack of recovery in center hole + refusal in two of three triangle holes. Need to confer w/ DEPA.

* DEPA advised, 'document "refusal" of sampling equipment for each sample site where applicable.'

Daily Weather Conditions: A.M.

Clear, low 40's

P.M.

Recorded By

Mark Derring

QA Checked By

Amy Greenwald

HTRW DRILLING LOG		DISTRICT Louisville			HOLE NUMBER FBQ-055	
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: C. Carroll			6 MANUFACTURERS DESIGNATION OF DRILL: N/A			
7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 55 Spoon/Bowl 33 3/8" dia auger back			8 HOLE LOCATION: FBQ-055			
			9 SURFACE ELEVATION: N/A			
			10 DATE STARTED: 10/2/03		11 DATE COMPLETED: 10/2/03	
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. bgs (auger refusal)			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)
See Activity Log						OTHER (SPECIFY)
22 DISPOSITION OF HOLE: N/A		BACKFILLED: <input checked="" type="checkbox"/>		MONITORING WELL: <input type="checkbox"/>		OTHER (SPECIFY):
						23 SIGNATURE OF INSPECTOR: M. Deering
LOCATION SKETCH/COMMENTS						SCALE: Not to Scale

HTRW DRILLING LOG

HOLE NUMBER: **FBQ-055** 4

PROJECT: **Fuze & Booster/RVAAP**

INSPECTOR: **Mark Deering**

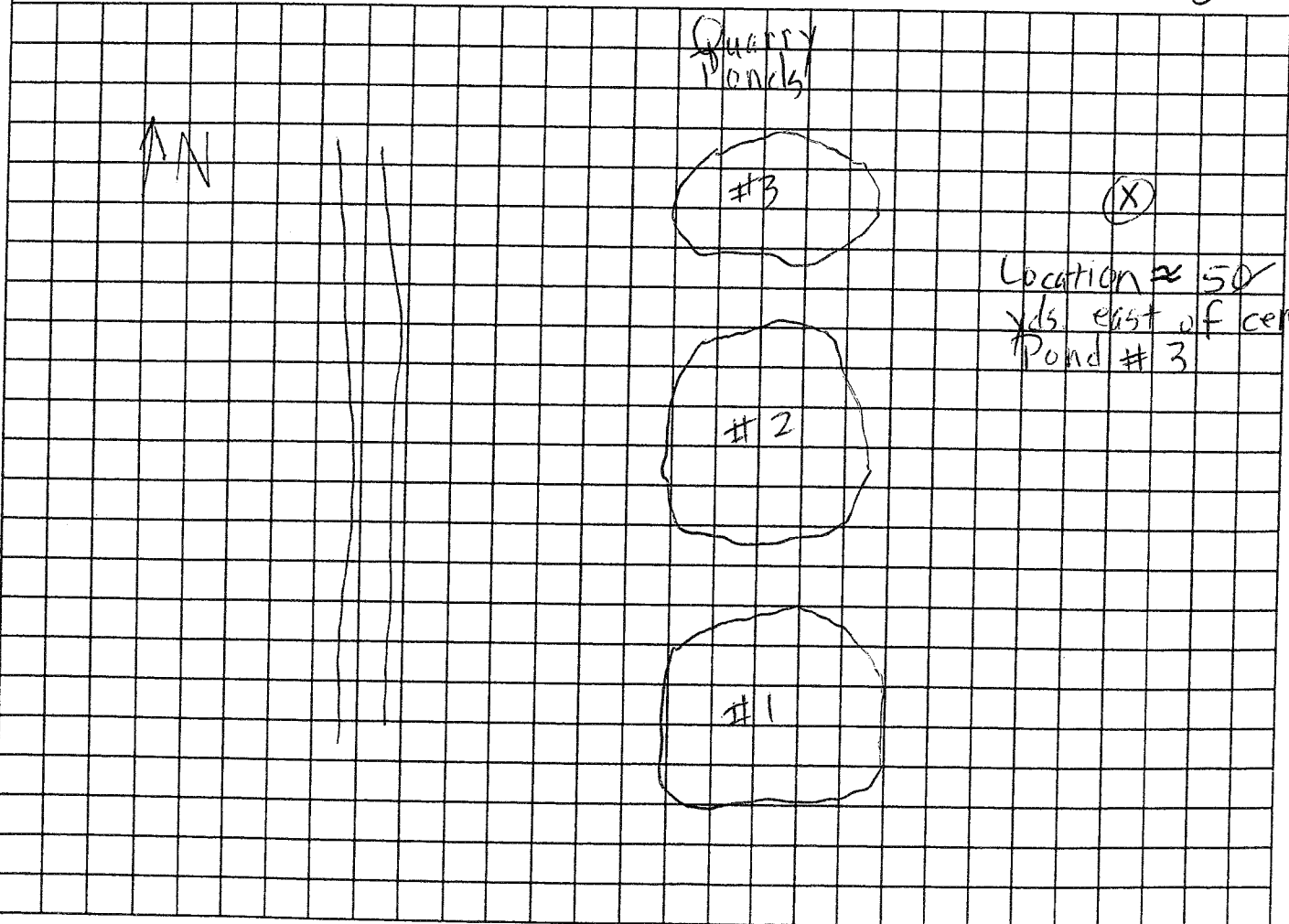
SHEET **1** OF **1**

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	7"	DK. yel. brn silty clay, tr grv, damp, firm olive med	Ø TBM	N/A	FBQ-055/01050	S.W. Exp. hole refusal-8"
	1'	DK. yel. brn clayey silt, tr grv, damp, med dense T.D.	Ø			S. Exp. hole refusal-8"
(Refusal @ 1' bgs)						Augering/sampling terminated at 1' bgs due to refusal + lack of recovery. (Per discussion on site, this day w/ O&E representative)
	2'					
	3'					
	4'					
	5'					
	6'					
	7'					
	8'					
	9'					
	10'					

12-4-03
AB

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER: FBQ-053	
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: R. Bailey			6. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: SS Spoon/Bowl SS 3 1/2 dia auger bucket		8. HOLE LOCATION: FBQ-053			
9. SURFACE ELEVATION: N/A					
10. DATE STARTED: 10/2/03			11. DATE COMPLETED: 10/2/03		
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. bgs (auger refusal)			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		21. TOTAL CORE RECOVERY %	
22. DISPOSITION OF HOLE: N/A		VOC		METALS	
23. SIGNATURE OF INSPECTOR: M. J. Deering		OTHER (SPECIFY)		OTHER (SPECIFY)	

LOCATION SKETCH/COMMENTS SCALE: Not to scale



TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/2/03 Su M Tu W (Th) F Sa

PAGE 1 OF 1

Task Team Members:

Ronda Bailey
Mark Deering
Steve King

Narrative (include time and location):

1417 - Arrive @ FBQ-50. (Pre-cleared by S. King)
1430 - Begin sampling (FBQ-50-1019-50)
1430 - Collect EXP⁺ Metals samples (Note: refusals @ 3", 5", + 6")
1445 - Refusal in center hole @ 8"

(This section of the log sheet is crossed out with a diagonal line. The text "AG 12.4.03" is written across the line.)

Daily Weather Conditions: A.M. _____

P.M. Cloudy, mid-40's

Recorded By Mark Deering QA Checked By Amy Greenwald

HTRW DRILLING LOG

DISTRICT Louisville

HOLE NUMBER
FBG-050

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: *M.A. R. Bailey S. King*

6. MANUFACTURERS DESIGNATION OF DRILL: N/A

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

*55 speed / 13wd
55 45" auger bucket*

8. HOLE LOCATION: FBG-050

9. SURFACE ELEVATION: N/A

10. DATE STARTED: 10/2/03

11. DATE COMPLETED: 10/2/03

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

8 inches bgs (auger refusal) 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

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE RECOVERY %

22. DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

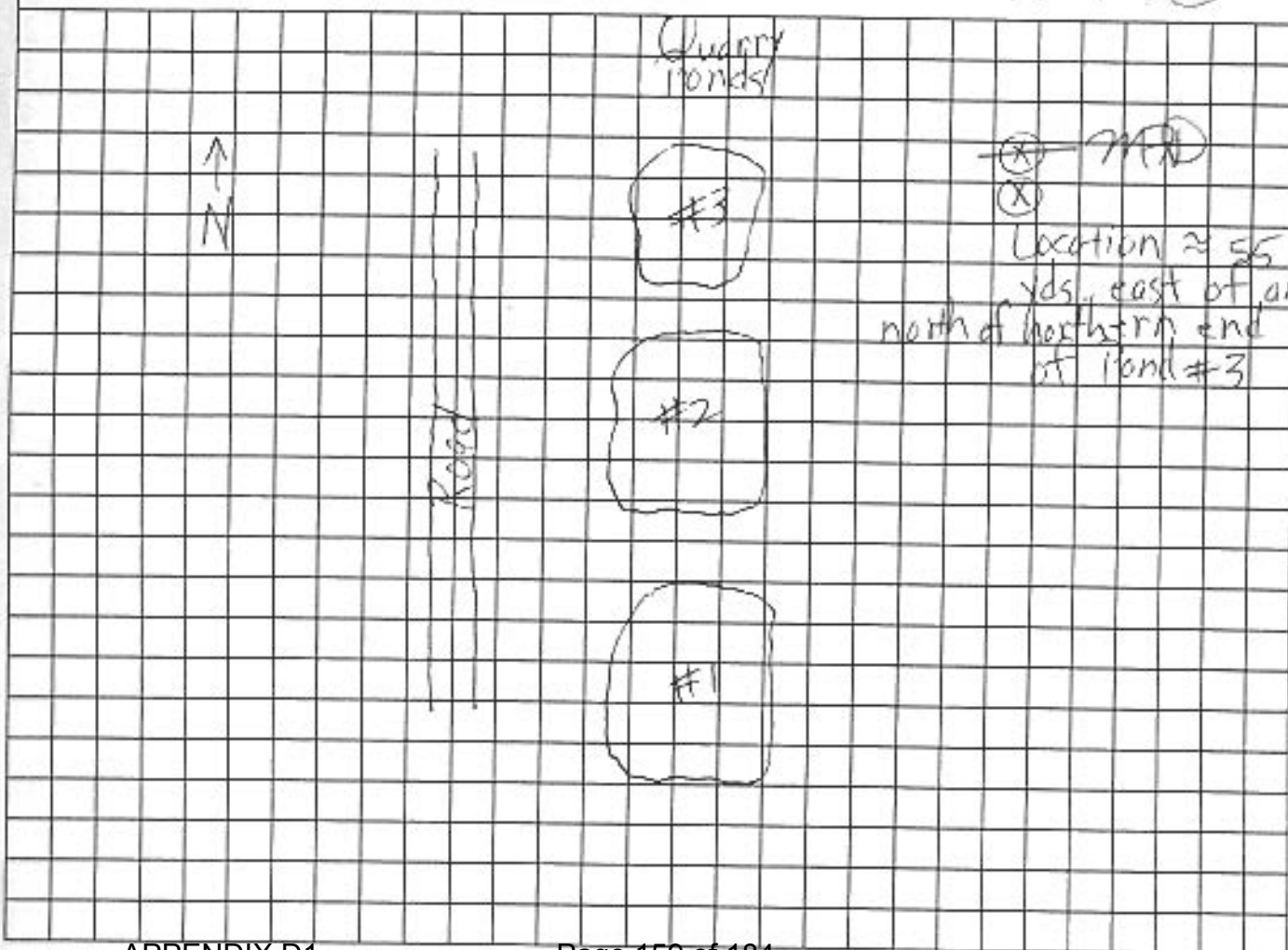
OTHER (SPECIFY)

23. SIGNATURE OF REPORTER

M.A. R. Bailey

LOCATION SKETCH/COMMENTS

SCALE: Not to scale



HTRW DRILLING LOG

HOLE NUMBER: FBQ-054 12

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: Mark Deering

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GDETECH SAMPLE DR. CORE BOX	ANALYTICAL SAMPLE NO. (D)	REMARKS (E)
	8"	Oliv. brn. silty sand tr. - some fn. - med. gravel, damp, loose T.D.	0 PPM	N/A	FBQ-054 05/29/03	Refusal: N. Exp. hole @ 3" S. Exp. hole @ 6" E. Exp. hole @ 5" bgs. Center Exp. hole @ 8"
	1	(Refusal @ 8" bgs)				Auger sampling terminated at this location due to refusal as noted above.
	2					
	3					
	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): 10/2/03 Su M Tu W (Th) F Sa PAGE 1 OF 1

Task Team Members:

MAD ~~Ronda Bailey~~
~~Randy Bailey~~
Mark Deering
Steve King

Narrative (include time and location): (Pre-cleared by S. King)

14:48: Arrived @ location FBQ - 047

15:00: Collect ~~Exp~~^{Metals} samples (Note: refusal @ 2", 4",
+ 8" in exp auger holes) FBQ_{ss} - 047 - 0013-50
(Center hole refusal @ 8")

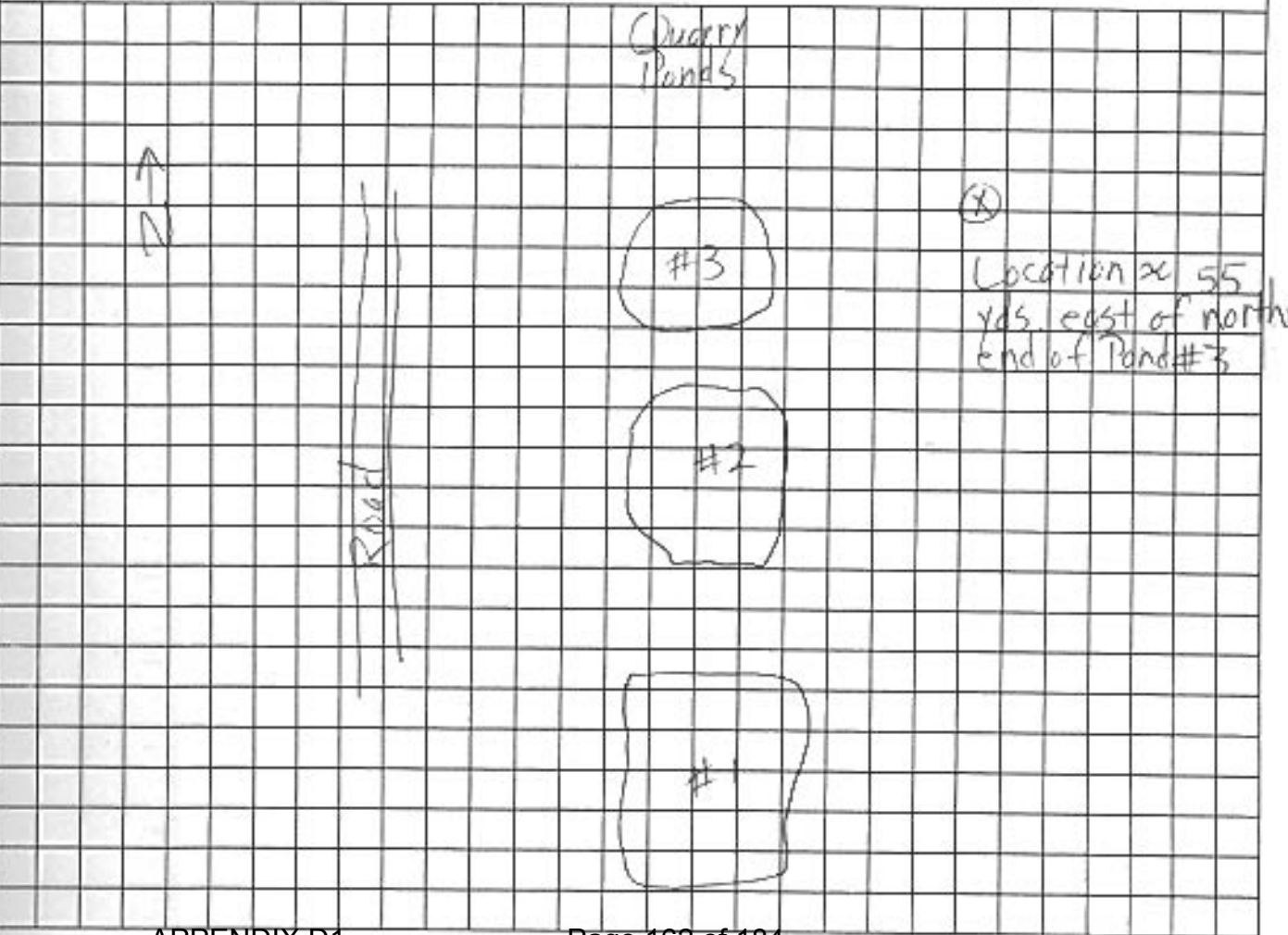
AG
12-04-03

Daily Weather Conditions: A.M. _____

MAD P.M. Cloudy, mid - 40's
Recorded By Mark Deering QA Checked By Amy Freeman

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER 536-047	
1. COMPANY NAME: SpecPro, Inc.		2. DRILL SUBCONTRACTOR: N/A		MFD FBO SHEET 1 of 1	
3. PROJECT: Fuze & Booster/RVAAP			4. LOCATION: Fuze & Booster Quarry Landfill/Pond		
5. NAME OF DRILLER: S. King			6. MANUFACTURER'S DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 35 3/8" dia Auger Bucket			8. HOLE LOCATION: 536-047		
			9. SURFACE ELEVATION: N/A		
			10. DATE STARTED: 10/2/03		11. DATE COMPLETED: 10/2/03
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: 8 inches bgs			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A		
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS: See Activity Log		VOC		METALS	
22. DISPOSITION OF HOLE: N/A		BACKFILL		MONITORING WELL	
				19. TOTAL NUMBER OF CORE BOXES: N/A	
				21. TOTAL CORE RECOVERY: %	
				23. SIGNATURE OF INSPECTOR: M. A. Deering	

LOCATION SKETCH/COMMENTS SCALE: Not to scale



TASK TEAM ACTIVITY LOG SHEET

17

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/2/03 Su M Tu W (Th) F Sa

PAGE 1 OF 1

Task Team Members:

Ronda Bailey

Steve King

Mark Deering

Narrative (include time and location):

(Pre-cleared by S. King)

1610 : Arrived at location FBQ-048

1620 : Begin to sample EXPS ^{+ Metals} @ 0-1' FBQ-048-0495-50 ←

1645 : Begin to sample EXPS + Metab @ 1-2' -re fused @ 2'

FBQ-048-0496

FBQ-048-0493

Daily Weather Conditions: A.M. _____

P.M. Cloudy, mid 40's

Recorded By

Mark Deering

QA Checked By

Amy Greenawald

HTRW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER

FBCQ-048

19

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: S. King

5. MANUFACTURERS DESIGNATION OF DRILL: N/A

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

SS 8" bit/Bowl
SS 3 1/2" dia Auger Bucket

8. HOLE LOCATION: FBCQ-048

9. SURFACE ELEVATION: N/A

10. DATE STARTED: 10/2/03

11. DATE COMPLETED: 10/2/03

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: N/A

20. SAMPLES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE RECOVERY: %

22. DEPOSITION OF HOLE: N/A

BACKFILLED

MONITORING WELL

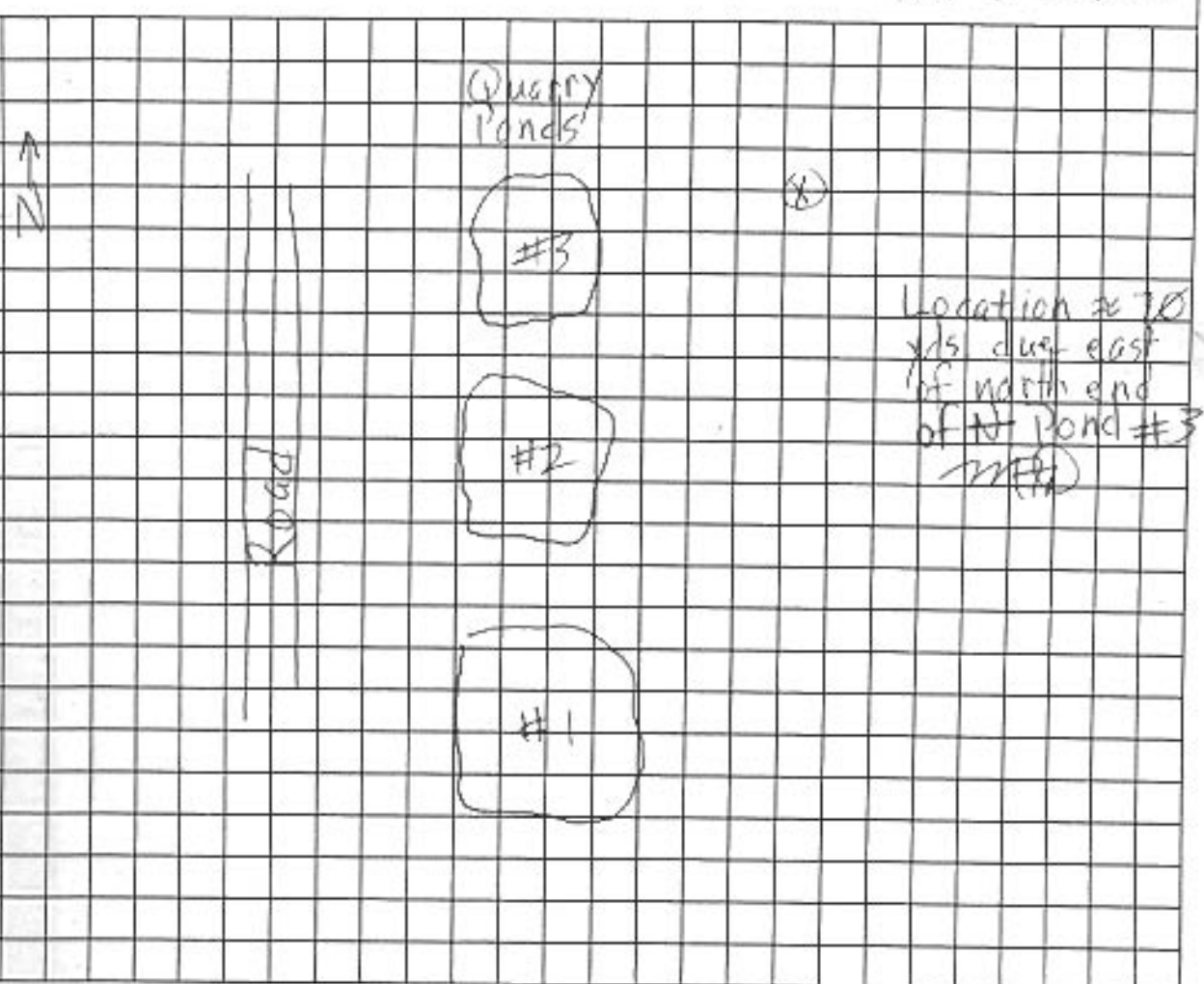
OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

M. F. [Signature]

LOCATION SKETCH/COMMENTS

SCALE: Not to scale



HTRW DRILLING LOG

HOLE NUMBER: FBQ-048-20

PROJECT: Fuze & Booster-RVAAP

INSPECTOR: Mark Deering

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS (D)	GEO TECH SAMPLE OR CORE BOX (E)	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	Dk olv brn silty clay, tr fn gravel, damp, soft, plastic to slightly plastic	Ø PPM	N/A	FBQ-048-005 50	Refusal: N. & S. Exp holes to 1'; E. hole to 8"; Center hole to 1'
	2	Gry brn Clay, tr fn-med sand, damp, soft, plastic to 1.5'; change to lt yel brn Clay, moist, soft plastic to 2'; change to lt gry brn clay Sand, wet, med. dns	Ø Ø Ø	N/A	FBQ-048-006	Center hole refusal @ 2'
	3	(Refusal @ 2' bgs)				
	4					
	5					
	6					
	7					
	8					
	9					

T.D.

T.D.

AK
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): 10/3/03 Su M Tu W Th/F Sa

PAGE 1 OF 1

Task Team Members:

Steve King

Konda Bailey

Mark Deering

Narrative (include time and location):

0915: Arrived @ FBQ-042 (Pre-cleared by S. King)

0918: Commenced augering Exps. holes

0925: Began collection of samples (Exps.: 0-10" ^{FBQ-042 0913-00}; Mets.: 0-10")0935: Terminated auger/sampling due to refusal
@ 10"AG
12/4/03

Daily Weather Conditions: A.M.

Sunny, 41°F

P.M.

Recorded By

Mark Deering

QA Checked By

Amy Freeman

HTRW DRILLING LOG

HOLE NUMBER: *FX-242*

PROJECT: *Fuze & Booster/RVAAP*

INSPECTOR: *Mark Deering*

SHEET 1 OF 1

24

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEO TECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
		<i>Clu brn clayey, sandy Silt, damp, loose, rocks</i>	<i>Ø PPM</i>	<i>N/A</i>	<i>FX- 242- 0003-50</i>	<i>Refusal @ 10" in S. Exp. hole; refusal @ 6" in N. Exp. hole; refusal @ 3" in SW in hole; refusal @ 3" in Center Exp. hole</i>
		<i>T.D. @ 10" bgs (Sampling terminated due to auger refusal @ 10" bgs)</i>				
		<i>AL 12.4.03</i>				

TASK TEAM ACTIVITY LOG SHEET

25

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/3/03 Su M Tu W Th(F) Sa

PAGE 1 OF 1

Task Team Members:

Ronda Bailey
Steve King
Mark Deering

Narrative (include time and location):

(Site-cleared by S. King)

0940: Arrived @ FBQ-037
0942: Commenced augering for Exps. (:K-1'); Metals (:K-1')
0950: Began sample collection (FBQ33-037-0073-50)
1000: Sampling terminated due to auger refusal @ 1' bgs

AG
12-4-03

Daily Weather Conditions: A.M. Partly sunny, 41°F

P.M. _____

Recorded By Mark Deering QA Checked By Amy Greenwald

HTRW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
FBG-137

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: S. King

6. MANUFACTURERS DESIGNATION OF DRILL: N/A

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

25 Spout/Bowl
45 3 1/2" Dia Auger Bucket

8. HOLE LOCATION: FBG-137

9. SURFACE ELEVATION: N/A

10. DATE STARTED: 10/3/03

11. DATE COMPLETED: 10/3/03

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' bgs (auger refusal)

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

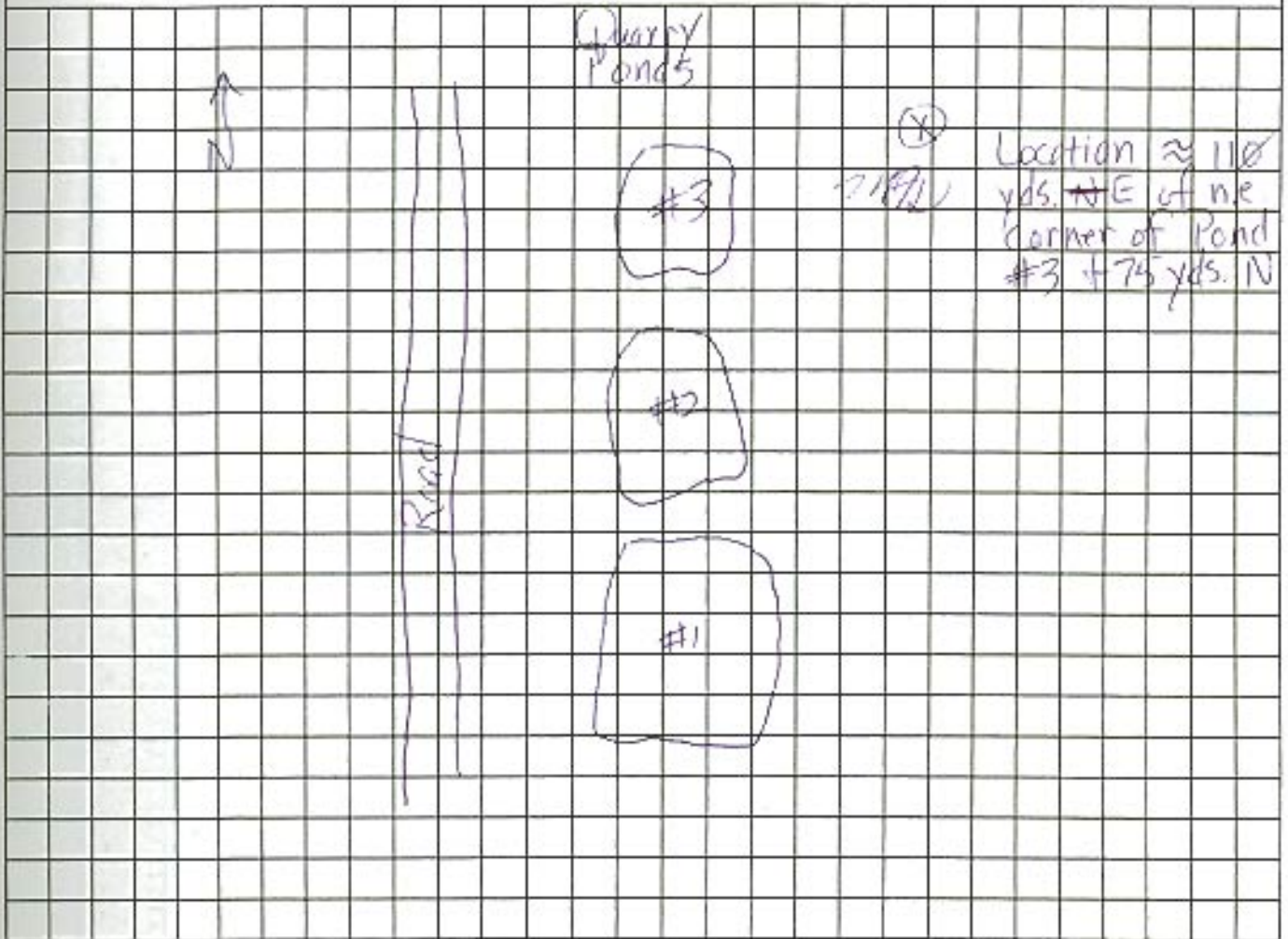
OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

M.F. Wearing

LOCATION SKETCH/COMMENTS

SCALE:



HTRW DRILLING LOG

HOLE NUMBER: FBQ-67

28

PROJECT: Fuze & Booster RVAAP

INSPECTOR

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOCHEM SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Med brn Silt and Grv (fn- med), dry, loose MFA	Ø 7PM	N/A	FBQ-67 107350	Exp. holes refusal: W. - 4", N. - 1", E. - 6"; Center hole refusal - 8"
		(Auger sampling terminated due to refusal @ 1' bgs)				

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/3/07 Su M Tu W Th (F) Sa

PAGE 1 OF 1

Task Team Members:

Ronda Bailey
Steve King
Mark Deering

Narrative (include time and location):

1015 : Arrived @ location FBQ-016
1020 : Cleared by S King
1025 : Commence augering for Exps
1035 : Begin to collect Exp. samples FBQ-016-011-50
1040 : Terminate auger sampling due to refusal @ 1' bgs

AG
12-4-07

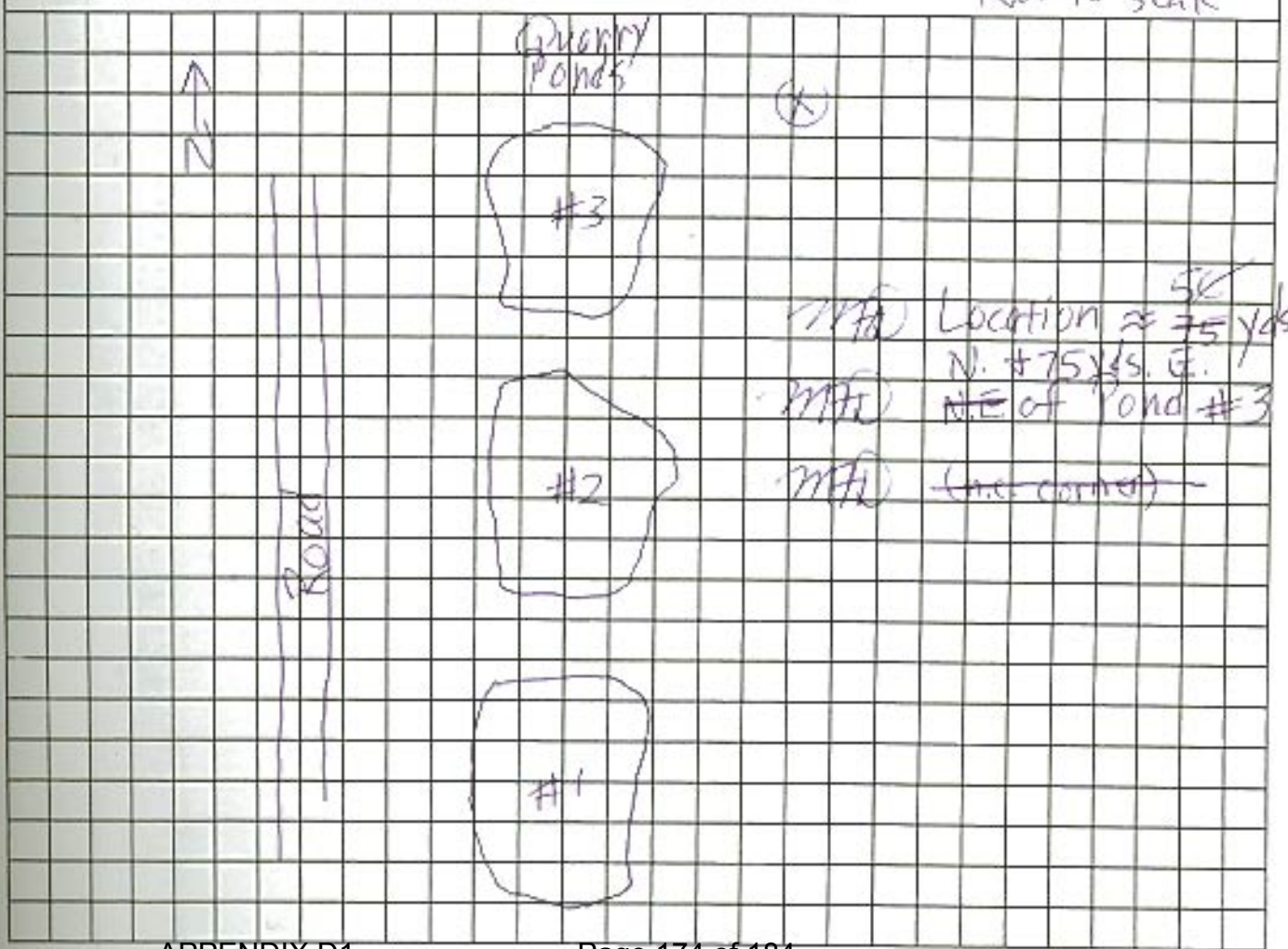
Daily Weather Conditions: A.M. Sunny, 43°F

P.M.
Recorded By Mark Deering QA Checked By Amy Greenwood

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBRQ-046	
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:			6. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: SS Spade/Bowl SS 3 1/2 Dig Auger Bucket		8. HOLE LOCATION: FBRQ-046			
9. SURFACE ELEVATION: N/A					
12. OVERBURDEN THICKNESS: N/A		10. DATE STARTED: 10/3/03		11. DATE COMPLETED: 10/3/03	
13. DEPTH DRILLED INTO ROCK: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: N/A			
14. TOTAL DEPTH OF HOLE: 1' hgs (auger refusal)		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A					
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES		20. SAMPLES FOR CHEMICAL ANALYSIS		21. TOTAL CORE RECOVERY	
See activity log		VOC		METALS	
N/A		OTHER (SPECIFY):		OTHER (SPECIFY):	
22. DISPOSITION OF HOLE: N/A		BACKFILLED		MONITORING WELL	
		OTHER (SPECIFY):		23. SIGNATURE OF INSPECTOR: M. A. [Signature]	

LOCATION SKETCH/COMMENTS

SCALE: Not to scale



HTRW DRILLING LOG

HOLE NUMBER: **FRQ-246** 32

PROJECT: **Fuze & Booster/RVAAP**

INSPECTOR: **Mark Deering**

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 clayey sandy Silt & comp. loose fin-med. grv grv	Ø PPM	N/A	FRQ- 246 019150	Refusal in Exp. hks: E.-1', N-3', S-6' refusal in Center hok -1'
	T.D.		(Auger refusal @ 1' hgs)			
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

RG
12.14.03

TASK TEAM ACTIVITY LOG SHEET

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 11/3/03 Su M Tu W Th (F) SaPAGE 1 OF 1

Task Team Members:

Steve KingRonda BartleyMark Deering

Narrative (include time and location):

1148: Arrived @ FBQ-0411150: Location cleared by S. King1152: Commence augering1157: Begin collecting Exp. (0-1') sample (FBQ 001-041-0001)1156: Begin collecting Metals (0-1') sample1159: Terminate auger sampling due to refusal @ 6" bgs

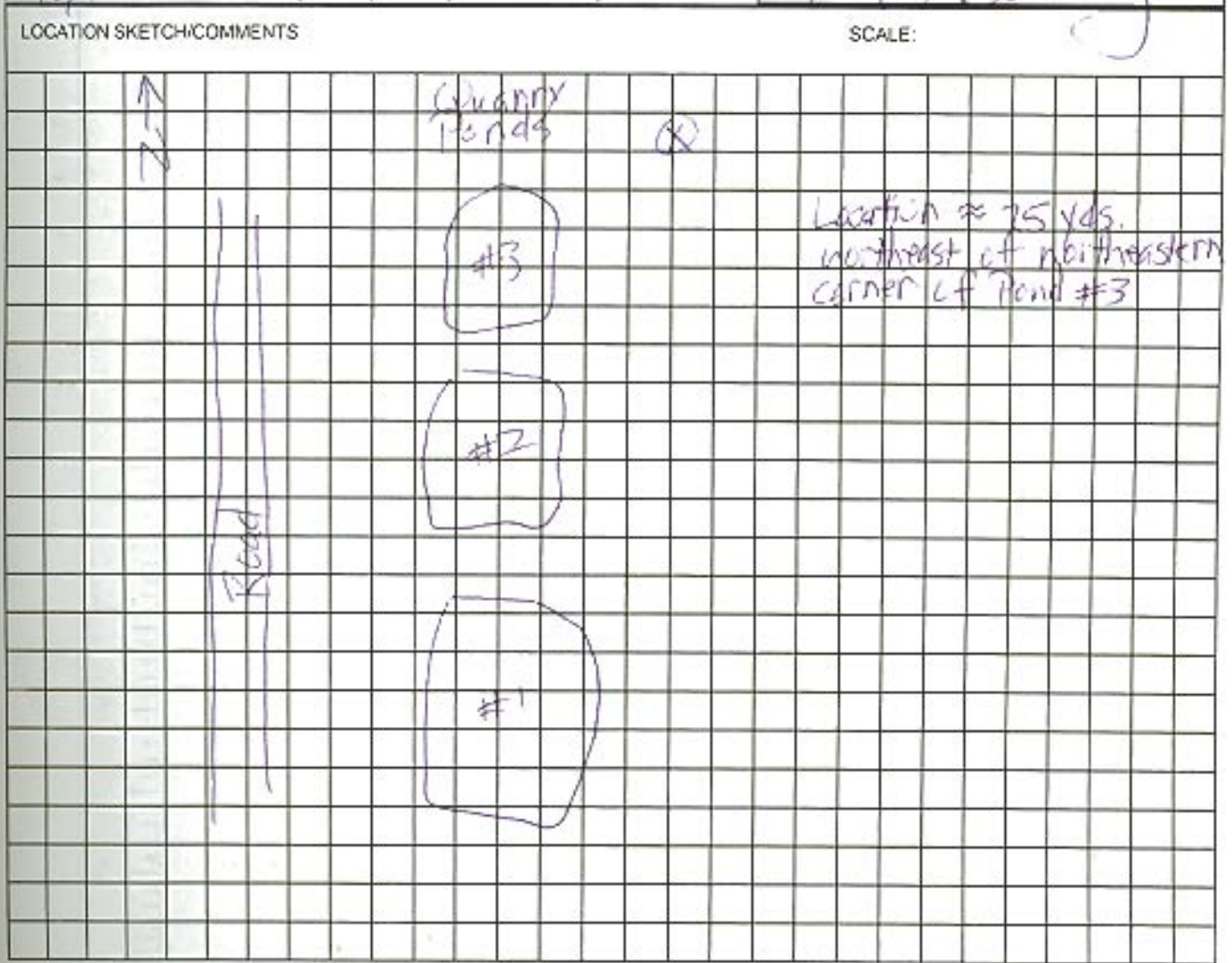
AG
12-4-03

Daily Weather Conditions: A.M. Clear, 45°F

P.M. _____

Recorded By Mark DeeringQA Checked By Amy Greenwald

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBG-411	
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: R. Bailey			6. MANUFACTURERS DESIGNATION OF DRILL: N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 55 - Power Drill 45 3/8 - dia Auger Bucket		8. HOLE LOCATION: FBG-411		9. SURFACE ELEVATION: N/A	
12. OVERBURDEN THICKNESS: N/A		10. DATE STARTED: 11-3-03		11. DATE COMPLETED: 11-3-03	
13. DEPTH DRILLED INTO ROCK: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A	
14. TOTAL DEPTH OF HOLE: 6" bgs (auger refusal)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A			
18. GEOTECHNICAL SAMPLES		DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CONE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS: See Activity Log		VOC	METALS	OTHER (SPECIFY):	OTHER (SPECIFY):
22. DISPOSITION OF HOLE: NA		BACKFILL	MONITORING WELL	OTHER (SPECIFY):	21. TOTAL CORE RECOVERY %
				23. SIGNATURE OF INSPECTOR: [Signature]	



HTRW DRILLING LOG

HOLE NUMBER: FRG-041

PROJECT: Fure & Booster/RVAAP

INSPECTOR: Mark Deering

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)
		Dk olv, brn clayey silt, tr sand, tr - little grav, damp - moist, soft	✓ PPM	N/A	FRG-041-01	Refusal @ 6" in L. Exp hole, 3" in W. Exp hole, 3" in N. Exp. hole! refusal @ 3" in Center hole
	TD	(Auger refusal @ 6" bgs)				
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

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): 10-13-03 Su (M) Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Steve King _____

Bill Drotshaus _____

Charlton Canall _____

~~10-13-03
cc~~

Narrative (include time and location):

09:10 Arrive at location FBQ-043

09:14 Start sampling FBQs-043 - 0089-50

take a full suite (explosives/TAL Metals, Cr+6/
SVOCs/Pigments/VOCs/PCBs, Pesticides)

10" Refusal in center hole

9" Refusal in explosive

8" Refusal in explosive

1" hole no refusal - made it to explosive hole

9:32 Finish sample and go to next
sample location

Daily Weather Conditions: A.M.

Sunny, cool, mid 40s-50s

P.M.

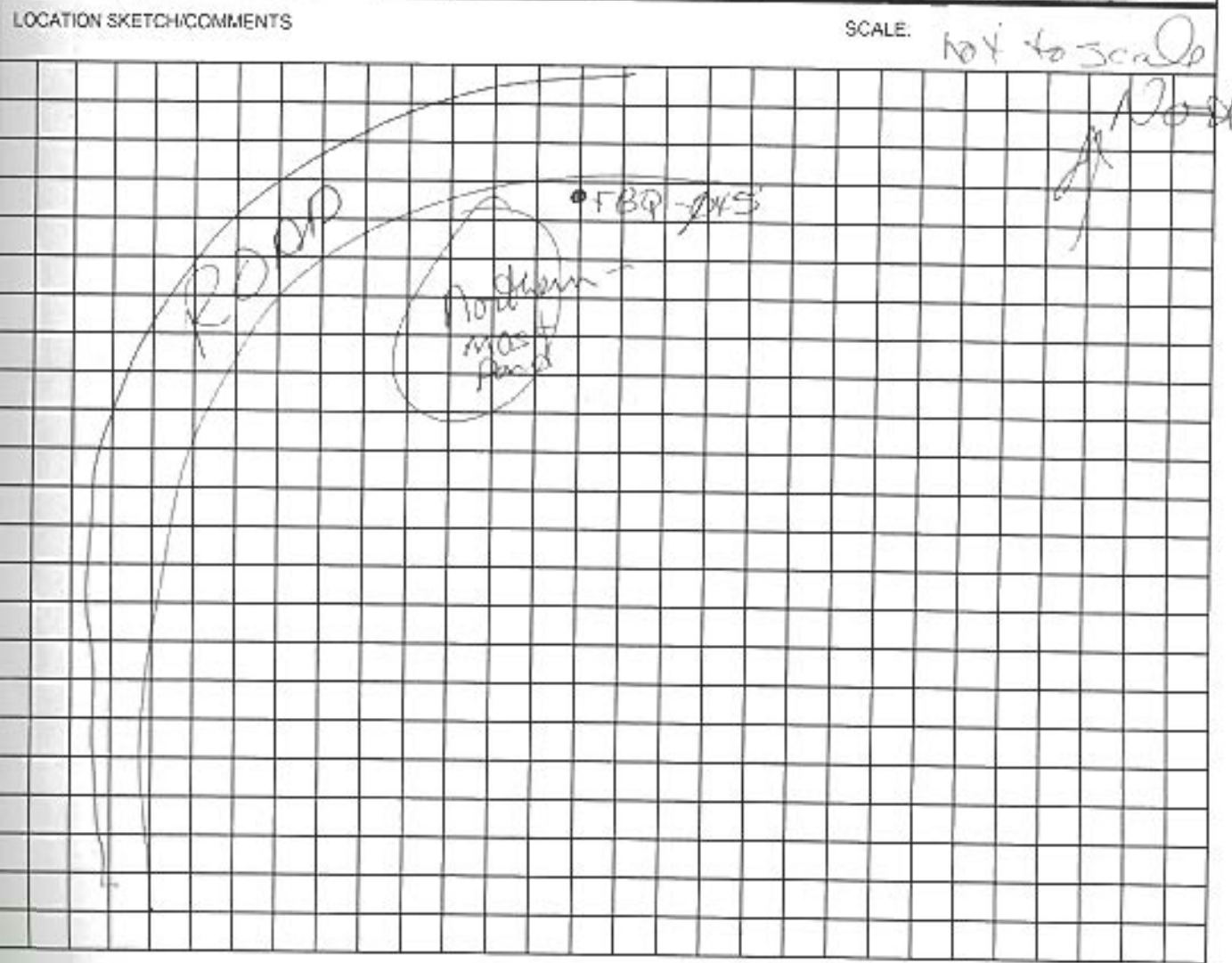
Recorded By

Charlton Canall

QA Checked By

Amy Greenwood

HTRW DRILLING LOG		DISTRICT: Louisville		HOLE NUMBER FBQ-045	
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: Steve King			6. MANUFACTURERS DESIGNATION OF DRILL: n/a		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 33 Bowl / spoon 33 3/2" dia auger / bucket		8. HOLE LOCATION: FBQ-045		9. SURFACE ELEVATION: n/a	
12. OVERBURDEN THICKNESS: n/a		10. DATE STARTED: 10/13/03		11. DATE COMPLETED: 10/13/03	
13. DEPTH DRILLED INTO ROCK: n/a		15. DEPTH GROUNDWATER ENCOUNTERED: n/a		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: n/a	
14. TOTAL DEPTH OF HOLE: 11'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 10'5" Refused - center 9" Refused - center 8" Refused - center 7" Refused - center 6" Refused - center 5" Refused - center 4" Refused - center 3" Refused - center 2" Refused - center 1" Refused - center		n/a	
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES		20. SAMPLES FOR CHEMICAL ANALYSIS: 300 act. log		21. TOTAL CORE RECOVERY: %	
22. DISPOSITION OF HOLE: n/a		VOC		METALS	
23. SIGNATURE OF INSPECTOR: C. Canale		OTHER (SPECIFY)		OTHER (SPECIFY)	
24. SIGNATURE OF INSPECTOR: C. Canale		OTHER (SPECIFY)		OTHER (SPECIFY)	



HTRW DRILLING LOG

HOLE NUMBER: 10-13-03

40

PROJECT: Fuze & Booster/RVAAP

INSPECTOR: C. Canell

SHEET 1 OF 1

ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
		(most) medium - fine sand and to small pebbles, some more to clay, angular to sub- angular pebbles note changes from 10-13-03 not done near present ground	8' 00ppm	WA	10-13-03 #8950	9" explosives hole refusal 8' refusal - explosive few stems, roots
						10.5" refusal center hole
						10-13-03 CC

TASK TEAM ACTIVITY LOG SHEET

41

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

DELIVERY ORDER: 0012

Date (mm/dd/yy): 10/13/03 Su (M) Tu W Th F Sa

PAGE 1 OF 1

Task Team Members:

Steve King

Charles Conell

Bill Doolbaugh

~~10/13/03
cc~~

Narrative (include time and location):

09:40 Arrive on Location L130-000

09:45 Start to sample EBDs-060-0119-50

for a full suite at the 0-1
(explosives/TAL Metals, Cr⁶⁺/SVOC, Propellants/
VOC/PCBs, Pesticides;

7" Refusal in Coker hole

10:03 Due to Refusal in Coker hole - ~~site~~ - site

the 1-3 interval to an explosive hole to go to 1-3 interval

used for comb. hole
• ~~DN~~ for 1-3 interval sample

Take a full suite for EBDs-060-0120-50
(Explos/TAL Metals, Cr⁶⁺/VOC/SVOC, Propell/and
PCB, Pesticides

10:21 Finish Sample go back to building

* Reminder - 1st sample was taken on 10-1-03 and was broken accidentally, location moved approximately 5 ft W of 1st location and resampled. see page 9 in Logbook (Sat) #16 for details.

~~10/13/03
cc~~

Daily Weather Conditions: A.M.

Sunny, clear, calm, mid 50's

P.M.

Recorded By

Charles Conell

QA Checked By

Amy Greenwald

HTRW DRILLING LOG

DISTRICT: Louisville

HOLE NUMBER
FBQ-060

43

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: Dwell King

6. MANUFACTURERS DESIGNATION OF DRILL: n/a

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT:
52 Bowditch
35 3/2" dia auger bucket

8. HOLE LOCATION: FBQ-060

9. SURFACE ELEVATION: n/a

10. DATE STARTED: 10/13/03

11. DATE COMPLETED: 10/13/03

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

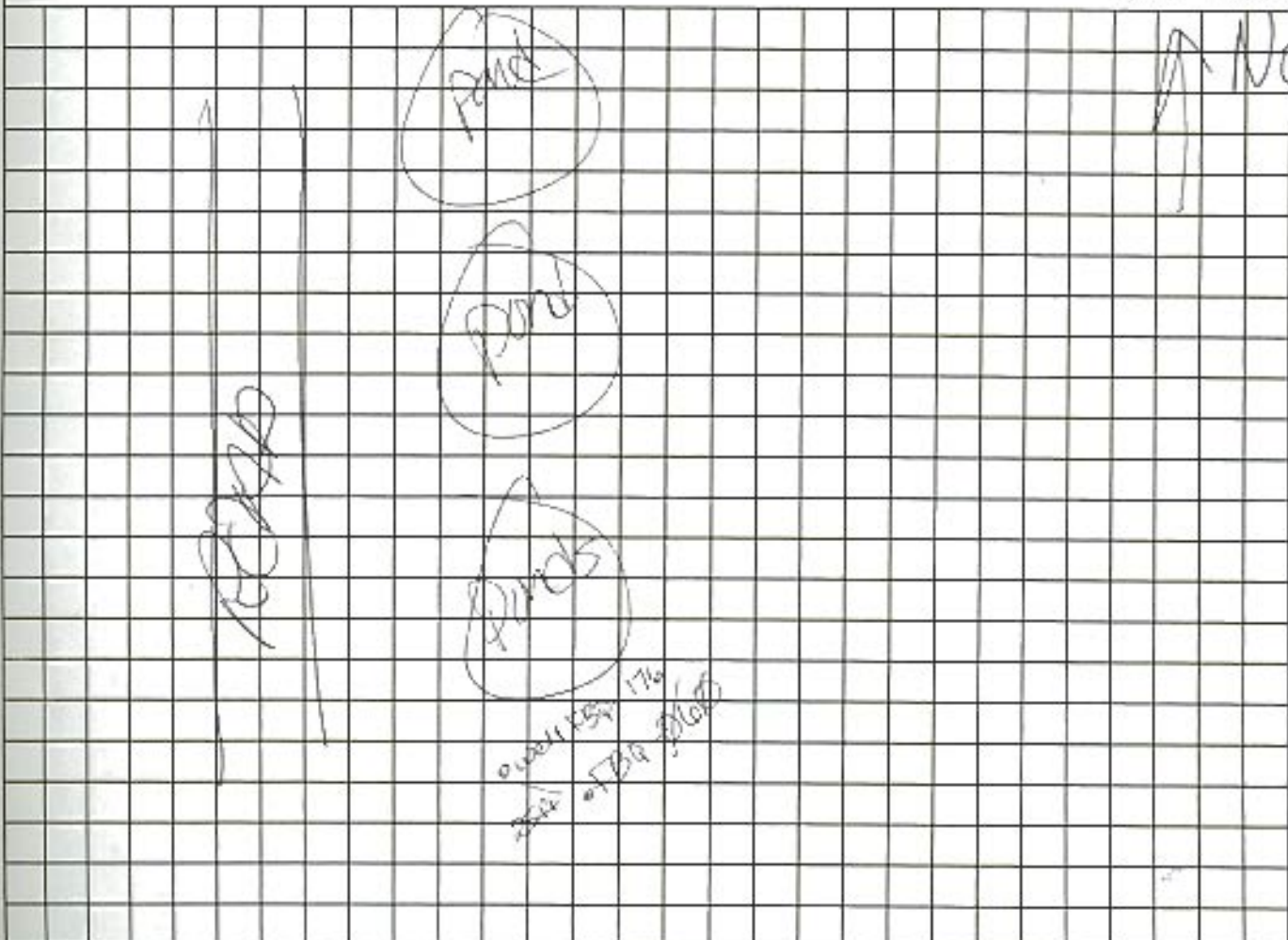
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):
n/a

18. GEOTECHNICAL SAMPLES	DISTURBED		UNDISTURBED			19. TOTAL NUMBER OF CORE BOXES: n/a
20. SAMPLES FOR CHEMICAL ANALYSIS: See Anal. Log	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY: %
22. DISPOSITION OF HOLE: n/a	BACKFILL: <input checked="" type="checkbox"/>	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR: P. Campbell		

LOCATION SKETCH/COMMENTS

SCALE:

not to scale
North



HTRW DRILLING LOG

HOLE NUMBER: **FB3-663**

44

PROJECT: **Fuze & Booster/RVAAP**

INSPECTOR: **C. Conall**

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)
		red to dark brown, silty, fine hr. or sand, moist, soft	ϕ/ϕ ppm	N/A	FB3-663 Z119-50 (Full)	roots, stem throughout
	1	color changes to a more brown silty clay, moist - 20 ft. below	ϕ/ϕ ppm	N/A	FB3-663 Z120-50 (Full)	7" Refusal in Coker hole
	2	color changes to a dark brown brown-silty clay, trace sand course grading into a mottling of red-orange, soft, red to low plasticity				
	3	grading into larger pebbles, white and orange mottling in clay				
	4					
	5					
	6					
	7					
	8					
	9					
	10					

1A-13-03 cc