PLACER EXPLORATION PROGRAM
AT THE OPHIR HILL PROJECT
DAWSON MINING DISTRICT
YUKON TERRITORY

2010 YMIP – FINAL REPORT

Location: 64' 00" 05N, 139' 21" 22W
NTS: 116B03c
Mining District:Dawson
Work Performed: July 2010, to October 2010
Date: January 19, 2011
Brent McNiven

SUMMARY

The Ophir Creek Project is located 7.2km SSE from Dawson city and consists of seven Placer claims staked under the Yukon Placer Mining Act and recorded in the Dawson Mining District. The properties are located on Bonanza Creek and are operated by Rauguth Mining Services under agreement with the registered owners.

This report describes the work program undertaken June to October, 2010, consisting of drilling, trenching and sampling.
The 2010 program accomplished 50 auger drill holes for a total depth drilled of 1,500 feet, and approximately 19 trenches.

The drilling results from this program were successful in identifiable potential mineralized areas, and determining the location and characteristics of the bench gravels.

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INTRODUCTION

This report describes drilling and sampling conducted on the Ophir Hill Claims in the Dawson Mining District, Yukon Territory, NTS map Sheets 116B03c. The work was conducted to locate and explore placer gold deposits that were known to exist in benches on the property.

LOCATION AND ACCESS

The Ophir Hill Property is located on Bonanza Creek in the Dawson Mining District, approximately 7.2km SSE of Dawson, and is centered at approximately 64' 00" 05N, 139' 21" 22W (Figure 1). The Property is accessible by all weather road to within 800m of the existing mining site. All wheel drive is recommended for the final 400m. See Figure 1.

PROPERTY DESCRIPTION

The Ophir Hill Project consists of 7 Placer Claims staked under the Yukon Placer Mining Act and recorded in the Dawson Mining District. The claim locations are shown in Figure 2.

The portfolio of Claims are: Ophir 1, Ophir 2, Ophir 3, Ophir 4, Smokey 1, Smokey 2 and Smokey 3.

EXPLORATION HISTORY

The terraces and paleochannel deposits on both sides of Bonanza Creek have been extensively explored since the original gold rush. The Historic pits and remnants of old exploration and test pits in the immediate area were used to guide exploration.

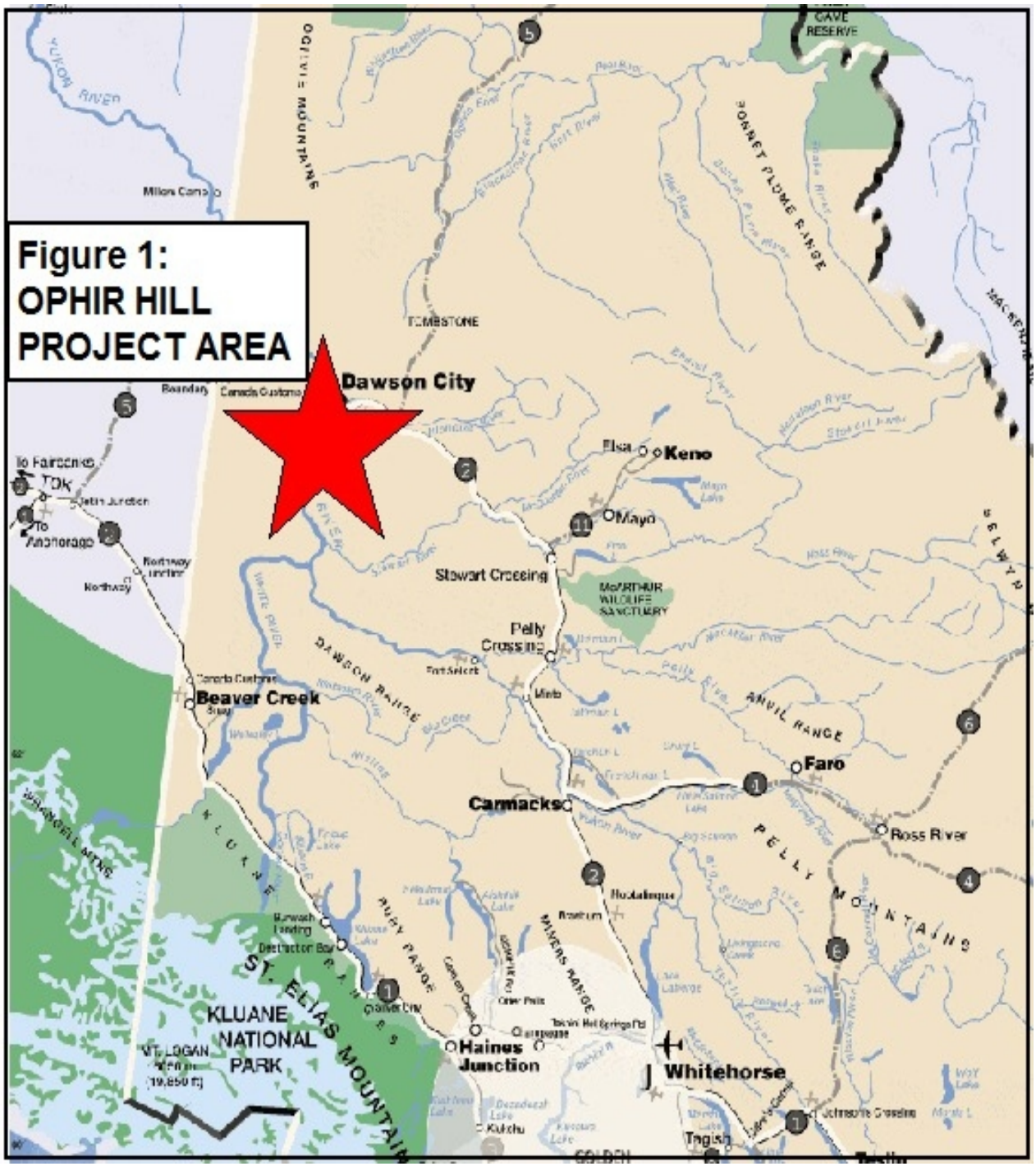
MODERN EXPLORATION HISTORY

Evidence of a prior auger drilling program was noted on the upper (east) part of the Ophir claims, however no information as to who or when it was executed is known. No other systematic exploration was noted that could be considered recent on the Ophir Group of Claims.

REGIONAL GEOLOGY

The geologic map shows that the Ophir Hill Project area is dominated by muscovite and chlorite quartzite, and quartz-muscovite-chlorite schist; quartz and/or feldspar augen-bearing quartz-muscovite schist and includes augen-gneiss and amphibolites that is observed in the auger drilling as grey-green olivine basalts and volcanoclastic.

Figure 1: Property Location Map, Ophir Hill Project



PROPERTY GEOLOGY

Rock Units

Bonanza Creek cuts through the Klondike schists that are were observed in the area to carry gold bearing quartz vein stockworks.

The property is overlain by variable gravels that form occasional residual terraces (benches), separated by areas of relatively thin lag type deposits that rarely exceed 3ft in thickness. Terraces exist to various depths along the face of the hill, however the geomorphology is dominated by "slip off slopes" where a relatively thin layer of gravel and cobble lag remains over highly fractured and weathered bedrock. Top soil consisting of 2 to 3 feet of unconsolidated material overlies the gravels on ridges, and 3 to 5 feet of black muck dominates any lower lying areas.
The terraces generally consist of compact gray to gray/white gravels that often coarse-up to poorly sorted cobble gravels iron stained yellowish / brown to black gravels above. The lag deposits are generally light gray to white gravels characteristic of the White Channel Gravels.
The poorly sorted cobble gravels provided the best gold production during the 2009 and 2010 mining campaigns carried out by Rauguth Mining Services.

Surficial Geology

The paleo channel flowed south which is opposite to modern creek direction, infilling the valley at least to the level of the current White Channel Gravels, and concentrating and depositing the metallic gold. A subsequent uplift and stream reversal changed the stream direction from southerly to northerly and the erosion and deposition of these streams, reworked and redeposited gravels that were later left as terraces and lag.

In all cases, it was noted the bench gravels are more important that the creek gravels contained in the small side drainages. The lag deposits are thin and do not contain significant amounts of gold.

DESCRIPTION OF WORK PROGRAM

Operations

An exploration program consisting of access trail construction, auger drilling, trenching and sampling was conducted per claim as noted in Table 1.

Figure 2: Claims Location Map, Ophir Hill Project
NTS: 116B03c
Dawson Mining District

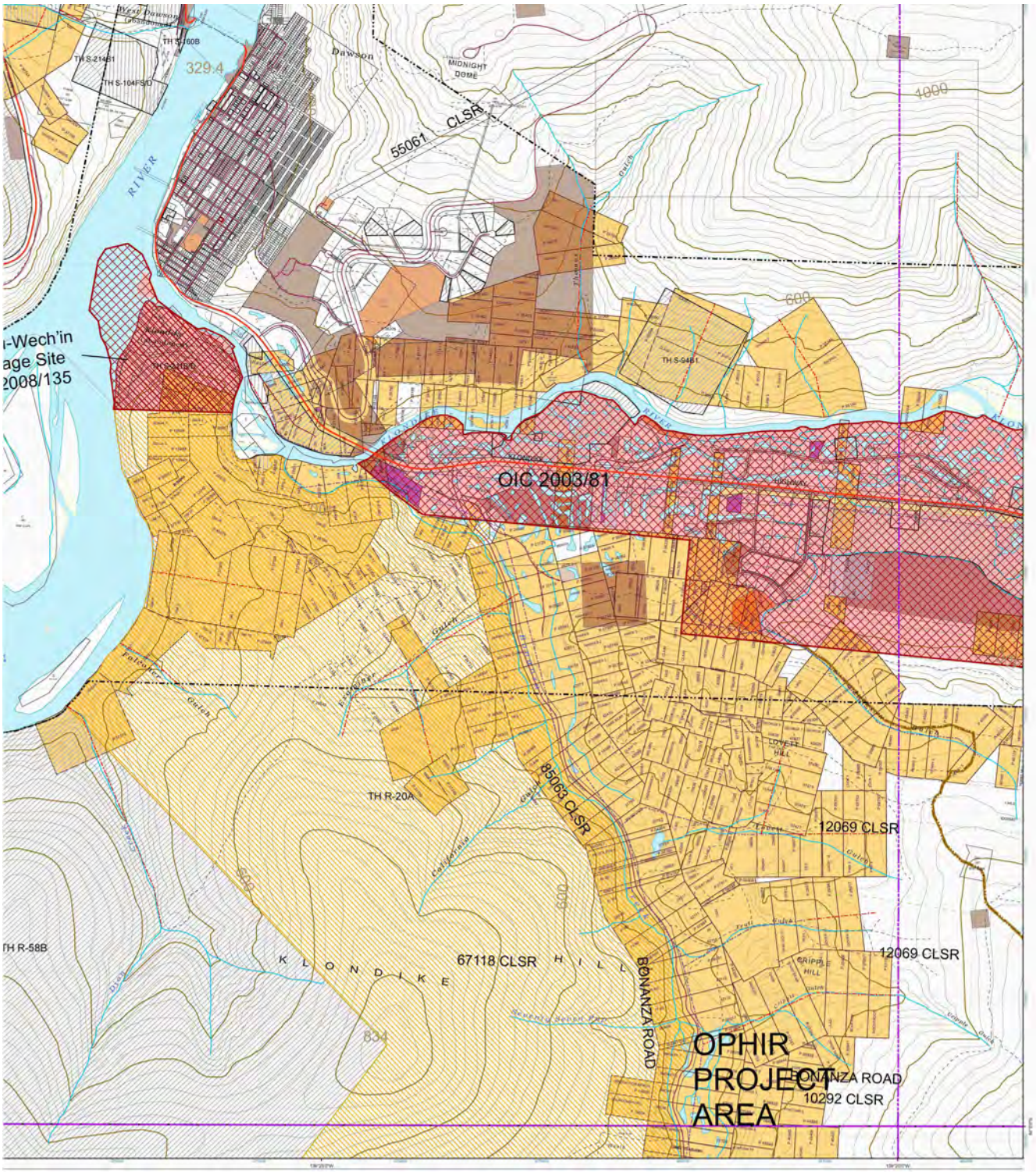


Table 1: Work Completed per Claim

Claim	Drill Holes	Trenches
Ophir 1	1	5
Ophir 2	12	3
Ophir 3	21	8
Ophir 4	1	1
Smokey 1	0	1
Smokey 2	1	1
Smokey 3	0	0
5 B/D	6	0
Northern Sprice	1	0

Trenching:

Trenching was accomplished using a Hitachi Excavator in places where drilling indicated that the ground was not frozen, bedrock could be reached by trenching, and where there was a good likely hood of finding economic gold deposits.
Trenching was generally conducted parallel with the slope, and positioned to cut any inferred paleo channel bars.

Drill Pads and Drill Roads:

Drill pads and drill roads were prepared via a Komatsu Bulldozer, or in some cases a right of way was cut using a power saw.

Topographic Control and Mapping:

Location of drill holes were obtained by GPS.
A theodolite was used to correct elevation and tie in trenches.
Chain and compass was used to orient tracks and roads.

Drilling:

The drilling was undertaken via a 8 inch auger drill driven by a 75 Hp Deutz diesel engine mounted on a 8 ton Nodwell Flextrack track vehicle

Drilling observations:

The attached drill log sheets contain the information obtained during drilling. The material drilled was for the most part frozen, although some holes made water and were abandoned.

Benches exist to various depths along the face of the hill, however the geomorphology is dominated by "slip off slopes" where a relatively thin layer of gravel and cobble lag remains over highly fractured and weathered bedrock.
Gold is often found in these areas, however the material is of insufficient thickness to be economically mined.

The benches when located were sufficiently thick to be considered for mining, and these areas were preferentially targeted.

Occasionally gold was found attached to small fragments of quartz stringers. These suggest that there are bedrock sources of gold relatively near the areas drilled, however no attempt was made to determine location or potential grade.

People Employed

- The project employed four people for the full duration of the project.
- The drill operator
- Drill helper that also was involved in clearing trail, transporting samples etc.
- Sample processor responsible for all aspects of operating and maintaining the sample location, processing samples and maintaining quality control.
- The Project is assisted by one geologist who provided training, mapping, topographic control, project overview and reporting.

Heavy Equipment Employed:

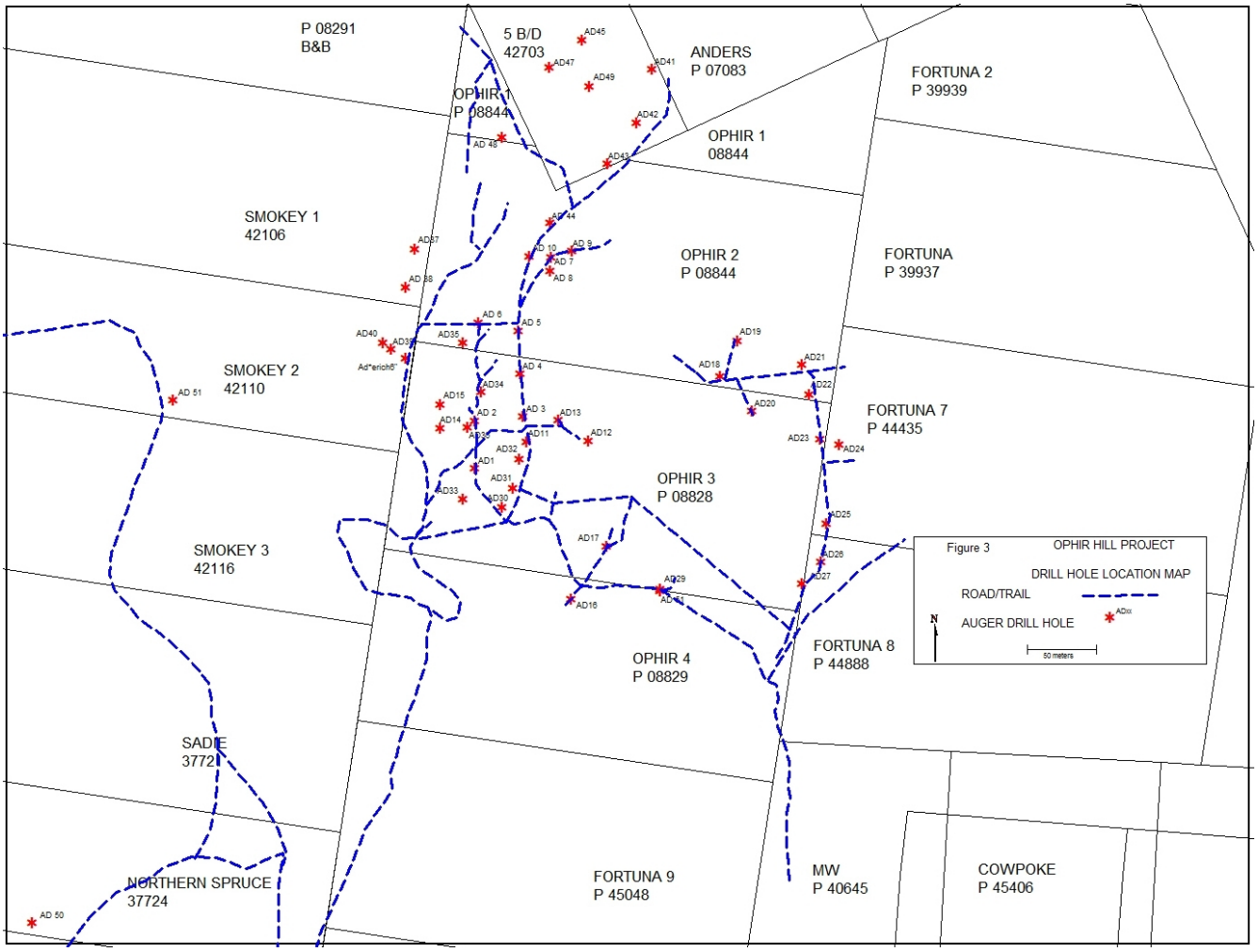
- Komatsu Bulldozer
- Hitachi Excavator
- Nodwell 160 (8 ton) Tracked Vehicle with Auger Drill

Specifications.

Drilling was completed to the following specifications:

Hole diameter: 15.24 cm (8")
Hole depth: Drilling was completed to the first indications of bedrock contact, plus up to 20ft to ensure adequate penetration of the weathered zone and compensate for any slumping or creep.
Estimated average hole depth is 20 feet.

Figure 3: Drill Hole Location Map, Ophir Hill Project



Hole marking: Holes were marked with cut off trees and marked with flagging.
Locations: Hole locations were surveyed with a non-diferential GPS using WAAS relative to NAD83 Zone 7N UTM (metric) coordinates, and later a survey traverse using at LTI Laser Theodolite was used for confirmation. Elevations were determined from topographic maps.

Description of Sampling

Location:

The holes locations were determined with a GPS, using WAAS corrected differential locations.

Record Keeping:

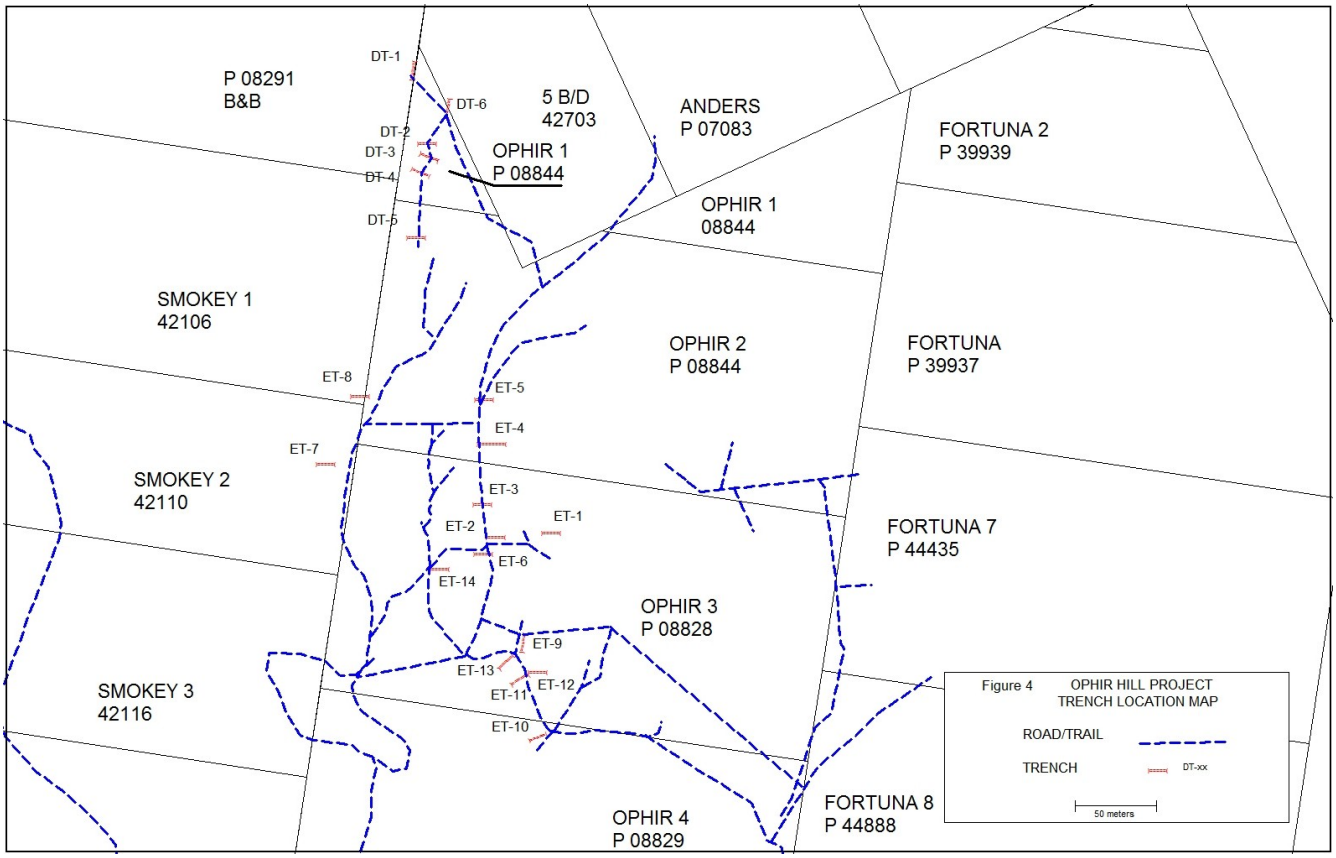
The drill operator records the location, depth of the drill hole, and was trained by the geologist to obtain a comprehensive field description of the material recovered by the auger. Descriptions were taken at a minimum of every 5ft, or more frequently if conditions warranted.
This drill logs were forwarded to the geologist for integration into the project data base.

The sample processing operator was responsible to record the data obtained from all components of the processing.

Sample Collection (Drill)

- Drill samples are collected in 20 liter pails filled approximately ¾ full, capped with a lid, and marked on at least two location with the sample number, drill hole number and interval.
- Samples were transported off the drill pad by pickup, ATV, or by Nodwell as conditions warranted.
- Sample selection follows a criteria that rests on the familiarity gained during the processing of the samples, and in most cases was one sample pail per flight, except when material that appeared to be bedrock was penetrated for extensive distances, when fewer samples were collected.
- Where significant change is noted in lithology during drilling, a sample is taken at the change.
- A small component of sample is taken and and stored to be used for later lithological identification purposes if required, as sample processing destroys the main sample.

Figure 4: Trench Location Map: Ophir Hill Project



Sample Processing:

Grades were calculated using the weight of the recovered gold normalized by the average hole volume over the sampling interval? Due to the small amounts and size of gold recovered, value was estimated based on counting of gold grains and dividing them into classes. A more detailed explanation is follows.

Processing: Installation

- Sample pails being transported from the Exploration site to the support camp located approximately 4 km from the exploration area.
- Sample preparation and processing takes place in a 15x30 Tent structure that is heated via a 200 liter wood burning stove, augmented with a 200 liter heat exchanger. (2 x 45 gallon drums mounted one on top of the other).
- The pails are stored on a elevated table in a heated tent where the samples are able to thaw completely before processing.
- A 12" x 48 " sluice box utilizing expanded metal and rubber mat is used for sluicing the sample. This sluice had been proven effective in recovering all economic sizes of gold in past years at this site.
- The sluice includes a large flat feed plate to allow full control of slurry density and quality, and ensure any clay is dissolved.
- A 200 litre plastic water box was used to provide a controlled environment to pan out the sluice box concentrate.
- An 8 kw diesel generator provides light when required.

Processing of Samples:

- Thawed samples were washed through the sluice and the heavy material is concentrated in the gravity traps.
- The expanded metal and rubber matting is carefully removed and washed along with the balance of the sluice to obtain the trapped material.
- The concentrated material was placed in clearly numbered 4 litre plastic pails
- The concentrate was then reduced in a gold pan to obtain approximately 15 ml of heavy material and the economic gold present in the sample.
- The gold concentrate was stored in small plastic bags waiting further processing.
- At regular intervals, the gold concentrate was further separated using black sand magnets, and other proven methods to separate all possible gold from the concentrate.
- The gold obtained was affixed to a clear plastic adhesive strip that was glued to a card that clearly indicates origin.
- The remaining concentrate was returned to the small plastic bag.
- Gold on the card and plastic bag are placed in an envelope and stored.
- The drill hole number serves as identification for all samples. Depending the location and material the samples are processed separately by material and depth or together as a complete drill hole

QA/QC

- The sluice and all equipment was confirmed clean of any contamination before being re-assembled for use.
- All related equipment and material that came in comtact with the sample was cleaned after every use, and checked and confirmed clean before subsequent samples were run.
- Samples were kept covered until actual processing was undertaken
- Samples being stored while waiting for subsequent processing were kept in a dedicated area and were covered.
- A large basin was located at the end of the sluice such that it would trap any gold particles that escaped from the sluice. This material was tested after each sample to ensure that the gold was indeed captured.
- During panning of the concentrate, the reject material was collected and was tested for presence of gold at the completion of the sample.

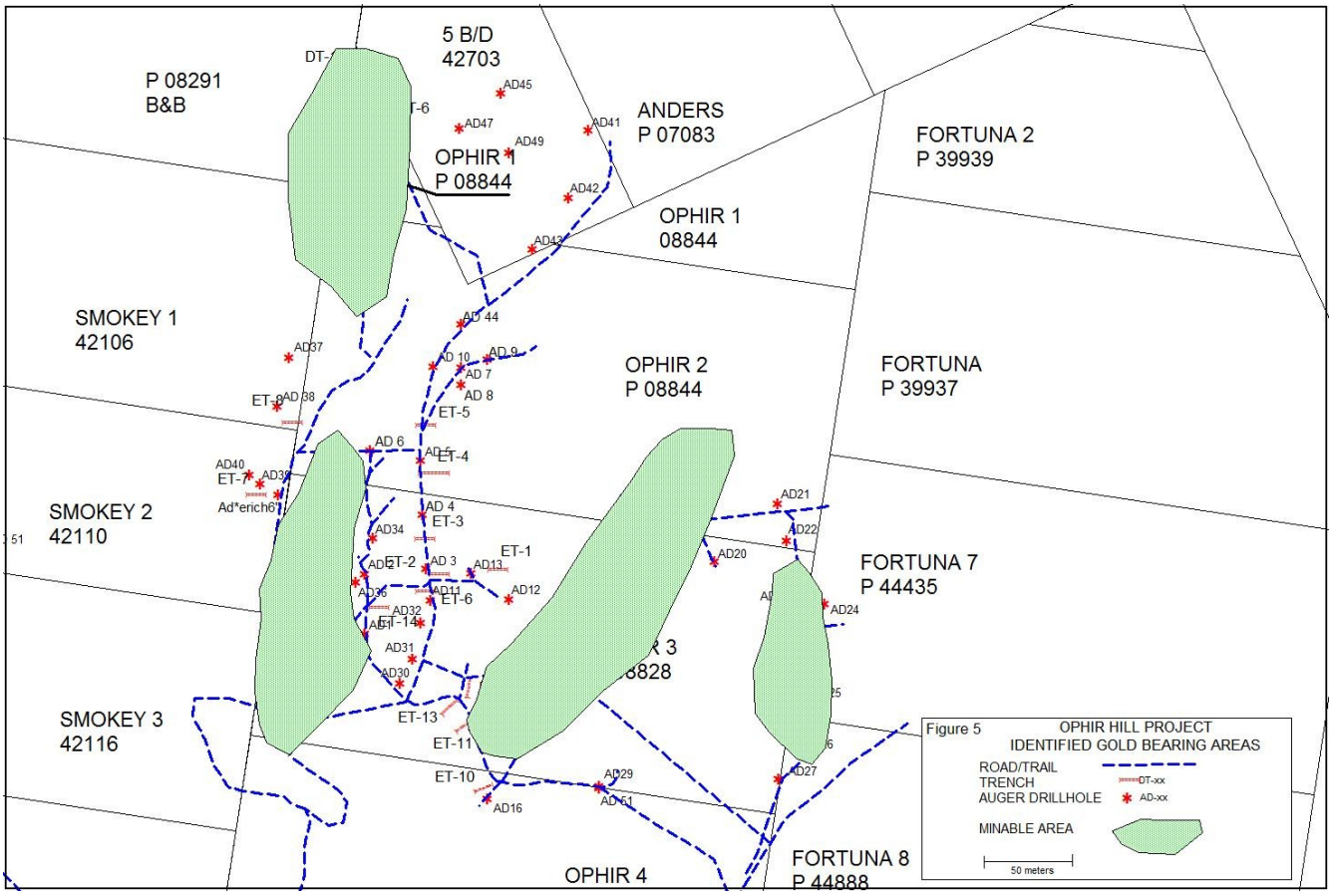
ECONOMIC EVALUATION OF SAMPLE

- To reduce costs and decrease delays caused by using assay laboratories, non assay methods were used in evaluating the gold obtained, primarily due to the low visible gold content. When sufficient sample were obtained, the gold was weighed.
- The majority of the samples did not provide sufficient gold to be weighed and value was established by using the following formula, and counting the individual pieces and assessing their size:
- Using US 1100 as benchmark gold price
- Adjustment from Mine Gold purity to Troy where Ophir Gold historically is approximately 79 % pure.
- Intermediate/coarse 2200 pieces , -10 mesh + 20 mesh = 1 oz troy.
    - 1 color values approximately $0.014 .
- Fine Gold. 12000 pieces , - 20 mesh + 40 mesh = 1 oz troy
    - I piece values approximately $0.001
- Flour Gold 40000 pieces, - 40 mesh = I oz troy
    - 10 pieces value approximately $ 0.003

DATA

- Drill hole locations are presented in Appendix A.
- Drill hole gold recovery is presented in Appendix B
- Drill hole lithologic logs are presented in Appendix C

Figure 5: Economic Gold Bearing Gravels, Ophir Hill Project



CONCLUSIONS & RECOMMENDATIONS

The drilling and trenching were sufficient to adequately test potential bench sites on the hill, and findings correlated well with geomorphological field observation.
The drilling methods worked well, and correlated well with trenching results.
The processing methodology was effective and QA/QC tests indicated that most of the economical gold was indeed recovered in the test sluice.

The results were correlated with field observations and various mining plans were evaluated and it was concluded that:
Gold is present in nearly all locations however economic deposits are limited.
Economic quantities of gold sufficient to extend the existing pit approximately 50ft to the east exist, and also to mine relatively shallow material for about 200 feet between drill holes AD 23 to AD 25, however the amount of available material would be quickly exhausted.
Between AD 17 and AD 19, there exists very fine to fine gold in potentially economic grades, however mining costs are high and recovery will be difficult.
The area between Trenches DT-1 to DT-6 are considered to demonstrate sufficient potential to mine.

RECOMMENDATION:

The potential for continued economic extraction of gold in this area is not likely to be effective, and no further exploration work is recommended on these claims.
Continued extraction of the known gold bearing gravels related to the existing mining operations should continue..

APPENDIX A:

OPHIR HILL PROJECT AUGER DRILL LOCATIONS				
Point	EAST	NORTH	Depth Feet	Date
AD*erich6"	580388	7098340		
AD1	580440	7098262	38	09/28/10
AD2	580439	7098296	38	09/29/10
AD3	580474	7098300	25	09/29/10
AD4	580471	7098331	40	09/30/10
AD5	580469	7098362	15	09/30/10
AD6	580440	7098367	10	09/30/10
AD7	580491	7098416	30	10/01/10
AD8	580491	7098406	35	10/01/10
AD9	580506	7098421	50	10/10/10
AD10	580475	7098416	35	10/02/10
AD11	580477	7098282	9	10/03/10
AD12	580522	7098284	37	10/03/10
AD13	580500	7098298	36	10/04/10
AD14	580414	7098290	22	10/05/10
AD15	580414	7098307	23	10/05/10
AD16	580513	7098169	35	10/05/10
AD17	580537	7098208	30	10/05/10
AD18	580616	7098333	36	10/06/10
AD19	580628	7098359	20	10/06/10
AD20	580640	7098309	21.5	10/06/10
AD21	580675	7098343	21	10/08/10
AD22	580681	7098322	22	10/08/10
AD23	580690	7098290	35	10/08/10
AD24	580704	7098286	29	10/08/10
AD25	580696	7098229	26	10/09/10
AD26	580693	7098201	36	10/09/10
AD27	580680	7098185	43	10/10/10
AD28	580577	7098177	41	10/13/10
AD29	580577	7098178	41	10/13/10
AD30	580461	7098234	45	10/14/10
AD31	580468	7098248	42	10/14/10
AD32	580472	7098269	36	10/14/10
AD33	580432	7098239	35	10/15/20
AD34	580443	7098317	43	10/15/10
AD35	580429	7098352	46	10/16/10
AD36	580434	7098291	38	10/16/10
AD37	580392	7098419	35	10/19/10
AD38	580386	7098391	20	10/19/10
AD39	580377	7098346	26	10/19/10
AD40	580371	7098351	22	10/20/10
AD41	580560	7098554	27	10/20/10

OPHIR HILL PROJECT AUGER DRILL LOCATIONS				
AD42	580550	7098515	22	10/20/10
AD43	580530	7098485	15	10/21/10
AD44	580490	7098441	34	10/21/10
AD45	580509	7098574	23	10/21/10
AD46	580486	7098553	24	10/22/10
AD47	580453	7098502	17	10/22/10
AD48	580515	7098540	38	10/23/10
AD49	580129	7097924	12	10/26/10
AD50	580220	7098305	30	10/26/10

APPENDIX B

Ophir Hill Project: Gold Recovery Log				
Point	Samples Pails	Au Points	Au Weight see Note	Au per Yrd/3 see Note
Ad*erich6"	No Sample			
AD1	4	140	0.036	1.100
AD2	7	25	0.008	0.000
Ad3	3	5	0.000	0.000
Ad4	3	24	0.016	0.220
Ad5	2	98	0.022	0.340
Ad6	1	3	0.000	0.000
Ad7	3	62	0.023	0.400
Ad8	4	50	0.015	0.140
Ad9	5	52	0.024	0.290
Ad10	4	51	0.018	0.300
AD11	1	36	0.006	0.110
AD12	4	26	0.001	0.000
AD13	5	64	0.002	0.390
AD14	3	13	0.003	0.005
AD15	4	61	0.022	0.450
AD16	5	16	0.004	0.000
AD17	4	47	0.024	0.360
AD18	6	44	0.054	0.500
AD19	4	101	0.054	0.500
AD20	6	22	0.019	0.270
AD21	4	66	0.014	0.200
AD22	3	90	0.026	0.300
AD23	5	79	0.015	0.150
AD24	5	31	0.020	0.280
AD25	5	19	0.014	0.150
AD26	8	54	0.028	0.360
AD27	8	19	0.020	0.250
AD28	8	0	0.000	0.000
AD29	10 (3doubles)	80	0.017	0.150
AD30	8	49	0.024	0.250
AD31	7	88	0.025	0.330
AD32	8	71	0.026	0.360
AD33	7	77	0.015	0.280
AD34	12	85	0.003	0.210
AD35	7	0	0.000	0.000
AD36	7	29	0.016	0.220
AD37	5	6	0.000	0.000
AD38	3	0.000	0.000	0.000
AD39	5	16	0.002	0.000
AD40	3	0	0.000	0.000

Ophir Hill Project: Gold Recovery Log				
AD41	3	2	0.000	0.000
AD42	4	2	0.000	0.000
AD43	3	3	0.000	0.000
AD44	6	0.000	0.000	0.000
AD45	4	22	0.009	0.000
AD46	6	30	0.017	0.500
AD47	4	36	0.027	0.350
AD48	7	21	0.020	0.300
AD49	1	0	0.000	0.000
AD50	4	0	0.000	0.000

Note: See ECONOMIC EVALUATION OF SAMPLE above for methodologies.

APPENDIX C

Ophir Hill Project: Auger Drill Lithology Log

Point		
Aderich6	NS	NS
AD1		
	Auger 1 (5ft)	Black muck
	Auger 2 (10ft)	Black muck
	Auger 3 (15ft)	reddish brwn gravel – qtz pebbles to 2cm
	Auger 4 (20ft)	same
	Auger 5 (25ft)	same
	Auger 6 (30ft)	sandy, with some gravels, pebbles to 2cm
	Auger 7 (35ft)	same EOH
AD2		
	Auger 1 (5ft)	Black muck
	Auger 2 (10ft)	Black muck
	Auger 3 (15ft)	black muck to 12ft – then reddish gravel brwn, qtz pebbles to 2cm.
	Auger 4 (20ft)	intercalated clays and gravels, cobble to 15cm, subround
	Auger 5 (25ft)	same
	Auger 6 (30ft)	orange sand and gravels with pebbles to 3.5cm,
	Auger 7 (35ft)	same. Pail 7 was taken from last 3 flites EOH
AD3		
	Auger 1 (5ft)	Gravel and cobbles from surface to 15cm subround
	Auger 2 (10ft)	same plus intercalated saturated coarse sands with ~20% clay, white. Pebbles to 3cm

Ophir Hill Project: Auger Drill Lithology Log

AD3	Auger 3 (15ft)	yellow sands – med grained qtz pebbles to 2cm sub round to round
	Auger 4 (20ft)	same
	Auger 5 (25ft)	Bedrock – chloritic schist angular frags. EOH
AD4		
	Auger 1 (5ft)	white gravels and sands with cobbles to 15cm subround
	Auger 2 (10ft)	same
	Auger 3 (15ft)	Green grey sands with pebbles to 2cm, occsnl inter bedded clays
	Auger 4 (20ft)	Pebbles/cobbles rounded
	Auger 5 (25ft)	Grey grn sands ~ 10% clay
	Auger 6 (30ft)	med grains sands , orange, >30% clay orange brwn with qtz pebbles to 4cm
	Auger 7 (35ft)	same
AD5		
	Auger 1 (5ft)	sands, gravels, with cobbles to 10cm
	Auger 2 (10ft)	Inferred chlorite schist bedrock about 8 ft
	Auger 3 (15ft)	Bedrock – EOH at 15ft.
AD6		
	Auger 1 (5ft)	organics to 3ft, sands and gravels
	Auger 2 (10ft)	Bedrock at 7ft. Brwn clay rich shcist – EOH at 10ft
AD7		
	Auger 1 (5ft)	grn grey gravels, sands, 10% clay, 25% silt, balance subround pebbles and cobbles
	Auger 2 (10ft)	same
	Auger 3 (15ft)	same
	Auger 4 (20ft)	same to 22 ft, then change to orange brn, possibly decomposed bedrock. Clay to 80%, occsnl qtz clasts 3mm to 2cm.

Ophir Hill Project: Auger Drill Lithology Log

AD7	Auger 5 (25ft)	same
	Auger 6 (30ft)	same EOH
AD8		
	Auger 1 (5ft)	green gray sands, pebbles and cobbles, up to 15cm, minor clay, quartz and schist clasts
	Auger 2 (10ft)	same
	Auger 3 (15ft)	same
	Auger 4 (20ft)	same to 22ft, then yellow buff brwn sandy with cobbles to 10cm – some silt – up to 15?% clay
	Auger 5 (25ft)	same but up to 30% clay
	Auger 6 (30ft)	same
	Auger 7 (35ft)	same EOH
AD9		
	Auger 1 (5ft)	disturbed ground
	Auger 2 (10ft)	grey/grn sands/silts wi pebbles and cobbles to 18cm. Changes to orange brwn occsl pebbles – clay to >30%
	Auger 3 (15ft)	slight brwn with high clay content no visible clasts. Changes to green/grey with orange sands
	Auger 4 (20ft)	lite brwn with small gravels – sandy and silty with about 20% clays
	Auger 5 (25ft)	same
	Auger 6 (30ft)	same
	Auger 7 (35ft)	same to 32ft then changes to yellow orange, probably wx bedrock
AD10		
	Auger 1 (5ft)	Black muck
	Auger 2 (10ft)	Black muck
	Auger 3 (15ft)	blue grey sands, pebbles and cobbles to 4cm, minor clay, sub angular to sub round schists

Ophir Hill Project: Auger Drill Lithology Log

AD10	Auger 4 (20ft)	yellow orange, clasts as before, >30% clay
	Auger 5 (25ft)	orange /brwn sandy, silty with >30% clays
	Auger 6 (30ft)	Brown – probably decomposed bedrock – heavy clay
	Auger 7 (35ft)	med brwn orange with occasional pebbles EOH
AD11		
	Auger 1 (5ft)	Dark brown-black muddy with gravel and pebbles clayish mud sub round, sub angular
	Auger 2 (10ft)	Green Grey clayish sand with pebbles, sandy silty sub round sub angular.
AD12		
	Auger 1 (5ft)	brown coarse gravel, pebbles 12-20cm sandy w minor clary qtz sub angular sub round
	Auger 2 (10ft)	same
	Auger 3 (15ft)	L.Brown-yellow cobbles 15-20cm sandy sub round qtz,schists
	Auger 4 (20ft)	same
	Auger 5 (25ft)	same
	Auger 6 (30ft)	grey blue, pebbles 5-7cm >30% clays, sandy sub round sub angular qtz
	Auger 7 (35ft)	Grey blue finer pebbles 2.5-3cm, qtz
AD13		
	Auger 1 (5ft)	D,Brown light brown orange sandy gravel cobbles 10cm, sub angular , round qtz schists
	Auger 2 (10ft)	Dark brown cappuccino, dry muddy w cobbles pebbles less 30% clay qtz schist then changes at 8' to green grey cobbles 15-18cm >30%clays
	Auger 3 (15ft)	same
	Auger 4 (20ft)	same
	Auger 5 (25ft)	same
	Auger 6 (30ft)	same

Ophir Hill Project: Auger Drill Lithology Log

AD13	Auger 7 (35ft)	same
AD14		
	Auger 1 (5ft)	Dark brown mud
	Auger 2 (10ft)	Greyish brown Gravely mud then changes to medium brown with pebbles 2.5cm clay sub angular
	Auger 3 (15ft)	Dark brown – same, than changes to d.grey with brown at 13' pebbles, sandy silty 30% clay, then changes to greyish green very fine sands and silty
	Auger 4 (20ft)	Yellow brown white no pebbles fine decomposed schist
	Auger 5 (25ft)	yellow beige cream, clay 50% decomposed bedrock
	Auger 6 (30ft)	same
AD15		
	Auger 1 (5ft)	light brown gravel with pebbles 2.5-4cm clay >30% sandy silty sub angular sub round qtz schists
	Auger 2 (10ft)	Yellow beige pebbles 3.5cm clay 15% sandy silty sub angular qtz and schists then changes to higher clay30% at 8'
	Auger 3 (15ft)	Beige orange l.brown chunkier pebbles 1.7cm lots or qtz angular sub ang.
	Auger 4 (20ft)	yellow beige brown fine gravely 1cm 30% clay
	Auger 5 (25ft)	yellow orange bedrock looking clayey material
AD16		
	Auger 1 (5ft)	Yellow orange pebbles cobbles 10% clay fine sand, silty, schist 7cm
	Auger 2 (10ft)	yellow orange pebbles cobbles 7.5-10cm qtz schists, then color changes to green grey material remais similar
	Auger 3 (15ft)	color similar with clay 60%
	Auger 4 (20ft)	Material changes to 10-15%clay with 2.5-7.5cm pebbles
	Auger 5 (25ft)	23 feet color changes to light brown, 25% clay

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AD16	Auger 6 (30ft)	medium brown pebbles cobbles, 25%clay, schists qtz sub angular sub round
	Auger 7 (35ft)	same
AD17		
	Auger 1 (5ft)	3' mud brown then changes to light briwn sandy pebbles cobbles silty qtz and schists
	Auger 2 (10ft)	choc brown then changes to green grey pebbles clay >25% sandy silty schists qtz sub angular
	Auger 3 (15ft)	choc brown pebbles sandy round sub angular then changes to light green grey light stoned clay >30%
	Auger 4 (20ft)	same
	Auger 5 (25ft)	same
	Auger 6 (30ft)	Brown grey fine pebbles >40% clay sandy silty sub round sub angular qtz schists icm
AD18		
	Auger 1 (5ft)	3' contact light brown gravel cobbles pebbles 10-15cm sandy sub round sub angular
	Auger 2 (10ft)	same
	Auger 3 (15ft)	same
	Auger 4 (20ft)	same then changes at 17' light brown beige pebbles 2.5-5cm very sandy gravel sub angular sub round
	Auger 5 (25ft)	light brown beige pebbles 2.5-4cm clay >30% sandy silty sub angular sub round schist blue and red
	Auger 6 (30ft)	same
	Auger 7 (35ft)	light brown, pebbles 7.5cm clay >30% sandy silty schists blue orange
AD19		
	Auger 1 (5ft)	2' contact Brown light pebbles cobbles 7.5-10cm sandy silty round sub round qtz schists
	Auger 2 (10ft)	medium brown > 30% clay pebbles cobbles 10cm chunky clayish sub round, changes 9' to brown orange decomposed bedrock
	Auger 3 (15ft)	same color decomposed bedrock orange brown mud clay w angular sub angular schists

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AD19	Auger 4 (20ft)	same
AD20		
	Auger 1 (5ft)	2' moss then bkack brown mud
	Auger 2 (10ft)	dark brown choc brown pebbles gravel mixed clay mud muddy clay with gravel qtz sub angular then changes to medium brown caramel pebbles 5cm 10%clay coarser sand then changes to light brown 25% clay finer sand qtz sub angular
	Auger 3 (15ft)	medium brown hard frozen ground frozen gravel chunky round, then changes to grey brown light brown pebbles >40%clay chunky sandy sub angular schists
AD21		
	Auger 1 (5ft)	2'contact, brown, coarse gravel pebbles cobbles 12.5cm, clay 25%, sandy silty round sub round sub angular qtz schists
	Auger 2 (10ft)	same
	Auger 3 (15ft)	Orange with brown sandy silty, pebbles cobbles 7.5cm 50% clay, sub round sub angular
	Auger 4 (20ft)	Orange salmon very clayish with pebbles of schists 7.5cm, silty sub angular
	Auger 5 (25ft)	salmon pink, clay graying with schists 7cm, sub angular angular
AD22		
	Auger 1 (5ft)	Nothing, through moss
	Auger 2 (10ft)	Black mud, then changes to brown mud with gravel pebbles 7.5cm, sandy clayish sub angular round and sub round
	Auger 3 (15ft)	same
	Auger 4 (20ft)	brown very slimy muddy like a choco milk shake, with gravel and pebbles, coarse gravel sub round sub angular schists
	Auger 5 (25ft)	same
AD23		
	Auger 1 (5ft)	moss black mud
	Auger 2 (10ft)	black gravel with mud pebbles chunky mud 1.5cm, fine clay qtz, then changes at 8' to black yellowish gravely pebbles of clay, sandy qtz schists sub angular
	Auger 3 (15ft)	same then changes to dark brown at 13' clay greater than 30% pebbles, and finer gravel sandy silty
	Auger 4 (20ft)	light brown with clays greater 30% pebbles and gravel, sandy silty round sub round sub angular, qtz schists

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AD23	Auger 5 (25ft)	yellwo brown clay balls some pebbles of schists sandy coarse sub angular then changes to orange schists pebbles 5cm greater than 30% clay sub round schists
	Auger 6 (30ft)	brown chunky clay balls, fine silty
	Auger 7 (35ft)	orange greater than 60% clay silty sandy
AD24		
	Auger 1 (5ft)	BLACK, moss mud
	Auger 2 (10ft)	Brown muddy pebbles 2cm with 40% clay, sandy qtz sub angular then changes to dark brown black with chunky mud balls w gravel
	Auger 3 (15ft)	light brown pebbles 2.5cm- 4cm 25%clay silty qtz sub angular sub round
	Auger 4 (20ft)	same then changes to black brown muddy dry clay with gravel and pebbles sub round
	Auger 5 (25ft)	light brown fine angular gravel greater than 40 % clay fine sandy silty schists, then changes to grey black chunks of clay with schists 5cm
	Auger 6 (30ft)	orange pinkish brown, schists chunky clay sub angular schists, later chunks of decomposed bedrock.
AD25		
	Auger 1 (5ft)	Black Overburden
	Auger 2 (10ft)	black brown gravely top soil muddy clayish,schists 5cm qtz sub round.
	Auger 3 (15ft)	dark grey brown orange, gravel semi frozen pebbles 2.5cm sandy chunky clay, sub angular qtz. Then changes to brown sandy pebbles 5cm 20% clay not frozen, sandy chunky clay. Sub angular sub round.
	Auger 4 (20ft)	grey green brown, pebbles hard ground 25% clay, sandy not frozen or balls schists sub angular angular. Brown black pebbles of schists qtz, balls of frozen gravel, dirt. Hard to drill through.
	Auger 5 (25ft)	brown pebbles of qtzschists, sandy silty angular sub angular.
	Auger 6 (30ft)	light brown orange pebbles of schists grainy clay 25%, sandy sub angular, angular (bedrock)
AD26		
	Auger 1 (5ft)	Overdurden mud
	Auger 2 (10ft)	black dry mud with gravel, black mudballs with gravel then at 12.5' brown gravel with pebbles qtz sandy, then changes to black grey with pebbles qtz 4cm 25%clay, sub angular angular
	Auger 3 (15ft)	same for 2' then lighter grey small fine gravel, sandier 30% clay,schists qtz round sub round, sub angular 15' thawd mud

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AD26	Auger 4 (20ft)	not much came up, some muddy stuff until 18' then grey dark sandy clayish with pebbles of qtz 1.3cm angular sub angular
	Auger 5 (25ft)	chunky frozen gravel with pebbles 5cm qtz, dark grey then changes to dark beige sandy clay 30% few schists slide rock 7cm sandy sub angular sub round
	Auger 6 (30ft)	Black greyish semi frozen mud with some gravel sub round qtz, 28' then a darker tint of grey brown with pebbled 5cm, gravel sandy clay greater than 30% schists qtz, sub round sub angular
	Auger 7 (35ft)	brown fine gravel pebbles of schists sandy. Clay greater than 30% qtz sub angular
AD27		
	Auger 1 (5ft)	2' of moss and mud, then black gravely greater than 30% clay muddy, qtz sub round sub angular
	Auger 2 (10ft)	brown gravel, with pebbles 8cm, sub round, round, sandy silty qtz
	Auger 3 (15ft)	grey brown, pebbles cobbles 8cm, sub round sandy silty clayish
	Auger 4 (20ft)	dark gray, gravel with mud fractured qtz sub round, sub angular, then fine gravel sand, pebbles clay qtz, sub angular
	Auger 5 (25ft)	same
	Auger 6 (30ft)	Black muddy brown qtzy pebbles cobbles, 12cm then same but wet
	Auger 7 (35ft)	very wet, dark grey with gravel and pebbles
AD28		
	Auger 1 (5ft)	pebbles, cobbles 10cm, clay 15%, coarse gravel, very sandy silty sub round qtz schists.
	Auger 2 (10ft)	Light brown, the rest the same
	Auger 3 (15ft)	same
	Auger 4 (20ft)	same
	Auger 5 (25ft)	Same color but finer gravel 5-7cm clay 25%, HARD ROCK OR FROZEN
	Auger 6 (30ft)	Caramel Brown chunky gravel, pebbles cobbles, 2cm frozen, clay grater 30%, not so sandy frozen clay balls, qtz schists, sub angular angular
	Auger 7 (35ft)	Dark brown, to light brown with allot of blue schists, chunks and balls of mud, layer of frozen mud, frozen muddy clay balls 7cm, sub angular angular

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AD29		
	Auger 1 (5ft)	Black, medium dry mud with gravel, fine pebbles avg small 1cm sandy, muddy coming up in frozen chunky sub round qtz
	Auger 2 (10ft)	Dark brown black, gravely with plenty of qtz clay 30%, pebbles cold, perhaps frozen coming up in clumps, sandy sub round sub angular
	Auger 3 (15ft)	Brown, gravel very sandy pebbles, 5cm, clay 10-15%, sandy silty
	Auger 4 (20ft)	Brown, frozen gravel, chunky, then changes to not frozen brown same as auger 3
	Auger 5 (25ft)	Dark grey frozen chunky mud clay chunks 10-13cm, qtz schist
	Auger 6 (30ft)	Grey 40% clay pebbles moist gravely silty clayish sand qtz orange schists sub round sub angularr tehn changes to brown moist gravely with clay 50% pebbles gravely thawd sandy siltysub angular then changes to caramel brown 15cm balls of clay gravel
	Auger 7 (35ft)	caramel brown with pebbles clay 40% with schists, clay balls .05cm round sub round schists
AD30		
	Auger 1 (5ft)	2' contact, beige yellow white, pebbles cobbles 7,5cm gravel clay 15% very sandy silty schists sub angular
	Auger 2 (10ft)	same
	Auger 3 (15ft)	same
	Auger 4 (20ft)	same
	Auger 5 (25ft)	same then changes at 23' to white light pink schist pebbles, many assorted colors very silty smooth, schists sub angular sub round
	Auger 6 (30ft)	Medium light pink same material then changes to larger pebbles 2.5cm with greater than 30% clay, assorted schist colors very silty sub angular sub round
	Auger 7 (35ft)	pinkish beige very schisty gravel clay greater than 30 % very silty, sub angular then changes to beige yellow white lower than 30% clay fines pebbles of schist very silty sandy sub angular sub round
AD31		
	Auger 1 (5ft)	Black, frozen mud
	Auger 2 (10ft)	black, frozen chunky gravel, qtz schists dry mud, coarse frozen muddy balls, sub round sub angular, then changes to brown with gravel and pebbles cleay to 20% sandy
	Auger 3 (15ft)	Cream Vanilla qtzy gravel greater than 30% clay, clayish balls with coarse sand chunky, sub angular
	Auger 4 (20ft)	beige yellow white, greater 30% clay schists, pebbles of quarts 4-7.5cm, sub angular sub round

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	Auger 5 (25ft)	yellow 5%clay, pebbles 5cm, fine sandy silty mostly fine and avr of 0.5cm gravel, sub round sub angular, round
	Auger 6 (30ft)	same
	Auger 7 (35ft)	same then changes to light orange yellow pebbles finely ground 1cm less 10%clay sandy silty sub round round sub angular
AD32		
	Auger 1 (5ft)	brown, gravel 7cm, 20%clay pebbles, sandy chunky clumpy frozen, qtz schists sub angular sub round
	Auger 2 (10ft)	beige pebbles 7cm, gravel schist qtz coarse sand chunky balls, sub angular angular
	Auger 3 (15ft)	beige yellow white, 5cm schists, rest same as auger 2, then changes to green grey with 30 % clay gravel pebbles 1cm sandy silty sub angular sub round
	Auger 4 (20ft)	same, then changes to grey frozen sand minor pebbles greater 30% clay odd looking
	Auger 5 (25ft)	same then changes to orange chunky frozen clay 1.5cm balls
	Auger 6 (30ft)	light orange smaller chunky balls of clay 1cm then changes to a pinkish color sandy silty then changes to yellow orange mandarin pebbles qtz schists, very sandy silty 1.5cm 20% clay
	Auger 7 (35ft)	light pink pebbles of frozen mud or clay some schist very sandy silty then changes back to orange mandarin no visible gravel, feels like chunks of frozen decomposed bedrock no schists no qtz
AD33		
	Auger 1 (5ft)	pushed overburde
	Auger 2 (10ft)	brown, with gravel pebbles, cobbles 10% clay 7.5cm, sandyqtz, schists sub round sub angular. Then changes to light brown beige, gravel pebbles schists qtz 1cm, 10% clay. Sandy qtz schists angular sub angular.
	Auger 3 (15ft)	same
	Auger 4 (20ft)	grey green , finer gravel clay 20% qtz schists pebbles 1cm, sandy qtz schists sub angular then changes to grey brown with fine gravel 0.7cm clay 10% pebbles very gravely and fine, sandy sub angular sub round.
	Auger 5 (25ft)	Brown caramel, fine gravel small pebbles clay 10%, sandy sub angular sub round.
	Auger 6 (30ft)	orange brown (cinnamon) clayish chunks, sandy silty, balls of frozen decomposed bedrock
	Auger 7 (35ft)	At 28' decomposed grey bedrock, frozen mud larger chunks

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	Auger 1 (5ft)	mixed brown yellow green, pink all look like separate types of deco bedrock very clayish chunky, some gravel within it, sub angular
	Auger 2 (10ft)	Pinkish, 60% clay, pebbled 1.5cmavrg. Very fine lots of shits, sandy silty sub angular sub round.
	Auger 3 (15ft)	Brown pink clay 60% chunky balls, some gravel schists. Chunky then same material but mixed yellow whites.
	Auger 4 (20ft)	purple but material stays the same, then brown orange yellow orange material feels and looks similar
	Auger 5 (25ft)	orange brown allot of qtz pieces clay greater than 50%, sandy sub angular angular.
	Auger 6 (30ft)	same color but less qtz, plentyschists, clay greater than 30%, pebbles schists sandy silty sub angular.
	Auger 7 (35ft)	same color with chunks of colourful clay with sand greater than 50%clay sandy. Then reddish orange pebbles of qtz schists clay greater than 45% also chunks of clay. Angular sub angular.
AD35		
	Auger 1 (5ft)	light green, sandy gravel with pebbles 5cm and clay 10%, sandy silty qtz schists sub round
	Auger 2 (10ft)	same
	Auger 3 (15ft)	Light orange yellow, pebbles, gravely with high clay greater than 30% and chunky, fine gravel sub angular, then yellow burgundy with same material
	Auger 4 (20ft)	light burgundy, chunky clay, with some pebbles, minimum shisted qtz, frozen clay balls sub angular.
	Auger 5 (25ft)	orange cinamon, 5cm schists, of greater than 30 % clay pebbles, 2cm, sandy silty sub angular sub round,
	Auger 6 (30ft)	purple, clay balls, chunky very shiny sparkly silky sandy when broken
	Auger 7 (35ft)	purple, then changes to gey blue with same material
AD36		
	Auger 1 (5ft)	beige green, decomposed bedrock perhaps pushed by cat.
	Auger 2 (10ft)	pink white, chunky, sandy and silty pebbles of sand with clays greater than 30 %
	Auger 3 (15ft)	pink with same material

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	Auger 4 (20ft)	same
	Auger 5 (25ft)	raspberry red with clay greater than 30% sandy pebbles, sandy silty
	Auger 6 (30ft)	BURGUNDY WITH SAME MATERIAL
	Auger 7 (35ft)	SAME
AD37		
	Auger 1 (5ft)	In ground with no material retrieval
	Auger 2 (10ft)	Black mud, then changes to a grey green yellow very clayish decomposed bedrock looking material then to orange decomposed bedrock material
	Auger 3 (15ft)	same then orange sandy silty with gravel of breakable schists and greater than 50% clays
	Auger 4 (20ft)	same then changes to sandy silty with some breakableschists , dry
	Auger 5 (25ft)	same as auger 4 then changing to a beige super clayish sandy but moist little schists of breakable sparkly , found one qtz.
	Auger 6 (30ft)	beige and moister than auger 5, clay is less than 30%, with perhaps some miniscule gravel to be tested.
	Auger 7 (35ft)	very fine silty dry smooth sand then some gravely schists qtz very fine sub angular sub round with decomposed bedrock clay.
AD38		
	Auger 1 (5ft)	through ground
	Auger 2 (10ft)	Black, mud then yellow 50% clay, pebbles and cobbles 7cm then pinkish brown with clay 50% same gravel, moist. qtz sub round
	Auger 3 (15ft)	same color with breakable clay balls of schist then changes to peach with pebbles of breakable schist no gravel perhaps bedrock, sandy silty and very smooth
	Auger 4 (20ft)	same
AD39		
	Auger 1 (5ft)	Straight in ground with nothing
	Auger 2 (10ft)	nothing till half ways then partly colourful decomposed clay muddy then changes to a brown with orange and black shades sandy silty pebbles, cobbles and clay of grater than 30%
	Auger 3 (15ft)	same then sandier and finer gravel than auger 2 sub round angular qtz

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	Auger 4 (20ft)	same color plus very fine smooth and silty sandy 40 % clay.
	Auger 5 (25ft)	very fine silty gravel very clayish greater than 50% just pebbles of breakableschists. Then mudier or highly clay very big chunks with bedrockschists in it.
	Auger 6 (30ft)	same
AD40		
	Auger 1 (5ft)	black, layer of mud, overburden
	Auger 2 (10ft)	Orange Black, looks like clay bedrock big chunks, then beige yellow with pebbles of schists 2.5cm. Clay 30% sandy silty sub round
	Auger 3 (15ft)	Same, then dark brown, frozen mud with clay balls and chunky.
	Auger 4 (20ft)	Dark army green. Clay mud composed almost like hard playdo, falls apart easy then changes to balls of frozen same material.
	Auger 5 (25ft)	same, then smaller balls of clay at about a quarter inch average.
AD41		
	Auger 1 (5ft)	Black moss mud overburden
	Auger 2 (10ft)	black cappucino brown, gravel pebbles clay 30% sandy frozen, material very cold. qtz schists angular sub angular sub round.
	Auger 3 (15ft)	Brown sandier and finer gravels schists, qtz pebbles and clay of 20%
	Auger 4 (20ft)	brown orange black, very frozen dry mud
	Auger 5 (25ft)	same
AD42		
	Auger 1 (5ft)	bLACK overburden, dry. Some pebbles
	Auger 2 (10ft)	light brown, pebbles gravel, semi frozen chunky clay, 25%. sandy sub angular qtzschists
	Auger 3 (15ft)	Light shades of brown, schisty gravel clay 45% and sandy. Then orange brown shisty gravel clay 40% sandy silty smooth
	Auger 4 (20ft)	same
AD43		
	Auger 1 (5ft)	Black, overburden mud, then brown clay
	Auger 2 (10ft)	light brown orange clay greater than 30% PEBBLES OF BREAKABLE SCHISTS BEDROCK SANDY SILTY

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	Auger 3 (15ft)	same
AD44		
	Auger 1 (5ft)	Greys and pink frozen muddy clay then a brown gravely with pebbles and cobbles 5cm clay of greater than 30% sandy, clayish sub angular sub round
	Auger 2 (10ft)	Brown Fine gravel pebbles greater 40% clay sandy silty sub angular sub round qtz
	Auger 3 (15ft)	orange brown clay 50%, clay chunks, fine gravel some qtz schists, sandy chunky clay, sub angular angular. Then changes to to similar but with plenty of hard bedrock slide
	Auger 4 (20ft)	orange greys, plenty of bedrock 2cm , sandy angular, (easy drilling)
	Auger 5 (25ft)	Orange brown clay balls, 50% clay with fine schists pebbles, sandy clay balls
	Auger 6 (30ft)	same color, pebbles of breakable sandyschists, clay greater than 30%
	Auger 7 (35ft)	light brown same material as auger 6 , with very smooth sandy silty fine. Then grey orange muddy clay very hard.
AD45		
	Auger 1 (5ft)	Black frozen mud overburden
	Auger 2 (10ft)	same
	Auger 3 (15ft)	Black grey with angularschists, qtz, then a layer of dirt with ice mixed in then dark multi coloured pink grey brown, fine sandy frozen pebbles of schists very fine gravel.
	Auger 4 (20ft)	Beige pink frozen gravel that appear to be bedrock with clay of greater than 30% sandy
	Auger 5 (25ft)	same
AD46	Auger 1 (5ft)	Orange Brown , gravel very clayish mud with some gravel moist not frozen with some pebbles
	Auger 2 (10ft)	same then pinkish with pebbles of breakableschists clay 30%, sandy silty
	Auger 3 (15ft)	same then orange brown, chunks of clay, sandy

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	Auger 4 (20ft)	brow with yellow pink, clay chunks pebbles of breakable schists clay greater than 30%, sandy
	Auger 5 (25ft)	dark yellow, sandy clay of 60% then yellow green with chunks of very hard clay green blue when broken together with a yellowish brown sand
AD47		
	Auger 1 (5ft)	black, mud overburden. Then black brown gravels with pebbles 2.5cm, qrts, frozen clayish, chunky frozen sand schists qrts sub angular
	Auger 2 (10ft)	same then changes to shades of gray to a brown. Gravels, pebbles clay greater than 30% sandy not frozen
	Auger 3 (15ft)	yellows, pebbles breakableschists greater than 30% clay, sandy then changes to same colors with clays less than 30% pebbles of breakableschists, very sandy silty smooth
	Auger 4 (20ft)	same
AD48		
	Auger 1 (5ft)	black, overburden moss, then browns clay with some gravel, then pebbles with gravel 2.5cm, sandy silty sub angular sub round qtz
	Auger 2 (10ft)	brown same material as flite 1. then same colors with clays greater than 30% with breakableschists sandy silty, then fine gravels.
	Auger 3 (15ft)	mocca, fine sandy fine silty, then brown, chunk and long clumps of clay hard, consistency of playdo.
	Auger 4 (20ft)	Brown chunks of clay, sandy chunks then brown fine gravely small pebbles chunks of qtz clay greater than 30% sandy silty, schist sub angular
	Auger 5 (25ft)	brown orange sandy schist silty fine less than 30%, clay very sandy
	Auger 6 (30ft)	same color, material very sandy silty tiny sand pebbles and breakable shists very smooth silty
	Auger 7 (35ft)	Chunks of brown clay, balls and chunks. Then brown pebbles of qtz angular sandy some schists clay greater than 45%

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AD49		
	Auger 1 (5ft)	tailings

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	Auger 2 (10ft)	tailings
	Auger 3 (15ft)	tailings
AD50		
	Auger 1 (5ft)	Brown then black frozen mud with some gravel, then brown gravel pebbles cobbles 7.5cm sandy silty sub round sub angular
	Auger 2 (10ft)	same with 15%clay, then brown black very sandy fine clay less than 30% clay
	Auger 3 (15ft)	black greyish very fine sandy mud smells bad with some twigs of wood, mud consistency moist. Then black
	Auger 4 (20ft)	same solor then black with some grey blue in it mud with someschists of bedrock some small pieces of gravel.
	Auger 5 (25ft)	same then changes to a light black some pebbles minor gravel clay greater than 50%, chunky sandy
	Auger 6 (30ft)	dark gray minor qurts clay greater than 40% sandy silty sub angular then black chunky mud, with wood and it smells
	Auger 7 (35ft)	very hard, bedrock?