

DATA TRANSMITTAL REPORT

DATE: 17-Dec-15

ATTENTION: **Mr. Donald Eisenheimer**

CLIENT: **Minnesota Department of Natural Resources**
500 Lafayette Rd
St. Paul, MN
55155-4045 USA

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NO. OF PAGES: 9

PROJECT: **CATS**

FILE NAME: **20157067 - MDNR - Eisenheimer (CATS-19) - December 2015**

SAMPLE NUMBERS: **CATS-401 to 416, 418, 419 and 421**

BATCH NUMBER: **7067**

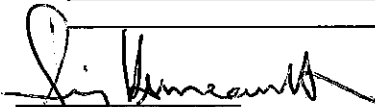
TOTAL SAMPLES: **19**

THESE SAMPLES WERE PROCESSED FOR: **GOLD GRAIN COUNT**
HMC
PGMs

SPECIFICATIONS:

1. Submitted by client: ± 10 kg till and sand/gravel samples.
2. Single ± 700 g archival splits taken and sieved to 0.063 mm.
3. All samples panned for gold and fine grained metallic indicator minerals.
4. Heavy liquid separation specific gravity: 3.3.

REMARKS:



Remy Huneault, P. Geo.
President

**OVERBURDEN DRILLING MANAGEMENT LIMITED
RAW SAMPLE DESCRIPTIONS**

Filename: 20157067 - MDNR - Eisenheimer (CATS-19) - December 2015

Total Number of Samples in this Report = 19

Batch Number: 7067

Sample Number	Weight (kg wet)					-2.0 mm Table Concentrate Weight (g dry)					Sample Description										CLASS		
	Bulk Rec'd	Archived Split	Table Split	+2.0 mm Clasts	Table Feed	Total	Heavy Liquid Separation (S.G. 3.3)				S i z e	Clasts (> 2.0 mm)				Matrix (< 2.0 mm)							
							Lights	HMC		Mag		Percentage				Distribution				Colour			
								Total	Non Mag			Mag	V/S	GR	LS	OT	S/U	SD	ST	CY		O R G	SD
CATS-401	8.5	0.7	7.8	3.4	4.4	161.1	141.1	20.0	18.2	1.8	G	100	0	0	0	S	MC	-	N	+	OC	NA	SAND + GRAVEL + SOIL
CATS-402	8.5	0.7	7.8	1.3	6.5	298.3	263.8	34.5	22.1	12.4	G	100	0	0	0	S	MC	-	N	+	OC	NA	SAND + GRAVEL + SOIL
CATS-403	12.4	0.7	11.7	1.9	9.8	362.8	316.3	46.5	25.9	20.6	P	90	10	0	0	U	-	+	-	Y	DOC	DOC	TILL
CATS-404	9.3	0.7	8.6	1.9	6.7	215.0	201.1	13.9	9.0	4.9	P	80	20	0	0	U	Y	+	-	Y	DOC	DOC	TILL
CATS-405	7.3	0.7	6.6	0.3	6.3	204.5	194.6	9.9	6.2	3.7	G	90	10	0	0	U	-	+	-	Y	DOC	DOC	TILL
CATS-406	9.9	0.7	9.2	1.8	7.4	342.0	304.7	37.3	25.4	11.9	P	95	5	0	0	U	Y	+	-	Y	OC	OC	TILL
CATS-407	11.6	0.7	10.9	2.1	8.8	242.9	228.1	14.8	11.1	3.7	P	95	5	0	0	U	Y	+	-	Y	DOC	GB	TILL
CATS-408	10.9	0.7	10.2	2.4	7.8	240.4	230.9	9.5	4.5	5.0	P	100	Tr	0	0	U	Y	+	-	Y	DOC	GB	TILL
CATS-409	9.3	0.7	8.6	0.6	8.0	159.6	151.0	8.6	6.4	2.2	P	90	10	0	0	U	-	+	-	Y	DOC	DOC	TILL
CATS-410	10.5	0.7	9.8	2.2	7.6	224.7	206.9	17.8	9.9	7.9	P	100	Tr	0	0	U	Y	+	-	Y	DOC	DOC	TILL
CATS-411	8.1	0.7	7.4	2.1	5.3	339.7	313.7	26.0	16.5	9.5	P	70	30	0	0	S	MC	-	N	+	OC	NA	SAND + GRAVEL + SOIL
CATS-412	14.5	0.7	13.8	4.2	9.6	388.8	314.2	74.6	42.2	32.4	P	60	40	0	0	U	Y	+	-	N	DOC	DOC	TILL
CATS-413	8.2	0.7	7.5	1.2	6.3	223.7	204.4	19.3	11.3	8.0	P	95	5	0	0	U	-	+	-	Y	OC	OC	TILL + SOIL
CATS-414	8.8	0.7	8.1	1.2	6.9	360.0	330.5	29.5	15.7	13.8	G	100	Tr	0	0	U	Y	+	-	Y	DOC	DOC	TILL
CATS-415	11.1	0.7	10.4	3.1	7.3	316.7	291.0	25.7	13.8	11.9	P	95	5	0	0	U	Y	+	-	Y	DOC	GB	TILL
CATS-416	10.3	0.7	9.6	2.1	7.5	256.7	212.5	44.2	23.0	21.2	P	70	30	0	0	U	Y	+	-	Y	DOC	GB	TILL
CATS-418	7.9	0.7	7.2	0.6	6.6	225.9	207.3	18.6	12.2	6.4	P	95	5	0	0	U	Y	+	-	Y	DOC	GB	TILL + SOIL
CATS-419	8.2	0.7	7.5	1.6	5.9	170.4	158.7	13.7	8.1	5.6	P	95	5	0	0	S	MC	-	N	+	OC	NA	SAND + GRAVEL + SOIL
CATS-421	9.3	0.7	8.6	1.3	7.3	228.2	220.6	7.6	5.1	2.5	P	95	5	0	0	U	Y	+	-	Y	DOC	DOC	TILL

**OVERBURDEN DRILLING MANAGEMENT LIMITED
GOLD GRAIN SUMMARY**

Filename: 20157067 - MDNR - Elsenheimer (CATS-19) - December 2015

Total Number of Samples in this Report = 19

Batch Number: 7067

Sample Number	Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
CATS-401	2	1	1	0	18.2	6	4	1	0
CATS-402	7	4	3	0	22.1	15	14	2	0
CATS-403	66	10	27	29	25.9	134	34	84	15
CATS-404	35	1	20	14	9.0	103	3	60	40
CATS-405	30	8	10	12	6.2	134	19	39	76
CATS-406	56	8	14	34	25.4	63	28	19	17
CATS-407	29	3	9	17	11.1	136	67	25	44
CATS-408	21	4	9	8	4.5	485	436	19	31
CATS-409	12	1	7	4	6.4	69	1	62	6
CATS-410	31	10	15	6	9.9	1079	258	801	21
CATS-411	3	1	1	1	16.5	29	5	1	23
CATS-412	47	5	15	27	42.2	62	7	10	45
CATS-413	19	2	9	8	11.3	116	50	49	17
CATS-414	12	4	4	4	15.7	1263	1207	42	14
CATS-415	11	1	4	6	13.8	176	57	58	61
CATS-416	49	16	22	11	23.0	204	147	50	7
CATS-418	9	0	3	6	12.2	20	0	3	17
CATS-419	24	4	5	15	8.1	166	7	31	128
CATS-421	4	0	2	2	5.1	19	0	17	2

**OVERBURDEN DRILLING MANAGEMENT LIMITED
DETAILED GOLD GRAIN DATA**

Filename: 20157067 - MDNR - Elsenheimer (CATS-19) - December 2015

Total Number of Samples in this Report = 19

Batch Number: 7067

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight* (g)	Calculated V.G. Assay in HMC (ppb)	Metallic Indicator Minerals in Pan Concentrate
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
CATS-401	Yes	5 C	25	25		1		1			1 SEM checks: 1 of 3 sperrylite candidates = 1 sperrylite (25-50µm). 1 grain copper (25µm; contamination). Gold grains not viald.
		8 C	25	50	1			1	18.2	6	
								2			
CATS-402	Yes	3 C	15	15	1	2		3			1 2 grains sperrylite (25µm). 2 1 grain pyrite (250µm). 4 Gold grains not viald.
		5 C	25	25	1	1		2			
		8 C	25	50	1			1			
		10 C	50	50	1			1	22.1	9	
							7		15		
CATS-403	Yes	3 C	15	15	2	12	25	39		8	No sulphides. Gold grains viald.
		5 C	25	25	5	9	3	17		16	
		8 C	25	50		3		3		9	
		10 C	25	75	1		1	2		15	
		10 C	50	50	1			1		7	
		13 C	50	75	1	1		2		29	
		15 C	50	100		1		1		25	
		15 C	75	75		1		1	25.9	25	
							66		134		
CATS-404	Yes	3 C	15	15		9	11	20		12	1 grain pyrite (500µm). 24 1 grain copper (1000µm; contamination). 45 Gold grains viald.
		5 C	25	25	1	7	1	9		24	
		8 C	25	50		4	1	5		45	
		10 C	25	75			1	1	9.0	21	
							35		103		
CATS-405	Yes	3 C	15	15	4	3	9	16		14	No sulphides. Gold grains viald.
		5 C	25	25	4	6	2	12		47	
		8 C	25	50		1		1		13	
		13 C	50	75			1	1	6.2	60	
							30		134		
CATS-406	Yes	3 C	15	15		8	27	35		7	2 grains pyrite (500-1000µm). Gold grains viald.
		5 C	25	25	4	3	5	12		11	
		8 C	25	50	3	2	2	7		22	
		10 C	50	50		1		1		8	
		13 C	50	75	1			1	25.4	15	
							56		63		
CATS-407	Yes	3 C	15	15		6	8	14		7	No sulphides. Gold grains viald.
		5 C	25	25	1	2	7	10		22	
		8 C	25	50	1		1	2		15	
		10 C	25	75			1	1		17	
		10 C	50	50		1		1		17	
		15 C	50	100	1			1	11.1	58	
							29		136		
CATS-408	Yes	3 C	15	15	1	7	6	14		16	2 grains lead solder (1000µm; contamination). 36 Gold grains viald.
		5 C	25	25		2	1	3		16	
		8 C	25	50	1		1	2		36	
		13 C	50	75	1			1		83	
		20 C	75	125	1			1	4.5	333	
							21		485		
CATS-409	Yes	3 C	15	15	1	3	3	7		6	1 grain sperrylite (15µm). 8 SEM check: 1 pyrite versus arsenopyrite candidate = 1 pyrite (25µm). 69 Gold grains viald.
		5 C	25	25		1	1	2		8	
		8 C	25	50		2		2		25	
		10 C	50	50		1		1	6.4	30	
							12		69		

**OVERBURDEN DRILLING MANAGEMENT LIMITED
DETAILED GOLD GRAIN DATA**

Filename: 20157067 - MDNR - Eisenheimer (CATS-19) - December 2015

Total Number of Samples in this Report = 19

Batch Number: 7067

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight* (g)	Calculated V.G. Assay in HMC (ppb)	Metallic Indicator Minerals in Pan Concentrate
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
CATS-410	Yes	3 C	15	15	3	2	3	8	9.9	1079	4 No sulphides.
		5 C	25	25	4	3	1	8			20 Gold grains vialed.
		8 C	25	50		5	2	7			58
		15 C	25	125		1		1			65
		10 C	50	50	1	1		2			39
		13 C	50	75	1	2		3			113
		25 M	50	150	1			1			189
		50 M	75	175		1		1			592
							31				
CATS-411	Yes	5 C	25	25		1		1	16.5	29	1 ~100 grains pyrite (25-1000µm).
		8 C	25	50	1			1			5 1 grain lead solder (50µm);
		13 C	50	75			1	1			23 contamination).
							3			29 Gold grains vialed.	
CATS-412	Yes	3 C	15	15	3	9	16	28	42.2	62	4 No sulphides.
		5 C	25	25		2	3	5			3 5 brass (25-50µm; contamination)
		8 C	25	50	1	4	3	8			15 Gold grains vialed.
		13 C	25	100			1	1			9
		10 C	50	50	1		2	3			14
		13 C	50	75			2	2			18
							47				
CATS-413	Yes	3 C	15	15		4	6	10	11.3	116	5 ~20 grains pyrite (25-250µm).
		5 C	25	25		3		3			6 SEM check: 1 grain sperrylite
		8 C	25	50		1	2	3			22 (25µm; SEM confirmed).
		10 C	50	50	1			1			17 Gold grains vialed.
		13 C	50	75	1	1		2			66
							19				
CATS-414	Yes	3 C	15	15		1	2	3	15.7	1263	1 No sulphides.
		5 C	25	25	1		1	2			3 5 brass (25-50µm; contamination)
		8 C	25	50		1		1			5 Gold grains vialed.
		10 C	50	50	1	1	1	3			37
		13 C	50	75		1		1			24
		20 C	75	125	1			1			96
		75 M	150	200	1			1			1097
							12				
CATS-415	Yes	3 C	15	15		3	4	7	13.8	176	3 No sulphides.
		5 C	25	25			1	1			2 Gold grains vialed.
		75 M	25	50	1	1	1	3			172
							11				
CATS-416	Yes	3 C	15	15	7	10	8	25	23.0	204	6 5 grains pyrite (50-2000µm).
		5 C	25	25	6	5	2	13			14 1 grain sperrylite (15µm).
		8 C	25	50		5	1	6			21 Gold grains vialed.
		10 C	25	75	1			1			8
		10 C	50	50		1		1			8
		13 C	50	75		1		1			16
		20 C	75	125	2			2			130
							49				
CATS-418	Yes	3 C	15	15		2	3	5	12.2	20	2 No sulphides.
		5 C	25	25		1	1	2			4 1 grain sperrylite (15µm).
		8 C	25	50			2	2			13 Gold grains not vialed.
							9				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
DETAILED GOLD GRAIN DATA**

Filename: 20157067 - MDNR - Eisenheimer (CATS-19) - December 2015

Total Number of Samples in this Report = 19

Batch Number: 7067

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight* (g)	Calculated V.G. Assay in HMC (ppb)	Metallic Indicator Minerals in Pan Concentrate	
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total				
CATS-419	Yes	3 C	15	15	2	2	4	8	8.1	166	5 ~10 grains pyrite (100-250µm). 27 Gold grains vialed.	
		5 C	25	25	2	2	5	9				
		8 C	25	50			4	4				40
		10 C	25	75			1	1				24
		10 C	50	50		1		1				24
		13 C	50	75			1	1				46
							24					
CATS-421	Yes	3 C	15	15		1	2	3	5.1	19	3 No sulphides. 16 Gold grains vialed.	
		8 C	25	50		1		1				
							4					

**OVERBURDEN DRILLING MANAGEMENT LIMITED
PLATINUM GROUP MINERALS SUMMARY**

Filename: 20157067 - MDNR - Eisenheimer (CATS-19) - December 2015

Total Number of Samples in this Report = 19

Batch Number: 7067

Sample Number	Observed PGMs.		TOTAL GRAINS
	Mineral	Number of Grains	
CATS-401	Sperrylite	3	3
CATS-402	Sperrylite	2	2
CATS-403	None observed	0	0
CATS-404	None observed	0	0
CATS-405	None observed	0	0
CATS-406	None observed	0	0
CATS-407	None observed	0	0
CATS-408	None observed	0	0
CATS-409	Sperrylite	1	1
CATS-410	None observed	0	0
CATS-411	None observed	0	0
CATS-412	None observed	0	0
CATS-413	Sperrylite	1	1
CATS-414	None observed	0	0
CATS-415	None observed	0	0
CATS-416	Sperrylite	1	1
CATS-418	Sperrylite	1	1
CATS-419	None observed	0	0
CATS-421	None observed	0	0

* All samples are oxidized; therefore only native PGE minerals and the most resistant PGE arsenide and antimonide grains (no PGE sulphides or tellurides) are likely to be preserved.

OVERBURDEN DRILLING MANAGEMENT LIMITED
-63 μ CLAY-SILT WEIGHTS

Filename: 20157067 - MDNR - Eisenheimer (CATS-19) - December 2015

Total Number of Samples in this Report = 19

Batch Number: 7067

Sample Number	Archived Split Weight (g)				
	Total	Excess	Sieved Split		
			Total	>63 μ	<63 μ
CATS-401	552.5	304.8	247.7	213.7	34.0
CATS-402	561.1	319.5	241.6	185.1	56.5
CATS-403	647.9	474.3	173.6	84.5	89.1
CATS-404	558.0	430.9	127.1	85.0	42.1
CATS-405	491.0	353.0	138.0	63.4	74.6
CATS-406	537.5	370.6	166.9	105.8	61.1
CATS-407	566.5	414.0	152.5	80.8	71.7
CATS-408	566.8	439.0	127.8	89.7	38.1
CATS-409	497.4	350.4	147.0	62.1	84.9
CATS-410	521.7	393.6	128.1	86.1	42.0
CATS-411	568.1	256.2	311.9	274.5	37.4
CATS-412	655.1	508.0	147.1	112.2	34.9
CATS-413	452.0	154.2	297.8	177.5	120.3
CATS-414	579.7	431.9	147.8	113.8	34.0
CATS-415	569.9	399.2	170.7	136.2	34.5
CATS-416	550.7	374.4	176.3	126.8	49.5
CATS-418	579.0	429.7	149.3	88.8	60.5
CATS-419	573.6	438.0	135.6	76.6	59.0
CATS-421	530.0	390.7	139.3	84.2	55.1

**OVERBURDEN DRILLING MANAGEMENT LIMITED
HEAVY MINERAL WEIGHTS**

Filename: 20157067 - MDNR - Eisenheimer (CATS-19) - December 2015

Total Number of Samples in this Report = 19

Batch Number: 7067

Sample Number	Weight (g)					
	Heavy Mineral Concentrate					
	NHMC			MHMC		
	Total	50% Split		Total	50% Split	
St. Paul		St. Paul	Actlabs		St. Paul	
CATS-401	18.2	9.1	9.1	1.8	0.9	0.9
CATS-402	22.1	11.0	11.1	12.4	6.2	6.2
CATS-403	25.9	12.9	13.0	20.6	10.3	10.3
CATS-404	9.0	4.5	4.5	4.9	2.4	2.5
CATS-405	6.2	3.1	3.1	3.7	1.8	1.9
CATS-406	25.4	12.7	12.7	11.9	5.9	6.0
CATS-407	11.1	5.5	5.6	3.7	1.8	1.9
CATS-408	4.5	2.2	2.3	5.0	2.5	2.5
CATS-409	6.4	3.2	3.2	2.2	1.1	1.1
CATS-410	9.9	4.9	5.0	7.9	3.9	4.0
CATS-411	16.5	8.2	8.3	9.5	4.7	4.8
CATS-412	42.2	21.1	21.1	32.4	16.2	16.2
CATS-413	11.3	5.6	5.7	8.0	4.0	4.0
CATS-414	15.7	7.8	7.9	13.8	6.9	6.9
CATS-415	13.8	6.9	6.9	11.9	5.9	6.0
CATS-416	23.0	11.5	11.5	21.2	10.6	10.6
CATS-418	12.2	6.1	6.1	6.4	3.2	3.2
CATS-419	8.1	4.0	4.1	5.6	2.8	2.8
CATS-421	5.1	2.5	2.6	2.5	1.2	1.3