ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: Geological, Geochemical, Geophysical and Diamond Drilling Assessment Report on the RedGold Property, British Columbia

TOTAL COST:

AUTHOR(S): Matthew Eckfeldt, Julianne Madsen
SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): #5452124, June 3, 2013
MX-4-602 approval #12-1621004-0706 / June 30, 2011 to May 30, 2015, and approval #11-1621004-0912/ June 30, 2011 to December 31, 2013

STATEMENT OF WORK EVENT NUMBER(S)/DATE(S):

YEAR OF WORK: 2012

PROPERTY NAME: RedGold

CLAIM NAME(S) (on which work was done):

518875,517424,516702,409311,206667,409376,409313,409300,206668,409366,409369,516669,206669,409364,409302,409308,529953,516662,409370,409367,530928,530931,409365,409371,409310,409368,516663,516666,516668,516675,204603,518879,517421,518877,518905,204604,409363,409314,409312,516664,530929,518878,409304,206670

COMMODITIES SOUGHT: Au, Cu

MINERAL INVENTORY MINFILE NUMBER(S),IF KNOWN: 70644

MINING DIVISION: Cariboo
NTS / BCGS: 093A06W/093A043
LATITUDE: 52 ° 27 ' 48 "
LONGITUDE: 121 ° 28 ' 05 " (at centre of work)
UTM Zone: NAD83 Zone 10 EASTING: 604076 NORTHING: 5813677

OWNER(S):
RedGold Resources Ltd.

MAILING ADDRESS:
Box 4438, 2029 S. Lakeside Drive
Williams Lake, BC V2G 2V5

OPERATOR(S): Gold Fields Horsefly Exploration Corp.

MAILING ADDRESS:
Suite 706 - 1155 Robson Street
Vancouver, BC V6E 1B5

REPORT KEYWORDS (soil samples, induced polarization, lithology, alteration, mineralization, trenching, diamond drilling)

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:
AR32975, AR30366, AR30637

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)		(see attached spreadsheet)	
Ground, mapping			
GEOPHYSICAL (line-kilometres)			
Ground			
Induced Polarization		(see attached spreadsheet)	
GEOCHEMICAL (number of samples analysed for …)		(see attached spreadsheet)	
Soil			
Rock		206667,204603,204604,206670	
Trench		206670	
DRILLING (total metres, number of holes, size, storage location)		206670	
Core	1767.52 Metres 7 NQ Holes Horsefly		
PREPATORY / PHYSICAL		(see attached spreadsheet)	
Cutline (km)	76.22 line-km		
Road, local access (km)/trail		206670,204603	
Trench (number/metres)		206670	
Other			
		TOTAL COST	

2012 ASSESSEMENT REPORT

REDGOLD PROPERTY

Including
Soil Geochemistry, Geological Mapping
Surface Rock Sampling, Trenching, IP,
And
Diamond Drilling

BC Geological Survey
Assessment Report
33888

MTO Event 5452124
June 3, 2013

CARIBOO MINING DIVISION
British Columbia
NTS: 093A06W
Latitude 52°27'48''N, Longitude 121°28'05''W

Prepared For:

Owner:

RedGold Resources Ltd.
Box 4438, 2029 S. Lakeside Drive
Williams Lake, BC V2G 2V5

Operator:

Gold Fields Horsefly Exploration Corp.
706 - 1155 Robson Street
Vancouver, BC V6E 1B5

By:

Matthew Eckfeldt, B.Sc.
&
Julianne Madsen, M.Sc., P. Geo

Gold Fields Canada Exploration BV.
706 - 1155 Robson Street
Vancouver, BC V6E 1B5
June 3, 2013
Vancouver, BC

Contents

1.0 Summary 9
2.0 Introduction 10
3.0 RELIANCE ON OTHER EXPERTS 11
4.0 PROPERTY LOCATION AND DESCRIPTION 11
4.1 Property Location 11
4.2 Property Description 14
5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY 14
5.1 Access 14
5.2 Climate 16
5.3 Local Resources and Infrastructure 16
5.4 Physiography 16
6.0 HISTORY 16
7.0 GEOLOGICAL SETTING and MINERALIZATION 18
7.1 Local Geology 19
7.2 East Zone 19
7.3 North Zone 21
7.4 Northeast Zone 21
7.5 Quarry Zone 21
7.6 RedGold Zone 23
8.0 DEPOSIT TYPE 23
9.0 EXPLORATION 25
9.1 Geology 25
9.1.1 Mapping and Prospecting 25
9.1.2 Surface Geology 25
9.2 Geochemistry 26
9.2.1 Soil Geochemistry 26
9.2.2 Rock Geochemistry 29
9.2.3 Whole Rock Geochemistry 36
9.2.4 Trench Sample Geochemistry 36
9.2.5 Bulk Sampling 37
9.3 Geophysics 37

9.3.1 IP 37
9.3.2 IP (Chargeability and Resistivity) 41
10.0 DRILLING 41
10.1 Re-logging Historical Core 41
10.2 Historical Drilling 41
10.3 2012 Drilling 46
10.3.1 Drilling - Scope and Method 46
10.3.2 Drilling - Downhole Survey 2012 47
10.2.1 SpecTERRA™ Analysis 49
10.3.3 Grade Composites 49
10.3.4 2012 RedGold Drilling and Hole Descriptions 50
11.0 SAMPLING METHOD AND APPROACH 56
11.1 Soil and Charcoal Sampling 56
11.2 Rock Sampling 57
11.3 Trench Sampling 57
11.4 Drill Core Sampling 57
12.0 SAMPLE PREPARATION, ANALYSES AND SECURITY 58
13.0 DATA VERIFICATION 59
13.1 2012 QAQC Procedures 59
13.2 Drillhole Standard & Blank Performance 63
13.2.1 Au Standard Performance - Drill Core 63
13.2.2 Cu Standard Performance - Drill Core 66
13.2.3 Field Blank Performance 68
13.2.4 Preparation blank performance 70
13.3 Drill Core Duplicates 71
13.3.1 Drill Core Duplicates – Au 71
13.3.2 Drill Core Duplicates – Cu 75
13.4 Soil and Charcoal QAQC 79
13.4.1 Au in Soil and Charcoal Duplicates 79
13.4.2 Cu in Soil and Charcoal Duplicates 81
13.5 Trench rock samples QAQC 82
13.5.1 Au duplicates in the Trench samples 82
13.5.2 Cu duplicates in the Trench samples 83

13.6 Surface Rock QAQC 83
14.0 ADJACENT PROPERTIES 85
14.1 Woodjam North 86
14.2 Woodjam South 86
14.3 Mount Polley 87
15.0 MINERAL PROCESSING AND METALLURGICAL TESTING 87
16.0 MINERAL RESOURCES AND MINERAL RESERVE ESTIMATES 87
17.0 OTHER RELEVANT DATA AND INFORMATION 87
18.0 INTERPRETATION AND CONCLUSIONS 87
19.0 RECOMMENDATIONS 88
20.0 STATEMENT OF EXPENDITURES 88
21.0 REFERENCES 92
22.0 AUTHOR'S STATEMENT OF QUALIFICATIONS 95
22.1 Certificate of Qualifications – Matthew Eckfeldt 95
22.2 Certificate of Qualifications – Julianne Madsen 96

List of Tables

TABLE 3-1. LIST OF EXPERTS 11
TABLE 5-1. REDGOLD CLAIM INFORMATION. 15
TABLE 6-1. HISTORICAL EXPLORATION CHRONOLOGY – REDGOLD PROPERTY 17
TABLE 9-1. LITHOLOGIES ENCOUNTERED ON THE REDGOLD PROPERTY DURING THE 2011 EXPLORATION PROGRAM. 28
TABLE 10-1. REDGOLD HISTORICAL COLLAR DATA. 43
TABLE 10-2. REDGOLD AU AND CU COMPOSITE GRADES FROM ASSESSMENT REPORTS, HISTORICAL DRILLING. 46
TABLE 10-3. REDGOLD 2012 COLLAR DATA. 47
TABLE 10-4. REDGOLD AU AND CU COMPOSITE GRADES, 2012 DRILLING. 50
TABLE 13-1. ALS LABORATORIES LTD. ANALYTICAL METHOD SPECIFICATIONS 60
TABLE 13-2.TABLE OF QAQC LOGIC 61
TABLE 13-3. TABLE OF CUSTOM CERTIFIED REFERENCE MATERIALS 61
TABLE 13-4. TABLE OF FAILURES – RED GOLD DRILLING 64
TABLE 20-1. 2012 STATEMENT OF EXPENDITURES. 91

List of Figures

FIGURE 4-1. PROPERTY LOCATION MAP. 12
FIGURE 4-2. REDGOLD CLAIM MAP. 13
FIGURE 7-1. MAP OF REDGOLD DRILL TARGET AREA. 20
FIGURE 7-2. REDGOLD REGIONAL GEOLOGY MAP. 22
FIGURE 8-1. PORPHYRY DEPOSITS OF THE QUESNEL TERRANE. 24
FIGURE 9-1. REDGOLD DRILL TARGET AREA GEOLOGY. 27
FIGURE 9-2. AH SAMPLE LOCATION MAP. 30
FIGURE 9-3. CHARCOAL SAMPLE LOCATION MAP. 31
FIGURE 9-4. AH AU PPB VALUE MAP 32
FIGURE 9-5. CHARCOAL AU PPB VALUE MAP 33
FIGURE 9-6. ROCK SAMPLE LOCATIONS. 34
FIGURE 9-7. ROCK SAMPLE AU PPB VALUES. 35
FIGURE 9-8. REDGOLD WHOLE ROCK CLASSIFICATION DIAGRAM. 36
FIGURE 9-9. TRENCH SAMPLE LOCATIONS 38
FIGURE 9-10. TRENCH SAMPLE AU PPB VALUES. 39
FIGURE 9-11. IP GRID LOCATION MAP. 40
FIGURE 10-1. REDGOLD HISTORICAL AND 2012 DRILL LOCATIONS. 48
FIGURE 13-1. BEFORE PLOT- WJN-STD1 PERFORMANCE FOR AU – DRILL CORE- ALL ORIGINAL FAILS. "BEFORE" PLOT 63
FIGURE 13-2. AFTER PLOT WJN-STD1 PERFORMANCE FOR AU – DRILL CORE- AS IN DATABASE. "AFTER" PLOT 65
FIGURE 13-3. CDN-CM-8 PERFORMANCE FOR AU – DRILL CORE. "BEFORE" PLOT. 65
FIGURE 13-4. CDN-CM-12 PERFORMANCE FOR AU – DRILL CORE. "AFTER" PLOT 66
FIGURE 13-5. WJN-STD1 PERFORMANCE FOR CU – DRILL CORE 67
FIGURE 13-6. BEFORE PLOT- WJN-STD2 PERFORMANCE FOR CU – DRILL CORE. "BEFORE" PLOT 67
FIGURE 13-7. AFTER PLOT- WJN-STD2 PERFORMANCE FOR CU – DRILL CORE. "AFTER" PLOT 68
FIGURE 13-8. FIELD BLANK PERFORMANCE FOR AU – DRILL CORE- ACCEPTABLE WITHIN 10 X DL WARNING LEVEL AND ALLOWABLE CARRYOVER 69

FIGURE 13-9. FIELD BLANK PERFORMANCE FOR CU – DRILL CORE, ACCEPTABLE WITHIN 5 X BACKGROUND CU WARNING LEVEL AND ALLOWABLE CARRYOVER 69
FIGURE 13-10. PREPARATION BLANK PERFORMANCE FOR AU- ACCEPTABLE WITHIN 10 X DL WARNING LEVEL AND ALLOWABLE CARRYOVER 70
FIGURE 13-11. PREPARATION BLANK PERFORMANCE FOR CU- ACCEPTABLE WITHIN 10 X DL WARNING LEVEL AND ALLOWABLE CARRYOVER 71
FIGURE 13-12. ORIGINAL VS. PULP DUPLICATES FOR AU – DRILL CORE 72
FIGURE 13-13. MPD VS. MEAN FOR AU IN PULP DUPLICATES – DRILL CORE 73
FIGURE 13-14. ORIGINAL VS. COARSE DUPLICATES FOR AU – DRILL CORE 73
FIGURE 13-15. MPD VS. MEAN FOR AU IN COARSE DUPLICATES – DRILL CORE 74
FIGURE 13-16. ORIGINAL VS. FIELD DUPLICATES FOR AU – DRILL CORE 74
FIGURE 13-17. MPD VS. MEAN FOR AU IN FIELD DUPLICATES – DRILL CORE 75
FIGURE 13-18. ORIGINAL VS. PULP DUPLICATES FOR CU- DRILL CORE 76
FIGURE 13-19. MPD VS. MEAN FOR CU IN PULP DUPLICATES – DRILL CORE 76
FIGURE 13-20. ORIGINAL VS. COARSE DUPLICATES FOR CU – DRILL CORE 77
FIGURE 13-21. MPD VS. MEAN FOR CU IN COARSE DUPLICATES – DRILL CORE 77
FIGURE 13-22. ORIGINAL VS. FIELD DUPLICATES FOR CU – DRILL CORE 78
FIGURE 13-23. MPD VS. MEAN FOR CU IN FIELD DUPLICATES – DRILL CORE 78
FIGURE 13-24. ORIGINAL VS. DUPLICATE FOR AU IN AH SOILS AND CHARCOAL, SHOWN TOGETHER WITH 20% DIFFERENCE ENVELOPE 80
FIGURE 13-25. ORIGINAL VS. DUPLICATE FOR CU IN AH SOILS AND CHARCOAL SHOWN TOGETHER WITH 20% REFERENCE ENVELOPE. 81
FIGURE 13-26. ORIGINAL VS. REPEAT FOR TRENCH ROCK SAMPLES, AU (PPM), 20% ENVELOPE FOR REFERENCE. 82
FIGURE 13-27. ORIGINAL VS. REPEAT FOR TRENCH ROCK SAMPLES, CU (PPM), 20% ENVELOPE FOR REFERENCE. 83
FIGURE 13-28. ORIGINAL VS. REPEAT FOR SURFACE ROCK SAMPLES, AU (PPM), 20% ENVELOPE FOR REFERENCE 84
FIGURE 13-29. ORIGINAL VS. REPEAT FOR SURFACE ROCK SAMPLES, CU (PPM), 20% ENVELOPE FOR REFERENCE 85

1.0 SUMMARY

This Report describes the $934,407.52 exploration program that was carried out from April 24, 2012 to December 8, 2012 on the RedGold Property, within the Cariboo Mining Division of British Columbia, and covers MTO Event Number 5452124 (June 3, 2013).

RedGold is located north of the village of Horsefly, approximately 70 km northeast of the City of Williams Lake, British Columbia, and consists of 58 mineral claims encompassing an area of 8794.9 ha (including overlapping claim boundaries). It is located within the Quesnel Trough, a large regional depositional belt that hosts several large tonnage porphyry-type deposits including New Gold Inc.'s New Afton Mine, Imperial Metals Corp.'s Mount Polley Mine, Teck Resources Ltd.'s Highland Valley Copper Mine, Taseko's Gibraltar Mine, Terrane Metals' Mt. Milligan deposit and Northgate's Kemess Mine (Peters, 2009). The RedGold claims encompass several zones showing evidence of alkalic-type porphyry mineralization (Lesage, 2012).

The RedGold area has been explored numerous times since the early 1970s. The property is currently owned 100% by RedGold Resources Ltd. On July 14, 2011 Gold Fields Horsefly Corporation (Gold Fields), a member of the Gold Fields Limited group of companies, signed an Option and Joint Venture Exploration Agreement (Agreement) granting them an option to earn up to 70% interest in the RedGold Property.

The main objectives of the 2012 exploration program were to follow up on existing targets defined by previous exploration programs, especially the 2007 exploration program conducted by NovaGold Canada Inc., and the 2011 exploration program conducted by Gold Fields, by further testing mineralization in the East and Quarry Zones, and to generate new targets across the Property. The program consisted of geologic mapping and prospecting, Ah soil horizon and charcoal sampling, and IP geophysical surveys with supporting line cutting, trenching, compilation and reinterpretation of historical RedGold drilling, and an additional 1767.52 m diamond drilling.

Results of the 2012 exploration program included an improved geologic definition of the RedGold drill target area, and the expansion of two mineralized zones (East and Quarry Zones) through drilling.

Recommendations for future exploration programs include follow-up geologic mapping and prospecting across the Property focusing on anomalous zones identified through the regional IP survey, expansion of the ground magnetometer survey coverage, and additional diamond drilling, particularly in the East and North Zones.

2.0 INTRODUCTION

This Report is prepared by Gold Fields Horsefly Exploration Corporation (Gold Fields), the operator, for the RedGold Property, the owners (RedGold Resources Ltd.) and cover MTO Event Number 5452124 (June 3, 2013). The Option and Joint Venture Exploration Agreement (Agreement), signed July 14, 2011 grants Gold Fields the option to earn up to 70% interest in the RedGold Property. RedGold is located in the Cariboo Mining Division of British Columbia, roughly 15 km north of the village of Horsefly and 70 km northeast of the City of Williams Lake, and consists of 58 mineral encompassing an area of 8794.9 ha (including overlapping claim boundaries). The 2012 exploration program was managed and financed by Gold Fields.

The Report describes the $934,407.52 exploration program that was carried out from April 24, 2012 to December 8, 2012 on the RedGold Property. All 2012 work, except for the regional IP geophysical survey, focused on an area which will be referred to as the drill target area. The drill target area is a 3 km x 2 km area in the northern part of the RedGold Property. The 2012 program consisted of detailed geologic mapping and prospecting, grid-based Ah soil horizon and charcoal sampling, a 3D IP chargeability/resistivity survey grid over the drill target area and a regional IP chargeability/resistivity survey grid with supporting line cutting, trenching and bulk sampling, compilation and reinterpretation of historical RedGold drilling, and diamond drilling of selected targets in the East and Quarry Zones.

The work described in the Report was completed in the South Central Mining Region under and adhering to the British Columbia Mines Act Permit MX-4-602 approval number 12-1621004-0706 (Drilling and access construction modification or reclamation) expiry May 30, 2015, approval number 11-1621004-0912 (trenching, surface drilling, bulk sample and access construction modification or reclamation) expiry December 31, 2013 and a “No Permit Required” letter (IP). This permit is held by Gold Fields Horsefly Exploration with permission from RedGold Resources, owners of the RedGold Property.

The Author was onsite, in a non-managerial but supervisory role, and actively involved in the 2012 exploration program. To the best of the Author's knowledge all necessary permits, from the appropriate authorities, have been obtained to conduct the work proposed for the RedGold Property. The Author is not aware of any environmental liabilities to which the Property is subject other than those that relate to British Columbia in its generality. A reclamation bond, as required by the British Columbia Ministry of Energy, Mines and Petroleum Resources, for the 2012 exploration program was posted and reclamation is ongoing.

The metric system is used for all units of measure mentioned in the Report and all dollar amounts are in Canadian funds (CND$) unless otherwise stated. Other abbreviations frequently used include: copper (Cu), gold (Au), grams per ton (g/t), and induced polarization (IP).

3.0 RELIANCE ON OTHER EXPERTS

This Report contains information obtained from a review of relevant reports, including NI 43-101 and non-technical reports, maps, technical data and interpretations available from various sources cited throughout the Report. The Author has relied upon information including internal reports, maps, opinions and/or statements provided by Gold Fields in-house experts to form interpretations and conclusions relevant to the Report. The primary author is responsible for all sections of the Report except for: 11.0 Sampling Method and Approach; 12.0 Sample Preparation; 13.0 Data Verification.

The Author was not present for the 2012 drill program but is familiar with the geology encountered in the drill program. Although the Author did not directly participate in the data verification program, the Author was aware of the process and the results of actions taken. The Author believes the data verification program has met all National Instrument 43-101 compliant protocols. Table 3-1 below lists the experts and the relevant sections of their contributions. The Author has not verified all information and takes no responsibility for its accuracy or completeness.

Reference to the compliance or non-compliance with NI 43-101 standards of historical information and data referred to in this Report are made where appropriate. The Author does not offer any opinion concerning legal, title, environmental, political or other non-technical issues that may be relevant to this Report.

The Author's professional fees for this Report are not dependent upon any prior or future engagement or understanding resulting from the conclusions or recommendations of the Report.

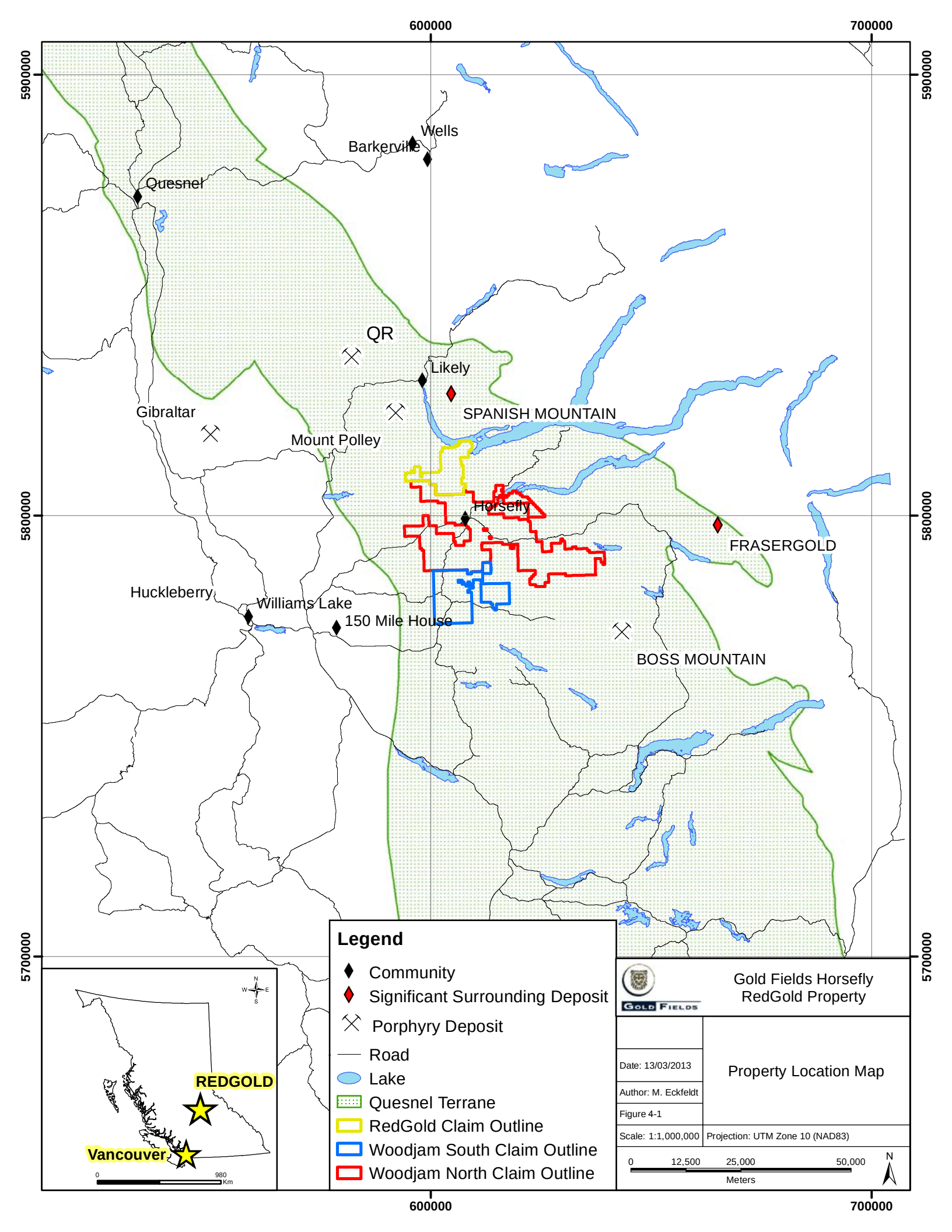
Name	Company	Relevant Topics	Relevant Sections
Julianne Madsen, Geologist and Database Manager	Gold Fields	QAQC	11.0,12.0,13.0

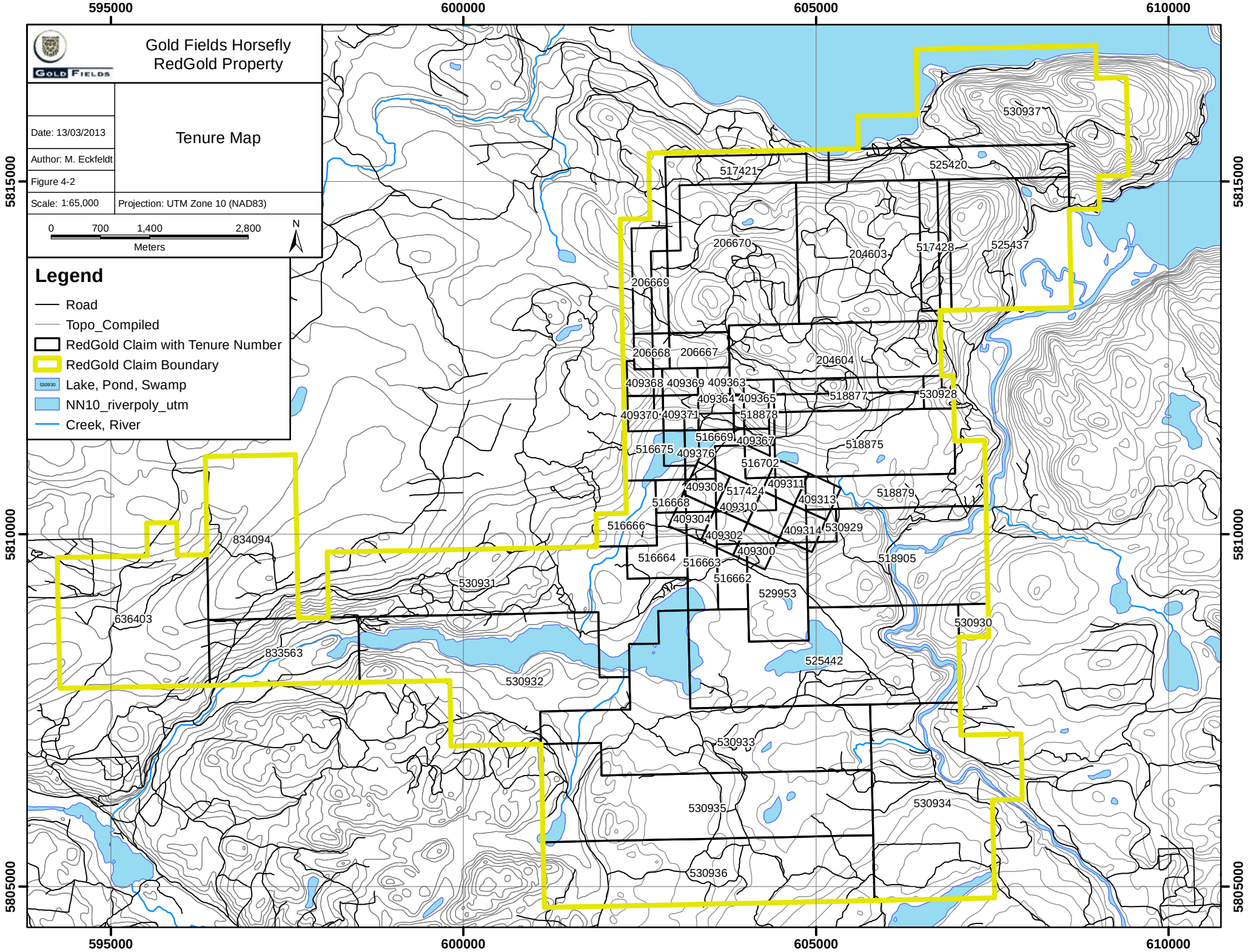
Table 3-1. List of Experts

4.0 PROPERTY LOCATION AND DESCRIPTION

4.1 Property Location

The RedGold Property (Figure 4-1) is situated in the Quesnel Terrane in Central British Columbia. The property is located within the Cariboo Mining Division of British Columbia at latitude 52°27'48" North and longitude 121°28'05" West on NTS map sheet 093A06W and on BCGS map sheets 093A043 and 093A. The Property is situated between Quesnel Lake to the north and Antoine Lake to the South, and approximately 70 km to the northeast of the City of Williams Lake and 15 km north of the village of Horsefly by road.


600000
700000
5900000
5800000
5700000
Wells
Barkerville
Quesnel
QR
Likely
SPANISH MOUNTAIN
Gibraltar
Mount Polley
Horsefly
FRASERGOLD
Huckleberry
Williams Lake
150 Mile House
BOSS MOUNTAIN
REDGOLD
Vancouver
0
980
Km
Legend
Community
Significant Surrounding Deposit
Porphyry Deposit
Road
Lake
Quesnel Terrane
RedGold Claim Outline
Woodjam South Claim Outline
Woodjam North Claim Outline
Gold Fields Horsefly
RedGold Property
Property Location Map
Date: 13/03/2013
Author: M. Eckfeldt
Figure 4-1
Scale: 1:1,000,000
Projection: UTM Zone 10 (NAD83)
0
12,500
25,000
50,000
Meters
N


595000
600000
605000
610000
5815000
5810000
5805000
Gold Fields Horsefly
RedGold Property
Tenure Map
Date: 13/03/2013
Author: M. Eckfeldt
Figure 4-2
Scale: 1:65,000
Projection: UTM Zone 10 (NAD83)
0 700 1,400 2,800
Meters
N
Legend
Road
Topo_Compiled
RedGold Claim with Tenure Number
RedGold Claim Boundary
Lake, Pond, Swamp
NN10_riverpoly_utm
Creek, River
530937
517421
525420
206670
204603
517428
525437
206669
206668
206667
204604
409368
409369
409363
409364
409365
518877
530928
409370
409371
518878
516669
409367
516675
409376
518875
516702
409308
517424
409311
518879
516668
409310
409313
409304
516666
409302
409314
530929
516664
516663
409300
518905
516662
530931
834094
529953
636403
530930
833563
525442
530932
530933
530935
530934
530936

4.2 Property Description

The RedGold Property consists of 58 mineral claims with a total area of 8794.9 ha (including overlapping claim boundaries; Figure 4-2). Surface rights are not included as part of mineral claim ownership under British Columbia mining regulations. Claim information including claim name, tenure number, status, good-to-date and claim boundaries were downloaded from the Government of British Columbia Ministry of Energy, Mines and Petroleum Resources Mineral Titles Online website (https://www.mtonline.gov.bc.ca/mtov/home.do) on March 13, 2013. Claim information is listed in Table 5-1. RedGold Claim Information. and individual claim outlines are shown in Figure 4-2. The claims are valid and in good standing.

The work described in the Report was completed in the South Central Mining Region, formerly the Northeast/Central Mining Region, under and adhering to the British Columbia Mines Act Permit MX-4-602 Approval No. 12-1621004-0706, expiry May 30, 2015 (Drilling), issued June 30, 2011 to Durfeld Geological Management Ltd. and Gold Fields Horsefly Exploration Company, and approval number 11-1621004-0912 expiry December 31, 2013.

To the best of the Author's knowledge, all necessary permits, from the appropriate authorities, have been obtained to conduct the work proposed for the RedGold Property. The Author is not aware of any environmental liabilities to which the Property is subject other than those that relate to British Columbia in its generality.

As required by British Columbia Ministry of Energy, Mines and Petroleum Resources, a reclamation bond was posted for the 2012 exploration program, and reclamation is ongoing.

5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

5.1 Access

The Property is accessible year round by a network of unmaintained logging roads, deactivated roads and other access roads. Access to the RedGold Property is gained by travelling north, from Horsefly, on the Horsefly-Quesnel Lake Road for approximately 15 km, and then west on the access roads. The Property contains multiple blocks of private land, especially around Antoine Lake. Land owners were notified prior to any work being conducted on their property.

Tenure	Tenure Name	Type	Issue Date	Good-To-Date	Area (Ha)
204603	SHIK 1	Mineral	31/05/1982	15/05/2018	400
204604	SHIK 2	Mineral	01/06/1982	15/05/2018	300
206667	SHIK 3	Mineral	01/12/1989	15/05/2018	50
206668	SHIK 4	Mineral	01/12/1989	15/05/2018	25
206669	SHIK 5	Mineral	01/12/1989	15/05/2018	75
206670	SHIK 6	Mineral	01/12/1989	15/05/2018	500
409300	ANT 4	Mineral	26/03/2004	15/05/2018	25
409302	ANT 6	Mineral	26/03/2004	15/05/2018	25
409304	ANT 8	Mineral	26/03/2004	15/05/2018	25
409308	ANT 12	Mineral	26/03/2004	15/05/2018	25
409310	ANT 14	Mineral	26/03/2004	15/05/2018	25
409311	ANT 15	Mineral	26/03/2004	15/05/2018	25
409312	ANT 16	Mineral	26/03/2004	15/05/2018	25
409313	ANT 17	Mineral	26/03/2004	15/05/2018	25
409314	ANT 18	Mineral	26/03/2004	15/05/2018	25
409363	LAY 1	Mineral	30/03/2004	15/05/2018	25
409364	LAY 2	Mineral	30/03/2004	15/05/2018	25
409365	LAY 3	Mineral	30/03/2004	15/05/2018	25
409366	LAY 4	Mineral	30/03/2004	15/05/2018	25
409367	LAY 5	Mineral	30/03/2004	15/05/2018	25
409368	LAY 6	Mineral	30/03/2004	15/05/2018	25
409369	LAY 7	Mineral	30/03/2004	15/05/2018	25
409370	LAY 8	Mineral	30/03/2004	15/05/2018	25
409371	LAY 9	Mineral	30/03/2004	15/05/2018	25
409376	LAY 11	Mineral	30/03/2004	15/05/2018	25
516662		Mineral	11/07/2005	15/05/2018	39.435
516663		Mineral	11/07/2005	15/05/2018	59.149
516664		Mineral	11/07/2005	15/05/2018	59.148
516666		Mineral	11/07/2005	15/05/2018	59.142
516668		Mineral	11/07/2005	15/05/2018	19.713
516669		Mineral	11/07/2005	15/05/2018	59.128
516675		Mineral	11/07/2005	15/05/2018	78.839
516702		Mineral	11/07/2005	15/05/2018	19.711
517421	RG120705A	Mineral	12/07/2005	15/05/2018	275.764
517424	RG120705B	Mineral	12/07/2005	15/05/2018	59.136
517428	WB120705C	Mineral	12/07/2005	15/05/2018	78.791
518875	ERIC 1	Mineral	10/08/2005	15/05/2018	236.513
518877		Mineral	10/08/2005	15/05/2018	98.533
518878		Mineral	10/08/2005	15/05/2018	39.415
518879		Mineral	10/08/2005	15/05/2018	137.983
518905	ERUC2	Mineral	11/08/2005	15/05/2018	335.175
525420		Mineral	14/01/2006	15/05/2018	157.531
525437		Mineral	14/01/2006	15/05/2018	315.122
525442		Mineral	14/01/2006	15/05/2018	493.026
529953	RG1	Mineral	13/03/2006	15/05/2018	118.31
530928	RG1	Mineral	31/03/2006	15/05/2018	19.706
530929	RG2	Mineral	31/03/2006	15/05/2018	19.714
530930	RG3	Mineral	31/03/2006	15/05/2018	19.719
530931	RG4	Mineral	31/03/2006	15/05/2018	492.899
530932	RG5	Mineral	31/03/2006	15/05/2018	492.955
530933	RG6	Mineral	31/03/2006	15/05/2018	493.089
530934	RG7	Mineral	31/03/2006	15/05/2018	493.208
530935	RG8	Mineral	31/03/2006	15/05/2018	473.451
530936	RG9	Mineral	31/03/2006	15/05/2018	434.081
530937	RG10	Mineral	31/03/2006	15/05/2018	492.167
636403	ANTOINE	Mineral	17/09/2009	15/05/2018	413.985
833563		Mineral	15/09/2010	15/05/2018	197.1697
834094	ANTEATER	Mineral	22/09/2010	15/05/2018	295.6754

Table 5-1. RedGold Claim Information.

5.2 Climate

Climatic conditions are typical of the central interior of British Columbia. All climate information below is based on Environment Canada's closest weather station, Williams Lake Airport (Environment Canada, 2012). Average minimum low temperatures for January are -12.4 °C and average maximum high temperatures for June are +19 °C. On average there is approximately 450.3 mm of precipitation throughout the year. Frost free days last on average from mid-May to mid-August (Peters, 2009).

5.3 Local Resources and Infrastructure

Although the village of Horsefly is a small supply center, it has numerous services available such as lodging, fuel, groceries and other supply outlets. Horsefly is also a source of skilled labour. The City of Williams Lake 65 km by road southwest (~45 minute drive) of Horsefly, is the closest major center and contains facilities such as a hospital, airport, with connections to other major centers such as Vancouver, and supply stores not available in Horsefly. Williams Lake acts as a supply center for the nearby Mt Polley and Gibraltar Mines. Work can be conducted year round and is only limited by snow accumulation and spring melt.

5.4 Physiography

Physiographically, the RedGold Property is characterized by broad valleys and gently rolling hills, with elevations ranging from 700 to 1000 metres above sea level (asl). Rare ponds and lakes are scattered across the Property, some of which are fish bearing. Although much of the terrain is concealed by forest, logging practices have vastly improved access and uncovered additional outcrops and exposure. Exposure is good in the northern half of the Property, but overburden is thicker in the southern half and rock exposure is sparse and typically limited to steeper hillsides, ridge tops and areas disturbed by industrial activity such as logging and road building. The Property is characterized by glacial landforms such as till plains and low relief, rolling to hummocky moraines deposited during the Late Wisconsin Fraser Glaciation (Lett, 2010). Ice flow indicators observed throughout the Property show a 280 to 300° direction from the southeast (Lett, 2010).

6.0 HISTORY

Below is a summary of exploration activities on the RedGold Property based on a review of reports and documents available from various sources including the British Columbia Ministry of Energy, Mine and Petroleum Resources ARIS and MINFILE databases. A chronology of exploration activities on the RedGold Property is as follows in table Table 6-1 :

Year	Owner	Survey Type	Quantity
1969-1971	Kerr Addison Mines & Dusty Mac Mines	Geochemistry Geophysics	Channel Sampling (500 m) Induced Polarization (26 line-km)
1974	Dome Mines & Newconex Canadian Exploration Ltd.	Geophysics Percussion Drilling	Induced Polarization (16 line-km) 7 Holes (488 m)

1980	Terramar Resource Corporation	Diamond Drilling	3 Holes (321 m)
1988	J.W. Morton and R.M. Durfeld	Geochemistry Geophysics	Soil Samples (171) Induced Polarization (6.5 line-km)
1989	Phelps Dodge Corporation of Canada Ltd.	Geochemistry	Soil Samples (222) Rock Samples (29)
1990	Phelps Dodge Corporation of Canada Ltd.	Geochemistry Geophysics Diamond Drilling	Soil Samples (737) Rock Samples (21) Induced Polarization (35.5 line-km) Magnetometer Survey (46.5 line-km) 5 Holes (536 m)
1991	Phelps Dodge Corporation of Canada Ltd.	Diamond Drilling	12 Holes (1458 m)
1996	Imperial Metals Corporation	Geochemistry Geophysics Diamond Drilling	Channel Sampling (123 m) Induced Polarization (8.75 line-km) Airborne Magnetometer Survey (489 line-km) 4 Holes (412 m)
1998	RedGold Resources Ltd.	Geochemistry	Rock Samples (14)
1999	RedGold Resources Ltd.	Geophysics	Ground Magnetometer Survey
2001	RedGold Resources Ltd.	Geochemistry	Soil Samples (75) Rock Samples (55)
2002	RedGold Resources Ltd.	Geochemistry	Rock Samples (4)
2005	RedGold Resources Ltd.	Geochemistry	Soil Samples (10) Rock Samples (38)
2006	NovaGold Canada Inc.	Geochemistry	Soil Samples (883) Rock Samples (205)
2007	NovaGold Canada Inc.	Geophysics Diamond Drilling	Induced Polarization (12 line-km) 11 Holes (2293 m)
2011	Gold Fields Horsefly	Geochemistry Geophysics Diamond Drilling	Soil Samples (1139) Rock Samples (52) Ground Magnetics (87.8 line-km) 7 Holes (2174.14 m)

Table 6-1. Historical Exploration Chronology – RedGold Property

The discovery of placer gold in the Quesnel River in 1859 initiated the gold rush in the Cariboo region of British Columbia. Incidentally, the region surrounding the discovery was subjected to placer mining, including river systems in the vicinity of the RedGold Property, formerly known as the Shiko Lake Property.

In 1964, the discovery of Mount Polley, a copper-gold porphyry deposit, was the result of an investigation on a prominent aeromagnetic anomaly. This discovery encouraged exploration for additional copper-gold porphyry deposits within the area. As a result, the Shiko Lake property

was targeted in 1969 based on a regional airborne magnetic survey flown by the Geological Survey of Canada (Cole and Robertson, 1997).

Since 1969 the intrusive complex and the surrounding property have been held by various owners and operators. Between 1969 and 1974 Kerr Addison and Cariboo Syndicate performed IP and geochemical work. Terramar Resources completed 321 metres of diamond drilling over 3 holes in 1980. J.W. Morton and R.M. Durfeld staked the Shiko claims when Terramar allowed them to lapse in 1982. IP, VLF surveys and geochemical work was carried out from 1988 to 1989. Phelps Dodge Corporation completed a 66 square kilometre soil sample grid, 35.5 line kilometres of IP surveys and 1994 metres of diamond drilling in 1990-1991.

Quarry Pacific Industries quarried syenite for industrial purposes, including the Vancouver Public Library, in 1993. Imperial Metals conducted a 4-hole 412 metre diamond drill program, 123 metres of channel sampling and 8.75 line kilometres of IP Surveys in 1996. J.W. Morton and R.M. Durfeld performed more soil and rock geochemical sampling along with new ground magnetometer surveys until NovaGold Resources optioned the property in 2006.

In 2006 NovaGold Resources collected 883 soil samples and 205 rock samples over four square kilometres. NovaGold conducted in 2007 an 11-hole program totalling 2293 metres and 12 line-kilometres of ground-based, deep-sensing, IP/resistivity survey. Hole SH07-03, located in the North Zone, was the most successful of the program, returned 8.1 m of 0.64% Cu and 2.07 g/t Au, 28.5 m of 0.36% Cu and 0.99 g/t Au, and 9.9 m of 0.61% Cu and 1.54 g/t Au. Note that intercept lengths described are core lengths and may not represent true widths. In 2011 Gold Fields performed 87.8 line-km of ground magnetic surveys, collected 1139 soil samples and 53 rock samples, and conducted a 7-hole drill program that totalled 2174 m. Hole RG11-02, located in the East Zone, returned 184 m of 0.14% Cu and 0.29 g/t Au. **Note that intercept lengths described are core lengths and may not represent true widths.**

7.0 GEOLOGICAL SETTING AND MINERALIZATION

The RedGold Property is located in the Quesnel Trough, a large, regional depositional feature extending 2000 km from the U.S. border in the south to the Stikine River in the north, and comprising a portion of the dominantly alkalic and sub-alkalic volcanic and related sedimentary assemblages of the Triassic to Early Jurassic Quesnel Terrane (Panteleyev, 1988).

The Quesnel Trough is made up of rocks of the Nicola (south), Takla (central), and Stuhini (north) Groups, that comprised a series of volcanic islands characterized by alkalic to sub-alkalic basaltic and andesitic rocks, their related sub-volcanic intrusive rocks, as well as locally-derived clastic and pyroclastic sedimentary rocks.

Basaltic and andesitic rocks are interpreted as sub-aqueous fissure eruptions associated with regional faulting. At a later stage in the volcanic cycle, large sub-aerial volcanic centers developed. These features are largely comprised of pyroclastic and epiclastic rocks, with

complex intrusive monzonites and syenites. Commonly associated with these plutons is a late fumarolic or hydrothermal stage, when large volumes of volcanic rocks were extensively altered to albite, K-feldspar, biotite, chlorite, epidote and various sulphides. This late metasomatic period involved the introduction of volatiles and various metals into the vent areas and is a typical and important feature of the final stages of the volcanic cycle.

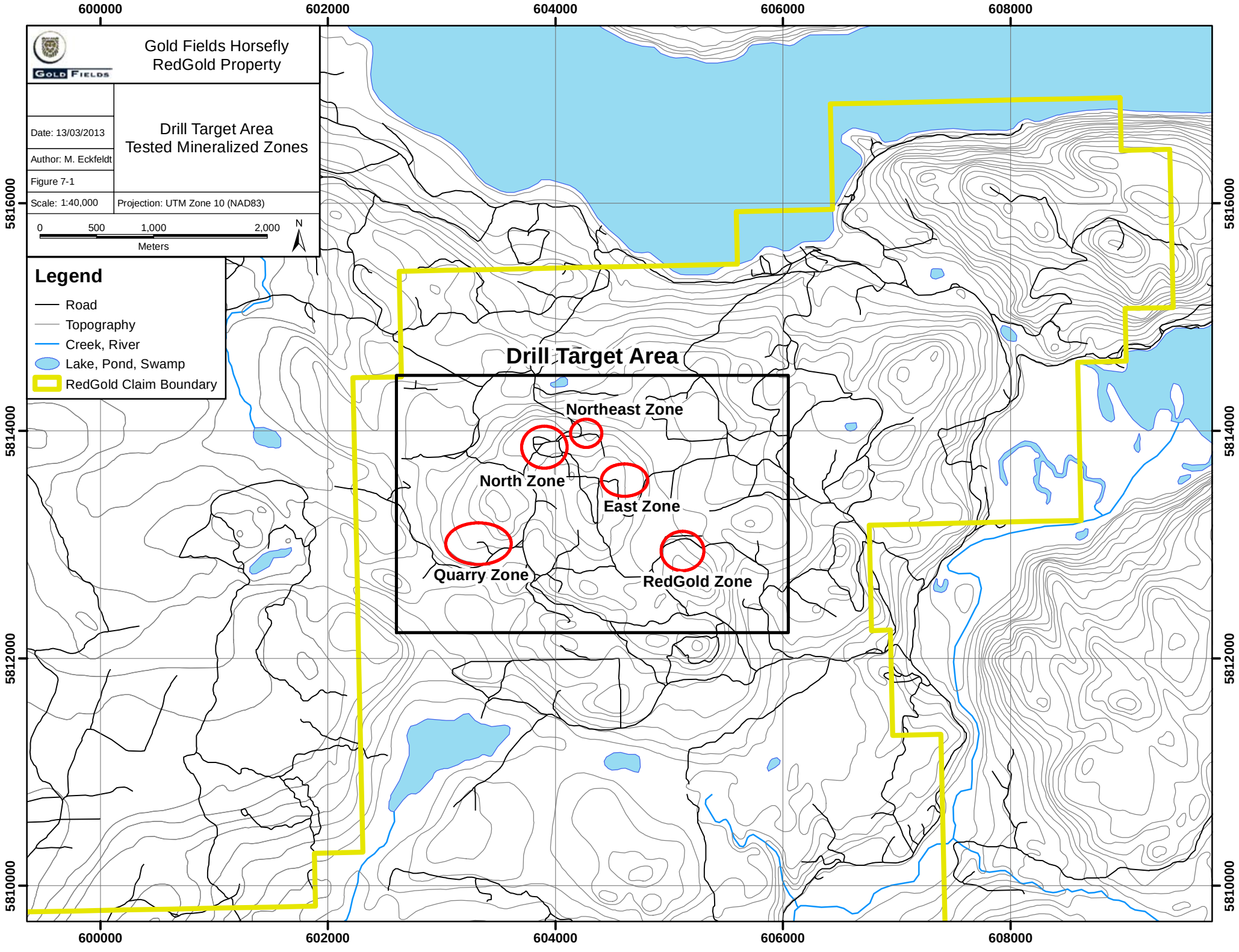
The RedGold Property has been explored for alkalic porphyry related copper-gold deposits by several companies over the last four decades. Both geophysical and geochemical surveys have generated anomalies indicative of potential for moderate sized mineralized bodies on the property. As follow-up to these target generation efforts, seven diamond drill programs totalling 9368.14 m (49 holes) have been completed as of December 31, 2012. The mineralization encountered is mostly characterized by chalcopyrite and bornite occurring as disseminations and fracture filling. Several targets have been tested over the years (Figure 7-1):

7.1 Local Geology

The RedGold Property is centered on an Early Jurassic alkalic intrusive complex, known as the Shiko Lake stock. The Shiko Lake stock is comprised of older dioritic instrusions and later syenite that have intruded the Early Mesozoic volcanic and sedimentary rocks which comprise one of many volcanic centers in the Quesnel Trough (Figure 7-2). The volcanic stratigraphy is characterized by a series of alternating plagioclase-phyric to pyroxene-phyric, coherent and clastic facies interpreted as lavas and/or shallow intrusions associated with reworked monomictic and polymictic clastic facies. Local interbeds of andesitic to basaltic sandstone can also be found. The volcanic stratigraphy dips steeply to the west-southwest. Also present is a finely bedded siliciclastic siltstone, cross-cut by the Shiko Lake stock.

7.2 East Zone

The East Zone was reportedly discovered by prospecting in 2004. This zone is characterized by syenite instrusive breccias found along a complex contact between: a small plagioclase-phyric diorite to monzonite plug in the center of the zone; a plagioclase volcaniclastic breccia in the western portion; and a pyroxene volcaniclastic breccia in the eastern portion. Both the volcaniclastic country rock and diorite to monzonite plug exhibit secondary k-feldspar and magnetite alteration in close proximity to the syenite. Epidote-chlorite-carbonate and magnetite alteration is more common distal to the syenite. Copper and gold mineralization is hosted in all units found in this area, but higher grades are found in closer proximity to the syenite. In 2011 drill hole RG11-02, returned 184 m of 0.14% Cu and 0.29 g/t Au, demonstrating that the mineralization discovered on surface, extended to depth. Four holes were drilled here in the 2012 drill program. Intercepts of note include 151.94 m of 0.21% Cu and 0.24 g/t Au in RG12-11. **Note that intercept lengths described are core lengths and may not represent true widths.**


Gold Fields Horsefly
RedGold Property
Drill Target Area
Tested Mineralized Zones
Date: 13/03/2013
Author: M. Eckfeldt
Figure 7-1
Scale: 1:40,000
Projection: UTM Zone 10 (NAD83)
0 500 1,000 2,000
Meters
N
Legend
Road
Topography
Creek, River
Lake, Pond, Swamp
RedGold Claim Boundary
Drill Target Area
Northeast Zone
North Zone
East Zone
Quarry Zone
RedGold Zone
600000
602000
604000
606000
608000
5816000
5814000
5812000
5810000

7.3 North Zone

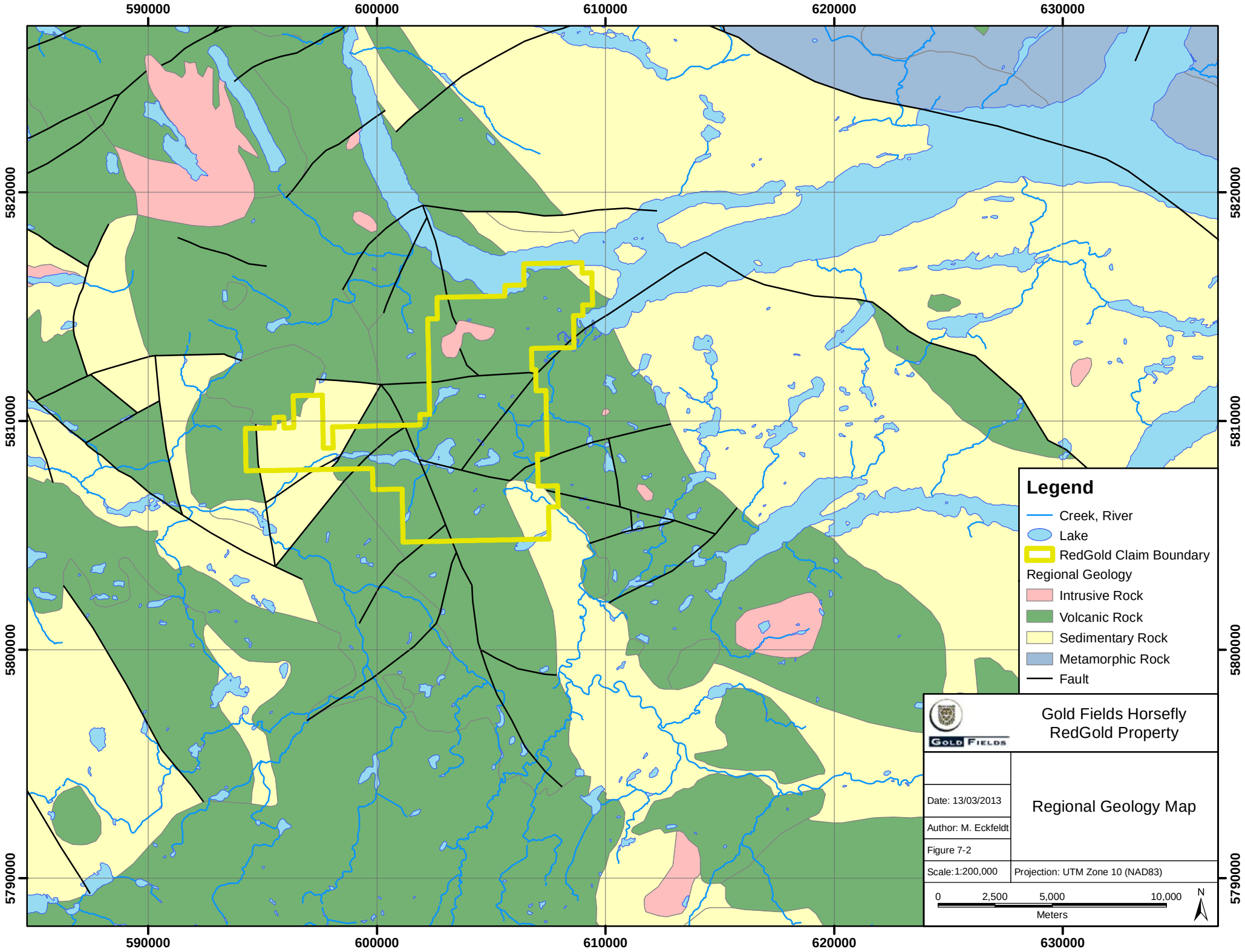
One of the earliest exploration targets for the Fox group in 1990, the North Zone covers the northeast extension of the main Shiko Lake diorite and its contact with plagioclase-phyric volcaniclastic breccia. Most of the four historic holes intercepted widespread potassic alteration (K-feldspar-biotite-amphibole-magnetite) with anomalous metal endowment (SH90-06: 8.0 m of 0.15% Cu and 0.32 g/t Au; SH07-03: 8.1 m of 0.64% Cu and 2.07 g/t Au, 28.5 m of 0.36% Cu and 0.99 g/t Au, and 9.9 m of 0.61% Cu and 1.54 g/t Au; SH07-09: 12.0 m of 0.08% Cu and 0.47 g/t Au). No new holes were drilled here during the 2012 drill program. **Note that intercept lengths described are core lengths and may not represent true widths.**

7.4 Northeast Zone

Anomalous soil and surface rock samples have been followed up by 5 drill holes to date. Lithology in this area is dominated by both plagioclase-phyric and pyroxene-phyric volcaniclastic breccia. Pervasive epidote-calcite alteration is overprinted by intense (texturally destructive) magnetite-epidote-K-feldspar alteration in holes SH90-05 and SH90-08. Most holes contained broad intercepts of geochemically anomalous metal (SH90-05: 13.7 m of 0.21% Cu and 0.32 g/t Au; SH90-08: 18.0 m of 0.09% Cu and 0.32 g/t Au; SH91-09: 11.0 m of 0.12% Cu and 0.09 g/t Au). Approximately 100 m to the east than had been previously drilled, RG11-04 intercepted 20.0 m of 0.15% Cu and 0.11 g/t Au. No new holes were drilled here during the 2012 drill program. **Note that intercept lengths described are core lengths and may not represent true widths.**

7.5 Quarry Zone

Discovered incidentally during quarrying operations in the late 1980s, highly anomalous copper and gold occur as fracture fill and disseminations in a composite alkalic intrusion which ranges in composition from: a plagioclase-biotite bearing monzonite; a syenite; and a northeast striking quartz monzonite dyke. Several channel samples and a total of nine drill holes had been completed in this area, most of them intersecting up to 15 metres of moderately to strongly anomalous mineralization. The best intersects are 17.0 m of 0.31% Cu and 1.39 g/t Au (RG96-02), 24.2 metres of 0.06% Cu and 0.37 g/t Au (SH07-01), and 52.0 metres of 0.09% Cu and 0.38 g/t Au (SH07-02). During the 2012 drill program, two new holes were completed here. Intercepts of note include 12.00 m of 0.06% Cu and 0.77 g/t Au in RG12-14. **Note that intercept lengths described are core lengths and may not represent true widths.**


590000
600000
610000
620000
630000
5820000
5810000
5800000
5790000
Legend
Creek, River
Lake
RedGold Claim Boundary
Regional Geology
Intrusive Rock
Volcanic Rock
Sedimentary Rock
Metamorphic Rock
Fault
Gold Fields
Gold Fields Horsefly
RedGold Property
Regional Geology Map
Date: 13/03/2013
Author: M. Eckfeldt
Figure 7-2
Scale: 1:200,000
Projection: UTM Zone 10 (NAD83)
0
2,500
5,000
10,000
Meters
N

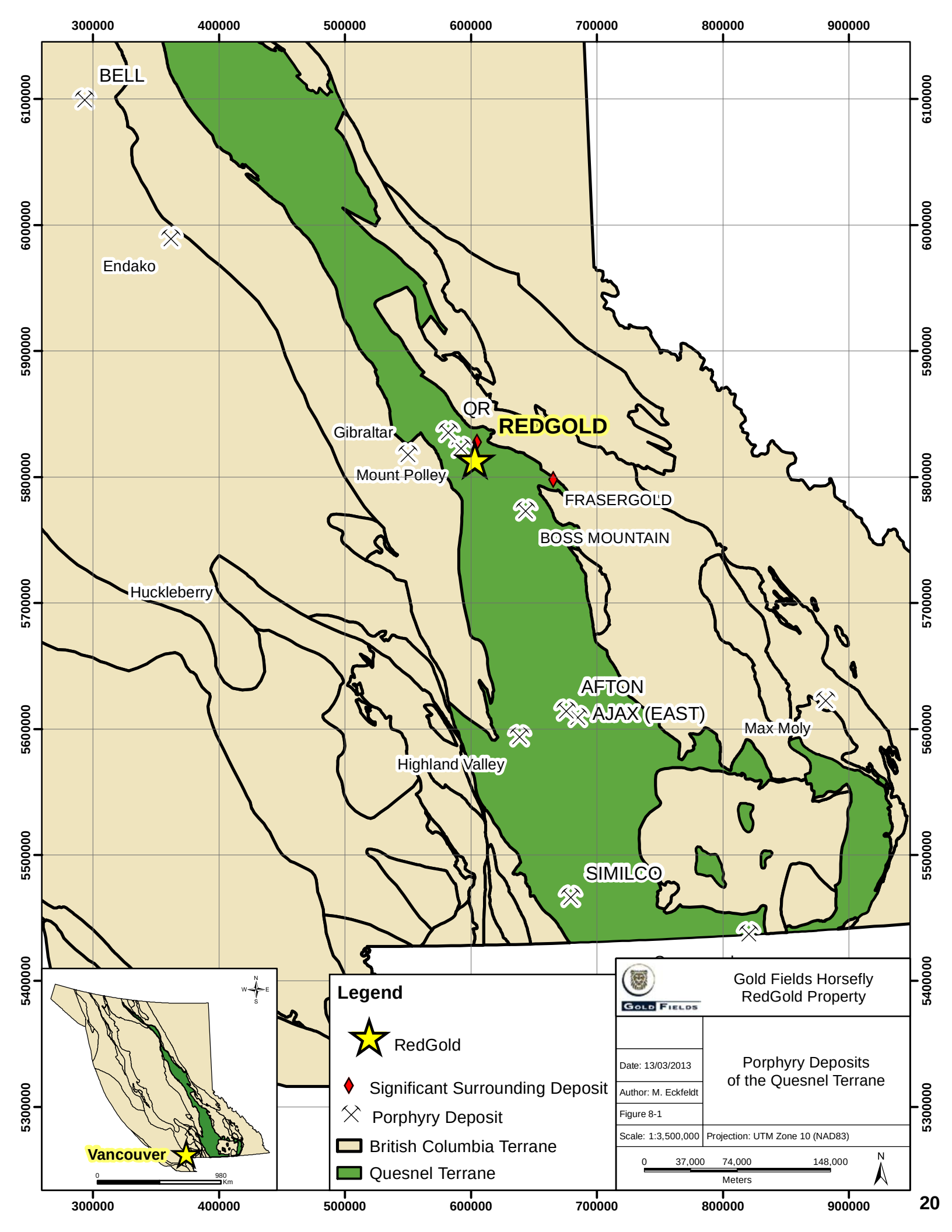
7.6 RedGold Zone

The RedGold Zone sits within an extensive zone of epidote-calcite-pyrite-K-feldspar altered pyroxene-bearing massive andesite to monomictic volcaniclastic breccia. Elevated concentrations of copper and locally gold occur in rocks “hardened” by garnet-diopside skarn formation, subsequently brecciated and quartz-veined. Three drill holes tested this target. SH91-20, collared 300 metres northeast of the target center within the fringes of the main IP anomaly, cut 15.0 metres of 0.17% Cu and 0.82 g/t Au. Two drill holes have been completed directly over the RedGold showing but did not yield significant results. No new holes were drilled here during the 2012 drill program. **Note that intercept lengths described are core lengths and may not represent true widths.**

8.0 DEPOSIT TYPE

The geology observed in the RedGold area shows potential for alkalic copper-gold mineralization within and around alkalic intrusions hosted within the Nicola volcanic rocks. These targets are similar to mineralization found on the nearby Gold Fields-Consolidated Woodjam Copper (CWC) controlled Woodjam North Property (Megabuck, Megabuck East, Takom, and Deerhorn Zones), Imperial Metals Corp.'s Mount Polley Mine, New Gold Inc.'s New Afton mine, and Teck Resources Ltd.'s Galore Creek Project (Figure 8-1). The following summary is taken from the websites of Imperial Metals Corp, New Gold Inc., and Teck Resources Ltd. The author cautions that these results are not necessarily indicative of mineralization on the RedGold Property.

Imperial Metals Corp has a 43-101 (January 1, 2011) proven and probable reserve for the Mount Polley Mine of 40.5 Mt of 0.32% copper, 0.28 g/t gold and 0.01 g/t silver. New Gold Inc.'s 43-101 (April 2007) stated probable reserve is 44,400,000 tonnes of 0.98% Cu, 0.72% g/t Au, and 2.27 g/t Ag at its New Afton mine. Teck Resources Ltd.'s Galore Creek project has a 43-101 compliant measured resource (July 11, 2011) of 39,500,000 tonnes of 0.25% Cu and 0.39 g/t Au, and an indicated 247,200,000 tonnes of 0.34% Cu and 0.26 g/t Au.


300000
400000
500000
600000
700000
800000
900000
6100000
6000000
5900000
5800000
5700000
5600000
5500000
5400000
5300000
BELL
Endako
QR
REDGOLD
Gibraltar
Mount Polley
FRASERGOLD
BOSS MOUNTAIN
Huckleberry
AFTON
AJAX (EAST)
Max Moly
Highland Valley
SIMILCO
Vancouver
0
980
Km
Legend
RedGold
Significant Surrounding Deposit
Porphyry Deposit
British Columbia Terrane
Quesnel Terrane
Gold Fields Horsefly
RedGold Property
Date: 13/03/2013
Author: M. Eckfeldt
Figure 8-1
Porphyry Deposits
of the Quesnel Terrane
Scale: 1:3,500,000
Projection: UTM Zone 10 (NAD83)
0
37,000
74,000
148,000
Meters
N

9.0 EXPLORATION

The 2012 Gold Fields exploration program commenced on April 24, 2012 and was completed on December 10, 2012. As per the RedGold Resources Ltd.–Gold Fields option agreement, the project was managed by Gold Fields personnel. The work consisted of surface geologic mapping, Ah soil horizon and charcoal sampling, rock sampling, ground geophysics, trenching, bulk sampling, and diamond drilling. Historical core, including the holes from 2011, was re-logged prior to additional drilling. All activities are summarized below.

9.1 Geology

9.1.1 Mapping and Prospecting

Geologic mapping across the Property was conducted between April 24, 2012 and July 31, 2012 by Matthew Eckfeldt and Tim Stubley of Gold Fields, and focused entirely on the drill target area. Exposure of bedrock across the area is patchy and is typically limited to steeper hillsides, ridge tops and road cuts. Where outcrop was found it was mapped in detail. Structural measurements, representative hand samples, and samples for analysis were taken where possible. Outcrops mapped during previous mapping campaigns were locally revisited and mapped in greater detail. However generating new data was a primary objective. Ground magnetic data collected in 2011 was used for interpretation of regional structures and geologic boundaries. The strike and dip of structures were measured in the field using the “right hand rule”.

9.1.2 Surface Geology

Geologic mapping in 2012 was designed to identify different units in the Nicola Group volcanic and volcaniclastic host rock, and to refine the contacts between those stratigraphic units and the various alkalic intrusions present in the RedGold area.

In general, the RedGold Property is characterized by a succession of Triassic Nicola Group volcaniclastic rocks (e.g., monomictic to polymictic volcaniclastic breccias and sandstone/siltstone) and a finely bedded siliciclastic siltstone, which are intruded by dioritic, monzonitic, and syenitic plutons and dykes (

Figure 9-1). Three main stratigraphic units from the Nicola Group have been identified from the historical and the 2012 mapping campaigns: (1) a monomictic, clast-supported, coarse pyroxene-phyric volcaniclastic breccia unit, (2) a polymictic, matrix-supported plagioclase-phyric volcaniclastic breccia unit, and (3) a andesitic to basaltic sandstone/siltstone, massive to locally thickly bedded unit.The volcanic stratigraphy has been observed to have a $167^{o}/74^{o}$ west orientation. The largest intrusive unit observed on the Property is a plagioclase-pyroxene-bearing, equigranular, fine- to coarse-grained dioritic pluton. Other intrusive units include a syenite unit and a plagioclase-phyric monzonite to diorite unit observed in the Quarry Zone, and a syenite intrusive breccia unit and a plagioclase-phyric monzonite to diorite unit observed in the East Zone.

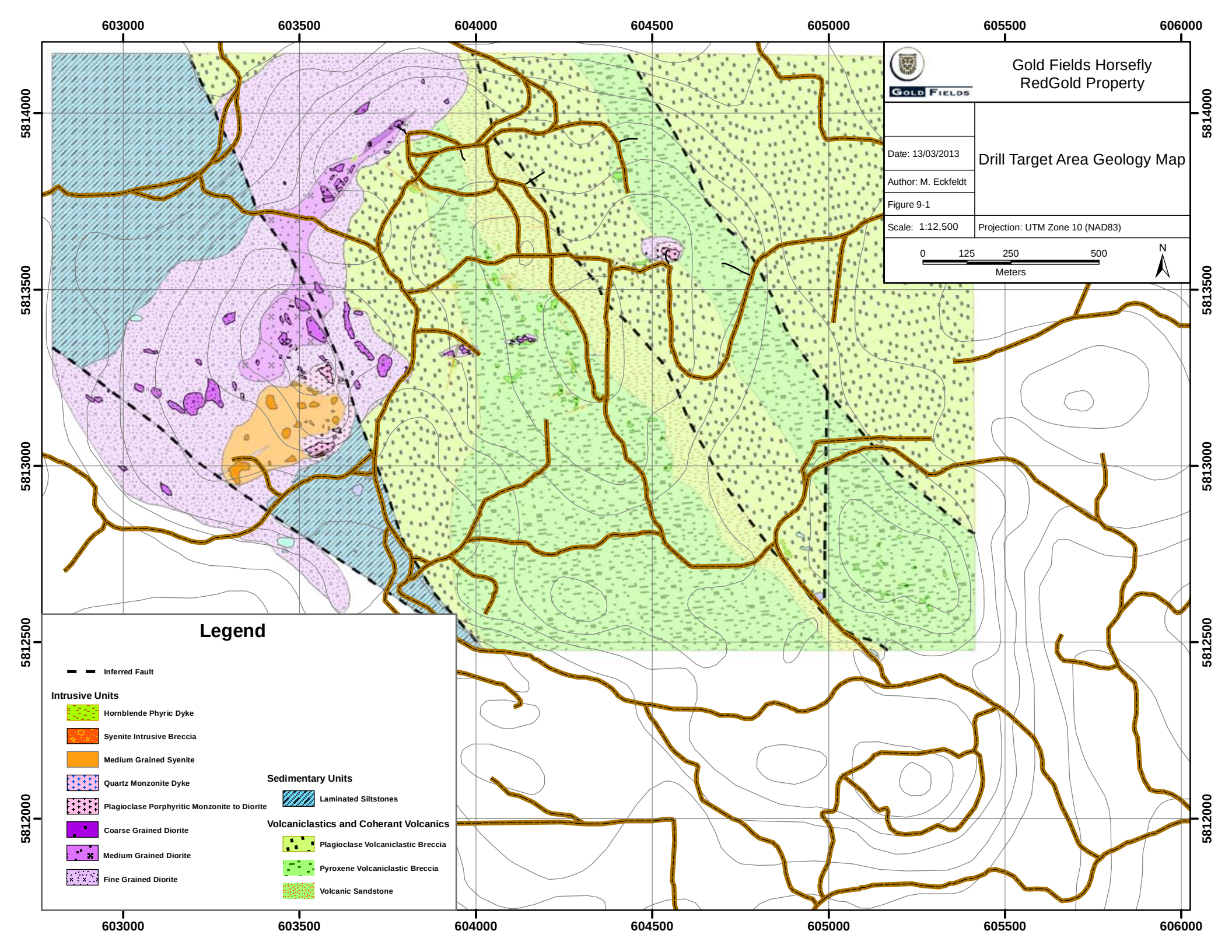
Geology interpretation was done using outcrop locations, and using the 2011 ground magnetometer survey as a tool to identify structures (e.g., bedding, faults) and lithologies that do not outcrop.

Not all units identified in drill core were encountered during surface mapping. Table 9-1 is a summary of all units encountered during the 2012 exploration program.

9.2 Geochemistry

9.2.1 Soil Geochemistry

As part of the 2012 exploration program, Ah soil horizon sampling and charcoal sampling was conducted between May 28, 2012 and June 6, 2012. A total of 318 Ah including duplicates (Figure 9-2) and 275 charcoal samples including field duplicates (Figure 9-3. Charcoal Sample Location Map. were collected at 318 stations in the drill target area. Au values can be seen in Figure 9-4 and Figure 9-5 for the Ah and charcoal samples respectively. Sample descriptions and lab certificates can be found in Appendix 1 and 2 respectively. Ah and charcoal samples were collected by Steve Lehman, and Dillon Hume, of Durfeld Geological Management Ltd of Williams Lake, BC, under supervision of Matthew Eckfeldt of Gold Fields. The Ah soil horizon and charcoal fragments in the leaf-litter horizon have proved to be successful sample mediums when testing for covered mineralization on the nearby Woodjam property (Skinner, 2011) and elsewhere in British Columbia (Heberlein et. al., 2010; Heberlein and Dunn, 2011).


603000
603500
604000
604500
605000
605500
606000
5814000
5813500
5813000
5812500
5812000
Gold Fields Horsefly
RedGold Property
Date: 13/03/2013
Drill Target Area Geology Map
Author: M. Eckfeldt
Figure 9-1
Scale: 1:12,500
Projection: UTM Zone 10 (NAD83)
0
125
250
500
Meters
N
Legend
Inferred Fault
Intrusive Units
Hornblende Phyric Dyke
Syenite Intrusive Breccia
Medium Grained Syenite
Quartz Monzonite Dyke
Plagioclase Porphyritic Monzonite to Diorite
Coarse Grained Diorite
Medium Grained Diorite
Fine Grained Diorite
Sedimentary Units
Laminated Siltstones
Volcaniclastics and Coherant Volcanics
Plagioclase Volcaniclastic Breccia
Pyroxene Volcaniclastic Breccia
Volcanic Sandstone

Group		Local Lithology Code	Description
General Logging Codes		OVB	Overburden (OB)
Faults		Fault	Fault (UT)
		FaultBx	Fault breccia (UTB)
		FaultGg	Fault gouge (UTG)
Dykes		HblAnd	Hornblende-phyric andesite (IPAN)
		HblBa	Hornblende-phyric basalt (IFBA)
		CrsPlagPorAnd_dyk	Coarse-grained plagioclase-phyric andesite (IPAN)
		PlagPorAnd_dyk	Fine plagioclase-phyric andesite (IPAN)
Hydrothermal Breccias		HydBx	Hydrothermal Breccia -undifferentiated (BX)
Siliciclastic Sediments		LamSiltS	Laminated Siltstone
Monzonites and Syenites		MedMonz	Medium-grained monzonite (IMMO)
		CrsSyen	Coarse-grained syenite (ICSY)
		CrsSyen_BX	Coarse-grained syenite crackle breccia (ICSY)
		MedSyen	Medium-grained syenite (IMSY)
		MedSyen_BX	Medium-grained syenite crackle breccia (IMSY)
		MedSyen_IBX	Medium-grained syenite intrusive breccia (IMSY)
		MedPlagPorDio	Medium-grained plagioclase-phyric Monzonite to Diorite (IPD)
		PlagKsparPorMonz	Plagioclase-orthoclase-phyric monzonite (IPMO)
Diorites		FnDio	Fine-grained Diorite (IFD)
		MedDio	Medium-grained Diorite (IMD)
		CrsDio	Coarse-grained Diorite (ICD)
Nicola Volcanic Stratigraphy	Volcaniclastic sediments and breccias	VolSiltS	Volcanic siltstone/mudstone (< 0.16mm) (VANMU)
		VolSS	Andesitic to basaltic sandstone (VANSS)
		VolBX	Volcanic breccia (clasts > 2mm) (VANTB)
	Fine Plagioclase Andesite	FnPlagAnd	Fine-grained plagioclase-phyric andesite (IFAN)
		FnPlagAnd_PBX	Polymictic fine-grained plagioclase-phyric andesite breccia (IFAN)
	Medium Plagioclase Andesite	MedPlagAnd	Medium-grained plagioclase-phyric andesite (IFAN)
		MedPlagAnd_MBX	Monomictic fine-grained plagioclase-phyric andesite breccia (IFAN)
	Fine Pyroxene Andesite	FnPxAnd	Fine pyroxene-phyric andesite (VolSS)
		FnPxAnd_BXc	Clast supported fine pyroxene-phyric andesite breccia (VANAB)
		FnPxAnd_BXm	Matrix supported fine pyroxene-phyric andesite breccia (VANAB)
	Coarse Pyroxene Andesite	CrsPxAnd	Coarse pyroxene-phyric andesite (IPAN)
		CrsPxAnd_BX	Coarse pyroxene-phyric andesite autobreccia (VANAB)

Table 9-1. Lithologies Encountered on the RedGold Property During the 2011 Exploration Program.

Since the eastern portion of the drill target area is thought to have a thick overburden cover, it was thought that the Ah soil horizon and charcoal sampling maybe reflect bedrock geology more accurately than conventional B horizon soil samples.

The sample lines were 200 m apart, oriented west to east, using 100 m spaced cut-lines in support of the 2012 IP program. The sample lines ranged from 1.1 km to 0.66 km. Samples were collected every 25 m where possible. The Ah and charcoal samples were collected from the same site at each station. Field duplicates for both the Ah soil horizon and charcoal were collected from a separate site at every 25th station.

All samples were surveyed, and sample information was collecting using Panasonic Toughbook CF-U1 portable computers and paired Bluetooth GPS units. All samples were placed in Kraft sample bags and air dried at the compound in Horsefly. Ah soil horizon and charcoal samples were then sent to ALS Laboratories Ltd. in North Vancouver (Figure 9-4 and Figure 9-5) for Aqua Regia gold digestion (Au-ST43) and multi-element analysis (ME-MS41).

From the Ah samples, copper and gold anomalies were found around known mineralization such as that in the East Zone, as well as some unexplained anomalies. The charcoal samples are thought to be less effective.

9.2.2 Rock Geochemistry

During the 2012 exploration program, 206 surface rock samples were collected by Matthew Eckfeldt and Tim Stubley of Gold Fields (Appendix 3). Random grab samples were collected from outcrop and placed in numbered plastic sample bags with like-numbered weather-proof sample tags inserted into the bags. Sample locations (Figure 9-6) and information were recorded with Panasonic Toughbook CF-U1 portable computers and paired Bluetooth GPS units. Sample sites were marked with ribbon as well as with a small metal tag inscribed with the sample number. 180 rock samples were shipped via VanKam freight from Williams Lake BC to ALS Laboratories Ltd. in North Vancouver for Aqua Regia digestion, multi-element ICP-MS analysis (ME-MS41), and gold determination by fire assay fusion analysis (AU-ICP21) (Figure 9-7). Results can be found in Appendix 4. The remaining 26 rock samples were sent to ALS Laboratories Ltd. for whole rock analysis (Appendix 5).

Several samples returned values above 0.1 g/t Au. However samples of note included:
East Zone: Sample I675761: 0.33% Cu and 0.85 g/t Au
North Zone: Sample I675851: 0.11% Cu and 0.32 g/t Au
Quarry Zone : Sample I675934 : 0.09% Cu and 5.2 g/t Au
RedGold Zone : Sample : I675868 : 0.31% Cu and 0.39 g/t Au

602750 603000 603250 603500 603750 604000 604250 604500 604750 605000 605250 605500

5814250 5814000 5813750 5813500 5813250 5813000 5812750 5812500 5812250

Gold Fields Horsefly
RedGold Property

Ah Sample Locations

Date: 13/03/2013

Author: M. Eckfeldt

Figure 9-2

Scale: 1:2,500

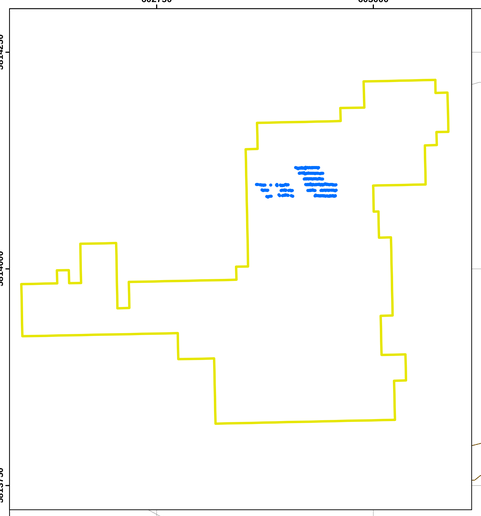
Projection: UTM Zone 10 (NAD83)

0 62.5 125 250
Meters

N

Legend

- Ah Samples and Sample ID
- Roads
- Topography
- Creek, River
- Lake, Pond, Swamp



Gold Fields Horsefly
RedGold Property

Charcoal Sample Locations

Date: 13/03/2013

Author: M. Eckfeldt

Figure 9-3

Scale: 1:2,500

Projection: UTM Zone 10 (NAD83)

0 62.5 125 250
Meters

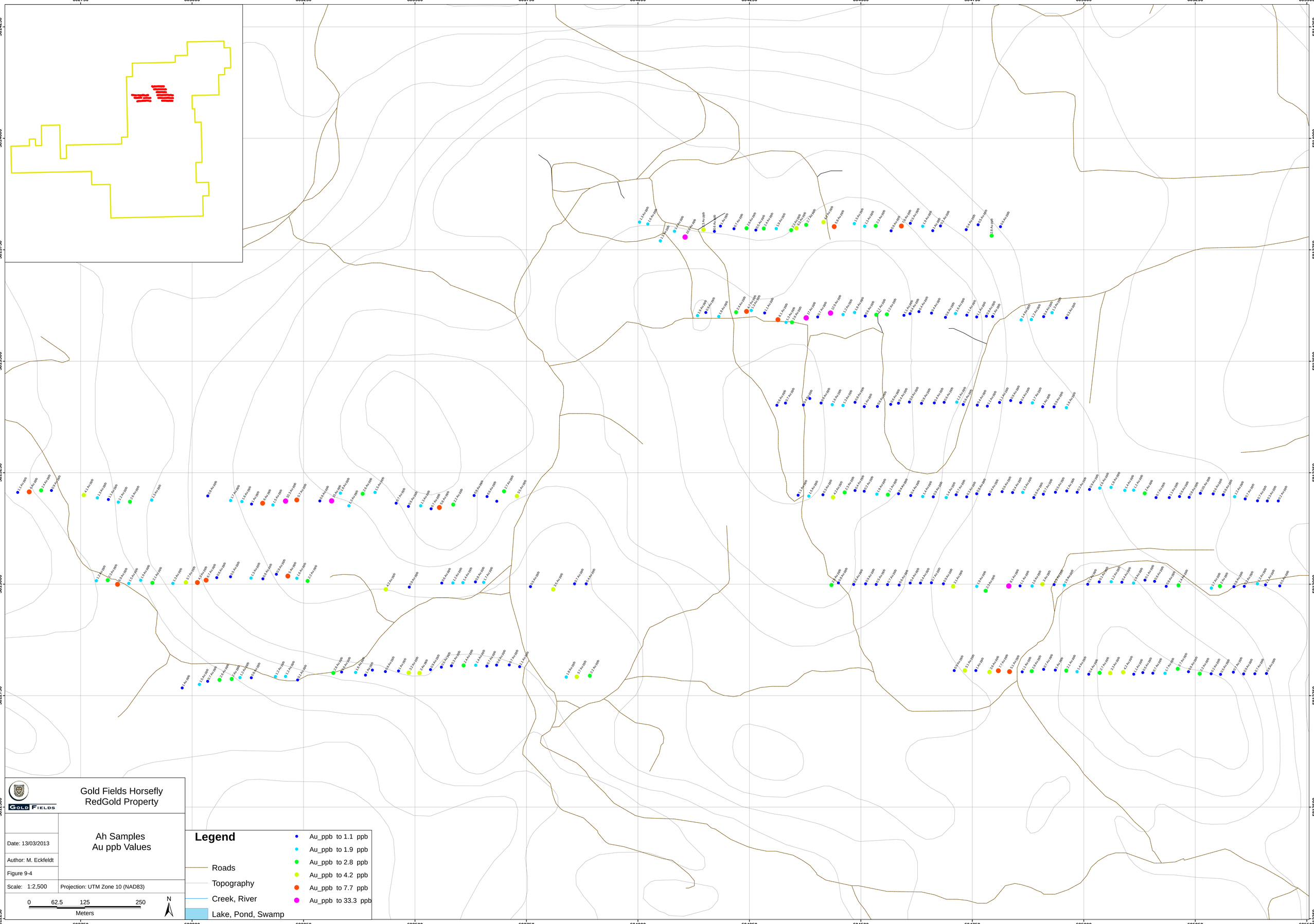
N

Legend

- Charcoal Samples and Sample ID
- Roads
- Topography
- Creek, River
- Lake, Pond, Swamp

602750 603000 603250 603500 603750 604000 604250 604500 604750 605000 605250 605500

5814250 5814000 5813750 5813500 5813250 5813000 5812750 5812500 5812250


602750
603000
603250
603500
603750
604000
604250
604500
604750
605000
605250
605500
5814250
5814000
5813750
5813500
5813250
5813000
5812750
5812500
5812250
Gold Fields Horsefly
RedGold Property
Ah Samples
Au ppb Values
Date: 13/03/2013
Author: M. Eckfeldt
Figure 9-4
Scale: 1:2,500
Projection: UTM Zone 10 (NAD83)
0
62.5
125
250
Meters
N
Legend
Roads
Topography
Creek, River
Lake, Pond, Swamp
Au_ppb to 1.1 ppb
Au_ppb to 1.9 ppb
Au_ppb to 2.8 ppb
Au_ppb to 4.2 ppb
Au_ppb to 7.7 ppb
Au_ppb to 33.3 ppb

Gold Fields Horsefly
RedGold Property

Charcoal Samples
Au ppb Values

Date: 13/03/2013

Author: M. Eckfeldt

Figure 9-5

Scale: 1:2,500

Projection: UTM Zone 10 (NAD83)

0 65 130 260
Meters

N

Legend

- Roads
- Topography
- Creek, River
- Lake, Pond, Swamp

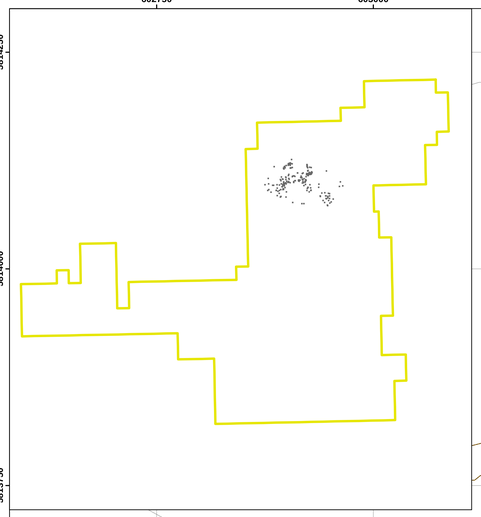
- Insufficient Sample
- Au_ppb to 0.2 ppb
- Au_ppb to 0.5 ppb
- Au_ppb to 0.8 ppb
- Au_ppb to 1.3 ppb
- Au_ppb to 2.2 ppb
- Au_ppb to 8.4 ppb

602750 603000 603250 603500 603750 604000 604250 604500 604750 605000 605250 605500

5814250 5814000 5813750 5813500 5813250 5813000 5812750 5812500 5812250

602750 603000 603250 603500 603750 604000 604250 604500 604750 605000 605250 605500

5814250 5814000 5813750 5813500 5813250 5813000 5812750 5812500 5812250



Gold Fields Horsefly RedGold Property

Rock Sample Locations

Date: 13/03/2013

Author: M. Eckfeldt

Figure 9-6

Scale: 1:2,500

Projection: UTM Zone 10 (NAD83)

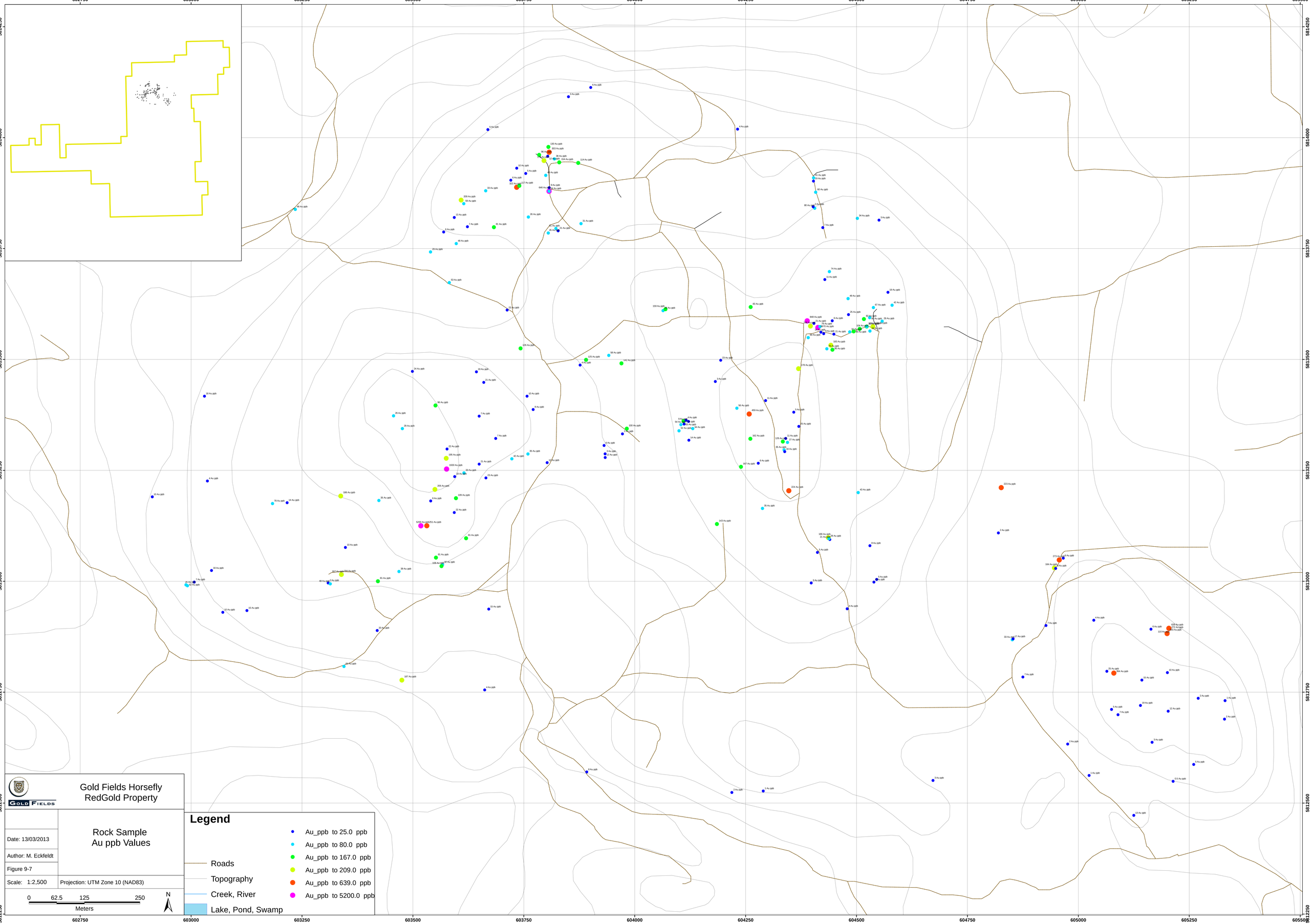
0 62.5 125 250

Meters

N

Legend

- Rock Sample ID
- Roads
- Topography
- Creek, River
- Lake, Pond, Swamp


602750
603000
603250
603500
603750
604000
604250
604500
604750
605000
605250
605500
5814250
5814000
5813750
5813500
5813250
5813000
5812750
5812500
5812250
Gold Fields Horsefly
RedGold Property
Rock Sample
Au ppb Values
Date: 13/03/2013
Author: M. Eckfeldt
Figure 9-7
Scale: 1:2,500
Projection: UTM Zone 10 (NAD83)
0 62.5 125 250
Meters
N
Legend
Roads
Topography
Creek, River
Lake, Pond, Swamp
Au_ppb to 25.0 ppb
Au_ppb to 80.0 ppb
Au_ppb to 167.0 ppb
Au_ppb to 209.0 ppb
Au_ppb to 639.0 ppb
Au_ppb to 5200.0 ppb

9.2.3 Whole Rock Geochemistry

A total of 26 surface rock samples were analyzed for whole rock geochemistry. The least altered representative grab samples were collected from outcrop and placed in numbered plastic sample bags with like-numbered weather-proof sample tags inserted into the bags. Sample locations (Figure 9-6) and information were recorded with Panasonic Toughbook CF-U1 portable computers and paired Bluetooth GPS units. Sample sites were marked with ribbon as well as with a small metal tag inscribed with the sample number. Samples were shipped via VanKam freight from Williams Lake BC to ALS Laboratories Ltd. in North Vancouver for lithium metaborate fusion and multi-element XRF or ICP-AES and rare and trace element ICP-MS analysis (ME-MS81d) (Appendix 5). Figure 9-8 shows the total alkali plotted against the SiO_2 content. The figure shows that units mapped with the same lithology codes, group together in the rock classification diagram. Furthermore the figure reflects the alkali nature of the rocks on the RedGold Property. Refer to table Table 9-1 for descriptions of the rock codes.

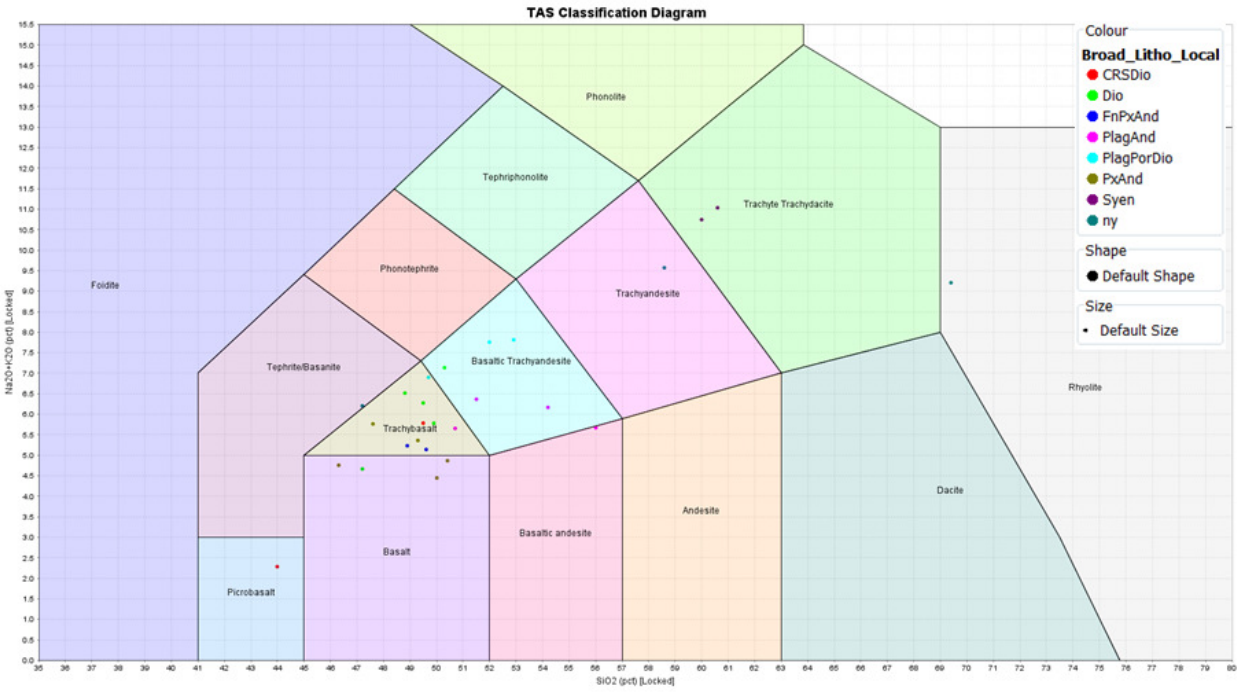


Figure 9-8. RedGold Whole Rock Classification Diagram.

9.2.4 Trench Sample Geochemistry

Trenching was completed on the RedGold property from October 28, 2012 to November 3, 2012. In total 11 trenches totaling 357m length were constructed across the RedGold property including 4 in the East Zone, 2 in the North Zone and 3 in the Quarry Zone and 2 on geochemical anomalies. A John Deere 50D mini excavator, operated by Steve Lehman of Durfeld Geological, was used to construct the trenches. In the Quarry Zone, some of the trenches from Imperial Metals' 1996 exploration program were reopened to confirm

anomalous copper and gold values. Since no UTM coordinates were available and the original trench markers were not visible an approximation of the original locations, for the purposes of the 2012 program, was determined by landmarks and channel sample locations. Several of the other 2012 trenches were constructed in previously disturbed areas. Sampling was completed by Twila Skinner of Gold Fields, Darcy Jackson of Mincord and Steve Lehman of Durfeld Geological. Rudi Durfeld, one of the property owners was also on site during portions of the trenching program. Grab samples were collected across the trenches at varying intervals from 1-2 m. Samples intervals were determined by the presence of favorable geology and visible copper mineralization. A total of 134 samples were taken (Appendix 6). Trench and trench sample locations can be found in Figure 9-9. The trenches were backfilled at the end of the program. Seeding is planned for the 2013. Samples were shipped via VanKam freight from Williams Lake BC to ALS Laboratories Ltd. in North Vancouver for Aqua Regia digestion, multi-element ICP-MS analysis (ME-MS41), and gold determination by fire assay fusion analysis (AU-ICP21). Assay results can be found on Figure 9-10 , and in Appendix 7.

Anomalous values of Au and Cu were encountered in the East Zone and Quarry Zone trenches.

9.2.5 Bulk Sampling

Concurrent with the 2012 trenching program in the Quarry area, Durfeld Geological collected approximately 75 tons of syenite as decorative stone. This work utilized areas of previous disturbance (Figure 9-9). The rock was collected and loaded in a tandem dump truck with a John Deere 50D mini excavator. The rock was trucked to Williams Lake for storage and is awaiting further use. No Material was sent to a lab for analysis.

9.3 Geophysics

9.3.1 IP

IP geophysical surveys were conducted across the Property from May 15, 2012 to July 8, 2012. These surveys included tightly spaced 3D IP survey carried out over the drill target area, and IP over the central portion of the Property (Figure 9-11). The objective of these surveys was to aid in target generation for the upcoming drill program. Each survey and general results are described below. The details and results of IP survey design can be found in Appendix 08.

603250 603500 603750 604000 604250 604500 604750

5813750 5813500 5813250 5813000 5812750

Quarry Zone Bulk Sampling Site

Gold Fields Horsefly
RedGold Property

Trench Sample Locations
Bulk Sample Site

Date: 13/03/2013

Author: M. Eckfeldt

Figure 9-9

Scale: 1:1,500

Projection: UTM Zone 10 (NAD83)

0 37.5 75 150
Meters

N

Legend

- Trench Sample
- Trench Location
- Roads
- Topography
- Creek, River
- Lake, Pond, Swamp

603250 603500 603750 604000 604250 604500 604750

5813750 5813500 5813250 5813000 5812750

Gold Fields Horsefly
RedGold Property

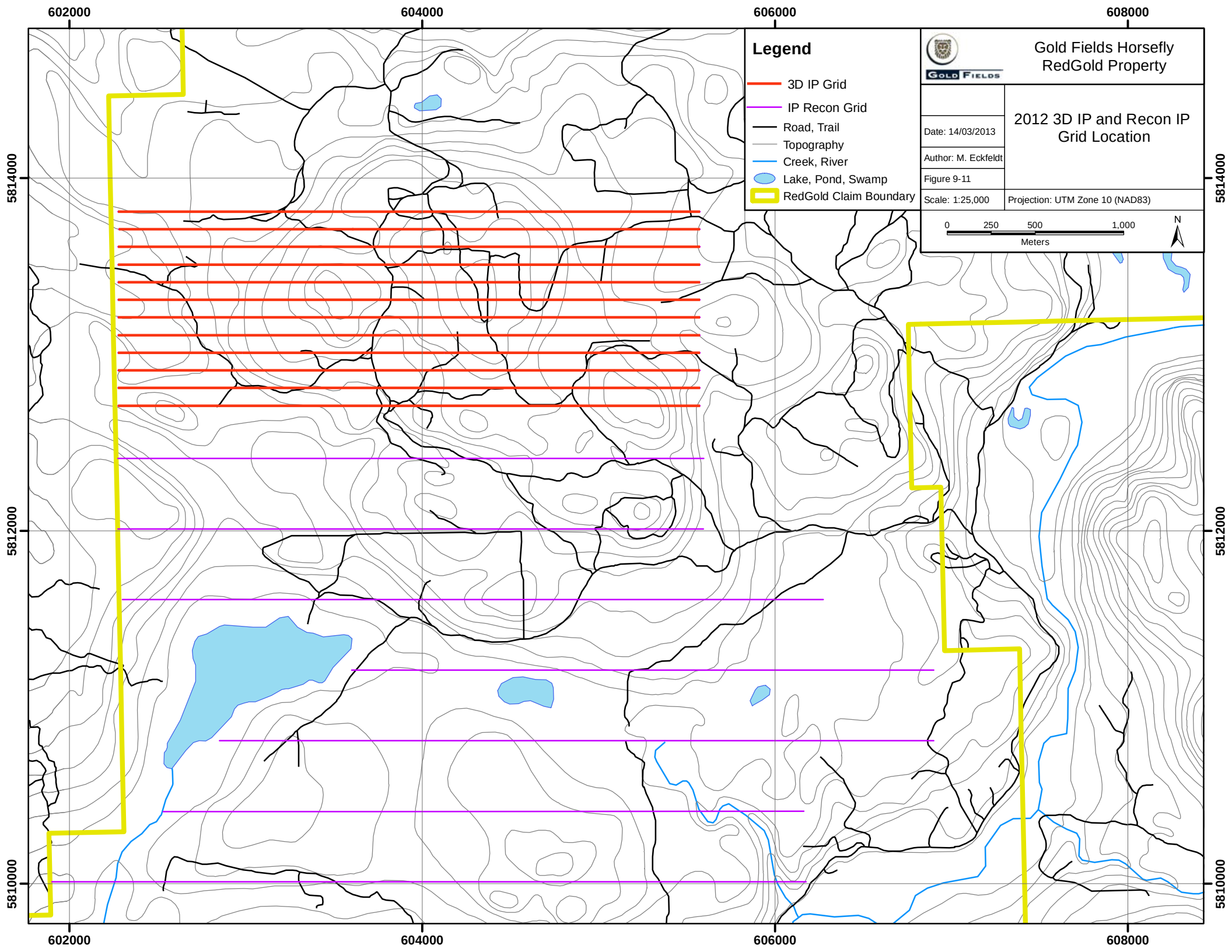
	Trench Sample Au ppb Values
Date: 13/03/2013	
Author: M. Eckfeldt	
Figure 9-10	
Scale: 1:1,500	Projection: UTM Zone 10 (NAD83)

0 37.5 75 150
Meters

N

Legend

- Au_ppb to 56.0 ppb
- Au_ppb to 225.0 ppb
- Au_ppb to 481.0 ppb
- Au_ppb to 821.0 ppb
- Au_ppb to 1495.0 ppb
- Au_ppb to 4860.0 ppb
- Trench Location
- Roads
- Topography
- Creek, River
- Lake, Pond, Swamp


602000
604000
606000
608000
5814000
5812000
5810000
Legend
3D IP Grid
IP Recon Grid
Road, Trail
Topography
Creek, River
Lake, Pond, Swamp
RedGold Claim Boundary
Gold Fields
Gold Fields Horsefly
RedGold Property
2012 3D IP and Recon IP
Grid Location
Date: 14/03/2013
Author: M. Eckfeldt
Figure 9-11
Scale: 1:25,000
Projection: UTM Zone 10 (NAD83)
0
250
500
1,000
Meters
N

9.3.2 IP (Chargeability and Resistivity)

From May 15, 2012 to July 8, 2012 multiple Induced Polarization (IP) surveys were conducted by Scott Geophysics of Vancouver British Columbia across the Property. A total of 67.45 line kilometers were completed between two grids across the Property: 44.75 km of 3D IP over the drill target area; and 26.1 km of Reconnaissance IP to the south of the drill target area, covering an area approximately 2.4 km long and 4 km long (Figure 9-11). The northern 3D IP grid employed a combination of inline pole-dipole and offset pole-dipole arrays. The southern Reconnaissance IP grid used only a pole-dipole array. All the raw data was supplied to Gold Fields Chief Geophysicist, Andrew Foley, who employed quality assurance-quality control protocols, processed and modeled the data. A full description of procedures and pseudo-sections are presented in the Scott Geophysics Logistical Report in Appendix 08.

At the East Zone, a ~200 m wide chargeability anomaly appears to be related to chalcopyrite mineralization hosted in the volcanic stratigraphy and small intrusions. Furthermore, several new areas of interest were identified in the Reconnaissance IP grid.

10.0 DRILLING

10.1 Re-logging Historical Core

The re-logging of fourteen historic drill holes, including seven 2007 diamond drill holes and all 2011 drill holes was undertaken by Matthew Eckfeldt of Gold Fields, in the summer of 2012. Re-logging was done primarily to define lithological units within the volcanic stratigraphy, to define the various intrusive lithological units intercepted, and to define possible lithological controls on mineralization. Alteration zones and their intensities were not recorded due to degradation of the 2007 core, and due the data having been collected in an acceptable format in the 2011 core. Structural data was not collected for the same reasons. New lithological codes were assigned to the units intercepted and these newly-defined “from-to’s” were entered into the Access database, with the express purpose of enabling integration of historic logs with the logging that was to take place during the 2012 drilling program.

10.2 Historical Drilling

A number of diamond drilling programs were conducted on the RedGold property since the 1980s: Terramar Resource Corporation completed three BQ size holes in 1980 (321.20 metres); Phelps Dodge Corporation of Canada Ltd. completed five NQ size holes in 1990 (536.30 metres) and 12 NQ size holes in 1991 (1458.10 metres); Imperial Metals Corporation completed 4 NQ size holes in 1996 (411.60 metres); NovaGold Resources Inc. completed 11 NQ size holes in 2007 (2293.46 metres); and Gold Fields completed 7 NQ size holes in 2011 (2174.14 m).

The historic drill hole locations are shown in Table 10-1. Table 10-2 shows composites for gold and copper calculated from assay results published in assessment reports for the 1980, 1990, 1991, 1996, 2007 and 2011 drilling campaigns. All coordinates are reported in UTM NAD83 Zone 10 projection, and all measurements are reported in metres unless otherwise stated. **Note, the following reported interval widths are along the drill core lengths and may not represent true or actual widths of mineralization.**

Hole ID	UTM Easting	UTM Northing	Elevation (m)	Azimuth (°)	Dip (°)	Depth (m)
SH80-01	603550	5813075	1000	360	-90	76.20
SH80-02	603565	5813030	1000	337	-45	123.00
SH80-03	603480	5813045	1000	360	-90	122.00
SH90-04	603480	5814540	883	360	-90	111.50
SH90-05	604349	5813978	957	360	-90	123.70
SH90-06	603805	5813883	967	360	-90	126.80
SH90-07	603857	5813794	965	360	-90	96.30
SH90-08	604350	5813976	963	60	-45	78.00
SH91-09	604257	5814036	945	60	-50	121.30
SH91-10	604437	5813794	982	60	-50	133.50
SH91-11	603060	5814400	887	360	-90	121.90
SH91-12	602480	5814400	884	360	-90	121.90
SH91-13	602570	5814185	893	360	-90	155.40
SH91-14	602905	5814170	908	360	-90	121.90
SH91-15	602555	5813845	893	360	-90	61.00
SH91-16	602745	5813845	899	360	-90	98.50
SH91-17	602780	5813850	913	360	-90	128.00
SH91-18	603220	5813855	913	360	-90	77.70
SH91-19	604165	5813140	991	360	-90	158.50
SH91-20	604947	5813051	975	360	-90	158.50
RG96-01	603334	5812967	949	266	-45	102.10
RG96-02	603348	5813028	948	270	-45	99.10
RG96-03	603203	5813011	937	160	-45	105.20
RG96-04	603099	5812967	941	90	-45	105.20
SH07-01	603357	5813028	931	270	-70	151.78
SH07-02	603335	5812969	934	310	-70	151.70
SH07-03	603809	5813882	955	360	-60	150.80
SH07-04	604214	5813954	940	90	-65	282.90
SH07-05	603446	5814403	878	160	-65	166.10
SH07-06	604491	5813557	976	305	-60	125.90
SH07-07	604557	5813564	969	305	-60	133.80
SH07-08	604719	5813305	946	360	-90	349.30
SH07-09	604028	5813894	976	360	-60	343.20
SH07-10	605216	5812913	939	225	-60	139.20
SH07-11	605099	5812923	949	360	-90	298.78

RG11-01	604696	5813572	950	115	-60	241.71
RG11-02	604698	5813575	950	305	-60	342.90
RG11-03	604546	5813614	975	290	-60	341.68
RG11-04	604458	5813927	954	105	-60	294.13
RG11-05	603777	5813963	972	310	-60	351.13
RG11-06	603970	5813865	954	305	-60	306.32
RG11-07	604195	5813832	960	200	-60	296.27

Table 10-1. RedGold Historical Collar Data.

Hole ID	From (m)	To (m)	Interval (m)	Au (g/t)	Cu (%)	Au Equivalent (g/t)	Grade Thickness
RG96-01	32.30	47.60	15.30	0.23	0.06	0.33	5.05
	55.00	59.00	4.00	0.14	0.10	0.32	1.28
RG96-02	7.50	24.50	17.00	1.39	0.31	1.96	33.32
	32.60	33.20	0.60	0.16	0.06	0.27	0.16
	49.50	52.00	2.50	0.22	0.03	0.27	0.68
	64.20	67.00	2.80	0.19	0.06	0.30	0.84
	72.70	80.20	7.50	0.16	0.05	0.26	1.95
	87.20	89.40	2.20	0.11	0.06	0.22	0.48
RG96-03	20.10	45.20	25.10	0.33	0.08	0.48	12.05
	66.20	84.20	18.00	0.21	0.04	0.29	5.22
RG96-04	10.00	17.50	7.50	0.70	0.33	1.30	9.75
	29.50	32.30	2.80	0.01	0.28	0.51	1.43
	65.60	90.00	24.40	0.09	0.08	0.24	5.86
SH80-01	1.00	4.00	3.00	0.00	0.20	0.36	1.08
SH80-02	112.00	116.00	4.00	1.27	0.18	1.59	6.36
SH80-03	72.00	80.00	8.00	0.65	0.26	1.11	8.88
SH90-04	5.20	10.00	4.80	0.33	0.08	0.47	2.26
	20.00	22.00	2.00	0.11	0.06	0.22	0.44
	74.00	84.00	10.00	0.13	0.09	0.28	2.80
	94.00	100.00	6.00	0.15	0.08	0.30	1.80
	106.00	108.00	2.00	0.06	0.08	0.20	0.40
SH90-05	12.00	14.00	2.00	0.07	0.11	0.27	0.54
	28.00	36.00	8.00	0.06	0.07	0.20	1.60
	110.00	123.70	13.70	0.32	0.21	0.69	9.45
SH90-06	12.00	18.00	6.00	0.02	0.13	0.26	1.56
	52.00	60.00	8.00	0.09	0.11	0.29	2.32
	74.00	84.00	10.00	0.04	0.10	0.23	2.30
	90.00	98.00	8.00	0.04	0.10	0.23	1.84
	112.00	120.00	8.00	0.32	0.15	0.59	4.72
SH90-07	53.00	63.00	10.00	0.13	0.04	0.20	2.00
SH90-08	10.00	12.00	2.00	0.17	0.09	0.34	0.68
	20.00	22.00	2.00	0.13	0.13	0.36	0.72

	34.00	40.00	6.00	0.17	0.10	0.36	2.16
	48.00	66.00	18.00	0.32	0.09	0.48	8.64
SH91-09	11.00	13.00	2.00	0.13	0.05	0.22	0.44
	60.00	62.00	2.00	0.26	0.01	0.27	0.54
	78.00	80.00	2.00	0.12	0.07	0.24	0.48
	90.00	101.00	11.00	0.09	0.12	0.31	3.41
SH91-10	37.00	39.00	2.00	0.06	0.11	0.26	0.52
	75.00	83.00	8.00	0.12	0.08	0.26	2.08
	129.00	131.00	2.00	0.11	0.06	0.22	0.44
SH91-11	72.00	75.00	3.00	0.75	0.01	0.76	2.28
SH91-13	71.00	101.00	30.00	0.28	0.02	0.31	9.30
SH91-17	100.00	112.00	12.00	0.76	0.11	0.96	11.52
SH91-18	17.20	19.20	2.00	0.12	0.06	0.23	0.46
	31.20	37.70	6.50	0.06	0.17	0.36	2.34
	60.00	62.00	2.00	1.56	0.01	1.59	3.18
SH91-19	18.00	21.00	3.00	0.18	0.07	0.31	0.93
	33.00	54.00	21.00	0.39	0.04	0.47	9.87
	78.00	81.00	3.00	0.15	0.05	0.23	0.69
	87.00	90.00	3.00	0.15	0.04	0.22	0.66
	99.00	102.00	3.00	0.17	0.07	0.30	0.90
SH91-20	27.00	30.00	3.00	0.20	0.01	0.23	0.69
	42.00	45.00	3.00	1.54	0.04	1.61	4.83
	51.00	57.00	6.00	0.26	0.02	0.30	1.80
	69.00	72.00	3.00	0.31	0.06	0.41	1.23
	81.00	96.00	15.00	0.82	0.17	1.12	16.80
	111.00	117.00	6.00	0.18	0.07	0.32	1.92
	126.00	129.00	3.00	0.25	0.02	0.30	0.90
	147.00	158.50	11.50	0.23	0.08	0.38	4.37
SH07-01	3.00	6.00	3.00	0.17	0.15	0.45	1.35
	12.00	36.20	24.20	0.37	0.06	0.47	11.37
	48.00	54.00	6.00	0.49	0.09	0.65	3.90
	62.00	69.00	7.00	0.55	0.49	1.44	10.08
	98.00	114.00	16.00	0.22	0.04	0.30	4.80
	119.65	131.00	11.35	0.23	0.07	0.35	3.97
SH07-02	15.00	18.00	3.00	0.00	0.43	0.79	2.37
	58.00	73.20	15.20	0.09	0.28	0.59	8.97
	89.00	141.00	52.00	0.38	0.09	0.54	28.08
SH07-03	3.90	12.00	8.10	2.07	2.87	7.26	58.81
	29.00	57.50	28.50	0.99	0.36	1.64	46.74
	89.00	97.00	9.90	1.54	0.61	2.64	26.14
	126.00	150.80	24.80	0.13	0.19	0.48	11.90
SH07-04	42.00	44.00	2.00	0.04	0.90	1.67	3.34

	61.20	64.00	2.80	0.43	0.25	0.88	2.46
	90.00	93.00	3.00	0.01	0.41	0.75	2.25
	102.00	104.30	2.30	0.11	0.08	0.26	0.60
	124.00	127.00	3.00	0.12	0.07	0.24	0.72
	137.00	139.00	2.00	1.62	0.01	1.64	3.28
	178.50	195.00	16.50	0.15	0.09	0.31	5.12
	222.00	225.00	3.00	0.38	0.01	0.40	1.20
	248.00	251.00	3.00	0.05	0.09	0.22	0.66
	263.80	277.70	13.90	0.17	0.06	0.27	3.75
SH07-05	19.50	21.50	2.00	0.07	0.15	0.33	0.66
	31.00	32.90	1.90	0.03	0.96	1.77	3.36
	77.00	80.00	3.00	0.46	0.01	0.48	1.44
	109.30	112.20	2.90	0.21	0.15	0.48	1.39
	123.90	130.00	6.10	0.06	0.24	0.49	2.99
	137.50	140.20	2.70	0.12	0.07	0.24	0.65
SH07-06	3.00	5.20	2.20	0.11	0.15	0.39	0.86
	11.00	14.00	3.00	0.44	0.01	0.46	1.38
	36.00	53.00	17.00	0.07	0.19	0.42	7.14
	66.00	75.00	9.00	0.04	0.06	0.15	1.35
	89.00	92.00	3.00	1.54	0.01	1.57	4.71
	109.50	115.50	6.00	0.44	0.02	0.48	2.88
SH07-07	18.60	39.00	20.40	0.07	0.18	0.40	8.16
	61.30	78.20	16.90	0.08	0.16	0.37	6.25
	95.00	116.00	21.00	0.43	0.16	0.72	15.12
	121.20	122.70	1.50	0.32	0.11	0.52	0.78
SH07-08	17.90	20.70	2.80	0.03	0.92	1.69	4.73
	63.00	65.50	2.50	0.01	0.41	0.75	1.88
	109.60	112.00	2.40	0.45	0.01	0.47	1.13
	159.00	162.00	3.00	0.46	0.01	0.47	1.41
	207.00	210.00	3.00	0.04	0.97	1.80	5.40
	249.00	252.00	3.00	1.55	0.01	1.58	4.74
	298.50	301.70	3.20	0.44	0.01	0.46	1.47
	341.00	344.00	3.00	0.03	0.91	1.69	5.07
SH07-09	45.00	47.00	2.00	0.01	0.42	0.78	1.56
	84.00	87.00	3.00	2.18	0.01	2.20	6.60
	109.00	111.60	2.60	0.13	0.07	0.25	0.65
	122.00	124.50	2.50	0.01	0.45	0.82	2.05
	171.00	173.40	2.40	1.62	0.01	1.64	3.94
	213.00	214.80	1.80	0.04	0.85	1.58	2.84
	254.45	257.00	2.55	0.45	0.01	0.46	1.17
	298.00	301.00	3.00	0.03	0.95	1.75	5.25

	322.00	334.00	12.00	0.47	0.08	0.61	7.32
SH07-10	6.00	8.60	2.60	0.60	0.00	0.60	1.56
	31.00	32.60	1.60	0.14	0.08	0.29	0.46
	40.80	43.20	2.40	1.72	0.01	1.74	4.18
	54.00	58.00	4.00	0.10	0.14	0.36	1.44
	74.00	75.20	1.20	0.10	0.38	0.78	0.94
	80.56	82.79	2.23	0.04	0.91	1.70	3.79
	110.30	119.00	8.70	0.20	0.03	0.26	2.26
	137.20	139.20	2.00	0.49	0.01	0.51	1.02
SH07-11	8.20	11.20	3.00	0.04	0.95	1.76	5.28
	22.70	26.50	3.80	0.11	0.08	0.25	0.95
	39.00	45.00	6.00	0.87	0.02	0.90	5.40
	108.00	111.00	3.00	0.47	0.01	0.48	1.44
	139.00	152.30	13.30	0.11	0.13	0.35	4.66
	163.00	169.00	6.00	0.17	0.06	0.27	1.62
	175.80	178.50	2.70	0.16	0.08	0.31	0.84
	184.00	186.00	2.00	0.44	0.01	0.45	0.90
	204.00	209.00	5.00	0.18	0.16	0.47	2.35
	222.00	238.00	16.00	0.09	0.13	0.31	4.96
	261.00	264.00	3.00	1.54	0.01	1.56	4.68
	291.76	294.80	3.04	0.10	0.09	0.25	0.76

Table 10-2. RedGold Au and Cu Composite Grades from Assessment Reports, Historical Drilling.

10.3 2012 Drilling

10.3.1 Drilling - Scope and Method

The objective of the 2012 drill program was to follow-up mineralized intersections from historical drilling, carried out in 2012 by Gold Fields, and to test new targets generated from the 2012 mapping and sampling program as well as the 2012 3D IP survey. All coordinates are reported in UTM NAD83 Zone 10 projection and all measurements are reported in metres unless otherwise stated.

R.J. Beaupre Drilling Ltd. of Princeton, British Columbia, was contracted to drill NQ sized core using a skid mounted Longyear 38 Super diamond drill. A total of 1767.52 metres were drilled in seven holes from November 9, 2012 to December 2, 2012. The 2012 drill hole locations (NAD83 Zone 10) are summarized in Table 10-3. A plan map showing 2012 drill collar locations relative to historic drilling is presented in Figure 10-1.

Hole ID	UTM Easting	UTM Northing	Elevation (m)	Azimuth (°)	Dip (°)	Depth (m)
RG12-08	604386	5813584	987	115	-60	303.28
RG12-09	604603	5813545	964	115	-55	291.08
RG12-10	604490	5813559	980	115	-55	202.69
RG12-11	604535	5813762	957	115	-50	213.66
RG12-12	604129	5813402	985	115	-50	184.4
RG12-13	603406	5812953	953	330	-55	281.33
RG12-14	603564	5813298	977	190	-50	291.08

Table 10-3. RedGold 2012 Collar Data.

All core logging, cutting and storage was completed at the core processing facility in Horsefly, BC. All logging was completed by Jennifer Vautour and Tim Stubley of Gold Fields. Core geo-teching and core-cutting was completed by Bonnie Gardner of Gold Fields, and Darcy Jackson, John McLeod, Victor Gendron, Codee Bowe, Monique King of Mincord Exploration Consultants Ltd. of Vancouver, BC. The program was supervised by Twila Skinner of Gold Fields. All data collected during this program can be found in the 2012 geological logs (Appendix 09). Visual representations of the 2012 geologic logs can be found in Appendix 10.

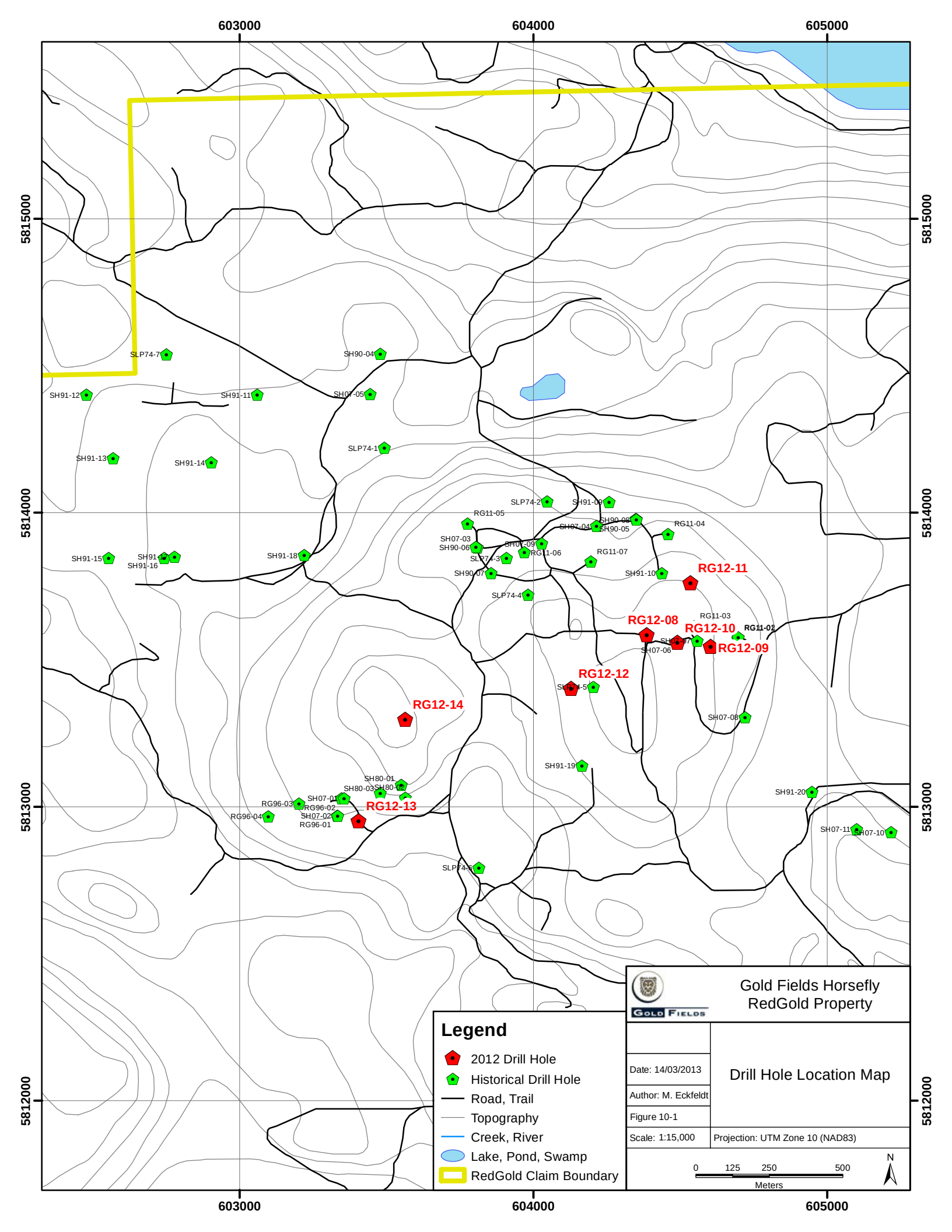
10.3.2 Drilling - Downhole Survey 2012

2012 drill collars were initially sighted using a handheld GPS and a Suunto compass. Final collar locations, with the exception of RG12-13 which was surveyed using a Garmin 60CSx GPS, were surveyed with a Trimble Pro XT GPS receiver and Trimble Nomad handheld computer using ArcPad 10 and GPS Correct extension software.

The Collar coordinates were post-corrected using the BC government Williams Lake Airport base station data, and using ArcMap software with the Trimble GPS Analyst extension. The horizontal accuracy is reported to be between 0.51 and 6.57 metres (averaging 2.57 metres). The corrected coordinates, with the exception of RG12-13, are presented in Table 10-3. Coordinates are rounded to the nearest metre.

Drill access trails were surveyed using a handheld Garmin GPS unit (GPSMAP 60CSx).

Down hole orientations were measured using a Reflex EZ-Shot, a single shot magnetic survey instrument. Readings were recorded at ~60 metre intervals, with additional readings at the bottom of each hole. Magnetic declination corrections for azimuth were made post survey.


603000
604000
605000
5815000
5814000
5813000
5812000
SLP74-7
SH90-04
SH91-12
SH91-11
SH07-05
SLP74-1
SH91-13
SH91-14
SLP74-2
SH91-09
RG11-05
SH90-08
SH07-04
SH90-05
RG11-04
SH07-03
SH90-06
SH07-09
RG11-06
RG11-07
SH91-15
SH91-17
SH91-16
SH91-18
SLP74-3
SH90-07
SH91-10
RG12-11
SLP74-4
RG11-03
RG12-08
RG12-10
RG11-02
SH07-07
SH07-06
RG12-09
RG12-12
SLP74-5
RG12-14
SH07-08
SH91-19
SH80-01
SH80-03
SH80-02
SH91-20
RG96-03
SH07-01
RG96-02
RG12-13
RG96-04
SH07-02
RG96-01
SH07-11
SH07-10
SLP74-6
Legend
2012 Drill Hole
Historical Drill Hole
Road, Trail
Topography
Creek, River
Lake, Pond, Swamp
RedGold Claim Boundary
Gold Fields Horsefly
RedGold Property
Drill Hole Location Map
Date: 14/03/2013
Author: M. Eckfeldt
Figure 10-1
Scale: 1:15,000
Projection: UTM Zone 10 (NAD83)
0
125
250
500
Meters
N

10.2.1 SpecTERRA™ Analysis

During the 2012 drill program, a near-infrared mineral spectral-analysis protocol was integrated into the drill-core logging procedure. Drill core was routinely analysed using a SpecTERRA™ mineral analyzer fitted with a Si Detector and an InGaAs Detector. The SpecTERRA™ is a handheld portable spectrometer that is able to identify a range of minerals through simple interaction with a light source. The SpecTERRA™ analyzes light in the ultraviolet, visible and near infrared (UV/VIS/NIR) ranges, and is used to identify a range of mineral species such as sulphates, carbonates, and Al(OH) group minerals, such as clays. These analyses can aid in the identification of alteration mineral assemblages, and enable mapping of property-scale alteration zones. SpecTERRA™ analysis requires no sample preparation.

A single spectral analysis was taken for each assay sample. The logging geologist visually selected an area deemed representative of the overall sample, and marked the area with green crayon. Spectral analysis was performed on dry drill core using DARWin SP Data Analysis software package, which enabled each analysis to be linked to the corresponding assay sample number. After analysis, all data was synchronized with the corresponding geological log.

Identification of the mineral spectra was done manually by the logging geologist, with the aid of SpecMIN software. The wavelength, in nanometers, of the diagnostic absorption features were recorded in the geological log, together with the indicated mineral name. All SpecTERRA™ data collected during this program can be found in the geological logs (Appendix 10).

Property-scale interpretation of the spectra is ongoing.

10.3.3 Grade Composites

Gold (Au g/t), copper (Cu %), and g/t Au Equivalent composites were calculated from the 2012 drill program (Table 10-4). These composites are calculated using Gemcom GEMS, geological and mine planning software, with Au Equivalent composites calculated using a 0.25 g/t cut-off grade with no more than five metres internal allowable dilution. Gold and copper calculations are based on Gold Fields' internal projected prices where gold is US$ 1750.00/oz (US$ 56.2638/g) and copper is US$ 8500.00/t (US$ 0.0085/g). The Au Equivalent (Eq) equation is as follows:

2012 Prices:
Au = US$ 56.2638/g Cu = US$ 0.0085/g

Cu conversion factor:
1 g Cu = (US$ 0.0085/g Cu / US$ 56.2638/g Au) * 10,000 = 1.511

Au Equivalent equation:
Au Eq = Au_ppm + (Cu% * 1.511)

Hole ID	From (m)	To (m)	Interval (m)	Au (g/t)	Cu (%)	Au Equivalent (g/t)
RG12-08	21.00	24.20	3.20	0.631	0.219	0.962
	32.00	33.00	1.00	0.130	0.140	0.342
	40.00	43.14	3.14	0.162	0.166	0.413
	51.00	53.00	2.00	0.200	0.080	0.321
	65.00	68.48	3.48	0.182	0.090	0.318
	89.00	97.00	8.00	0.085	0.060	0.176
	142.60	144.00	1.40	1.910	1.040	3.481
	286.00	288.00	2.00	0.140	0.120	0.321
RG12-09	63.00	67.00	4.00	0.795	0.295	1.241
	96.00	102.19	6.19	0.062	0.118	0.241
	108.00	112.00	4.00	0.125	0.165	0.374
	120.00	122.00	2.00	0.140	0.110	0.306
	130.00	135.00	5.00	0.086	0.108	0.249
	145.00	147.00	2.00	0.140	0.300	0.593
	152.39	164.00	11.61	0.244	0.234	0.598
	172.00	180.00	8.00	0.475	0.325	0.966
	194.00	208.00	14.00	0.183	0.126	0.372
	240.00	248.00	8.00	0.108	0.095	0.251
	254.00	270.50	16.50	0.084	0.122	0.268
	276.79	278.00	1.21	0.070	0.120	0.251
RG12-10	10.00	12.00	2.00	0.390	0.180	0.662
	134.00	136.00	2.00	0.100	0.160	0.342
	174.00	192.56	18.56	0.172	0.156	0.409
RG12-11	9.14	13.00	3.86	0.198	0.141	0.411
	19.00	25.81	6.81	0.114	0.135	0.318
	38.00	189.94	151.94	0.237	0.208	0.551
	201.00	210.00	9.00	0.099	0.103	0.255
RG12-12	146.65	148.00	1.35	0.220	0.120	0.401
RG12-13	6.40	16.00	9.60	0.198	0.071	0.305
	24.00	25.00	1.00	0.360	0.030	0.405
	87.00	89.00	2.00	0.180	0.070	0.286
RG12-14	7.00	9.00	2.00	0.180	0.100	0.331
	97.00	99.00	2.00	0.310	0.060	0.401
	187.00	199.00	12.00	0.770	0.060	0.861

Table 10-4. RedGold Au and Cu Composite Grades, 2012 Drilling.

10.3.4 2012 RedGold Drilling and Hole Descriptions

The RedGold drill target area is a highly prospective area for alkalic porphyry deposits. The steeply west-southwest dipping volcanic stratigraphy is characterized by a series of alternating plagioclase-phyric to pyroxene-phyric, coherent and clastic facies interpreted as lavas and/or shallow intrusions associated with reworked monomictic and polymictic clastic facies. Local interbeds of andesitic to basaltic sandstone to siltstone are a minor constituent. These volcanics

have been intruded by later diorites, monzonites, and syenites. The syenites are thought to be the main mineralizing event in the area. The volcanic stratigraphy dips steeply to the west-southwest. Individual drill holes from the 2012 program are summarized below. **Note, the following reported interval widths are along the drill core lengths and may not represent true thickness.**

RG12-08 (November 09 – November 13, 2012)

Target:

This hole was designed to test the western extent and geometry of mineralization found at surface and in the syenite in RG11-02. The hole was based on the assumption that mineralization dips steeply to the northwest. The hole passed through what is considered a favorable magnetic high. RG12-08 originates in Au and Cu soil sample highs, and passes under Au and Cu rock sample anomalies.

Location:

RG12-08 is located in the East Zone and is 300 m west of RG11-02.

Lithology:

Overburden extends to 5.79 m followed by hornblende basalt to 9.00 m, and fine grained plagioclase andesite breccia to 13.92 m. The fine grained plagioclase andesite breccia is intruded by a syenite intrusive breccia that extends to 68.48 m. A unit of plagioclase-phyric diorite is found from 68.48 to 71.17 m. At this depth, a fine grained pyroxene andesite is intersected to 103.35 m. From 103.35 to EOH at 303.28 m, the lithology consists of fine-grained, plagioclase- phyric andesite and andesite breccias, and minor pyroxene- phyric andesite. These units are intruded by bodies of medium and coarse grained syenite that locally brecciate the andesite.

Alteration:

The alteration assemblage for RG12-08 is predominantly potassic, with the exception of two intervals of strong propylitic alteration that occur between 158.00 - 174.94 m, and between 179.35 - 196.33 m.

Mineralization:

Chalcopyrite mineralization typically occurs within and proximal to the syenite intrusions. Significant mineralization occurred between 127.47 to 149.37 m, where estimated chalcopyrite is 0.5 - 1.00%. From 171.94 - 179.35 m estimated chalcopyrite is 0.25%.

Significant Intersections: Refer to Table 10-4

Interpretation/Comments:

Significant mineralization was intersected within syenite bodies in this drill hole. This extends the region of inferred mineralization found in RG11-02 to the west.

RG12-09 (November 13 – November 16, 2012)

Target:

This hole is in a fence to test whether the ground magnetic low reflects syenite geometry.

Location:

This drill hole is located 100 m west of RG11-02.

Lithology:

After 9.14 m of overburden, the drill hole intersects a unit of fine grained plagioclase andesite to 76.21 m. At this depth, an interval of volcanic sandstone was encountered to 77.85 m. From this depth to the end of the hole at 291.08, the dominant lithology is a coarse pyroxene andesite breccia, with the exception of volcanic sandstone from 270.50 to 276.79 m.

Alteration:

The alteration assemblage from 9.14 m to the end of the hole is predominantly potassic, with the exception of two intervals with strong a strong propylitic overprint from 77.85 to 131.50 m and from 152.39 to 198.65 m.

Mineralization:

RG12-09 intersected significant chalcopyrite mineralization from 131.5 to 270.50 m. An estimated 0.5% chalcopyrite was encountered from 131.50 to 152.39 m, and an interval of estimated 0.25% chalcopyrite was encountered from 218.84 to 270.50 m. Trace chalcopyrite extends from this depth to the end of the hole.

Significant Intersections: Refer to Table 10-4

Interpretation/Comments:

This drill hole did not intersect the expected syenite body; however, significant mineralization was intersected. Although this drill hole was targeting a magnetic low, the dominant lithology (coarse pyroxene andesite breccia) was strongly to intensely magnetic throughout.

RG12-10 (November 16 – November 18, 2012)

Target:

RG12-10 was designed to follow up on significant mineralization found in RG12-08.

Location:

RG12-10 is located 150 m southeast of RG12-08 and 200 m due west of RG11-02.

Lithology:

RG12-10 was cased to a depth of 6.10 m, at which a unit of syenite intrusive breccia was encountered to 56.36 m. At this depth to 69.72 m, a unit of coarse pyroxene andesite breccia was encountered. From 69.72 m to 79.04 m, the drill hole intersected a hornblende andesite dyke. From 79.04 to 192.56 m, the dominant lithology is a fine grained plagioclase-phyric andesite breccia. This breccia is intruded by a coarse syenite breccia from 106.39 to 109.23 m and 179.40 to 192.51 m. The plagioclase breccia is also intruded by a hornblende andesite dyke from 115.87 to 119.26 m. From 192.56 m to the end of the hole at 202.69 m, an un-mineralized coarse plagioclase phyric andesite dyke was intersected.

Alteration:

From 6.10 m to the end of the hole, RG12-10 is characterized by predominantly potassic alteration with K-feldspar and abundant magnetite. The exception to this is two intervals of strong to intense propylitic alteration from 79.04 to 82.30 m and from 134.00 to 142.94 m.

Mineralization:

Trace chalcopyrite mineralization was intersected within the syenite intrusive breccia units from 6.10 to 56.36 m and from 142.94 to 146.65 m. An interval of an estimated 0.25% chalcopyrite mineralization was intersected in a syenite breccia from 179.40 to 192.56 m.

Significant Intersections: Refer to Table 10-4

Interpretation/Comments:

RG12-10 did not intersect the zone of inferred mineralization encountered in RG12-08.

RG12-11 (November 16 – November 18, 2012)

Target:

RG12-11 was designed to test the extent and geometry of mineralization and syenite in RG11-02. The hole is within the same IP intensity as the mineralization in RG11-02 and on the margins of a similar magnetic high as RG11-02. The hole was planned under the assumption that the syenite has a steep northwest dip.

Location:

RG12-11 is located 250 m northwest of RG11-02.

Lithology:

RG12-11 was cased to a depth of 9.14 m, were a coarse pyroxene andesite breccia was encountered. This is the dominant lithology to a depth of 127.74 m, with the exception of a volcanic sandstone interval from 25.81 to 32.70 m. From 127.74 m to the end of the hole, the dominant lithology is that of a medium grained syenite intrusive breccia. A plagioclase-phyric andesite dyke intrudes this breccia at three intervals: 127.74 to 132.10 m, 134.54 to 138.46 m and from 211.94 to 213.66 m.

Alteration:

From 9.14 m to 127.74 m, the hole is dominated by a strong to intense propylitic overprint with pervasive chlorite and patchy epidote. From 127.74 to the end of the hole at 213.66 m, the dominant alteration assemblage is potassic with blocky and flooded K-feldspar, magnetite and biotite.

Mineralization:

Trace chalcopyrite mineralization was encountered from the top of the hole at 9.14 to 56.37 m. Two intervals of significant mineralization with an estimated 0.25 - 0.50% chalcopyrite were intersected from 56.37 to 127.40 m. From 165.90 to 170.50 m an interval of significant mineralization with trace bornite and an estimated 0.50% chalcopyrite was intersected. Chalcopyrite mineralization falls to trace amounts from this depth to the end of the hole.

Significant Intersections: Refer to Table 10-4

Interpretation/Comments:

Significant mineralization was intersected within this drill hole, extending the zone of inferred mineralization to the northwest.

RG12-12 (November 21 – November 23, 2012)

Target:

RG12-12 is an exploration hole. The hole was drilled oblique to mapped diorite and minor syenite. The hole passed through small ground magnetic anomalies and towards high rock Au samples.

Location:

RG12-12 is located in the East Zone, 426 m south of RG11-07 and 315 m southwest of RG12-08.

Lithology:

Overburden was cased to 3.05 m, followed by coarse-grained pyroxene- phyric andesite breccia and minor bedded sandstone to 58.60 m. This unit is intruded by medium–grained plagioclase

phyric diorite that extends to 78.20 m, followed by coarse-grained pyroxene- phyric andesite breccia to 115.57 m. Between 115.57 m and 146.65 m, normally graded thin beds of fine to medium–grained plagioclase-phyric andesitic volcaniclastic to coherent medium–grained plagioclase-phyric andesite occur. These beds overlie a strongly epidote altered breccia apparently composed of fine- grained plagioclase- phyric andesite and fine- grained pyroxene-phyric andesite that extends to 169.16 m, and an unaltered fine- grained pyroxene-phyric andesite breccia that extends from 169.16 m to the end of the hole at 184.40 m.

Alteration:

The dominant alteration assemblage in RG12-12 is an epidote, chlorite, carbonate, pyrite overprint that is moderately pervasive throughout. Epidote, carbonate, pyrite, garnet, silica alteration occurs between 115.57 m and 146.65 m. Between 146.65 and 169.16 m, epidote, carbonate, and zeolite form patches in which the original texture is totally obscured.

Mineralization:

Trace chalcopyrite mineralization occurs throughout RG12-12 (except within the fine- grained pyroxene-phyric andesite breccia unit between 169.16 and 184.40 m), and may be locally associated with intense epidote, carbonate, and zeolite alteration. Thin K-feldspar or syenite dykelets that occur above and below the medium–grained plagioclase phyric diorite intrusion may contain weak chalcopyrite mineralization.

Significant Intersections: Refer to Table 10-4

Interpretation/Comments:

Significant visible mineralization was not intersected. The medium–grained plagioclase phyric diorite can be directly correlated with mapped outcrops.

RG12-13 (November 23 – November 29, 2012)

Target:

RG12-13 was designed to test for an alternative orientation to the mineralization found at surface and in historical drilling in the Quarry Zone.

Location:

RG12-13 is located in the Quarry Zone 100 m southeast of SH07-01.

Lithology:

Overburden extends to 6.40 m. Fine- grained monzonite/diorite wasintersected to 26.7 m where a gradational contact leads into medium-grained equigranular monzonite. This unit contains xenoliths of fine- grained pyroxene-phyric andesite, common inclusions of coarse grained syenite, and extends to 115.34 m. A massive quartz-syenite dyke sharply cuts the monzonite from 115.34 to 120 m. Medium-grained monzonite extends from 120 to 226.26 m, cut by several <7 m thick dykes of coarse-grained syenite. A thicker body of coarse-grained syenite with a sharp upper contact at 226.26 m extends to 252.43 m, where it appears to transition through a mixed unit of plagioclase and K-feldspar-phyric monzonite or monzosyenite that extends to 266.25 m and contains inclusions of medium-grained monzonite (interpreted as xenoliths). medium-grained monzonite occurs to EOH at 281.33 m. All units are cut by common <3 cm Kspar/syenite veins or dykes.

Alteration:

Weakly pervasive to patchy strong potassic alteration occurs throughout the hole, typically expressed as fine- grained biotite and magnetite replacement of mafics. All lithologies

encountered contain abundant primary (?) K-feldspar, but monzonite units appear to be more strongly altered proximal to syenite bodies. Weak carbonate overprinting and vein envelope alteration is common throughout.

Mineralization:

Chalcopyrite mineralization is weakly disseminated throughout RG12-13. However, appears strongest within and at the margins of syenite dykes where blebs <4mm occur. Traces of bornite occur locally as thin (<2cm) K-feldspar, chalcopyrite veins that occur in all units. Rare thin chalcopyrite, bornite stringers may be associated with syenite-monzonite contacts.

Significant Intersections: Refer to Table 10-4

Interpretation/Comments:

RG12-13 appears to have intersected the main body of syenite that outcrops in the Quarry Zone, however visible mineralization is very weak.

RG12-14 (November 29 – December 02, 2012)

Target:

RG12-14 is an exploration hole that drills through the margins of a magnetic high. It is designed to test for mineralization in, and geometry of, the intrusive units immediately surrounding the Quarry Zone syenite outcrop. The Collar is proximal to anomalous Au and Cu rock samples.

Location:

RG12-14 is located in the Quarry Zone, ~500 m northwest of RG12-13.

Lithology:

Overburden extended to 3.66 m. Coring started in fine-grained diorite, followed by medium-grained diorite. The diorite is cut locally by a < 20cm syenite dyke to 17.05 m, where medium-grained monzonite intrudes. Medium-grained monzonite extends to 57.16 m and is cut by two <2.5 m dykes of medium- grained to massive syenite, one of which has an associated jigsaw-fit to clast-rotated breccia at its lower contact. This monzonite unit is intruded at 57.16 m by a thick body of coarse-grained K-feldspar-phyric syenite that extends to 129.73 m, and is followed by a plagioclase and K-feldspar phyric monzonite or monzosyenite that extends to 129.73 m. coarse-grained-syenite and plagioclase and K-feldspar phyric monzonite then thickly interfinger to the end of the hole at 291.08 m.

Alteration:

Syenite units are largely unaltered though are strongly potassic in nature. Chlorite and carbonate commonly replace hornblende crystals in these units. Monzonite and diorite units intersected in RG12-14 are weakly to strongly altered by patchy K-feldspar flooding (especially proximal to syenite dykes and veinlets), and pervasive fine- grained biotite and magnetite that partially replace mafics.

Mineralization:

Chalcopyrite mineralization, though sparse, is consistent throughout RG12-14 to ~215 m. It is consistently weakly disseminated in the groundmass of all units and commonly replaces mafics. Chalcopyrite stringers occur very rarely. Trace bornite is intergrown with chalcopyrite between 3.66 and 22.68 m. Below ~215 m visible chalcopyrite drops off to rare traces.

Significant Intersections: Refer to Table 10-4

Interpretation/Comments:

Significant visible mineralization is not intersected within the hole, however weak Cu mineralization is consistent in the top 200 m of RG12-14. Intergrown chalcopyrite+bornite found at top of hole may be correlative with nearby anomalous surface sample Au and Cu values.

11.0 SAMPLING METHOD AND APPROACH

The sampling methods and approach discussed below refer only to the 2012 exploration program. The procedures followed during the 2012 exploration program are in compliance with National Instrument 43-101 accepted protocols and have been carried out and/or supervised by the Author with the exception of the drill core sampling. During the drilling program, the author was not onsite, at which point the drilling and drill core sampling procedures were supervised by Twila Skinner.

Sampling methods carried out by Gold Fields and their contractors are detailed below.

11.1 Soil and Charcoal Sampling

Soil samples were collected by Durfeld Geological Management Ltd. personnel contracted to Gold Fields. Collected samples were placed in Kraft bags after material other than the Ah soil Horizon or charcoal was removed by hand. Descriptions of the soil grain size, color, depth and horizon, as well topographic features, moisture, and possible sources of contamination were collected using Panasonic Toughbook CF-U1 portable computers. Sample locations were determined using Bluetooth GPS units paired to the CF-U1 computers. Sample locations in the field were marked with the sample number written on ribbon tied to a tree. Samples were air-dried at the compound in Horsefly.

For all sample locations, the Ah soil horizon and charcoal fragments in the leaf-litter horizon were preferentially sampled because a study by Heberlein et. al. (2010) and Heberlein and Dunn (2011) showed that these two sample media were effective at detecting mineralization buried at depth.

A total of 318 Ah and 275 charcoal samples were sent for analysis at the ALS Laboratories Ltd. facility in North Vancouver, BC. The samples were dried in the 60°C laboratory oven and the Ah samples were dry-sieved to –180 micron before being analyzed for multi-elements using aqua regia digest with ICP-MS finish (ME-MS41). The charcoal sample were pulverized before being analyzed for multi-elements using aqua regia digest with ICP-MS finish (ME-MS41). Au was determined using the super trace level gold by solvent extraction with ICP-MS and ICP-AES finish (Au-ST43). QAQC samples include the addition of field duplicates, which were inserted every 25th sample.

11.2 Rock Sampling

A total 206 surface rock samples were collected by Matthew Eckfeldt and Tim Stubley of Gold Fields. Grab samples were collected from outcrop and placed in numbered plastic sample bags with like-numbered weather-proof sample tags inserted into the bags. Sample locations were noted Panasonic Toughbook CF-U1 portable computers and paired Bluetooth GPS units and sample sites were marked with ribbon as well as with a small metal tag inscribed with the sample number. Samples were shipped via VanKam freight from Williams Lake BC to ALS Laboratories Ltd. in North Vancouver. Of those 206 samples, 180 rock samples were shipped via VanKam freight from Williams Lake BC to ALS Laboratories Ltd. in North Vancouver for Aqua Regia digestion, multi-element ICP-MS analysis (ME-MS41), and gold determination by fire assay fusion analysis (AU-ICP21). The remaining 26 rock samples were sent to ALS Laboratories Ltd. for whole rock analysis for lithium metaborate fusion and multi-element XRF or ICP-AES and rare and trace element ICP-MS analysis (ME-MS81d). No QAQC sample checks

such as blanks, certified reference standards, field duplicates or umpire sampling were used for the rock samples.

11.3 Trench Sampling

In total 11 trenches totaling 357m length were constructed across the RedGold property including 4 in the East Zone, 2 in the North Zone and 3 in the Quarry Zone and 2 on geochemical anomalies. A John Deere 50D mini excavator, operated by Steve Lehman of Durfeld Geological, was used to construct the trenches. Sampling was completed by Twila Skinner of Gold Fields, Darcy Jackson of Mincord and Steve Lehman of Durfeld Geological. Rudi Durfeld, one of the property owners was also on site during portions of the trenching program.

Grab samples were collected across the trenches at varying intervals from 1-2 m. Samples intervals were determined by the presence of favorable geology and visible copper mineralization. A total of 134 samples were taken (Appendix 6).

11.4 Drill Core Sampling

Drill core was placed in clearly labelled core boxes at the drill by the drill helper. Depth blocks were inserted at the end of each run of core recovered from the ground by the driller. The driller kept track of the depth by counting the number of 10-foot rods that had been placed in the drill string. Core was transported on a per shift basis to the core logging facility in Horsefly. Once at the core logging facility, geotechnicians converted the depth blocks from feet to metres, recorded recovery, collected any other required geotechnical data, and labelled the box with a weather-proof metal tag.

The geologist logged the drill holes and determined the sampling intervals based on numerous parameters including lithology breaks, alteration, and percentage of mineralization. Each drill hole was sampled in its entirety due to the broad extent of mineralization. Sample intervals, on average, were of two metres. These intervals are considered representative and adequate, based on historic drilling and sampling. Intervals within a mineralized zone that contain significantly different mineralization intensities or types were sampled appropriately and were typically less than two metre sampling intervals. Samples do not cross lithological boundaries. All drill core was photographed in the core boxes prior to being split and sampled.

The core was then sent to the onsite cutting facility where it was cut in half using an electrical core saw by personnel from Mincord Exploration Consultants and Gold Fields. The half of the core that was sent for assay was put into numbered plastic sample bags with like-numbered weather-proof sample tags. Bags were tied with a plastic tie wrap and packaged into rice sacks with a randomly numbered security tag for shipment to ALS Laboratories Ltd. for gold determination by fire assay fusion analysis (AU-ICP21), multi-element by four acid "near-total" digestion ICP-MS analysis (ME-ICP61). A Cu overlimit was triggered at 0.1% Cu to run a four acid ore grade copper method (ME-OG61).

A corresponding numbered weather-proof sample tag was stapled into the core box for reference. The remaining half was left in the core box and stored onsite. QAQC samples include the addition of half-core field duplicates, which were inserted every 25th sample, as well as the addition of blanks and certified reference standards which were inserted (alternating) every ten samples. A total of 932 drill core samples and 36 half-core field duplicate samples were taken. In total, 54 standards and 54 blanks were inserted. In addition, Gold Fields ordered the creation and analysis of 40 pulp duplicate samples and 40 coarse duplicate samples to provide the quality control for the RedGold 2012 drill program drill core assays.

Care was taken to eliminate sampling biases that could impact the analytical results, including always having the same half of core returned to the core box, removing all jewellery prior to handling samples and keeping the work area clean during all aspects of logging and cutting. The Author is not aware of any factors that may have resulted in sample biases.

12.0 SAMPLE PREPARATION, ANALYSES AND SECURITY

All soil, charcoal, rock, and drill core samples were collected and delivered on a regular basis to the secure core facility in Horsefly. All sample handling was carried out and supervised by a Gold Fields designate. Batches of securely tied rice bags (using randomly numbered security tags) were shipped on a regular basis to ALS Laboratories Ltd. in North Vancouver BC. An ALS Laboratories Ltd. “Sample Submittal Form”, that includes a list of samples shipped, was inserted in the first bag of each sample type being shipped. The samples were transported to Williams Lake by Cariboo Truck Terminals Ltd., a carrier for VanKam Freightways (VanKam) or by Gold Fields personnel or designate to the Cariboo Truck Terminals office at 5101B Frizzi Rd Williams Lake, BC. VanKam then transported the samples to ALS Laboratories Ltd. in North Vancouver,

BC. ALS Laboratories Ltd. is an ISO 17025:2005 accredited lab and maintains an internal QAQC program. Preparation and analyses methods of samples sent to the lab are included in Appendix 11 and are summarized below in Table 13-1. ALS Laboratories Ltd. Analytical Method Specifications. Certified reference standards were obtained from Canadian Resource Labs of Langley BC. Assay certificates for all certified reference standards are presented in Appendix 12. Blanks, standards landscaping limestone, were purchased from local garden and landscaping stores.

It is the Author's opinion that the sampling procedures, security measures, sample preparations and analytical methods applied to all the samples were diligently followed and are adequate to meet industry standards commonly accepted for this level of exploration. The Author has relied upon the adequacy and accuracy of the analytical results and has not independently verified those results.

13.0 DATA VERIFICATION

The Author has relied upon the adequacy and accuracy of in-house QAQC reviews of all the analytical results and has not independently verified those results. Although the Author did not directly participate in the data verification program, the Author was aware of the process and the result of actions taken. The Author has read the information prepared below by the writer of this section, Julianne Madsen, and the Author believes the data verification program has met all National Instrument 43-101 compliant protocols.

It is the Author's opinion that the sampling procedures, security measures, sample preparations and analytical methods applied to all the samples were diligently followed and are adequate to meet industry standards commonly accepted for this level of exploration. The Author has relied upon the adequacy and accuracy of the analytical results and has not independently verified those results

13.1 2012 QAQC Procedures

Each assay batch was evaluated for quality control (QC) sample performance upon receipt of the csv datafile and certified certificate. The original certificate datafile was loaded directly into the Gold Field’s Maxwell DataShed database. Maxwell’s QAQCR reporting utility was used to assess the certificate in terms of QC sample performance for Au and Cu. QC samples were required to follow the Table of Logic found in Table 13-2. QC sample failures in unmineralized areas were accepted and no further follow up was required. In the event that a QC sample result fell outside of the expected range with a mineralized zone, the offending sample and 10-20% of the adjacent samples were sent for re-analysis to be done by the failing method.

Method Name*	Method Code	Procedure	Sample Type
Rock Preparation	PREP-31	Split off 250 g and pulverize split to better than 85% passing 75 microns	Core/Rock
Core preparation	PREP-31B	Split off 1kg and pulverize split to better than 85% passing 75 microns	Core Coarse Rejects
Soil Preparation	PREP-41	Sieve sample to -180 micron (80 mesh) Retain both fractions	Soil
Fire Assay Fusion	Au-ICP21	Au by fire assay with ICP-AES finish 30 g samples	Core/Rock
Screen Fire assay	Au-SCR21	Au by screen fire assay, 30g subsample of 1kg pulverized to 100 mesh	Core
Aqua Regia Au Digestion	Au-ST43	Super trace level Au assay by aqua regia digestion with ICP-MS (MARG) finish 25 g samples.	Soil, Charcoal
Four Acid Cu Digestion	Cu-OG62	Ore grade Cu assay by four acid "near-total" digestion with ICP-AES or AAS finish 0.01-50%	Core
Four Acid Multi-Element Digestion	ME-ICP61	Multi-element (33) assay by four acid "near-total" digestion with ICP-MS finish 1 g samples minimum	Core
Aqua Regia Multi-Element Digestion	ME-MS41	Ultra-trace level multi-element (51) assay by aqua regia digestion with ICP-MS and ICP-AES finish 1 g samples minimum	Rock/Soil/Charcoal
Whole Rock Package / Loss On Ignition	ME-MS81d (ME-ICP06 and ME-MS81)	Multi-element (38) lithium borate fusion with ICP-AES finish prior to four acid dissolution with ICP-MS finish for rare earth and trace elements 2 g samples minimum.	Pulps sent back for Whole Rock

*Detailed descriptions in Appendix 11

Table 13-1. ALS Laboratories Ltd. Analytical Method Specifications

QAQC CRITERIA
CRM's exceeding the mean ±3 SD are failures (accuracy).
Two adjacent QC samples that exceeding the mean ±2 SD are failures (bias). Note: the samples do not have to be the same QC sample type.
Field blanks that exceed the Warning Limit are failures (contamination).

Table 13-2.Table of QAQC Logic

Two custom-prepared 4acid digested copper-gold certified reference materials (CRMs) were used for the 2012 field season. These standards were prepared by by CDN Resource Laboratories, of Langley BC from coarse reject materials supplied by Gold Fields Horsefly Exploration, and were certified for use by Barry Smee of Smee and Associates. The expected values and standard deviations are in

Table 13-3. Table of Custom Certified Reference Materials and the certificates are attached in Appendix 12. Coarse field blank material for the 2012 season was landscaping limestone, purchased from local garden and landscaping stores. The field blank warning levels observed for 2012 are:

- 25 ppm Cu (following convention of 5x background average for the blank material),
- 0.01 ppm Au,
- 10 ppm Mo.

Standard ID	Expected Au (ppm)	StdDev Au (ppm)	Expected Cu (ppm)	StdDev Cu (ppm)	Cert Date
WJN-STD1	0.292	0.011	1900	70	May, 2012
WJN-STD2	0.685	0.023	2630	60	May, 2012

Table 13-3. Table of Custom Certified Reference Materials

The insertion rate of standards and field blanks is one in every ten samples, in an alternating pattern.

In addition to the field blanks, preparation blank samples "_PB" were inserted by the lab at the request by field staff via instructions on the submittal forms. These quartz flushes which are run through the pulverizer as specified by field staff on the submittal sheets and analyzed as a regular sample after suspected mineralized zones to check for crossover contamination.

Field duplicates are inserted at a 4% frequency. The second half of the core record is destroyed for this sample. This sample checks the cumulative error from the sampling, preparation, and analysis. These samples are given a unique sample ID number and inserted by the logging geologist. The other duplicates are inserted on a standing workorder template set up at ALS. The duplicates below are prepared automatically by the lab based on percentage of the batch. Coarse duplicates are prepared from a split of the coarse reject, which is pulverized to a new pulp and analyzed by the same methods as the original. They keep the same sample ID but add

a suffix _CD (for coarse duplicate). This are inserted at a 4% sample frequency and are used to check the preparation and analytical error. Pulp duplicates are inserted at 5% sample frequency to check analytical error. ALS digests and analyzes a second pulp split of the same original pulp, this is done by the same methods and results are reported with the same original sample ID, with a suffix of _PD (for pulp duplicate). An additional 2.5% of pulp duplicates are run by the lab in every batch as part of their internal quality control quality assurance (QAQC) program.

All duplicate analyses are reviewed individually for Au and Cu using Mean Percentage Difference (MPD) and Relative Standard Deviation (RSD). Samples with an MPD exceeding ± 20 % (vertical red lines) or an RSD of ± 30 % are reviewed with respect to adjacent samples to check for sample mix-ups. Mean percent difference is considered a good measure of precision and bias, and relative standard deviation is a good metric to compare results. Each of these methods is described below. The final outcome of the duplicate analysis uses the Thompson-Howarth to check the error from the three duplicates.

A reference value of ten times the method detection limit is used for evaluating results that should be reproducible.

Au,	Au-ICP-21,	LDL= 0.001	Reference Value = 0.1 ppm*
Cu,	ME-ICP61,	LDL = 1	Reference Value = 10 ppm
Cu,	Cu-OG62,	LDL= 0.001%	Reference Value = 100 ppm

*The lower detection limit for Au is 0.001 ppm thus a reference level of 0.01 ppm should be used; however, a considerable degree of fanning of the data is observed due to the strong affect of small differences on the percentage value below 0.1 ppm. This is not unexpected and does not affect the validity of the original certificate. Thus a reference value of 0.1 ppm is used to evaluate reproducible results (horizontal orange line).

Mean Percent Difference

$$\textit{Mean Percent Difference} = \frac{\textit{100.0 x (Original Value – Repeat Value)}}{\textit{(Repeat Value + Original Value)/2}}$$

Relative Standard Deviation

For each pair of duplicates, the mean and standard deviation are calculated, followed by the relative standard deviation. The average RSD can then be calculated for a population. In terms of relative standard deviation, acceptable values were < 20%. The 20-30 % range was deemed to require investigation and > 30 % RSD represents a failure. The RSD is determined as below:

$$\textit{RSD (\%)} = \frac{\textit{(Standard Deviation)*100}}{\textit{Mean}}$$

Drill core original lab certificates are located in Appendix 13

13.2 Drillhole Standard & Blank Performance

The standard and blanks performance for the 2012 RedGold drilling was acceptable. There were 8 CRM failures of the 124 blanks, prep blanks and standards implemented for a failure rate of 7.3%. Two Au failures were accepted as they were in unmineralized intervals, and two Cu standard fails were superseded by the ore grade Cu results and did not require follow-up. There was one blank fail for Cu which was accepted as a localized example, as nearby preparation blank quartz flushes did not have contamination. Two sets of Au checks was done, and one set of Cu ore grade checks was done. All fails for the 2012 drillhole program were documented in the Table of Failures (Table 13-4). In the plots for standard and blank performance the Instance on the X-Axis is sorted by 'date returned' for the workorder (Figure 13-1 to Figure 13-11).

13.2.1 Au Standard Performance - Drill Core

Below are standard performance charts for Au. In the cases where the standard performance results that were accepted into the final database compilation differ from the original results (ie after QC checks are accepted and merged into the data set), a before and after plot is shown to illustrate the differences.

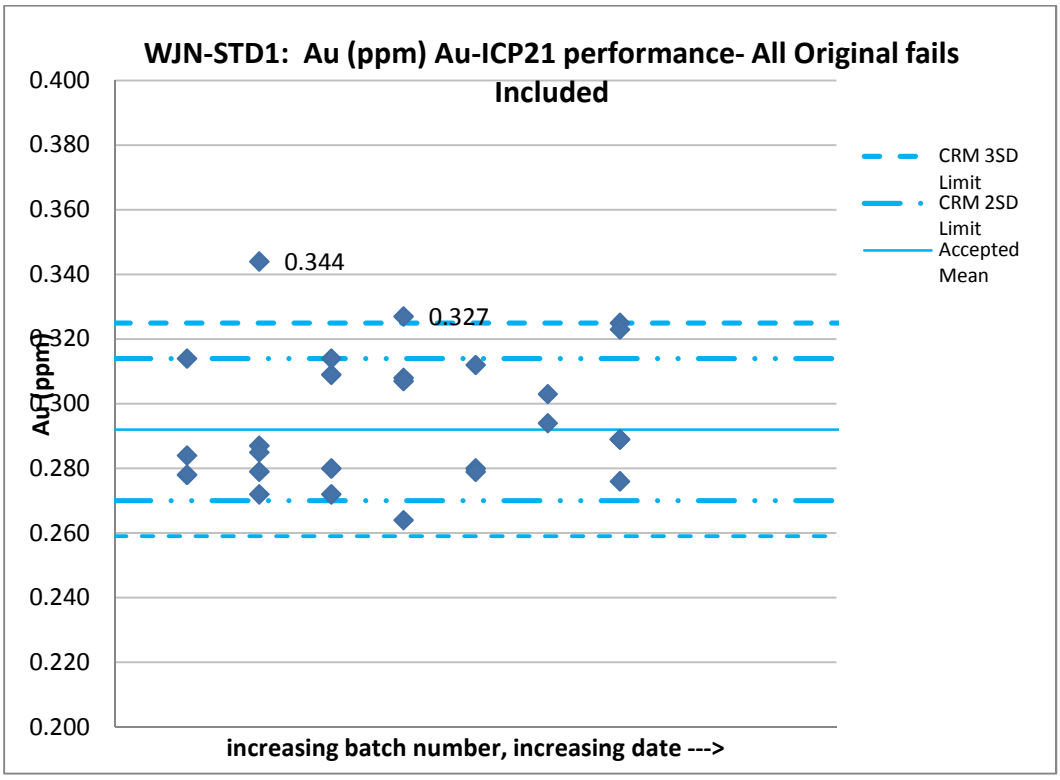


Figure 13-1. Before plot- WJN-STD1 performance for Au – Drill Core- All original fails. "Before" plot

Table 13-4 Table of fails- Red Gold Drilling

Hole ID	Standard ID	Batch No	Sample Id	Method	Element	Orig Value (ppm)	Date Rec'd	Date entered into DBS	Re-Analysis (ppm)	Re-analysis Batch No	Date Rec'd	Date entered into DBS	Comments	Action	Final Determination
RG12-08 (Au Cert)	WJN-STD1	VA12277388	P385120	FA_ICPAES	Au	0.344	13-Dec-12	14-Dec-12	0.298	VA12295093	22-Feb-13	22-Feb-13	Au upper fail, sent for Au checks between P385115-128	checks done	Accept QC certificate merged with original
RG12-09	WJN-STD1	VA13001830	P385240	FA_ICPAES	Au	0.325							at upper 3SD boundary, but acceptable, not a failure, but noted as a close-call	No checks required	Accept Original
RG12-10	WJN-STD2	VA12279959	P385500	4A_ICPES	Cu	2930	07-Dec-12	07-Dec-12					High Cu fail superseded by OG results. Nearby samples reporting similar to the OG results indicating that the other Cu reuslts are reasonable despite this fail	no checks required	Accept Original
RG12-11	WJN-STD2	VA12280021	P377540	4AOG_UN	Cu	2360	07-Dec-12	07-Dec-12	0.247 (pass)	VA12290061	03-Jan-13	03-Jan-13	Low 3SD OG fail- send back for OG Cu checks between P377540 and P377549	checks done	Merge QC cert with original
RG12-11	WJN-STD2	VA12280021	P377620	4A_ICPES	Cu	2820	07-Dec-12	07-Dec-12					superseded by OG Cu- no additional checks required	no checks required	Accept Original
RG12-11	FB	VA12280021	P377570	4A_ICPES	Cu	57	07-Dec-12	07-Dec-12					Field Blank with elevated Cu, noted. All prep blanks within appropriate ranges. Preceding sample was 5810 ppm Cu, equating to less than 1% carryover. In addition, the weight of the field blank sample was approximately half of the rpeceding sample, which magnifies the carryover	no follow-up required.	Accept
RG12-12	WJN-STD2	VA12277381	P377660	FA_ICPAES	Au	0.768	07-Dec-12	07-Dec-12	0.648	VA12277387 (1kg prep cert)			Au fail in unmineralized area, no follow-up required- Fail result superseded by new Au certificate using 1kg prep and same FA method	no checks required	Accept Original
RG12-12	WJN-STD2	VA12277381	P377740	4A_ICPES	Cu	2390	07-Dec-12	07-Dec-12					Low Cu fail adjacent to one mineralized sample which has consistent results with the 4Acid method. Result superseded by OG Cu in Std and one nearby mineralized sample, and adjacent sample similar to the 4A results. Data are acceptable	no checks required	Accept Original
RG12-14	WJN-STD1	VA12285464	P377340	FA_ICPAES	Au	0.327	12-Dec-12	12-Dec-12					Au marginal upper fail- failed by 0.002, and zone barely mineralized. Two samples above 0.1ppm between the 2 blanks, and one had a PD and a CD and both comparable, so original fail acceptable.		Accept Orig

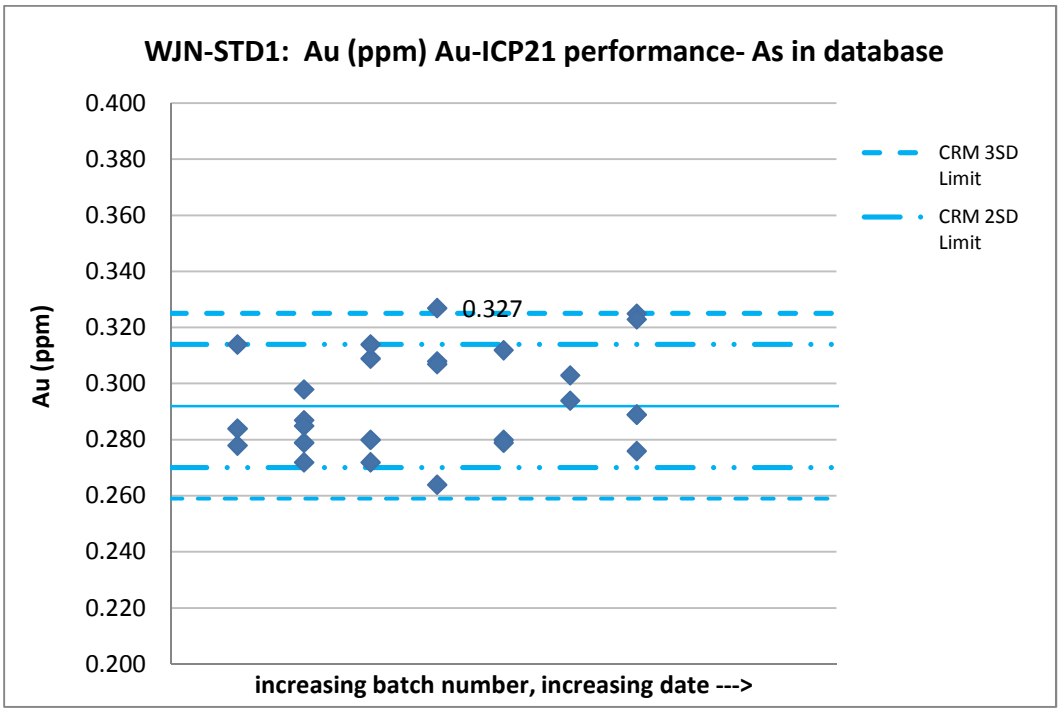


Figure 13-2. After Plot WJN-STD1 performance for Au – Drill Core- As in database. "After" plot

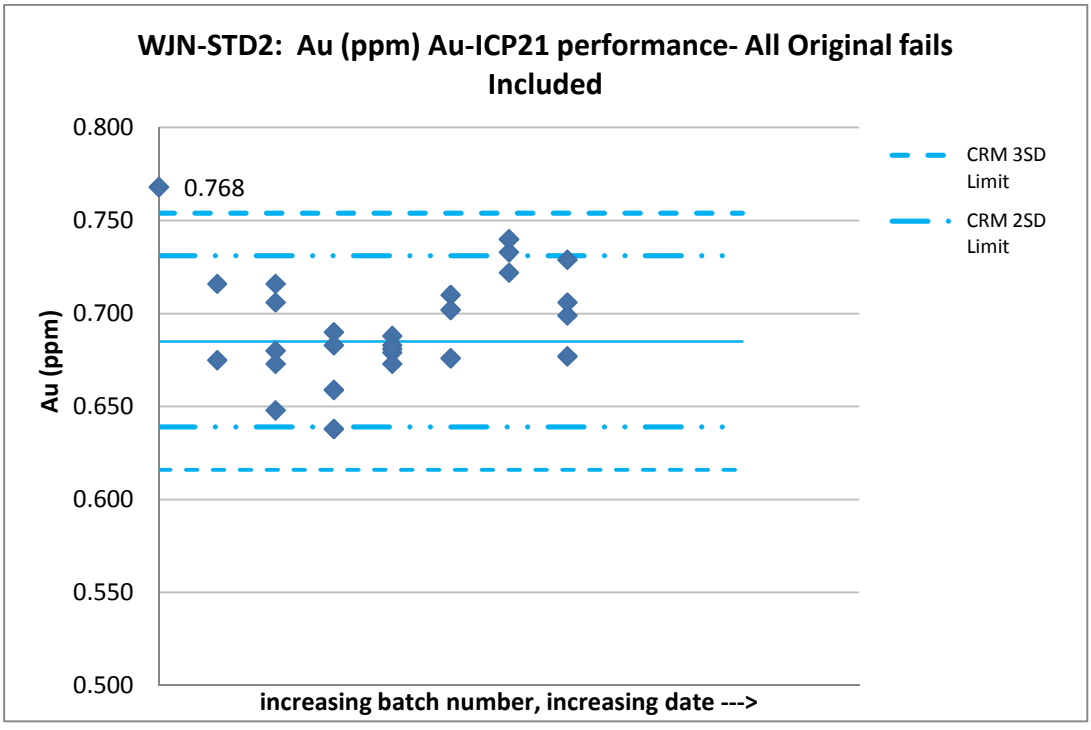


Figure 13-3. CDN-CM-8 performance for Au – Drill Core. "Before" plot

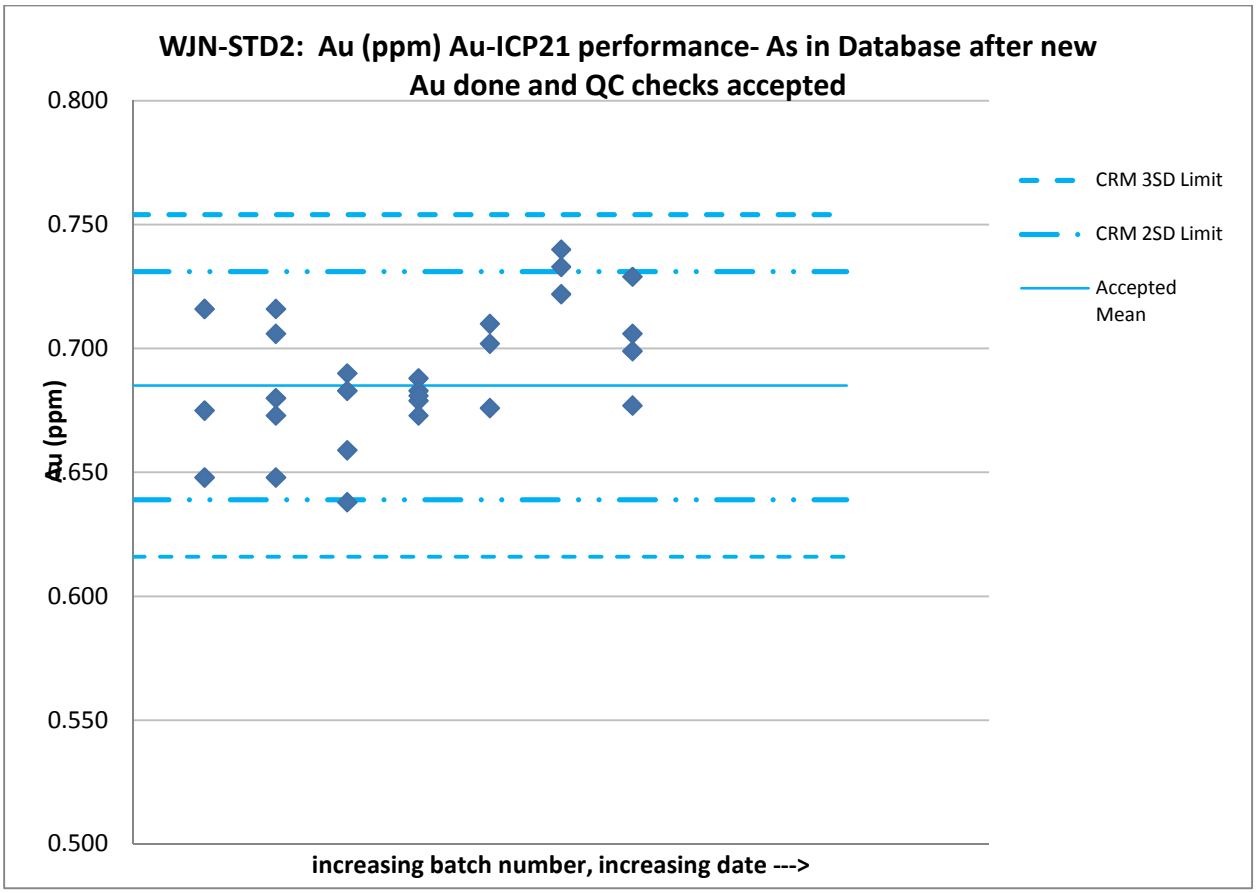


Figure 13-4. CDN-CM-12 performance for Au – Drill Core. "After" plot

13.2.2 Cu Standard Performance - Drill Core

Below are standard performance charts for Cu. In the cases where the standard performance results that were accepted into the final database compilation differ from the original results (ie after QC checks are accepted and merged into the data set), a before and after plot is shown to illustrate the differences.

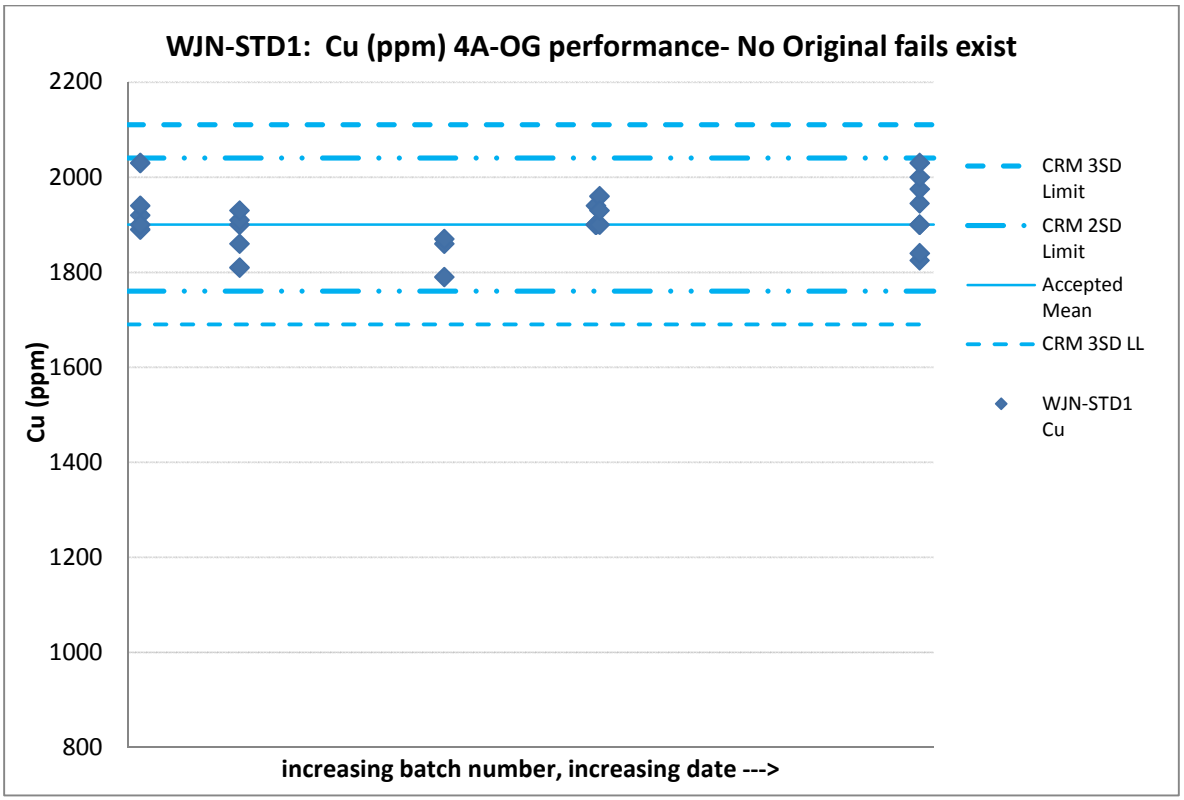


Figure 13-5. WJN-STD1 performance for Cu – Drill Core

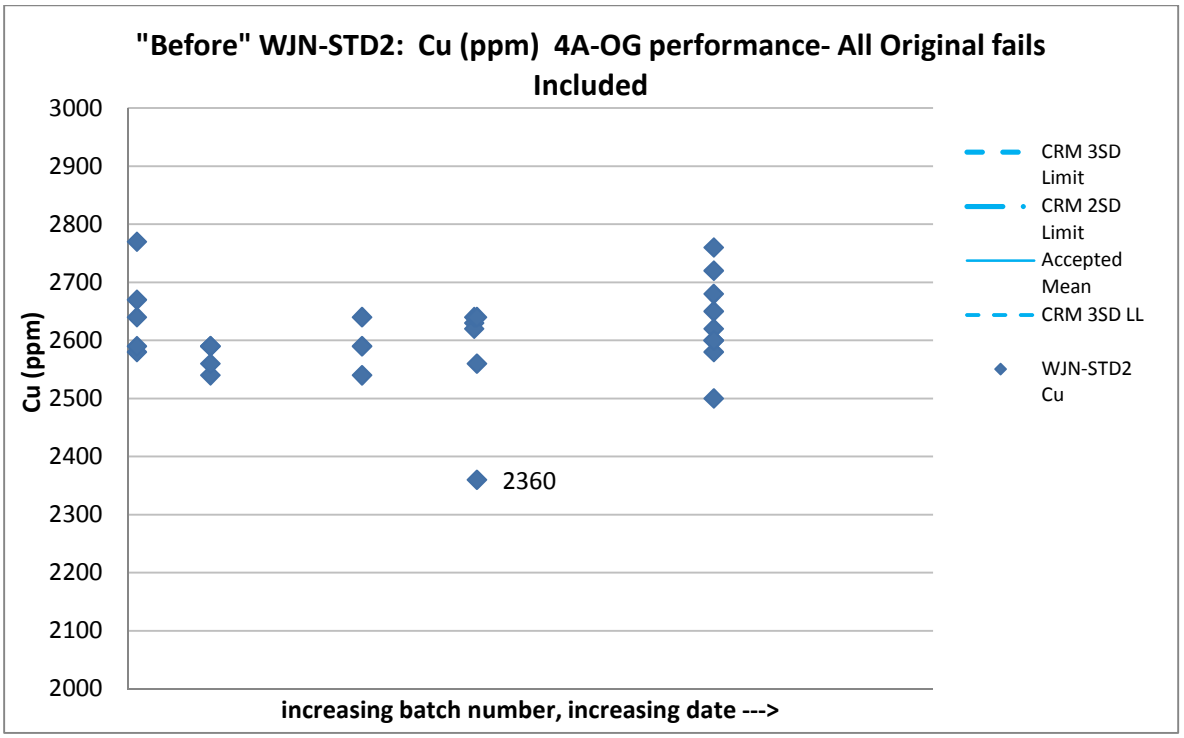


Figure 13-6. Before Plot- WJN-STD2 performance for Cu – Drill Core. "Before" plot

Figure 13-7. After Plot- WJN-STD2 performance for Cu – Drill Core. "After" plot

13.2.3 Field Blank Performance

One elevated field blank was noted for Au and one for Copper. The elevated Au was at the allowable limit of 10x the DL and was not a true fail. The elevated Cu was investigated and found to be allowable and attributed to minor carryover from the preceding 5810ppm Cu sample, within the 1% carryover limit allowed by the lab during the preparation phase. Field blank performances are shown in Figure 13-8 and Figure 13-9.

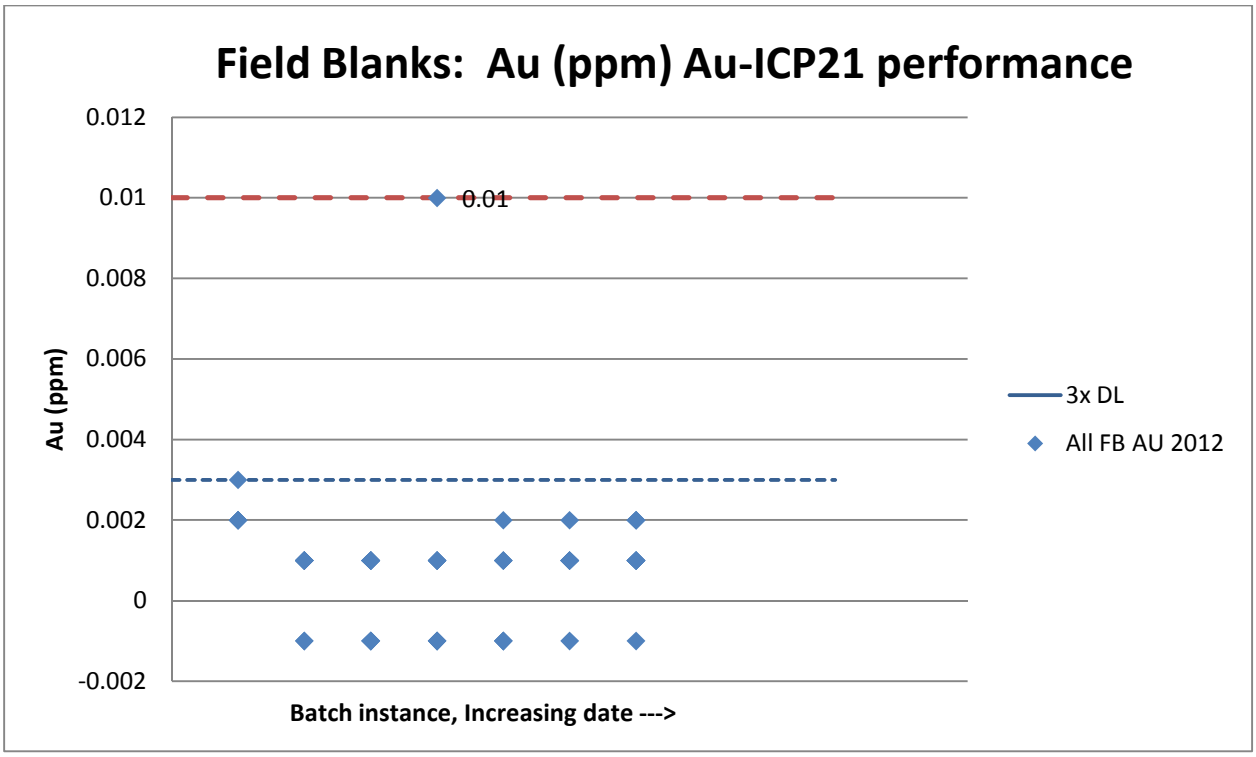


Figure 13-8. Field Blank performance for Au – Drill Core- acceptable within 10 x DL warning level and allowable carryover

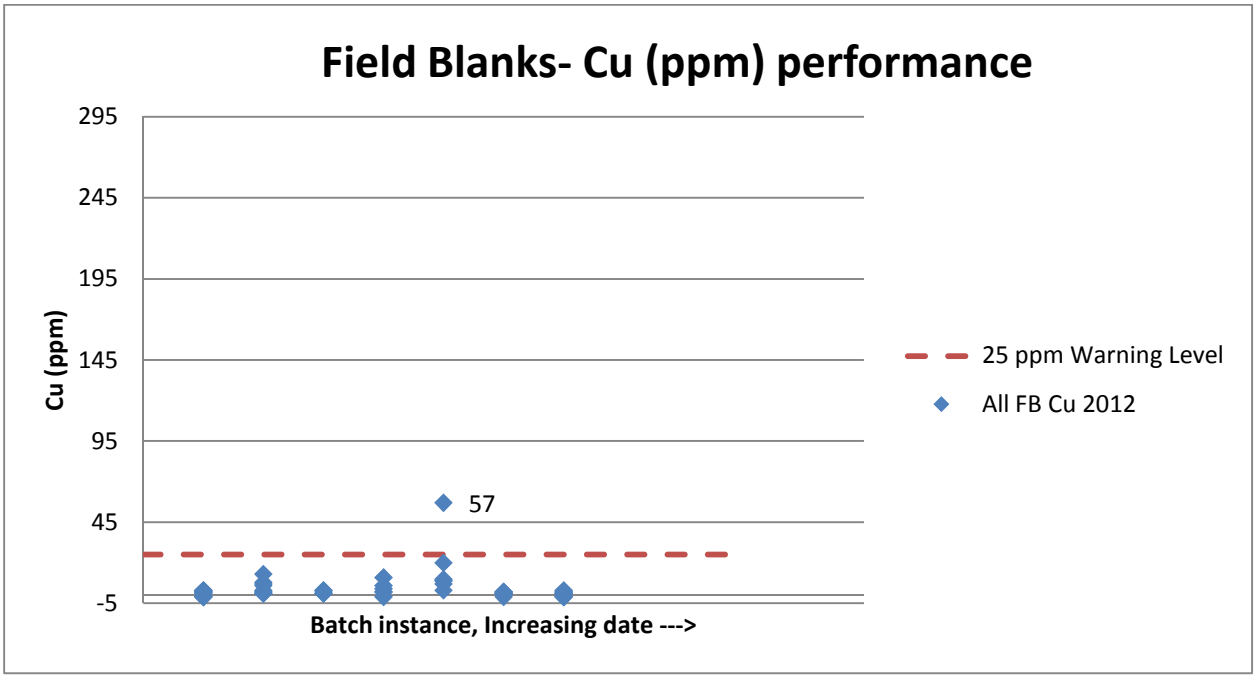


Figure 13-9. Field Blank performance for Cu – Drill Core, acceptable within 5 x background Cu warning level and allowable carryover

13.2.4 Preparation blank performance

Quartz flush “preparation blanks” (PB) were inserted into mineralized zones to help view the possible contamination between samples due to carryover in the pulverization stage. These quartz flush samples were inserted under the direction of field staff, and were denoted with a _PB suffix added to the preceding sample ID on the lab certificates, which would be the source of any noted contamination.

The preparation blank performance is acceptable.

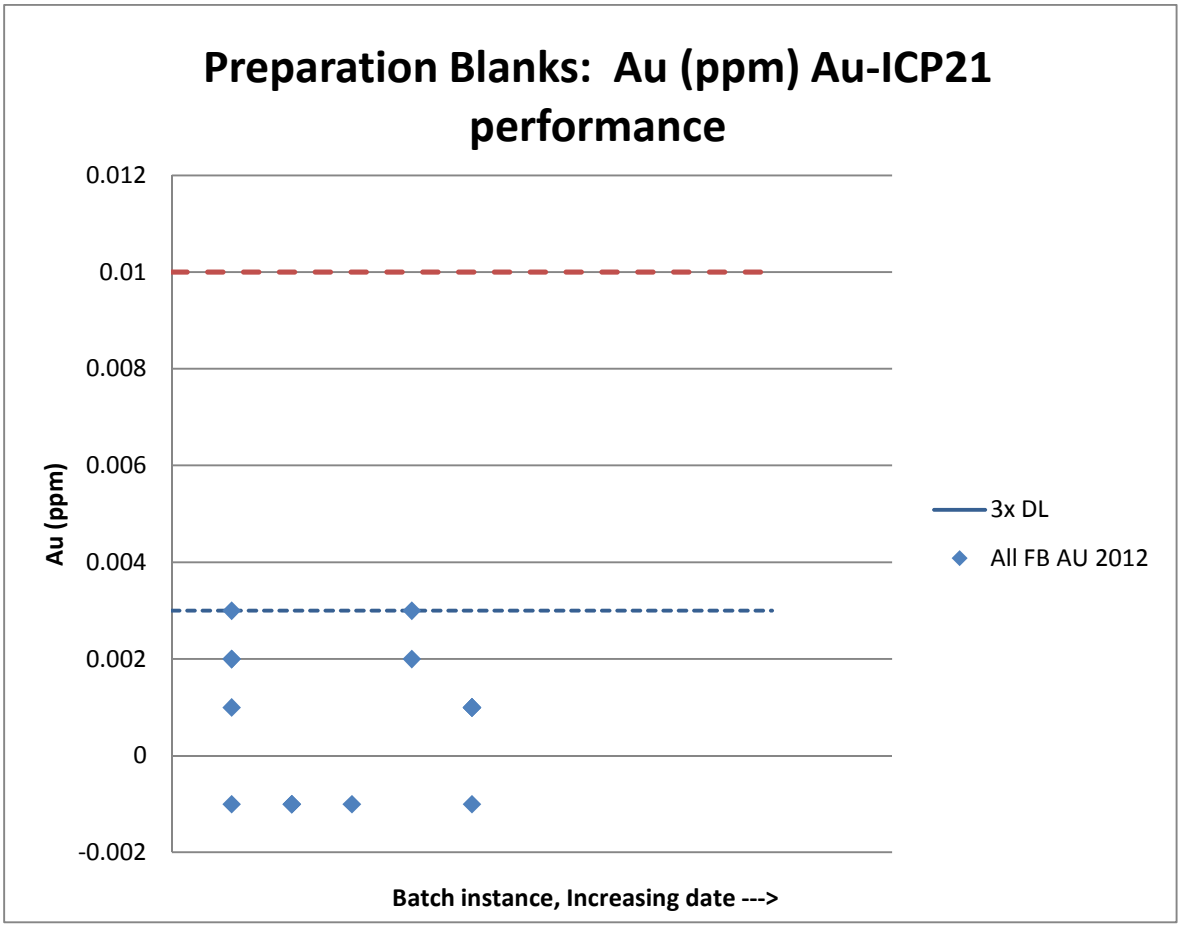


Figure 13-10. Preparation blank performance for Au- Acceptable within 10 x DL warning level and allowable carryover

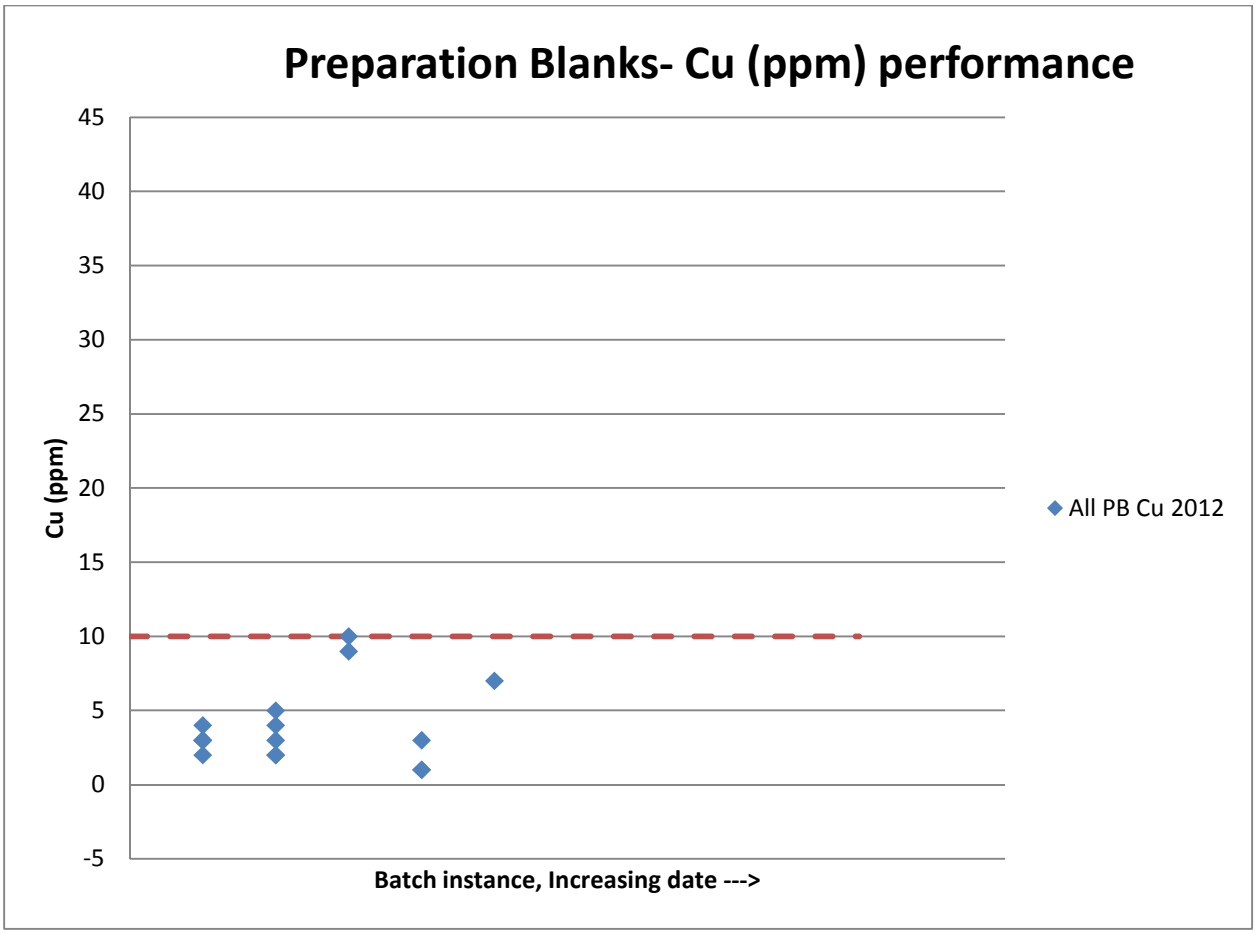


Figure 13-11. Preparation blank performance for Cu- Acceptable within 10 x DL warning level and allowable carryover

13.3 Drill Core Duplicates

A total of 116 duplicate samples were collected at Gold Field's request for the duplicate evaluation of the 2012 RedGold drilling program. This included 36 field duplicates (FD), 40 coarse duplicates (CD) and 40 pulp duplicates (PD). An additional 64 Au lab pulp checks and 39 Cu lab pulp checks were run as part of ALS' internal QAQC program for Au and Cu respectively.

13.3.1 Drill Core Duplicates – Au

The Au duplicates show some variability in each of the duplicates which is attributed to a nugget effect. After results from the first hole (RG12-08) were received, during duplicate verification it became apparent that there were duplicate pairs which were inconsistent in the 0.1ppm grade range and above. To attempt to reduce the nugget effect, the preparation method was changed for all other holes from pulverization of a 250g split to pulverization of a 1000g split. The results plotted in this chart show exclusively the results using the 1kg pulverization (which supersede all

previous Au for holes which have two different sets of Au-ICP21 results with different preparation methods), yet some nugget effect still exists. Screen fire assays were done on a subset of 3 samples from RG12-08 for further confirmation of the coarse gold situation. Results from the screen fire assay were consistent with the level of Au observed by Fire assay, however it is suggested that if a significant resource develops at RedGold, screen fire assays should be performed above a chosen logical threshold, and the 1kg preparation method should continue to be used. Both sets of Au results are included in Appendix 13

Overall no significant bias is observed for the Au pulp duplicates. Both the coarse duplicates and the pulp duplicates show a slight bias towards the original result, however the bias is observed close to the reference level, and below 0.3ppm. The coarse duplicate data set has one spurious outlier which required investigation. Sample pairs were checked and are logical, and the Cu for the same sample is not exhibiting the same relationship, so the discrepancy is attributed to coarse Au. The field duplicates show the most variability as expected, with a few low grade outliers, below 0.3ppm.

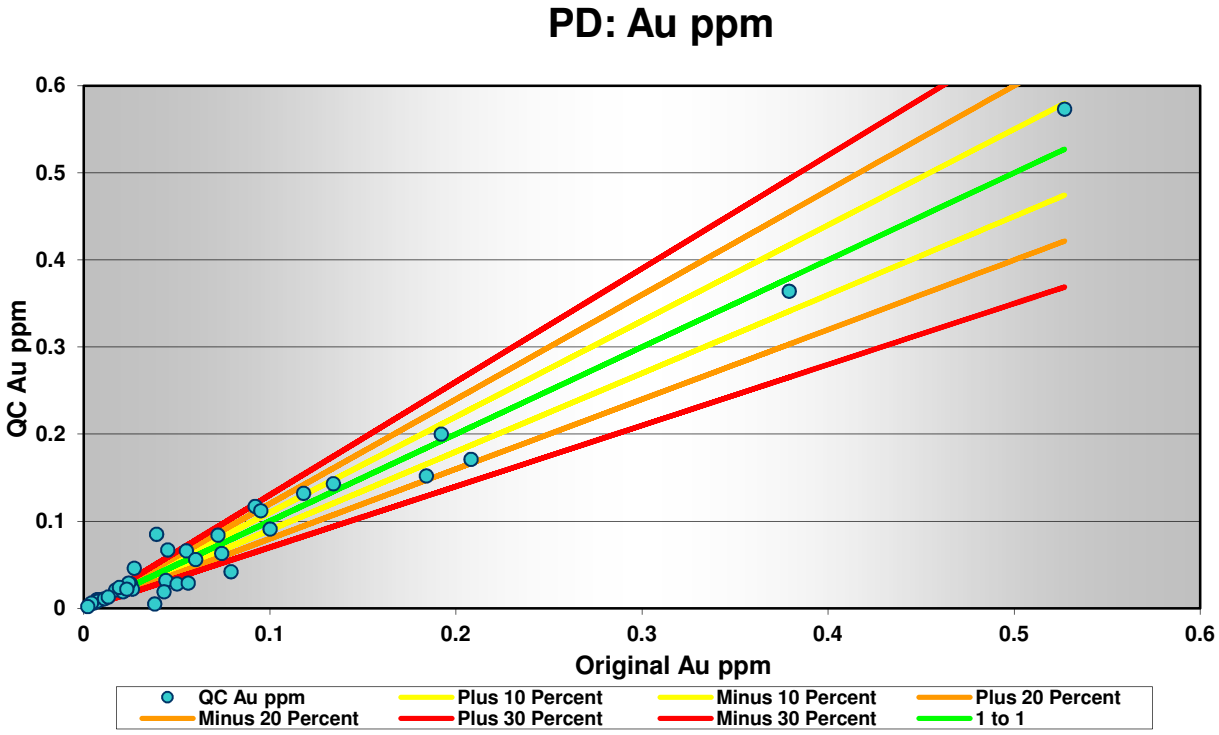


Figure 13-12. Original vs. Pulp Duplicates for Au – Drill Core

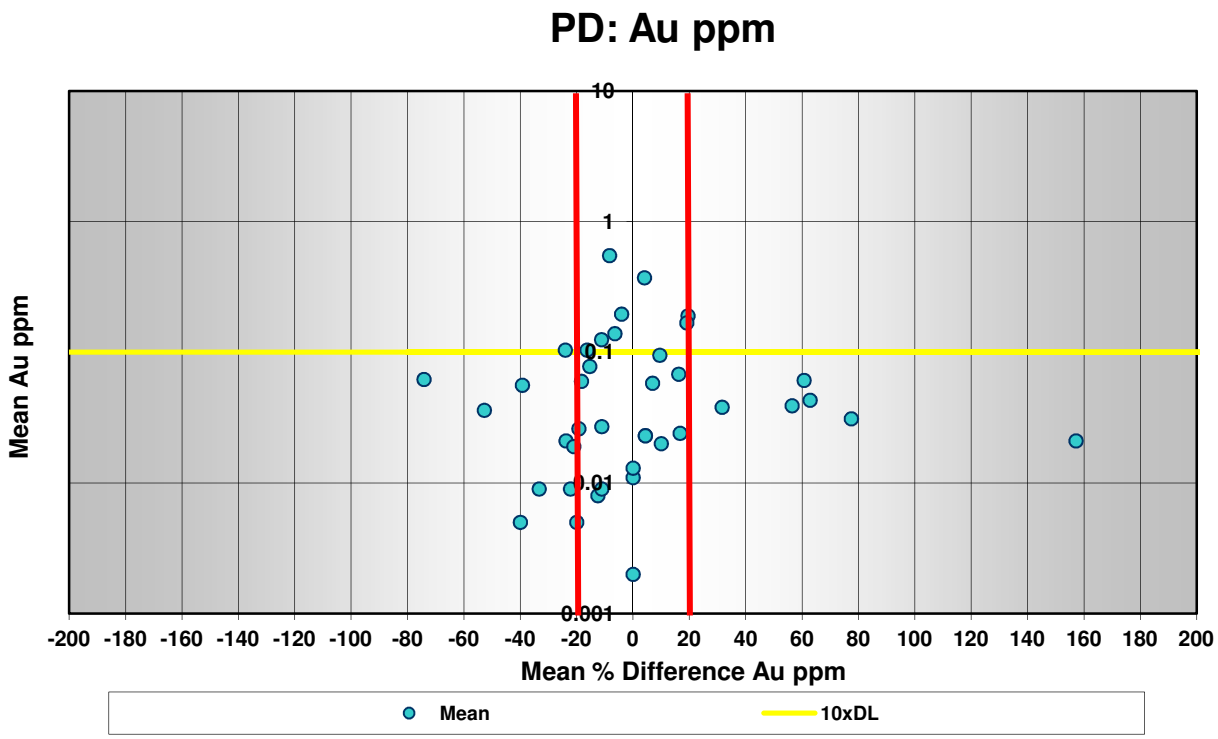


Figure 13-13. MPD vs. Mean for Au in Pulp Duplicates – Drill Core

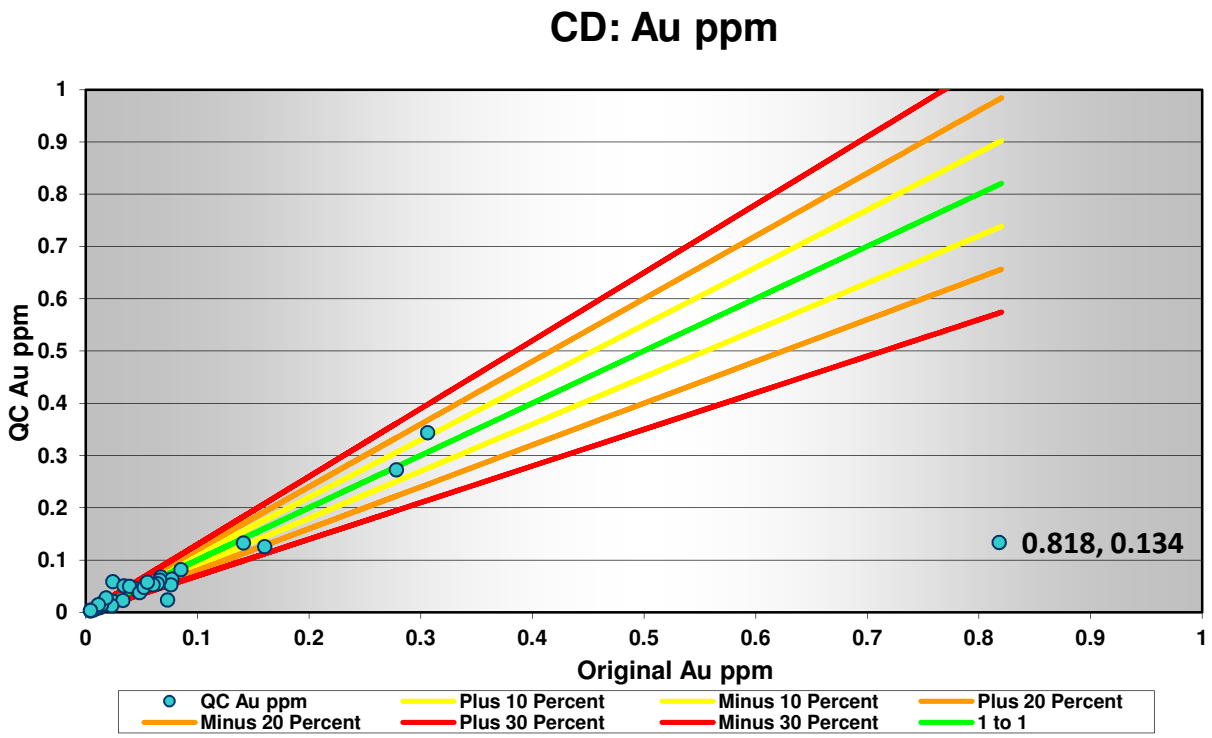


Figure 13-14. Original vs. Coarse Duplicates for Au – Drill Core

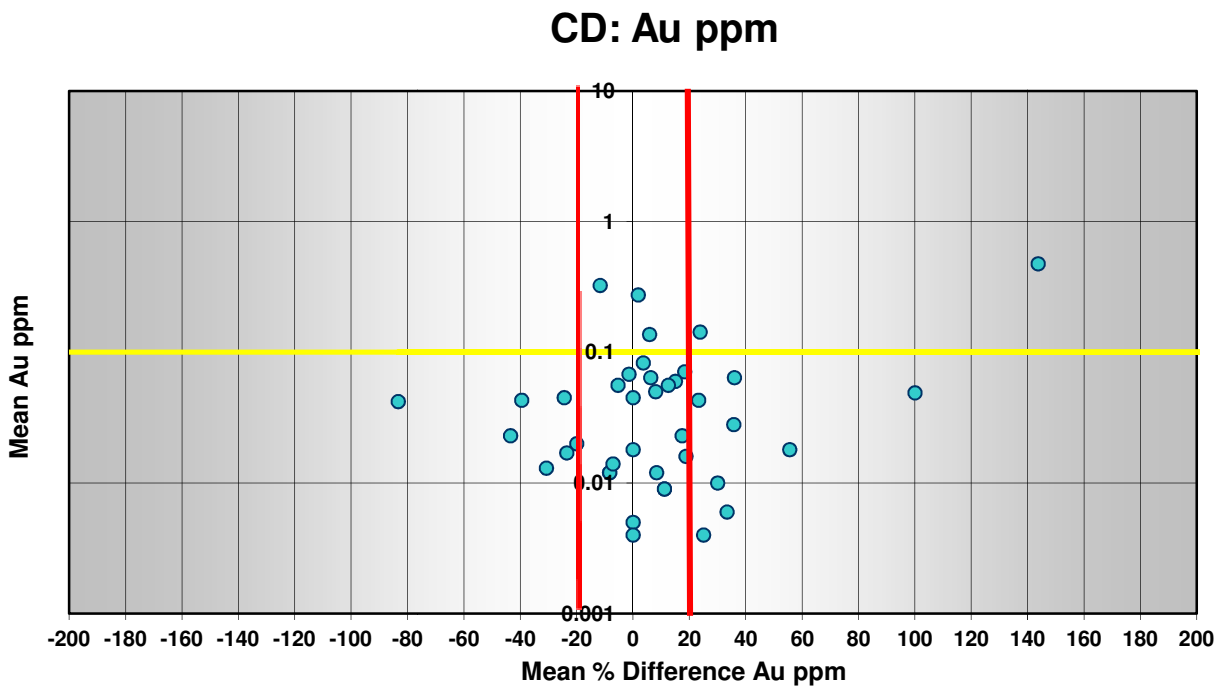


Figure 13-15. MPD vs. Mean for Au in Coarse Duplicates – Drill Core

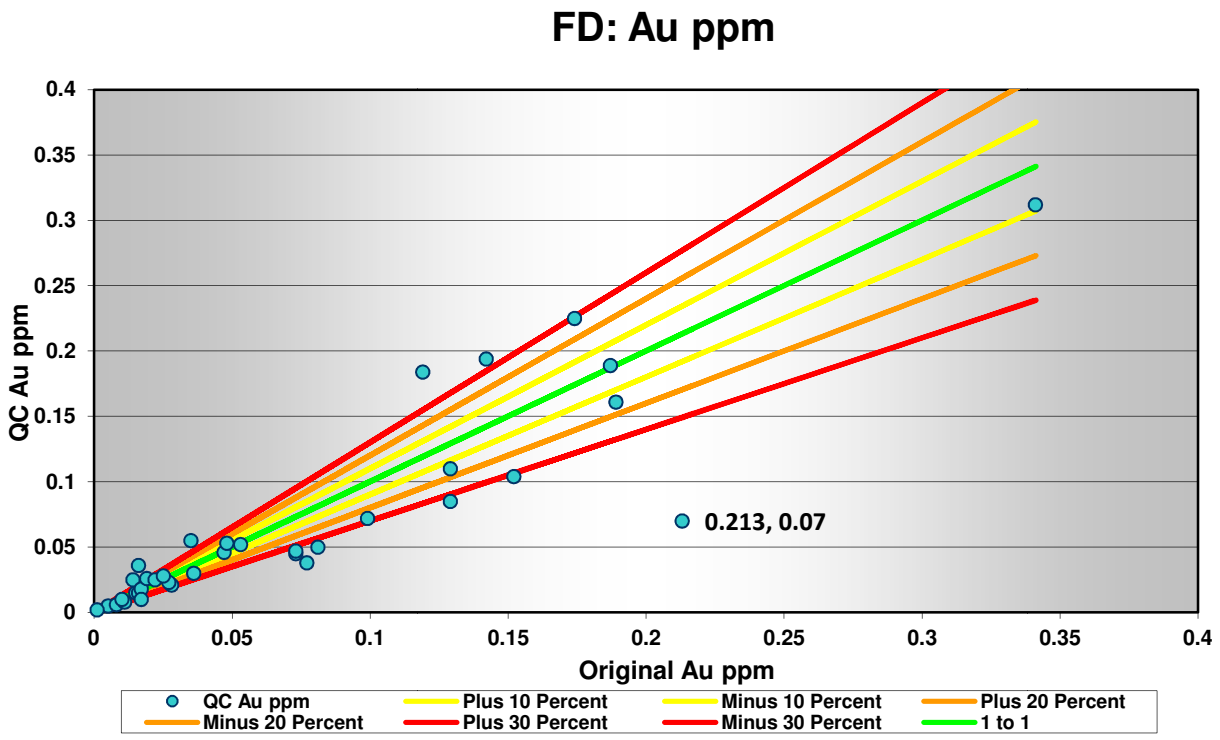


Figure 13-16. Original vs. Field Duplicates for Au – Drill Core

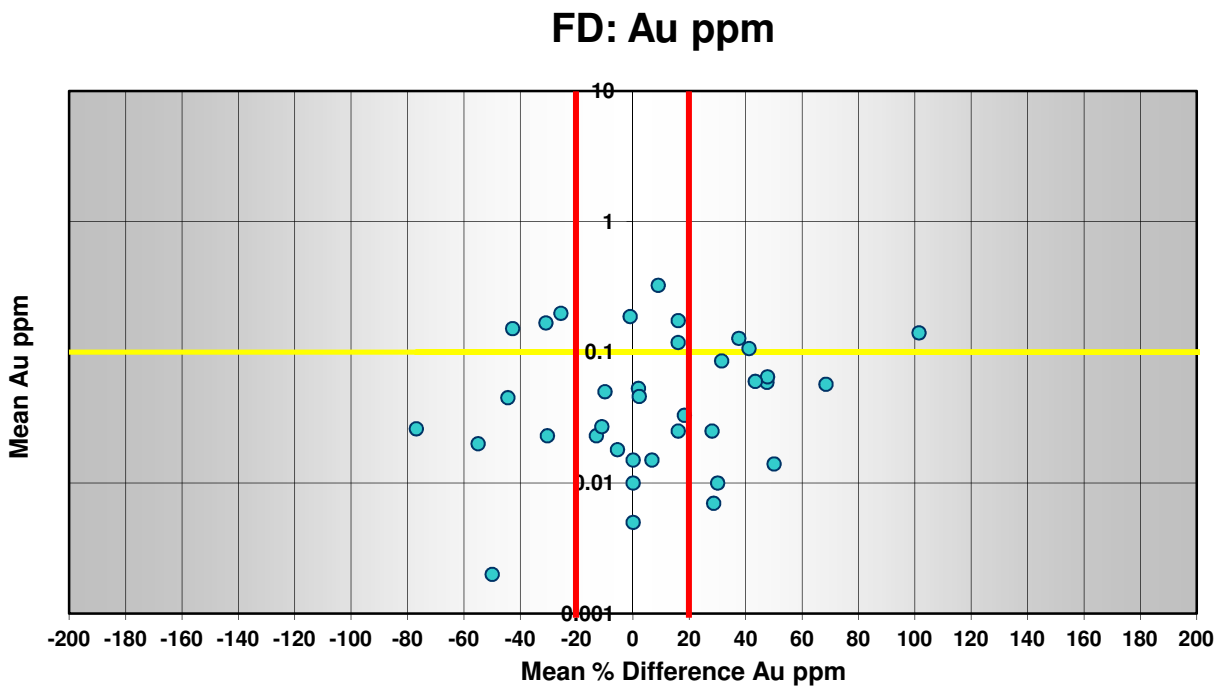


Figure 13-17. MPD vs. Mean for Au in Field Duplicates – Drill Core

The large population of results below the 0.1 ppm threshold, and the small data sets for each duplicate type makes estimation of precision suspect and makes a graphical representation poor. As such, the Thompson Howarth plot was not possible for this small data set.

A second metric of the variability is the relative standard deviation for each QC type, filtered and evaluated at greater than 0.1 ppm. The most variability is observed in the field duplicates with a 15.8% RSD where as the coarse duplicates and pulp duplicates have 7.63% and 8.9% respectively (after removal of the spurious sample in the coarse duplicates, if this sample is retained, the coarse duplicates have a RSD of 26.43%).

13.3.2 Drill Core Duplicates – Cu

Overall the Cu duplicates are more consistent than the gold and are reproducible. The coarse and pulp duplicates pairs are in excellent agreement and are reproducible at all grade ranges noted. The field duplicates show the greatest variability, but are also reproducible with only 1 significant ore grade level outlier out of 36 duplicate pairs. This outlier is related to the field heterogeneity.

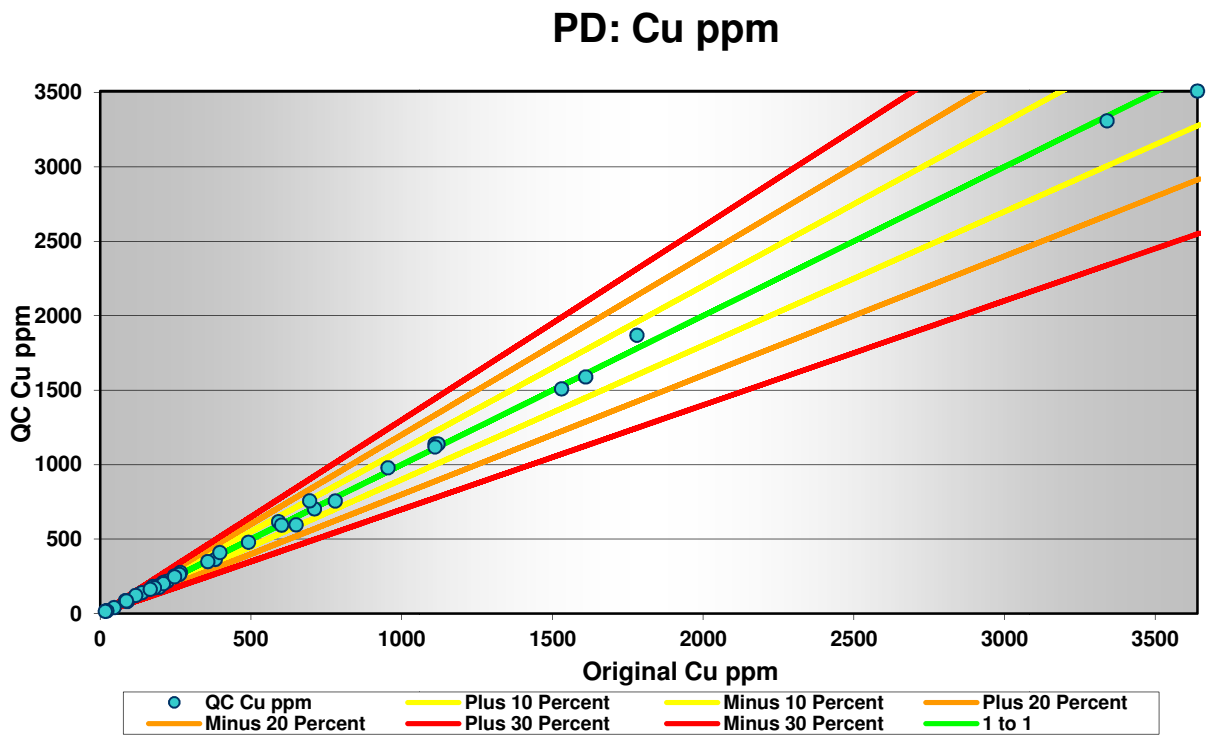


Figure 13-18. Original vs. Pulp duplicates for Cu- Drill Core

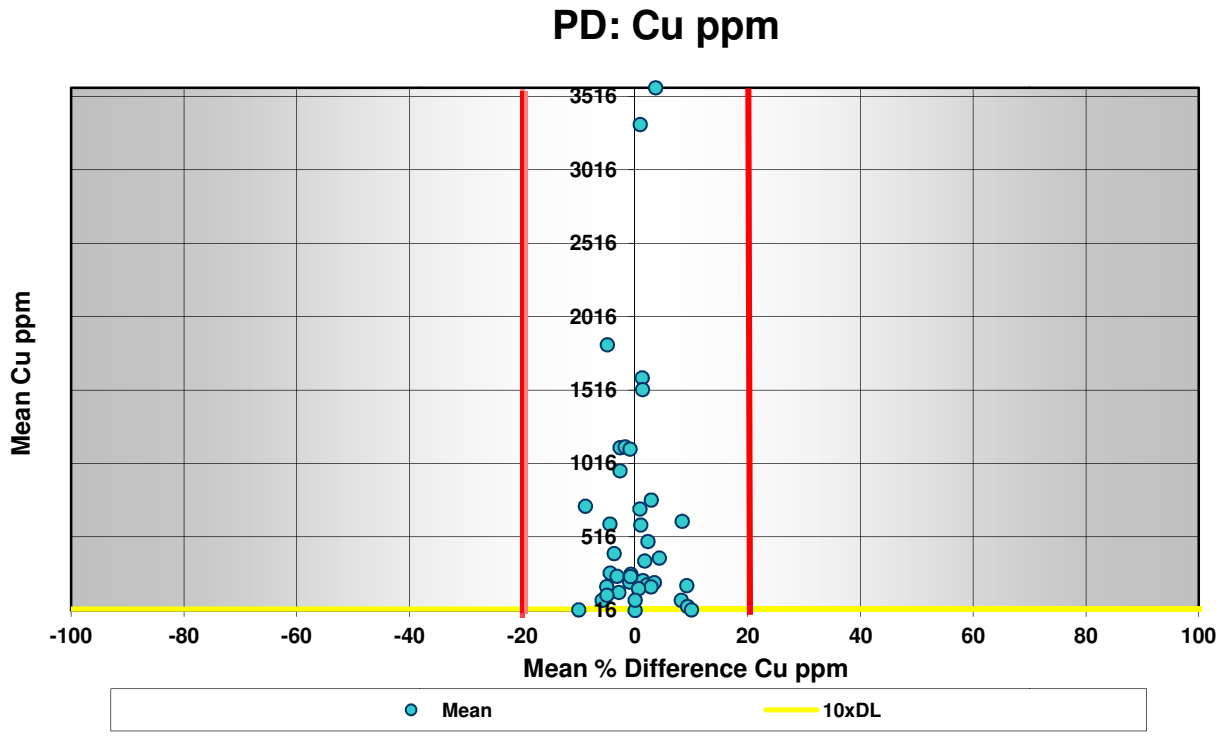


Figure 13-19. MPD vs. Mean for Cu in Pulp Duplicates – Drill Core

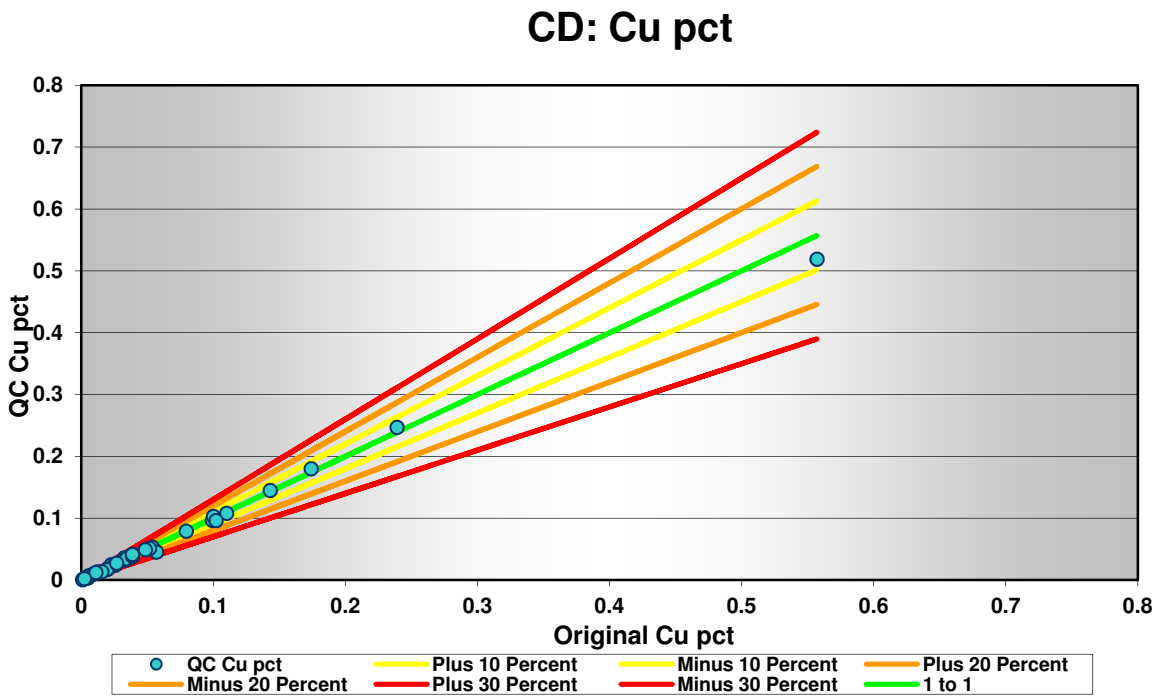


Figure 13-20. Original vs. Coarse Duplicates for Cu – Drill Core

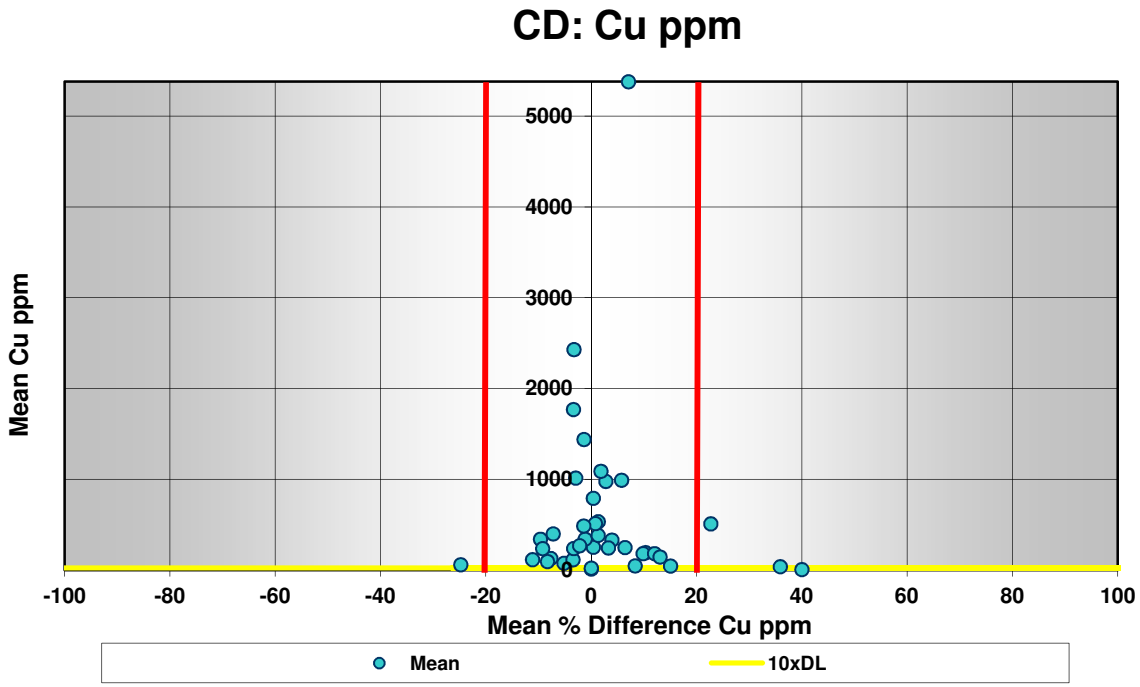


Figure 13-21. MPD vs. Mean for Cu in Coarse Duplicates – Drill Core

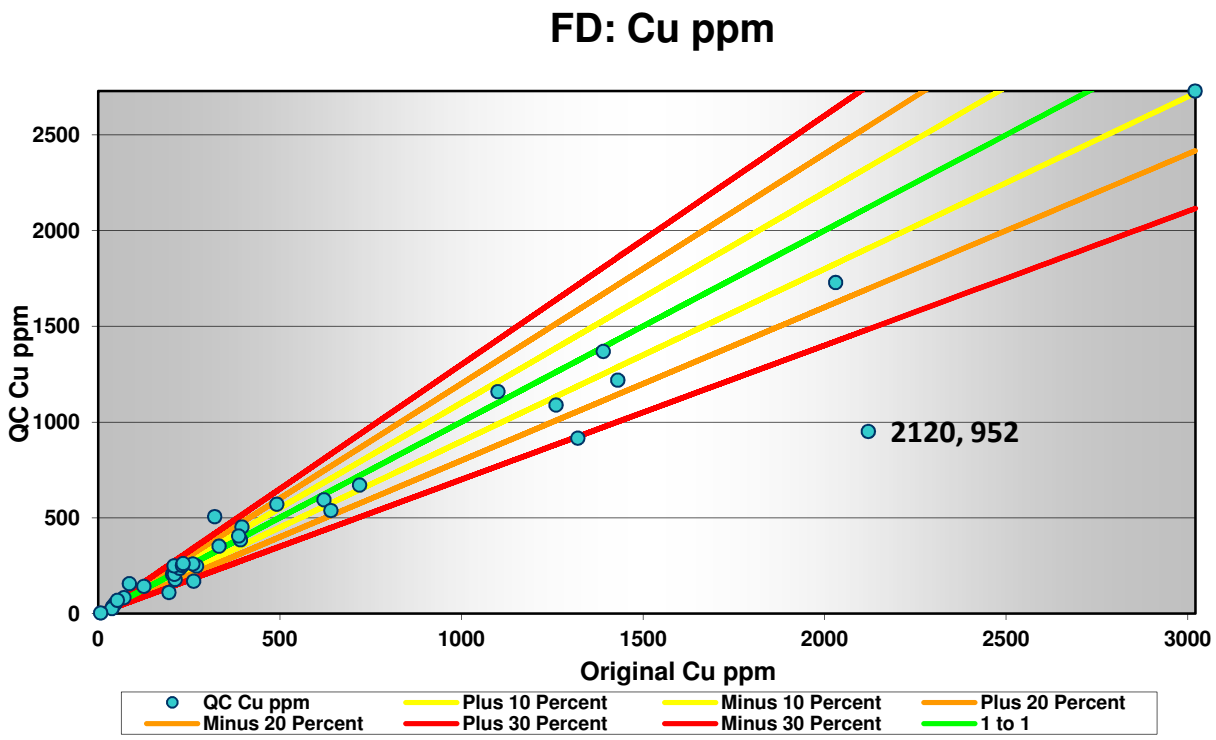


Figure 13-22. Original vs. Field Duplicates for Cu – Drill Core

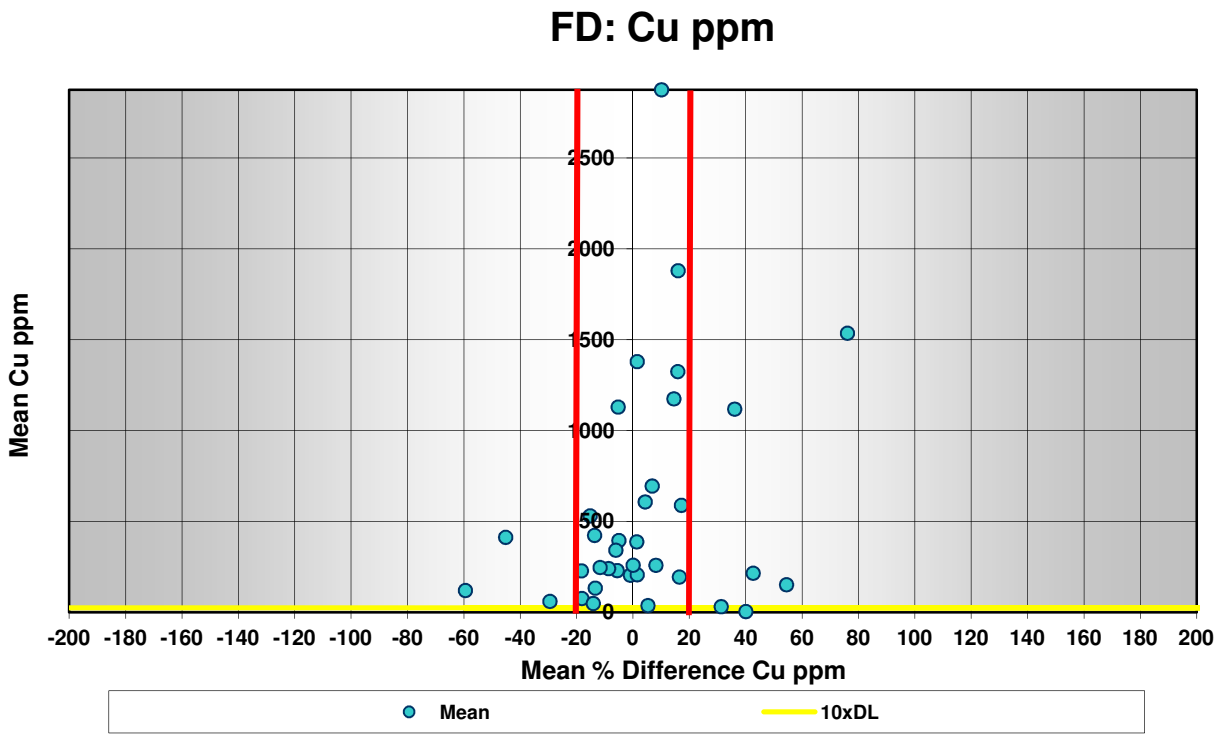


Figure 13-23. MPD vs. Mean for Cu in Field Duplicates – Drill Core

The small data set did not allow for the Thompson-Howarth estimate of precision, however, the RSD for the population of field, coarse and pulp duplicates is 13.15% (n=36 samples), 5.45% (n=40 samples) and 2.55% (n=40 samples) respectively. The RSDs confirm the expected relationship.

13.4 Soil and Charcoal QAQC

318 Ah soils and 275 Charcoal samples were collected and submitted to the lab for analysis. No standard or blank samples were inserted to independently verify the results from the lab and we relied on the internal QAQC for the lab due to the exploratory nature of the soil survey. To understand the reproducibility of results for the sample media, field duplicates were taken at a rate of 3-4%. A total of 12 soil duplicates and 11 charcoal sample duplicates were also taken and submitted for analysis. ALS internally performed and reported 17 Cu pulp checks and 3 Au pulp checks. Due to insufficient remaining sample, there were few Au pulp checks that were successfully completed.

The soil and charcoal duplicate data were treated together in the following section.

13.4.1 Au in Soil and Charcoal Duplicates

Overall the results for the field duplicates are comparable considering the low gold values and nature of the sampled soil material. The scatter is due the sampling error from variability in the material collected at each site. Greater error is expected as the field duplicates show cumulative error from sampling, preparation and analysis (Figure 13-24).

Overall the field duplicate results for Au show bias to the original result. The average RSD for the Au in field duplicates is 44% which is high and highlights the variability from sampling. The duplicates show the scatter expected as for such low values . There was a bias to the original sample (Figure 13-24) which was investigated as being partially related to the difficulty and time-consuming nature of taking charcoal samples, and the field duplicate sample was likely of lesser quality than the original sample. This signifies that sample quality is a significant factor in the discovery of a charcoal anomaly.

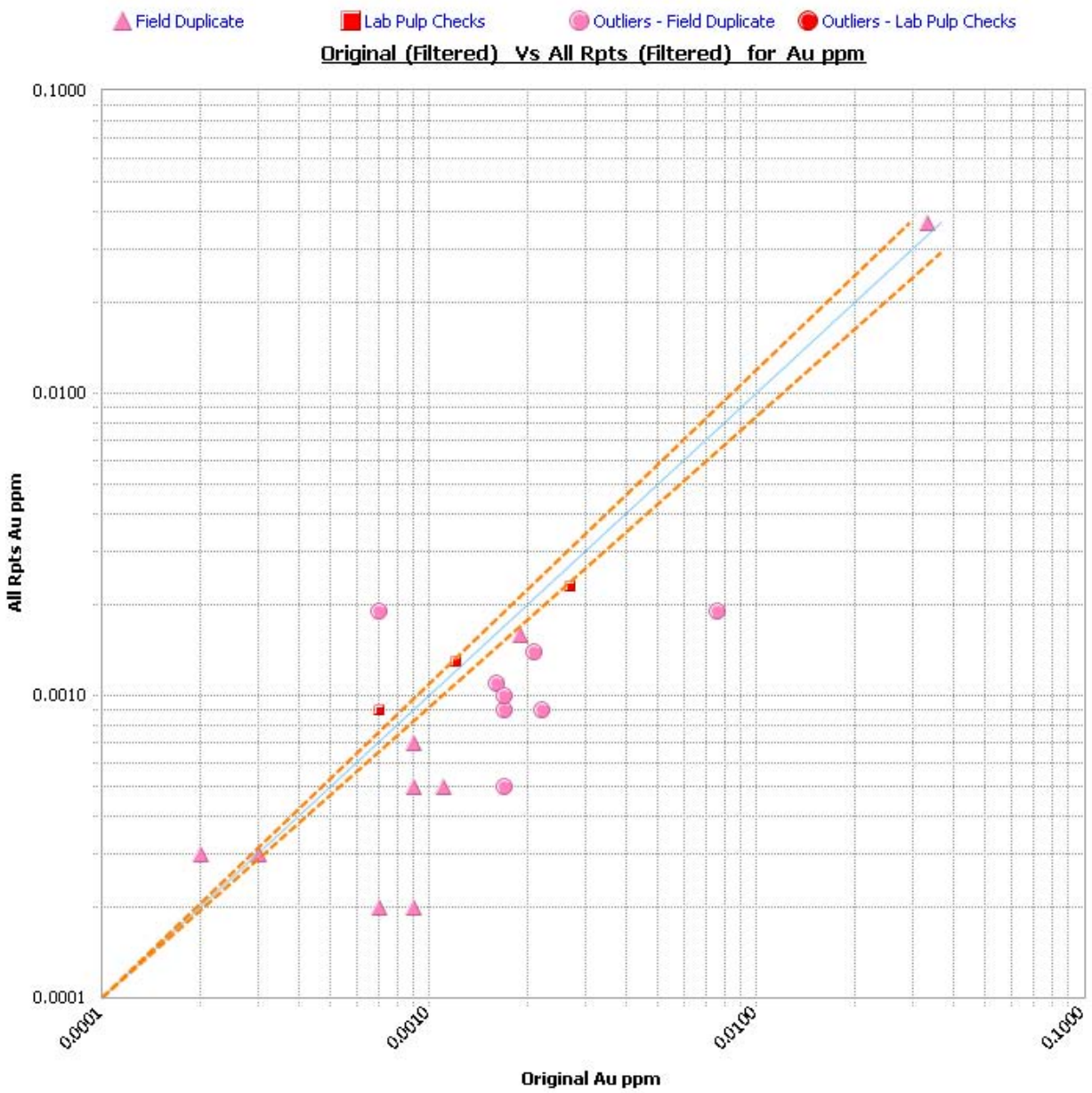


Figure 13-24. Original vs. Duplicate for Au in Ah Soils and Charcoal, shown together with 20% difference envelope

13.4.2 Cu in Soil and Charcoal Duplicates

The results from the Cu in field duplicates samples are generally reproducible. The average RSD is 19.4%. The bias observed in the Au for the field duplicate pairs was not observed in the Cu plot, which appears to have a slight bias to the repeat sample below 20ppm and to the original above 30ppm. The lab pulp check data are reproducible within the 20% limit with one minor outlier at approximately 11 ppm (Figure 13-25).

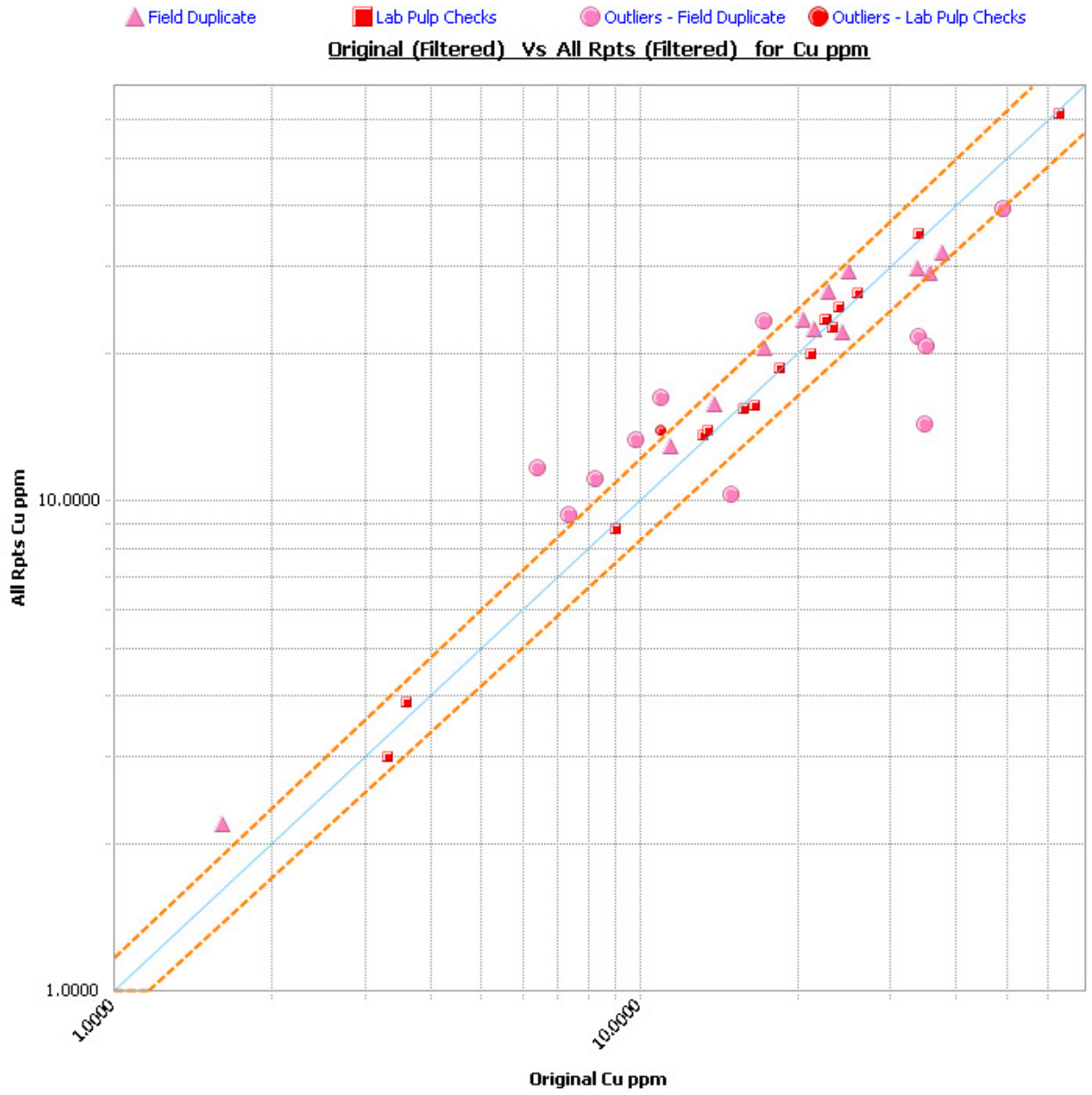


Figure 13-25. Original vs. Duplicate for Cu in Ah Soils and Charcoal shown together with 20% reference envelope.

13.5 Trench rock samples QAQC

134 trench samples were collected during the 2012 field season. No standards or blanks were submitted with this shipment. From this batch, no field duplicates exist, 7 pulp duplicates and 6 coarse duplicates were ordered. In addition, 5 Au lab checks and 4 Cu lab checks were reported.

13.5.1 Au duplicates in the Trench samples

The coarse duplicates and pulp duplicates show reproducibility within or close to the 20% envelope, with three outlier pulp duplicate data points favouring the original result at the 1 ppm level. As this is a surface program of an exploratory nature, this discrepancy is noted but is not of material consequence (Figure 13-26). Drill core pulp duplicates showed similar effects, related to the slight nugget effect noted at RedGold, and this is a probable cause of the outliers noted in this figure.

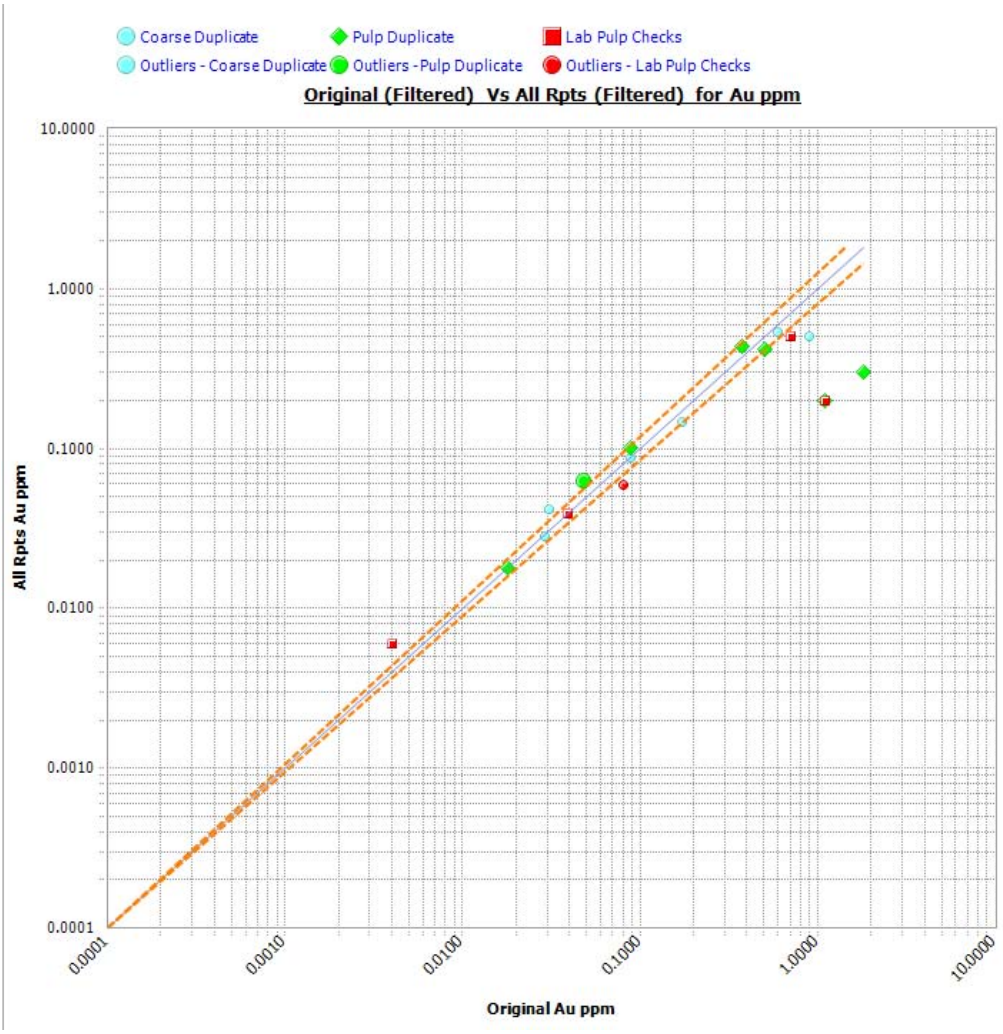


Figure 13-26. Original vs. Repeat for trench rock samples, Au (ppm), 20% envelope for reference.

13.5.2 Cu duplicates in the Trench samples

The Copper duplicates for the trench rock samples show excellent reproducibility and are acceptable (Figure 13-27).

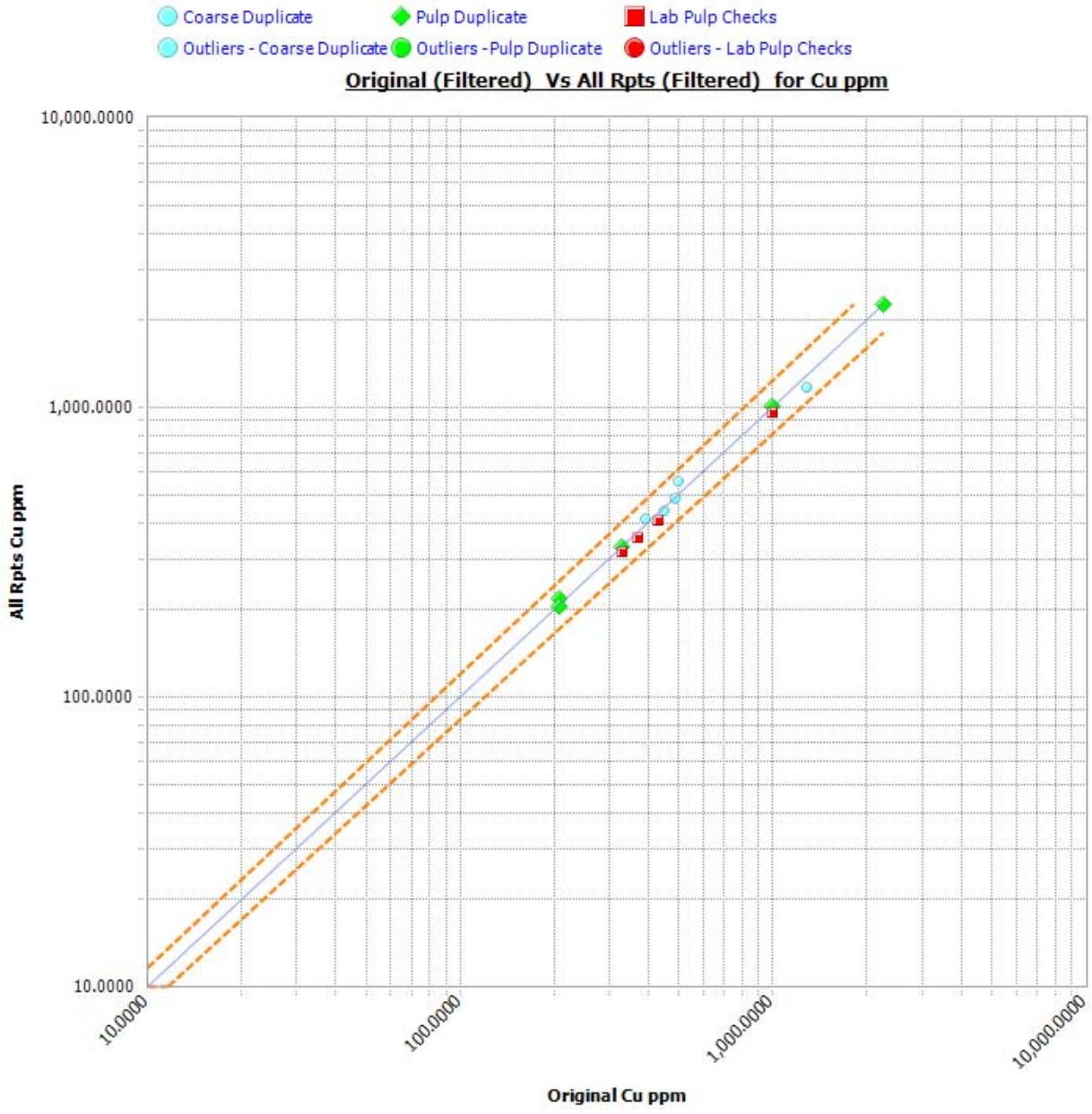


Figure 13-27. Original vs. Repeat for trench rock samples, Cu (ppm), 20% envelope for reference.

13.6 Surface Rock QAQC

A total of 206 surface rock samples were collected for the 2012 Red Gold program. No standard or blank material was submitted with these samples due to the exploratory nature of the program; however 5 pulp duplicates, 5 coarse duplicates, and 6 Au and Cu internal Lab checks were completed. Results are acceptable for both Au and Cu data sets. Outlier pulp and coarse duplicates for Au are attributed to the nugget effect which was also seen in drill core samples with Au near the 0.1ppm level (Figure 13-28). Below the 0.1ppm level, the fire assay method does not provide consistent results due to the nature of the assay method. The Cu results are excellent, with no data outliers (Figure 13-29).

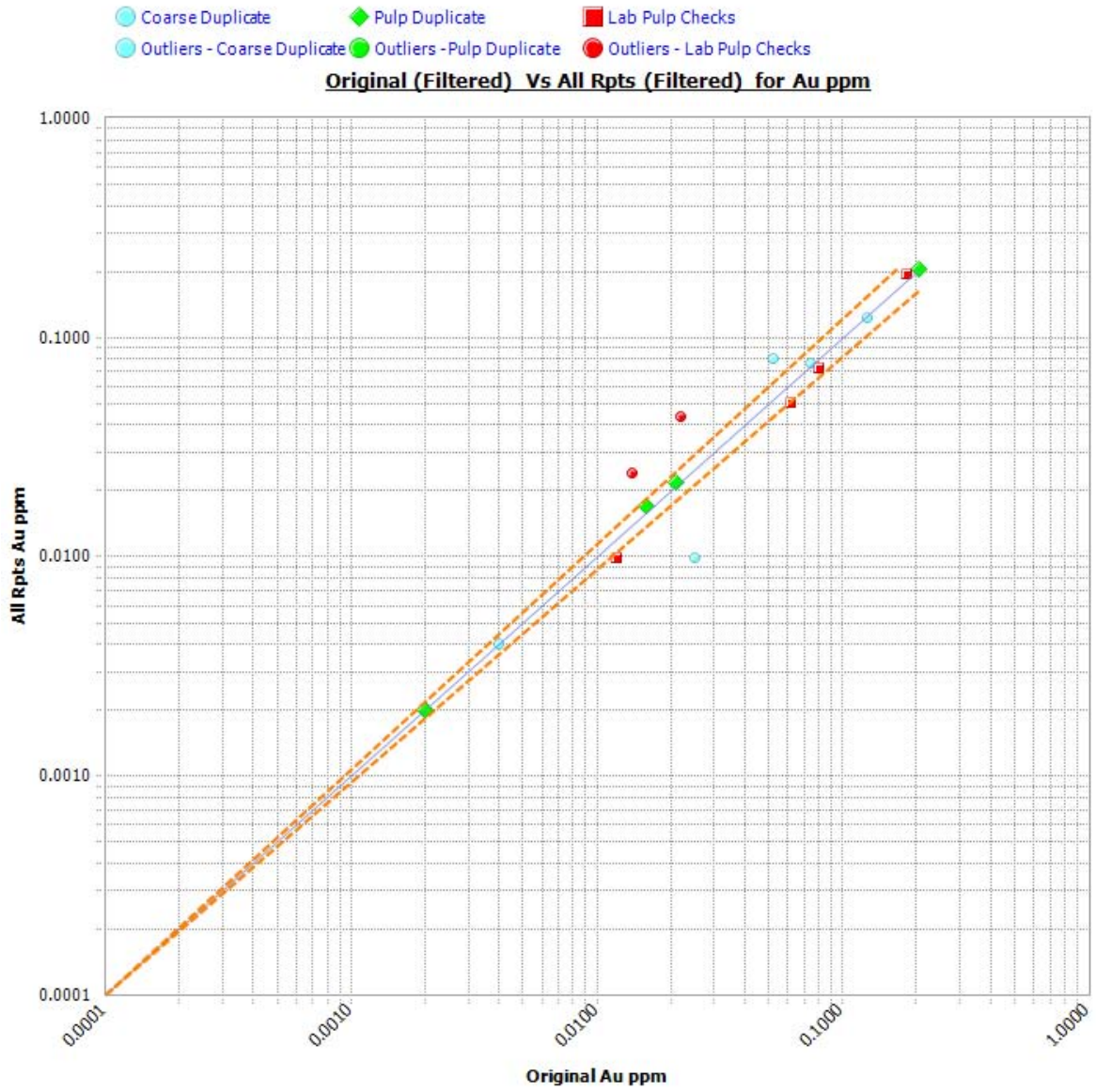


Figure 13-28. Original vs. repeat for surface rock samples, Au (ppm), 20% envelope for reference

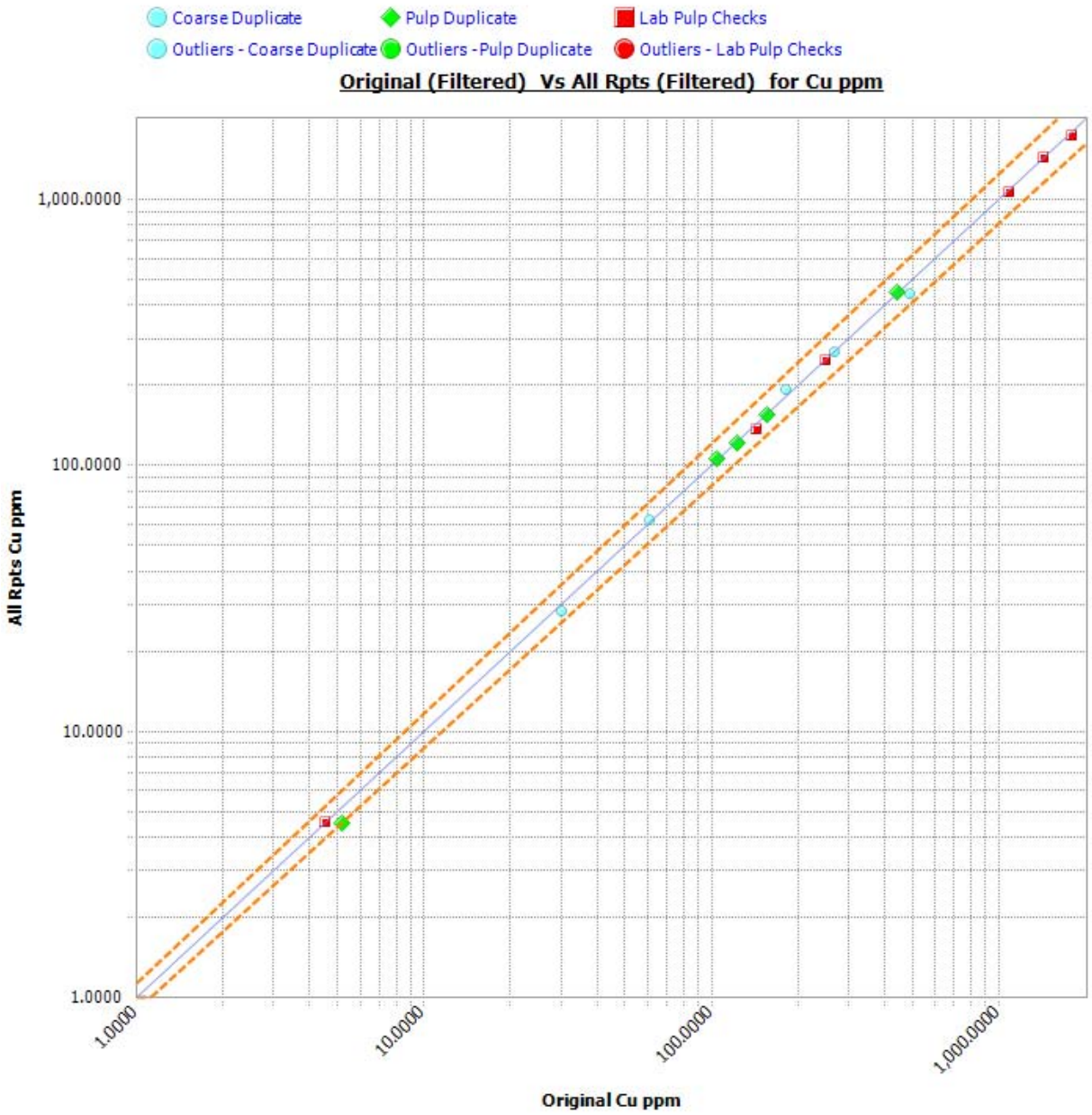


Figure 13-29. Original vs. repeat for surface rock samples, Cu (ppm), 20% envelope for reference

No QAQC data was obtained for the whole rock analysis.

14.0 ADJACENT PROPERTIES

There are numerous known British Columbia Ministry of Energy, Mines and Petroleum Resources MINFILE occurrences including showings, deposits and operating mines adjacent to the RedGold Property. Occurrences such as geothermal springs and volcanogenic industrial minerals have not been discussed here due to the lack of relevant mineralization with respect to

the Property. Any properties not discussed here have not impacted the assessment of RedGold. Adjacent properties with significant mineralization include, but are not limited to, the directly adjacent Woodjam North property, and the proximal Imperial Metals Mount Polley Mine.

The Author has not verified the information made public on any of the properties discussed below and cautions that results reported from these areas are not necessarily indicative of the mineralization found at RedGold. The Author has not verified the information made public on any other adjacent properties not mentioned below and cautions that any such information is not necessarily indicative of the mineralization found at RedGold.

14.1 Woodjam North

The Woodjam North Property is adjacent to the south of the RedGold Property and hosts several drill-tested (Deerhorn, Megabuck, Megabuck East, and Takom) mineralized zones characterized by dioritic to monzonitic plugs intruding late Nicola volcanic and volcaniclastic rocks. Alkalic porphyry Cu-Au mineralization is associated with each of these zones. Additionally, the drill-tested Spellbound Zone hosts calc-alkalic porphyry-style Cu mineralization within the Takomkane quartz monzonite (Skinner, 2010). Gold Fields and the CWC have an ongiong exploration program, including drilling, operating in conjunction with the work on the RedGold Property.

Mineralization at the Megabuck, Deerhorn and Megabuck East zones consists of stockwork quartz-chalcopyrite veins and disseminations (± bornite) associated with monzonite stocks. Notable Megabuck intersections include WJ04-32, which had 0.12% Cu and 0.81 g/t Au over 378.0 metres, and WJ04-37, which had 0.13% Cu and 0.77 g/t Au over 397.5 metres (Peters, 2008), Good Deerhorn intersections are DH11-30, which had 0.25% Cu and 1.12 g/t Au over 146.32 metres, and DH10-21, which had 0.32% Cu and 1.35 g/t Au over 125.50 metres (Blackwell et. al., 2012). At the Takom Zone, chalcopyrite (± bornite) is found as fine disseminations, within quartz veins, and in a magnetite-actinolite stockwork veins. Drilling there returned 111.9 metres of 0.29% Cu and 0.51 g/t Au (TK10-12; Skinner, 2011). **Note that intercept lengths described are core lengths and may not represent true widths.**

14.2 Woodjam South

The Woodjam South Property is a calc-alkalic porphyry with copper-gold-molybdenum mineralization that makes up the southern portion of the Woodjam Property, which includes Woodjam North. The Woodjam Property consists of a group of claims contiguous to the southern boundary of Woodjam North as well as a group of standalone claims directly east of the main Woodjam South claim block. Woodjam South is owned and operated by the WJV. The property lies within a region characterized by unconsolidated glacial, fluvial and alluvial deposits, and by the Takomkane quartz monzonite intrusive, a large predominantly calc-alkalic intrusive with a surface expression in the order of tens of kilometres. Mineralization consists of pyrite, chalcopyrite, bornite, and molybdenite. The Southeast Zone, located in the northeastern part of the Woodjam South Property, is the main mineralized zone, and was discovered in 2007 by an IP chargeability/resistivity survey. Subsequent drilling found mineralization from the

bedrock surface to the end of hole. Significant intersections include WJ08-84, which had 0.76% Cu, 0.30 g/t Au and 0.006% Mo over 313.12 metres, SE10-15, which had 0.79% Cu, 0.06 g/t Au and 0.004% Mo over 32.00 metres, and SE11-62, which had 0.63% Cu, 0.21 g/t Au and 0.001% Mo over 168.32 metres (Rainbow, 2011). **Note that intercept lengths described are core lengths and may not represent true widths.**

14.3 Mount Polley

Imperial Metals Mount Polley Mine is located 56 km northeast of Williams Lake and approximately 15 km northwest of RedGold. Mount Polley is an alkalic porphyry Cu-Au open-pit mine that is characterized by a diorite intrusion that has been cut by numerous later intrusions and breccias (hydrothermal and igneous). The hydrothermal breccias contain most of the mineralization (Fraser et al., 1995). Mineralization consists of chalcopyrite, magnetite, and minor bornite. Imperial Metals Corporation has a NI 43-101 (January 1, 2010) proven and probable reserve for the Mount Polley Mine of 40,500,000 tonnes of 0.318% Cu, 0.282 g/t Au, and 0.006 g/t Ag.

15.0 MINERAL PROCESSING AND METALLURGICAL TESTING

To date, no mineral processing and/or metallurgical testing has been completed on material from the RedGold Property.

16.0 MINERAL RESOURCES AND MINERAL RESERVE ESTIMATES

To date, no mineral resource or mineral reserve estimate has been completed for the RedGold Property.

17.0 OTHER RELEVANT DATA AND INFORMATION

Before the 2012 drill program, Terra Archaeology Ltd., of Williams Lake BC, were contracted to give archaeological clearance prior to drill trail and drill pad construction. In all instances archaeological clearance was obtained.

No other relevant data or information has been considered for inclusion in this Report.

18.0 INTERPRETATION AND CONCLUSIONS

Exploration work has been carried out sporadically in the area of the RedGold Property since the 1970s. It is the Author's opinion that work carried out on the RedGold Property in 2012 by Gold Fields has been conducted in a professional manner and that sampling methods and approach are adequate to support the observation and recommendations made in this Report.

The property-wide exploration program carried out on the RedGold Property during 2012, included soil, charcoal, rock sampling, mapping, and a regional IP survey. Soil, charcoal, and rock sampling were used to identify zones showing anomalously high copper and/or gold content, which will require follow up work. The regional IP survey helped to identify several areas of interest, and was also used to help generate drill hole targets.

Re-logging of historical drill core from the drill target area contributed to refine the geological understanding of the mineralized areas. Re-logging of additional historical drill core showing mineralized intersections may be helpful for generation of future drill targets.

The 2012 RedGold drill program identified favourable mineralization in the East Zone, and potential for favorable mineralization in the Quarry Zone. Further drilling is warranted to gain a better understanding of the geological controls on mineralization on the RedGold Property.

19.0 RECOMMENDATIONS

Further reconnaissance work and drilling is recommended for the RedGold Property.

Little is known about the geology in the RedGold area. Historical mapping was greatly improved by the 2012 mapping program, though mapping is still incomplete and requires more work. Additional mapping extending out from the main drill target area is recommended.

Because of its usefulness in identifying structures and drill target areas, the 2011 ground magnetometer survey should be expanded in all directions to cover most of the RedGold claim area, with priority put on the north part of the claim area.

Outside of the main zones in the drill target area, multi-sample Au and Cu anomalies from the Ah soil horizon program should be followed up on, especially over the east portion of the drill target area where overburden is thought to be thicker.

Additional drilling in 2013 is recommended, particularly in the East, Quarry and North Zones, to find more mineralization and to identify the geological controls on the said mineralization.

20.0 STATEMENT OF EXPENDITURES

The 2012 exploration program expenditures are as follows:

Woodjam North Exploration Expenditure 2012					
Exploration Work type	**Comment**	**Days**			**Totals**
Personnel (Name) / Position	**Field Days (list actual days)**	**Days**	**Rate**	**Subtotal**	
	Twila Skinner	36.0	$650.00	$64,232.50	
	Amelia Rainbow	5.5	$650.00		
	Jacqueline Blackwell	1.0	$650.00		
	Tim Stubley	25.5	$550.00		
	Matt Eckfeldt	79.00	$550.00	$70,138.40	
	Andrea Ross	1.0	$550.00		
	Jennifer Vatour	15.0	$550.00		
	Wendy Alphonse	4.0	$300.00		
	Teena Sellars	4.0	$300.00		
	Beth Marsh	4.0	$300.00		
	Nadine Duitschaever	3.0	$300.00		
	Bonnie Gardner	14.0	$300.00		
	Codee Bowee	4.0	$300.00		
	Katherine Rempel	20.0	$400.00		
Geotechnical Contractors (Mincord Exploration Consultants Ltd.)	Darcy Jackson	12.0	$425.00	$28,073.06	
	John Macleod	8.0	$375.00		
	Monique King	9.0	$375.00		
	Kalvin King	4.0	$375.00		
	Dawn Bigg	4.0	$375.00		
	Laird Tutte	5.0	$375.00		
	Florian Krumseik	6.0	$375.00		
	Mariska Redford	6.0	$375.00		
Geotechnical Contractors (Durfeld Geological Management Ltd.)	Steve Lehman	12.0	$450.00		
	Dilion Hume	5.0	$350.00		
Geologic Consultants	Chris Benn (In house Consultant)	1.0	$940.00	$940.00	
Geologic Consultants	Eugene Flood (External Consultant)	12.0	$1,200.00	$14,400.00	
				$177,783.96	**$177,783.96**
Ground Geophysics	**Line Kilometres**	Days	Rate	**Subtotal**	
Induced Polarization	67.45	57.0	$3,776.27	$215,247.22	

Line Cutting	76.22	31.0	$2,582.90	$80,069.97	
				$295,317.19	**$295,317.19**
Geochemical Surveying	**Number of Samples**	**No.**	**Rate**	**Subtotal**	
Drill Core Samples	933 core; 54 standards, 54 Field Blanks, 36 Field Dups, 40 Coarse Dups and 401 Pulp Dups	1157	$63.51	$73,476.49	
Charcoal	275 samples (incuding 11field duplicates)	275	$30.07	$28,055.93	
Ah samples	318 samples (including 12 duplicates)	318			
Rock Samples	340 surface rock samples (Surface, whole rock and trench)	340			
				$101,532.42	**$101,532.42**
Drilling	**No. Of Holes, Size of Core and Metres**	**Metres (m)**	**Rate ($/m)**	**Subtotal**	
Diamond Drilling	7 NQ holes; 1767.52m	1767.52		$204,607.44	
				$204,607.44	$204,607.44
Trenching		**Days**	**Rate**	**Subtotal**	
Trenching/Excavation	134 trench samples included in Geochemical Surveying-Rock Samples			$3,774.42	
				$3,774.42	$3,774.42
Site Access and Preparation		**Days**	**Rate**	**Subtotal**	
Site Access and Preparation				$7,588.97	
Site Mobilization				$3,148.73	
				$10,737.70	**$10,737.70**
Reclamation		**Days**	**Rate**	**Subtotal**	
After Drilling				$7,669.99	
				$7,669.99	**$7,669.99**
Transportation/Travel		**Days**	**Rate**	**Subtotal**	
Airfare				$939.16	
Travel Sundries				$53.46	
Car Hire or Taxi				$2,085.62	
Truck Rental				$4,962.41	
Fuel				$1,166.62	
Truck Insurance				$363.60	
Truck Repairs				$217.37	
Hotel (Local Travel)				$1,862.36	
Meals (Travel)				$17.88	
				$11,668.48	**$11,668.48**

Accommodation & Food	**Rates per day**	**Days**	**Rate**	**Subtotal**	
Camp Accommodation & Meals				$31,622.86	
Camp Rentals / Repairs/ Construction				$949.04	
Camp Utilities and Gen				$53.43	
				$32,625.33	**$32,625.33**
Miscellaneous	**Rates per day**	**Days**	**Rate**	**Subtotal**	
Field Office Rental				$120.00	
Office Cleaning and Utilities				$486.20	
Office Services and Supplies				$269.08	
Communications	Telephone and Internet			$682.52	
Computers	IT and Software			$986.67	
				$2,544.47	**$2,544.47**
Equipment / Field Gear	**Rates per day**	**Days**	**Rate**	**Subtotal**	
Field Equipment Rentals				$7,110.95	
Field Tools and Equipment				$28.79	
Field Geology Gear/Supplies				$1,500.13	
Field Gear Repairs & Maintennance				$90.00	
Field Storage				$2,609.17	
Field General Stores				$806.82	
				$12,145.86	**$12,145.86**
Environmental, Health and Safety		**Days**	**Rate**	**Subtotal**	
EH&S Safety Equipment				$3,641.05	
EH&S Field Communications				$0.84	
				$3,641.89	**$3,641.89**
Sustainable Development		**Days**	**Rate**	**Subtotal**	
Donations and Social Programmes				$58,854.29	
Sustainable Development Consultants	Catana Consult and Terra Archaeology			$7,257.25	
				$66,111.54	**$66,111.54**
Freight, rock samples		**No.**	**Rate**	**Subtotal**	
Sample freight				$4,246.83	
				$4,246.83	**$4,246.83**
TOTAL Expenditures					**$934,407.52**

Table 20-1. 2012 Statement of Expenditures.

21.0 REFERENCES

BCGS 2001: Government of BC Ministry of Energy Mines and Petroleum Resources Geological Survey Branch Regional Geochemical Survey Digital Data.

British Columbia Ministry of Energy, Mines and Petroleum Resources Mineral Tiles Online March 13, 2013: http://www.empr.gov.bc.ca/Titles/Mineral Titles/mto/Pages/default.aspx

Blackwell, J.K., Black, E., Skinner, T., (2012), Assessment report on the 2011 Activities on the the Woodjam North Property; submitted for Gold Fields Horsefly Exploration Corporation, *BC Ministry of Energy and Mines*, AR33193, 1560 pages.

Cole, D., and Robertson, S., 1997, Geochemical, Geophysical, and Drill Report On The Shik 1-7 And R.G. #1 Claims Cariboo Mining Division British Columbia NTS 93A/6 52°28'N 120°28'W: Internal report prepared for Imperial Metals Corporation.

Durfeld, R.M., 1988, Geological Report on the RedGold Property (J.W. Morton and R.M. Durfeld): Assessment Report 17645.

Durfeld, R.M., 2000, Geophysical Report (Ground Magnetic) on the RedGold Porphyry Copper-Gold Prospect (RedGold Resources Ltd.): Assessment Report 26188.

Durfeld, R.M., 2001, Geological and Geochemical Report on the RedGold Porphyry Copper-Gold Prospect (RedGold Resources Ltd.): Assessment Report 26746.

Durfeld, R.M., 2005, Geological and Trenching Report on the RedGold Porphyry Copper-Gold Project (RedGold Resources Ltd.): Assessment Report 27767.

Environment Canada 2011, National Climate Data Information Archive January 15: http://www.climate.weatheroffice.gc.ca/climateData

Fox, P.E., 1980, Diamond Drilling Report SL Mineral Claims (Terramar Resource Corp.): Assessment Report 08260.

Fox, P.E., 1991, Diamond Drilling on the RedGold Property (Phelps Dodge Corporation of Canada Ltd.): Assessment Report 20930.

Fox, P.E., and Konst, R.A., 1990, Geochemical and Geological Report on the Shik and RedGold Claims Including Soil Sampling, IP/Resistivity, Ground Magnetics and Diamond Drilling (Phelps Dodge Corporation of Canada Ltd.): Assessment Report 19803.

Fox, P.E., and Goodall, G.N., 1992, Diamond Drilling on the RedGold Property (Phelps Dodge Corporation of Canada Ltd.): Assessment Report 22104.

Fraser, T.M., Stanley, C.R., Nikic, Z.T., Pesalj, R., and Gorc, D., 1995, The Mount Polley Alkalic Porphyry Copper-Gold Deposit, South-Central British Columbia: CIM Special Volume 46, Porphyry Deposits of the Northwestern Cordillera of North America, Editor T.G. Schroeter.

Gill, R., et. al., (2011): National Instrument 43-101 Technical Report on Pre-Feasibility Study on the Galore Creek Project, Liard Mining Division, British Columbia, 380 pages.

Laird, B., 2010, Technical Report on 2010 Activities on the Woodjam South Property (Gold Fields Horsefly Exploration Corp.): National Instrument 43-101 Technical Report.

Lesage, G., (2012), Assessment Report on 2011 Activities on the RedGold Property; submitted for Gold Fields Horsefly Exploration Corporation and RedGold Resources Ltd.,*BC Ministry of Energy and Mines*, AR32975, 755 pages.

Lett, R., 2010, Geochemical Exploration Pathfinders to Drift Covered Copper-Gold Sulphide Mineralization in Central British Columbia: British Columbia Geological Survey Open File 2010-09.

McAndless, P., 1996, Report on the Airborne Geophysical Survey, Giant Copper, RedGold and Shiko Lake Properties (Imperial Metals Corp.): Assessment Report 24630.

Morton, J.W., 1989, Geochemical Report on the Shik Mineral Claims Including Rock and Soil Sampling (J.W. Morton and R.M. Durfeld): Assessment Report 18837.

Morton, J.W., 2003, Prospecting and Geological Reconnaissance on the RedGold Property (RedGold Resources Ltd.): Assessment Report 27046.

Morton, J.W., Durfeld, R.M., 1999, Summary Report on the RedGold Porphyry Copper-Gold Project (RedGold Resources Ltd.): Assessment Report 25867.

Panteleyev, A., 1988, Quesnel Mineral Belt; Summary of the Geology of the Beaver Creek-Horsefly River Map Area: British Columbia Ministry of Energy, Mines, and Petroleum Resources, Geological Fieldwork, 1988 Paper 1989-1, p. 159–166,

Peters, L., 2008, Technical Report including an IP Survey on the Woodjam Property (Fjordland Exploration Inc.): Assessment Report 30366.

Peters, L., 2009, Diamond Drilling on the Woodjam Property (Fjordland Exploration Inc.): Assessment Report 30637.

Petsel, S.A., 2006, Rock and Soil Sampling Survey Assessment Report on the Shiko Lake Property (NovaGold Canada Inc.): Assessment Report 28661.

Petsel, S.A., and Wikjord, T., 2008, Diamond Drilling and Geophysical Report on the Shiko Lake Property (NovaGold Canada Inc.): Assessment Report 29999.

Rainbow, A., (2012), Assessment Report on 2011 Activities on the Woodjam South Property; submitted for Gold Fields Horsefly Exploration Corporation, *BC Ministry of Energy and Mines*, AR33317.

Robertson, S.B., Cole, D.I.R., 1997, Geochemical, Geophysical and Drill Report on the RedGold Property (Imperial Metals Corp.): Assessment Report 24865.

Skinner, T. (2010): Assessment Report on 2009 Activities on the Woodjam North Property MTO Events #4476871 and 4476872; submitted for Gold Fields Horsefly Exploration Corporation and Woodjam Joint Venture (Fjordland Exploration Inc and Cariboo Rose Resources Ltd.), *BC Ministry of Energy and Mines*, AR31545, 1592 pages.

Skinner, T. (2011): Assessment Report on 2010 Activities on the Woodjam North Property; submitted for Gold Fields Horsefly Exploration Corporation and Woodjam Joint Venture (Fjordland Exploration Inc and Cariboo Rose Resources Ltd), *BC Ministry of Energy and Mines*, AR32302, 2797 pages.

22.0 AUTHOR'S STATEMENT OF QUALIFICATIONS

22.1 Certificate of Qualifications – Matthew Eckfeldt

I, Matthew Eckfeldt, do certify that:

1. I completed a Bachelor of Science Degree in Geology from the University of Calgary in Calgary AB in 2008;

2. I was engaged as a geologist continuously from April 2008 to September 2010. From September 2010 until April 2012 I worked part-time as a geologist and was also a part-time student. I have engaged as a geologist continuously from April 2012 until the present;

3. I have worked on the data from the RedGold Property from April 2012 to present, and am currently employed as a geologist with Gold Fields Canada Exploration. I have not worked on this property prior to April 2012;

4. I am employed as a geologist by Gold Fields Canada Exploration BV., a related company to Gold Fields Horsefly Exploration Corp., the corporate entity in charge of conducting mineral exploration on the RedGold Option. I am not a director or officer and I do not beneficially hold any shares of the joint venture partner RedGold Resources Ltd.;

5. I am responsible for the writing all sections except for the "Data Verification" and "Sample Preparation, Analyses, and Security" sections of the report titled "2012 ASSESSEMENT REPORT REDGOLD PROPERTY Including Soil Geochemistry, Geological Mapping, Surface Rock Sampling, Trenching, IP, And Diamond Drilling", dated June 3, 2013, based on my professional experience, a review of relevant reports and maps made available to me from government and corporate sources.

6. I hold no direct interest in the RedGold Property as a result of any prior involvement with the Property;

7. I am not aware of any material fact or material change with respect to the subject matter of the Report that is not disclosed in the Report which, by its omission, makes the Report misleading.

Respectfully submitted this 31st day of May, 2013,

(s) "Matthew Eckfeldt"

_____

Matthew Eckfeldt, B.Sc.

22.2 Certificate of Qualifications – Julianne Madsen

I, Julianne Madsen, do certify that:

1. I am a Senior Geologist and Database Administrator with Gold Fields Canada Exploration BV, part of the Gold Fields Group of Companies, #706-1155 Robson Street Vancouver British Columbia V6E 1B5;

2. I obtained a Bachelor of Science Degree (Hons.) in Earth Sciences from the University of Victoria in 2001.

3. I obtained a M.Sc. In Earth Sciences from Simon Fraser University in December 2004.

4. I have been employed in the geological community continuously since 2005, and was periodically employed in the field of geology while completing University between 2000-2004. I have worked in Yukon Territory, Nunavut, and British Columbia, and have experience with placer, orogenic, and porphyry Au-Cu deposits.

5. I am a P. Geo in good standing of the Association of Professional Engineers and Geoscientists of British Columbia (#150585) as of 21 May 2013.

6. I am responsible for the writing the "Data Verification" and "Sample Preparation, Analyses, and Security" sections of the report titled "2012 ASSESSEMENT REPORT REDGOLD PROPERTY Including Soil Geochemistry, Geological Mapping, Surface Rock Sampling, Trenching, IP, And Diamond Drilling", dated June 3, 2013, based on my professional experience, a review of relevant reports and maps made available to me from government and corporate sources.

7. I am not aware of any material fact or material change with respect to the subject matter of the report that is not disclosed in the report which, by its omission, makes the report misleading;

8. I am not a director nor officer nor do I beneficially hold a number of shares in Gold Fields or individual (s) associated with the Agreement; and of the joint venture partner RedGold Resources Ltd.

9. I hold no direct interest in the RedGold Property as a result of any prior involvement with the Property.

Respectfully submitted this 31st day of May, 2013.

(s) "Julianne Madsen"

_____

Julianne Madsen, M.Sc., P.Geo

APPENDIX 01: Ah and Ch Sample Descriptions

RedGold Charcoal Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
N047501	2012	604003.2	5813813	Charcoal	Ah	Forest	HillShallow	2	Black	Charcoal
N047502	2012	604037.8	5813796	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047503	2012	604065	5813777	Charcoal	Ah	Forest	HillShallow	10	Black	Charcoal
N047504	2012	604089.9	5813764	Charcoal	Ah	Forest	HillShallow	10	Black	Charcoal
N047505	2012	604110.7	5813786	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047506	2012	604144.8	5813788	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047507	2012	604166.5	5813796	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047508	2012	604181.5	5813787	Charcoal	Ah	Forest	Flat	0	Black	Charcoal
N047509	2012	604221	5813809	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047510	2012	604234.6	5813785	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047511	2012	604254.3	5813792	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047512	2012	604285.6	5813792	Charcoal	Ah	Forest	HillShallow	10	Black	Charcoal
N047513	2012	604309.2	5813795	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047514	2012	604344.6	5813771	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047515	2012	604354.3	5813815	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047516	2012	604375.8	5813796	Charcoal	Ah	Forest	HillShallow	2	Black	Charcoal
N047517	2012	604420.8	5813804	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047518	2012	604434.3	5813801	Charcoal	Ah	Forest	Flat	0	Black	Charcoal
N047519	2012	604464.2	5813799	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047520	2012	604488.7	5813805	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047521	2012	604503.8	5813802	Charcoal	Ah	Forest	Flat	0	Black	Charcoal
N047522	2012	604544.2	5813799	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047523	2012	604571.1	5813801	Charcoal	Ah	Forest	HillShallow	10	Black	Charcoal
N047524	2012	604592.2	5813795	Charcoal	Ah	Forest	HillShallow	10	Black	Charcoal
N047525	2012	604591.4	5813808	Charcoal	Ah	Forest	HillShallow	10	Black	Charcoal
N047526	2012	604600.6	5813807	Charcoal	B	Forest	HillShallow	12	Blue	Charcoal
N047527	2012	604629.8	5813811	Charcoal	Ah	Forest	Flat	0	Black	Charcoal
N047528	2012	604659.9	5813807	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047529	2012	604684	5813808	Charcoal	B	Forest	HillShallow	5	Black	Charcoal
N047530	2012	604711	5813809	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047531	2012	604742.4	5813801	Charcoal	Ah	Forest	HillShallow	15	Black	Charcoal
N047532	2012	604763.3	5813812	Charcoal	Ah	Forest	HillSteep	10	Black	Charcoal
N047533	2012	604794.8	5813785	Charcoal	Ah	Forest	Flat	0	Black	Charcoal

RedGold Charcoal Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
N047534	2012	604813.9	5813801	Charcoal	Ah	Forest	Flat	0	Black	Charcoal
N047535	2012	604965.5	5813605	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047536	2012	604927.3	5813608	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047537	2012	604907	5813602	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047538	2012	604885	5813593	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047539	2012	604857.1	5813592	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047540	2012	604792.6	5813602	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047541	2012	604787.7	5813598	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047542	2012	604765.8	5813607	Charcoal	Ah	CutBlock	HillSteep	5	Black	Charcoal
N047543	2012	604747	5813602	Charcoal	Ah	CutBlock	HillSteep	5	Black	Charcoal
N047544	2012	604714.2	5813605	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047545	2012	604691.2	5813595	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047546	2012	604659	5813609	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047547	2012	604637.7	5813608	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047548	2012	604612.9	5813610	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047549	2012	604598.9	5813603	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047550	2012	604592	5813610	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047551	2012	604557.7	5813604	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047552	2012	604540	5813603	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047553	2012	604512	5813601	Charcoal	Ah	Forest	HillShallow	15	Black	Charcoal
N047554	2012	604457.1	5813614	Charcoal	Ah	Forest	HillShallow	10	Black	Charcoal
N047555	2012	604460.3	5813604	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047556	2012	604433.5	5813610	Charcoal	Ah	Forest	Flat	0	Black	Charcoal
N047557	2012	604400	5813607	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047558	2012	604378.4	5813595	Charcoal	Ah	Forest	HillShallow	10	Black	Charcoal
N047559	2012	604337.9	5813590	Charcoal	Ah	Forest	HillShallow	10	Black	Charcoal
N047560	2012	604331.5	5813591	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047561	2012	604300.8	5813619	Charcoal	Ah	Forest	Flat	0	Black	Charcoal
N047562	2012	604284.6	5813609	Charcoal	Ah	Forest	Flat	0	Black	Charcoal
N047563	2012	604260	5813617	Charcoal	Ah	Forest	HillShallow	15	Black	Charcoal
N047564	2012	604243.1	5813613	Charcoal	Ah	Forest	HillShallow	10	Black	Charcoal
N047565	2012	604221.5	5813611	Charcoal	Ah	Forest	Flat	0	Black	Charcoal
N047566	2012	604148.4	5813610	Charcoal	Ah	Forest	Flat	0	Black	Charcoal

RedGold Charcoal Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
N047567	2012	604149.9	5813612	Charcoal	Ah	Forest	Flat	0	Black	Charcoal
N047568	2012	604129.5	5813598	Charcoal	Ah	Forest	Flat	0	Black	Charcoal
N047569	2012	604957.2	5813397	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047570	2012	604927.8	5813398	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047571	2012	604904.5	5813399	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047572	2012	604883.8	5813404	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047573	2012	604852.3	5813408	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047574	2012	604838.7	5813420	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047575	2012	604839.3	5813419	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047576	2012	604820.2	5813407	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047577	2012	604787	5813396	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047578	2012	604760	5813401	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047579	2012	604731.7	5813404	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047580	2012	604711.7	5813408	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047581	2012	604691.5	5813406	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047582	2012	604670.4	5813404	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047583	2012	604630.9	5813413	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047584	2012	604615.3	5813400	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047585	2012	604584.7	5813396	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047586	2012	604569.4	5813408	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047587	2012	604539	5813406	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047588	2012	604507	5813406	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047589	2012	604481.4	5813407	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047590	2012	604457.7	5813401	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047591	2012	604436.6	5813403	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047592	2012	604407.6	5813404	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047593	2012	604385.6	5813415	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047594	2012	604369.9	5813399	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047595	2012	604333.1	5813412	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047596	2012	604304.3	5813402	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047597	2012	604358.4	5813201	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047598	2012	604386.2	5813199	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047599	2012	604420.2	5813202	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal

RedGold Charcoal Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
N047600	2012	604420.5	5813202	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047601	2012	604443.7	5813200	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047602	2012	604460.4	5813205	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047603	2012	604489.3	5813206	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047604	2012	604512.8	5813200	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047605	2012	604530.2	5813220	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047606	2012	604560	5813211	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047607	2012	604585.9	5813192	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047608	2012	604614.9	5813207	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047609	2012	604634.8	5813202	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047610	2012	604657.9	5813199	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047611	2012	604691.7	5813197	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047612	2012	604718.1	5813201	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047613	2012	604729.6	5813194	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047614	2012	604766.6	5813202	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047615	2012	604789.9	5813208	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047616	2012	604812.8	5813200	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047617	2012	604833.6	5813215	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047618	2012	604867.6	5813196	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047619	2012	604888.7	5813193	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047620	2012	604910	5813206	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047621	2012	604944.4	5813206	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047622	2012	604959.2	5813192	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047623	2012	604993	5813200	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047624	2012	605006.8	5813209	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047625	2012	605012.2	5813210	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047626	2012	605042.3	5813222	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047627	2012	605063.2	5813221	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047628	2012	605091.5	5813212	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047629	2012	605115.9	5813217	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047630	2012	605137.1	5813212	Charcoal	Ah	CutBlock	Flat	0	Blue	Charcoal
N047631	2012	605169.4	5813200	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047632	2012	605194.2	5813195	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal

RedGold Charcoal Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
N047633	2012	605210.6	5813194	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047634	2012	605231.6	5813200	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047635	2012	605272.1	5813202	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047636	2012	605290.3	5813200	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047637	2012	605305.8	5813207	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047638	2012	605332.3	5813193	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047639	2012	605356.4	5813198	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047640	2012	605395	5813190	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047641	2012	605405.4	5813190	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047642	2012	605438.2	5813194	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047643	2012	605444.5	5813001	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047644	2012	605410.8	5812982	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047645	2012	605374.3	5812996	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047646	2012	605370	5812994	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047647	2012	605353	5812999	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047648	2012	605304.1	5813002	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047649	2012	605283	5813001	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047650	2012	605278	5813002	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047651	2012	605210.8	5813010	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047652	2012	605176.5	5812995	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047653	2012	605156.7	5813000	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047654	2012	605145.1	5812999	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047655	2012	605114.7	5813000	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047656	2012	605091.1	5813007	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047657	2012	605060.8	5812995	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047658	2012	605043.5	5813007	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047659	2012	605014.9	5813001	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047660	2012	604964.5	5812997	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047661	2012	604928.7	5813001	Charcoal	Ah	CutBlock	HillShallow	0	Black	Charcoal
N047662	2012	604899.3	5812994	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047663	2012	604690.9	5812990	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047664	2012	604656.8	5812988	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047665	2012	604640.1	5812998	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal

RedGold Charcoal Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
N047666	2012	604609.5	5813013	Charcoal	Ah	CutBlock	HillShallow	20	Black	Charcoal
N047667	2012	604593.6	5813007	Charcoal	Ah	CutBlock	HillShallow	20	Black	Charcoal
N047668	2012	604560.1	5813007	Charcoal	Ah	CutBlock	HillShallow	20	Black	Charcoal
N047669	2012	604537.3	5812991	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047670	2012	604513.3	5813002	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047671	2012	604491.1	5812995	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047672	2012	604449.6	5812994	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047673	2012	604434.8	5812996	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047674	2012	605410.8	5812800	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047675	2012	605412.2	5812803	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047676	2012	605386.7	5812791	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047677	2012	605356.3	5812793	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047678	2012	605334.9	5812804	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047679	2012	605303.5	5812811	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047680	2012	605294.4	5812802	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047681	2012	605255.4	5812800	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047682	2012	605229	5812805	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047683	2012	605213.5	5812794	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047684	2012	605185.7	5812791	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047685	2012	605155.9	5812792	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047686	2012	605133.7	5812802	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047687	2012	605118.7	5812800	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047688	2012	605080.8	5812800	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047689	2012	605055.1	5812793	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047690	2012	605030.3	5812800	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047691	2012	605012.9	5812814	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047692	2012	604976.5	5812799	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047693	2012	604956.8	5812808	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047694	2012	604936	5812813	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047695	2012	604901.9	5812802	Charcoal	Ah	CutBlock	HillShallow	20	Black	Charcoal
N047696	2012	604879.6	5812812	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047697	2012	604861.8	5812801	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047698	2012	604832.6	5812797	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal

RedGold Charcoal Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
N047699	2012	604815.3	5812810	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047700	2012	604813.7	5812805	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047701	2012	604786.5	5812808	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047702	2012	604755.2	5812803	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047703	2012	604736.1	5812803	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047704	2012	604713.2	5812825	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047705	2012	604689.4	5812801	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047706	2012	602978.5	5812779	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047707	2012	603014.9	5812762	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047708	2012	603040.1	5812777	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047709	2012	603098	5812785	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047710	2012	603104.9	5812793	Charcoal	Ah	CutBlock	HillShallow	20	Black	Charcoal
N047711	2012	603130.3	5812791	Charcoal	Ah	CutBlock	HillShallow	20	Black	Charcoal
N047712	2012	603404.8	5812836	Charcoal	Ah	Forest	HillShallow	10	Black	Charcoal
N047713	2012	603430.9	5812803	Charcoal	Ah	Forest	HillSteep	30	Black	Charcoal
N047714	2012	603535.2	5812811	Charcoal	Ah	Forest	Flat	0	Black	Charcoal
N047715	2012	603562.5	5812819	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047716	2012	603617.9	5812820	Charcoal	Ah	Forest	Flat	0	Black	Charcoal
N047717	2012	603638.4	5812835	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047718	2012	603661.2	5812834	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047719	2012	603686	5812825	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047720	2012	603721.2	5812816	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047721	2012	603735.7	5812816	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047722	2012	603843.4	5812805	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047723	2012	603868.3	5812798	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047724	2012	603894.9	5812790	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047725	2012	603899.4	5812787	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047726	2012	603884.5	5812995	Charcoal	Ah	CutBlock	HillSteep	30	Black	Charcoal
N047727	2012	603843	5812990	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047728	2012	603845.1	5812984	Charcoal	Ah	Swamp	Flat	0	Black	Charcoal
N047729	2012	603807.6	5813000	Charcoal	Ah	Swamp	Flat	0	Black	Charcoal
N047730	2012	603755.4	5812994	Charcoal	Ah	Forest	HillShallow	5	Black	Charcoal
N047731	2012	603658.1	5813001	Charcoal	Ah	Forest	HillShallow	10	Black	Charcoal

RedGold Charcoal Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
N047732	2012	603644.3	5812991	Charcoal	Ah	Forest	HillShallow	10	Black	Charcoal
N047733	2012	603611	5813015	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047734	2012	603582.4	5813001	Charcoal	Ah	Forest	HillShallow	10	Black	Charcoal
N047735	2012	603561	5813001	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047736	2012	603508.4	5812999	Charcoal	Ah	Forest	HillShallow	10	Black	Charcoal
N047737	2012	603483.2	5812996	Charcoal	Ah	Forest	HillShallow	15	Black	Charcoal
N047738	2012	603012	5813008	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047739	2012	602990.5	5812998	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047740	2012	602953.7	5813007	Charcoal	Ah	CutBlock	HillShallow	20	Black	Charcoal
N047741	2012	602926.2	5813005	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047742	2012	602912.6	5813007	Charcoal	Ah	CutBlock	HillShallow	20	Black	Charcoal
N047743	2012	602887.2	5813005	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047744	2012	602854.3	5812986	Charcoal	Ah	CutBlock	HillShallow	15	Black	Charcoal
N047745	2012	602838.7	5812987	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047746	2012	602804.7	5813012	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047747	2012	602780.3	5813005	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047748	2012	603731.8	5813197	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047749	2012	603713.6	5813195	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047750	2012	603709.6	5813196	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047751	2012	603681.8	5813191	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047752	2012	603658.2	5813211	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047753	2012	603634.3	5813201	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047754	2012	603582.7	5813178	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047755	2012	603556.4	5813177	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047756	2012	603535.5	5813166	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047757	2012	603510.7	5813174	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047758	2012	603484.4	5813165	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047759	2012	603459.1	5813190	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047760	2012	603344.6	5813169	Charcoal	Ah	Forest	HillShallow	15	Black	Charcoal
N047761	2012	603334.3	5813204	Charcoal	Ah	Forest	HillShallow	15	Black	Charcoal
N047762	2012	603325	5813183	Charcoal	Ah	Forest	HillShallow	10	Black	Charcoal
N047763	2012	603110.7	5813187	Charcoal	Ah	Forest	HillShallow	10	Black	Charcoal
N047764	2012	602908.8	5813186	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal

RedGold Charcoal Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
N047765	2012	602884.6	5813183	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047766	2012	602860.3	5813179	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047767	2012	602837.2	5813190	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047768	2012	602805	5813189	Charcoal	Ah	CutBlock	HillShallow	20	Black	Charcoal
N047769	2012	602784	5813186	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047770	2012	602758.9	5813200	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047771	2012	602734.6	5813200	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047772	2012	602656.9	5813207	Charcoal	Ah	CutBlock	Flat	0	Black	Charcoal
N047773	2012	602636.5	5813207	Charcoal	Ah	CutBlock	HillShallow	5	Black	Charcoal
N047774	2012	602611.2	5813206	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal
N047775	2012	602610.3	5813204	Charcoal	Ah	CutBlock	HillShallow	10	Black	Charcoal

RedGold Ah Soil Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
M993801	2012	604003.7935	5813812.246	SOIL	Ah	Forest	HillShallow	2	Black	LOAM
M993802	2012	604022.3543	5813807.633	SOIL	Ah	Forest	HillShallow	5	Black	LOAM
M993803	2012	604050.3365	5813770.023	SOIL	Ah	Forest	HillSteep	10	Black	LOAM
M993804	2012	604082.1639	5813791.468	SOIL	Ah	Forest	HillShallow	10	Brown- Chocolate	LOAM
M993805	2012	604105.8874	5813778.433	SOIL	Ah	Forest	HillShallow	5	Brown- Chocolate	LOAM
M993806	2012	604146.8783	5813795.067	SOIL	Ah	Forest	HillShallow	10	Brown- Chocolate	LOAM
M993807	2012	604171.7717	5813790.959	SOIL	Ah	Forest	HillSteep	5	Brown- Chocolate	LOAM
M993808	2012	604185.2233	5813802.928	SOIL	Ah	Forest	Flat	0	Brown- Chocolate	LOAM
M993809	2012	604215.5946	5813796.896	SOIL	Ah	Forest	HillShallow	5	Brown- Chocolate	LOAM
M993810	2012	604243.6573	5813798.234	SOIL	Ah	Forest	HillShallow	5	Brown- Chocolate	LOAM
M993811	2012	604264.5881	5813794.042	SOIL	Ah	Forest	HillShallow	5	Brown- Chocolate	LOAM
M993812	2012	604282.2966	5813797.571	SOIL	Ah	Forest	HillShallow	10	Brown- Chocolate	LOAM
M993813	2012	604310.2736	5813797.61	SOIL	Ah	Forest	HillShallow	5	Brown- Chocolate	LOAM
M993814	2012	604343.8772	5813794.059	SOIL	Ah	Forest	HillShallow	5	Brown- Chocolate	LOAM
M993815	2012	604355.6785	5813798.389	SOIL	Ah	Forest	HillShallow	5	Brown- Chocolate	LOAM
M993816	2012	604377.4893	5813806.086	SOIL	Ah	Forest	HillShallow	2	Brown- Chocolate	LOAM
M993817	2012	604416.4435	5813811.922	SOIL	Ah	Forest	HillShallow	5	Brown- Chocolate	LOAM
M993818	2012	604440.3312	5813801.859	SOIL	Ah	Forest	Flat	0	Brown- Chocolate	LOAM
M993819	2012	604465.3026	5813799.424	SOIL	Ah	Forest	HillShallow	5	Brown- Chocolate	LOAM
M993820	2012	604485.3833	5813808.567	SOIL	Ah	Forest	HillShallow	5	Brown- Chocolate	LOAM
M993821	2012	604508.7275	5813802.759	SOIL	Ah	Forest	Flat	0	Brown- Chocolate	LOAM
M993822	2012	604533.5147	5813803.658	SOIL	Ah	Forest	HillShallow	5	Brown- Chocolate	LOAM
M993823	2012	604567.9676	5813792.152	SOIL	Ah	Forest	HillShallow	10	Brown- Chocolate	LOAM
M993824	2012	604591.0696	5813803.03	SOIL	Ah	Forest	HillShallow	10	Brown- Chocolate	LOAM
M993825	2012	604591.7384	5813798.222	SOIL	Ah	Forest	HillShallow	10	Brown- Chocolate	LOAM
M993826	2012	604611.2134	5813809.208	SOIL	Ah	Forest	HillShallow	12	Brown- Chocolate	LOAM
M993827	2012	604638.7587	5813802.934	SOIL	Ah	Forest	Flat	0	Brown- Chocolate	LOAM
M993828	2012	604661.2922	5813792.658	SOIL	Ah	Forest	HillShallow	5	Brown- Chocolate	LOAM
M993829	2012	604678.6198	5813803.413	SOIL	Ah	Forest	HillShallow	5	Brown- Chocolate	LOAM
M993830	2012	604712.9965	5813800.808	SOIL	Ah	Forest	HillShallow	5	Brown- Chocolate	LOAM
M993831	2012	604736.4502	5813795.189	SOIL	Ah	Forest	HillShallow	15	Brown- Chocolate	LOAM
M993832	2012	604763.0656	5813805.957	SOIL	Ah	Forest	HillShallow	15	Brown- Chocolate	LOAM
M993833	2012	604793.2675	5813781.38	SOIL	Ah	Forest	Flat	0	Brown- Chocolate	LOAM

RedGold Ah Soil Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
M993834	2012	604813.2195	5813801.835	SOIL	Ah	Forest	Flat	0	Brown- Chocolate	LOAM
M993835	2012	604961.3352	5813597.293	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993836	2012	604928.9179	5813608.839	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993837	2012	604909.9653	5813599.903	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993838	2012	604882.5747	5813593.569	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993839	2012	604859.7073	5813592.895	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993840	2012	604795.776	5813600.245	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993841	2012	604781.7164	5813600.873	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993842	2012	604760.0011	5813599.296	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993843	2012	604737.601	5813603.269	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993844	2012	604712.4875	5813606.999	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993845	2012	604689.7942	5813598.169	SOIL	Ah	CutBlock	HillShallow	10	Brown- Chocolate	LOAM
M993846	2012	604658.4362	5813607.886	SOIL	Ah	CutBlock	HillShallow	10	Brown- Chocolate	LOAM
M993847	2012	604630.3909	5813610.997	SOIL	Ah	CutBlock	HillShallow	10	Brown- Chocolate	LOAM
M993848	2012	604610.324	5813606.489	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993849	2012	604596.8043	5813603.048	SOIL	Ah	CutBlock	HillShallow	10	Brown- Chocolate	LOAM
M993850	2012	604597.0109	5813603.98	SOIL	Ah	CutBlock	HillShallow	10	Brown- Chocolate	LOAM
M993851	2012	604558.4714	5813605.199	SOIL	Ah	CutBlock	HillShallow	15	Brown- Chocolate	LOAM
M993852	2012	604534.4758	5813604.316	SOIL	Ah	CutBlock	HillShallow	15	Brown- Chocolate	LOAM
M993853	2012	604509.8482	5813601.196	SOIL	Ah	Forest	HillShallow	10	Brown- Chocolate	LOAM
M993854	2012	604486.1121	5813609.407	SOIL	Ah	Forest	HillShallow	10	Brown- Chocolate	LOAM
M993855	2012	604460.2786	5813604.406	SOIL	Ah	Forest	HillShallow	5	Brown- Chocolate	LOAM
M993856	2012	604431.9951	5813608.069	SOIL	Ah	Forest	Flat	0	Brown- Chocolate	LOAM
M993857	2012	604403.2965	5813599.299	SOIL	Ah	Forest	HillShallow	5	Brown- Chocolate	LOAM
M993858	2012	604377.513	5813597.267	SOIL	Ah	Forest	HillShallow	10	Brown- Chocolate	LOAM
M993859	2012	604345.7808	5813587.319	SOIL	Ah	Forest	HillShallow	10	Brown- Chocolate	LOAM
M993860	2012	604332.0767	5813587.213	SOIL	Ah	Forest	HillShallow	5	Black	LOAM
M993861	2012	604314.0534	5813593.136	SOIL	Ah	Forest	Flat	0	Brown- Chocolate	LOAM
M993862	2012	604284.2803	5813608.266	SOIL	Ah	Forest	Flat	0	Brown- Chocolate	LOAM
M993863	2012	604254.146	5813613.746	SOIL	Ah	Forest	HillShallow	15	Brown- Chocolate	LOAM
M993864	2012	604243.6595	5813611.483	SOIL	Ah	Forest	HillShallow	10	Brown- Chocolate	LOAM
M993865	2012	604220.4723	5813609.878	SOIL	Ah	Forest	Flat	0	Brown- Chocolate	LOAM
M993866	2012	604181.4779	5813600.519	SOIL	Ah	Forest	Flat	0	Brown- Chocolate	LOAM

RedGold Ah Soil Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
M993867	2012	604152.4091	5813609.175	SOIL	Ah	Forest	Flat	0	Brown- Chocolate	LOAM
M993868	2012	604133.7477	5813602.474	SOIL	Ah	Forest	Flat	0	Brown- Chocolate	LOAM
M993869	2012	604961.1074	5813396.071	SOIL	Ah	CutBlock	HillShallow	10	Brown- Chocolate	LOAM
M993870	2012	604933.2095	5813397.514	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993871	2012	604907.9396	5813397.901	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993872	2012	604884.7561	5813406.678	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993873	2012	604858.4633	5813407.229	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993874	2012	604836.1675	5813411.575	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993875	2012	604837.6055	5813407.896	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993876	2012	604811.2232	5813407.333	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993877	2012	604783.7577	5813399.143	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993878	2012	604761.1658	5813401.443	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993879	2012	604729.6408	5813402.995	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993880	2012	604715.2593	5813408.066	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993881	2012	604686.8349	5813407.646	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993882	2012	604664.8844	5813406.436	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993883	2012	604636.1362	5813405.266	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993884	2012	604609.1048	5813408.585	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993885	2012	604584.4645	5813406.02	SOIL	Ah	CutBlock	HillShallow	10	Brown- Chocolate	LOAM
M993886	2012	604567.0786	5813403.238	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993887	2012	604537.1599	5813398.521	SOIL	Ah	CutBlock	HillShallow	15	Brown- Chocolate	LOAM
M993888	2012	604507.8258	5813398.267	SOIL	Ah	CutBlock	HillShallow	10	Brown- Chocolate	LOAM
M993889	2012	604487.1183	5813407.841	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993890	2012	604460.0776	5813400.96	SOIL	Ah	CutBlock	HillSteep	15	Brown- Chocolate	LOAM
M993891	2012	604435.8033	5813402.483	SOIL	Ah	CutBlock	HillShallow	15	Brown- Chocolate	LOAM
M993892	2012	604410.8023	5813406.217	SOIL	Ah	CutBlock	HillShallow	10	Brown- Chocolate	LOAM
M993893	2012	604385.7766	5813416.441	SOIL	Ah	CutBlock	HillShallow	5	Black	SILT
M993894	2012	604371.2472	5813401.852	SOIL	Ah	Forest	HillShallow	5	Black	SILT
M993895	2012	604331.0539	5813406.19	SOIL	Ah	Forest	HillSteep	5	Black	SILT
M993896	2012	604311.8997	5813401.332	SOIL	Ah	Forest	HillShallow	5	Black	SILT
M993897	2012	604359.4647	5813199.458	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993898	2012	604383.291	5813197.739	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993899	2012	604415.1794	5813200.457	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM

RedGold Ah Soil Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
M993900	2012	604420.9543	5813200.58	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993901	2012	604437.5033	5813194.812	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993902	2012	604463.8922	5813205.759	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993903	2012	604487.026	5813209.961	SOIL	Ah	CutBlock	HillShallow	15	Brown- Chocolate	LOAM
M993904	2012	604507.5646	5813208.358	SOIL	Ah	CutBlock	HillShallow	15	Brown- Chocolate	LOAM
M993905	2012	604535.9097	5813201.914	SOIL	Ah	CutBlock	HillShallow	10	Brown- Chocolate	LOAM
M993906	2012	604560.7473	5813200.589	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993907	2012	604584.7172	5813202.768	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993908	2012	604611.8747	5813198.896	SOIL	Ah	CutBlock	HillShallow	10	Brown- Chocolate	LOAM
M993909	2012	604638.7703	5813196.688	SOIL	Ah	CutBlock	HillShallow	10	Brown- Chocolate	LOAM
M993910	2012	604662.577	5813195.897	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993911	2012	604691.499	5813194.289	SOIL	Ah	CutBlock	HillShallow	5	Brown- Chocolate	LOAM
M993912	2012	604713.6873	5813200.325	SOIL	Ah	CutBlock	HillShallow	10	Brown- Chocolate	LOAM
M993913	2012	604737.4599	5813195.825	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993914	2012	604759.9681	5813202.797	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993915	2012	604788.3239	5813201.176	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993916	2012	604816.8532	5813207.349	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993917	2012	604840.4611	5813205.257	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993918	2012	604862.9945	5813205.738	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993919	2012	604887.9408	5813194.032	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993920	2012	604909.2967	5813201.906	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993921	2012	604936.5146	5813205.826	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993922	2012	604961.9406	5813208.781	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993923	2012	604985.4512	5813205.945	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993924	2012	605012.84	5813212.466	SOIL	Ah	CutBlock	HillShallow	15	Brown- Chocolate	LOAM
M993925	2012	605006.9201	5813213.823	SOIL	Ah	CutBlock	HillShallow	15	Brown- Chocolate	LOAM
M993926	2012	605035.6575	5813215.55	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993927	2012	605061.1112	5813217.208	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993928	2012	605092.0733	5813210.267	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993929	2012	605112.0023	5813210.694	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993930	2012	605136.7367	5813203.62	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993931	2012	605162.089	5813194.148	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993932	2012	605191.6549	5813194.226	SOIL	Ah	CutBlock	Flat	0	Black	LOAM

RedGold Ah Soil Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
M993933	2012	605214.7148	5813196.574	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993934	2012	605236.4994	5813195.001	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993935	2012	605261.5795	5813203.514	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993936	2012	605290.1541	5813202.272	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993937	2012	605312.8525	5813200.348	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993938	2012	605338.1991	5813196.441	SOIL	Ah	CutBlock	Flat	0	Brown- Chocolate	LOAM
M993939	2012	605362.1015	5813191.205	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993940	2012	605389.7247	5813186.791	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993941	2012	605411.5908	5813186.704	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993942	2012	605436.1785	5813186.49	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993943	2012	605439.7016	5812996.105	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M993944	2012	605407.5914	5812998.382	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M993945	2012	605389.5189	5813001.147	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993946	2012	605360.0791	5812995.137	SOIL	Ah	CutBlock	HillShallow	5	Black	LOAM
M993947	2012	605336.76	5812994.265	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M993948	2012	605305.4625	5812995.634	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M993949	2012	605286.073	5812991.138	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993950	2012	605285.0976	5812989.077	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993951	2012	605212.4145	5812997.348	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M993952	2012	605185.0466	5812995.092	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M993953	2012	605158.9781	5813006.217	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M993954	2012	605137.3914	5813009.093	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M993955	2012	605111.7081	5813002.238	SOIL	Ah	CutBlock	HillShallow	15	Black	LOAM
M993956	2012	605085.3774	5813004.456	SOIL	Ah	CutBlock	HillShallow	15	Black	LOAM
M993957	2012	605061.5696	5813005.244	SOIL	Ah	CutBlock	HillSteep	10	Black	LOAM
M993958	2012	605034.6111	5813005.038	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993959	2012	605008.892	5812999.852	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993960	2012	604956.2561	5812997.799	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993961	2012	604933.5728	5812998.983	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993962	2012	604907.1566	5812999.902	SOIL	Ah	CutBlock	HillShallow	5	Black	LOAM
M993963	2012	604884	5812996	SOIL	Ah	Swamp	Swamp	0	Black	LOAM
M993964	2012	604857	5812996	SOIL	Ah	Swamp	Swamp	0	Black	LOAM
M993965	2012	604832	5812996	SOIL	Ah	Tuff	Swamp	0	Black	LOAM

RedGold Ah Soil Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
M993966	2012	604760	5812995	SOIL	Ah	Swamp	Swamp	0	Black	LOAM
M993967	2012	604780	5812985	SOIL	Ah	Swamp	Swamp	0	Black	LOAM
M993968	2012	604707	5812995	SOIL	Ah	Swamp	Swamp	0	Black	LOAM
M993969	2012	604685.2008	5813000.912	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M993970	2012	604658.4173	5813003.123	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M993971	2012	604633.8487	5813002.414	SOIL	Ah	CutBlock	HillShallow	15	Black	LOAM
M993972	2012	604610.627	5813002.29	SOIL	Ah	CutBlock	HillShallow	20	Black	LOAM
M993973	2012	604585.9069	5812998.054	SOIL	Ah	CutBlock	HillShallow	20	Black	LOAM
M993974	2012	604559.8266	5812999.167	SOIL	Ah	CutBlock	HillShallow	20	Black	LOAM
M993975	2012	604560.0861	5813008.26	SOIL	Ah	CutBlock	HillShallow	20	Black	LOAM
M993976	2012	604534.4456	5812999.369	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993977	2012	604510.7354	5813000.904	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993978	2012	604484.031	5812999.408	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993979	2012	604449.7464	5813002.758	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M993980	2012	604434.097	5812998.16	SOIL	Ah	CutBlock	HillShallow	15	Black	LOAM
M993981	2012	605409.7029	5812799.807	SOIL	Ah	CutBlock	HillShallow	15	Black	LOAM
M993982	2012	605383.7743	5812799.064	SOIL	Ah	CutBlock	HillShallow	15	Black	LOAM
M993983	2012	605358.5171	5812798.708	SOIL	Ah	CutBlock	HillShallow	15	Black	LOAM
M993984	2012	605335.4374	5812802.478	SOIL	Ah	CutBlock	HillShallow	15	Black	LOAM
M993985	2012	605306.8784	5812797.6	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M993986	2012	605285.6583	5812799.185	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M993987	2012	605260.0535	5812799.192	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M993988	2012	605234.9196	5812803.66	SOIL	Ah	CutBlock	HillShallow	5	Black	LOAM
M993989	2012	605210.8784	5812810.007	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993990	2012	605182.2001	5812800.119	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993991	2012	605155.01	5812800.093	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993992	2012	605132.431	5812801.65	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993993	2012	605112.1148	5812798.062	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993994	2012	605088.2227	5812802.743	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M993995	2012	605059.3736	5812800.828	SOIL	Ah	CutBlock	HillShallow	5	Black	LOAM
M993996	2012	605035.4596	5812801.243	SOIL	Ah	CutBlock	HillShallow	5	Black	LOAM
M993997	2012	605011.2851	5812797.944	SOIL	Ah	CutBlock	HillShallow	5	Black	LOAM
M993998	2012	604984.9953	5812803.502	SOIL	Ah	CutBlock	Flat	0	Black	LOAM

RedGold Ah Soil Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
M993999	2012	604960.8032	5812806.323	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M994000	2012	604954.5251	5812803.221	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M994001	2012	604936.2019	5812807.095	SOIL	Ah	CutBlock	HillShallow	15	Black	LOAM
M994002	2012	604910.1046	5812808.948	SOIL	Ah	CutBlock	HillShallow	20	Black	LOAM
M994003	2012	604883.2282	5812804.85	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M994004	2012	604861.9663	5812803.098	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M994005	2012	604833.6279	5812803.791	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M994006	2012	604808.3195	5812805.846	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M994007	2012	604788.4402	5812803.011	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M994008	2012	604758.1214	5812806.259	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M994009	2012	604733.1922	5812806.469	SOIL	Ah	CutBlock	HillShallow	15	Black	LOAM
M994010	2012	604709.5167	5812806.334	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M994011	2012	604686.4771	5812808.254	SOIL	Ah	CutBlock	Flat	0	Black	LOAM
M994012	2012	602978.0918	5812767.112	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994013	2012	603016.552	5812775.337	SOIL	Ae	Forest	Flat	0	Black	LOAM
M994014	2012	603035.3352	5812781.852	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994015	2012	603061.7716	5812785.374	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994016	2012	603088.9226	5812787.242	SOIL	Ah	Forest	HillShallow	15	Black	LOAM
M994017	2012	603107.6624	5812790.417	SOIL	Ah	Forest	HillShallow	20	Black	LOAM
M994018	2012	603133.0482	5812790.023	SOIL	Ah	Forest	HillShallow	20	Black	LOAM
M994019	2012	603187.2562	5812792.831	SOIL	Ah	Forest	HillShallow	15	Black	LOAM
M994020	2012	603209.7953	5812793.12	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994021	2012	603236.9263	5812785.16	SOIL	Ah	Forest	HillShallow	5	Black	LOAM
M994022	2012	603316.9187	5812800.937	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994023	2012	603335.5724	5812802.813	SOIL	Ah	Forest	HillShallow	15	Black	LOAM
M994024	2012	603366.8585	5812801.988	SOIL	Ah	Forest	HillShallow	15	Black	LOAM
M994025	2012	603366.1948	5812817.366	SOIL	Ah	Forest	HillShallow	15	Black	LOAM
M994026	2012	603389.1867	5812796.153	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994027	2012	603404.5876	5812807.233	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994028	2012	603433.8861	5812803.956	SOIL	Ah	Forest	HillSteep	30	Black	LOAM
M994029	2012	603463.3173	5812805.133	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994030	2012	603486.1689	5812801.349	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994031	2012	603510.3168	5812800.56	SOIL	Ah	Forest	Flat	0	Black	LOAM

RedGold Ah Soil Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
M994032	2012	603534.9683	5812808.127	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994033	2012	603559.4362	5812813.65	SOIL	Ah	Forest	HillShallow	5	Black	LOAM
M994034	2012	603581.6901	5812816.716	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994035	2012	603609.0868	5812817.665	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994036	2012	603636.4874	5812818.429	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994037	2012	603661.3461	5812816.172	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994038	2012	603683.1626	5812818.487	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994039	2012	603711.5942	5812818.717	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994040	2012	603734.9028	5812814.759	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994041	2012	603839.3882	5812791.932	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994042	2012	603862.9387	5812792.615	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994043	2012	603892.3504	5812794.721	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994044	2012	603884.0246	5813000.768	SOIL	Ah	Forest	HillSteep	30	Black	LOAM
M994045	2012	603858.0853	5813000.59	SOIL	Ah	Forest	HillShallow	5	Black	LOAM
M994046	2012	603836.8755	5812991.054	SOIL	Ah	Swamp	Flat	0	Black	LOAM
M994047	2012	603810.1906	5812988.635	SOIL	Ah	Swamp	Flat	0	Black	LOAM
M994048	2012	603759.0885	5812994.416	SOIL	Ah	Forest	HillShallow	5	Black	LOAM
M994049	2012	603654.2102	5813003.884	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994050	2012	603654.792	5813003.154	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994051	2012	603635.7251	5813004.792	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994052	2012	603607.6617	5813003.272	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M994053	2012	603585.1275	5813002.797	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994054	2012	603560.102	5813002.269	SOIL	Ah	CutBlock	HillShallow	10	Black	LOAM
M994055	2012	603505.2327	5812993.322	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994056	2012	603487.4426	5812993.504	SOIL	Ah	Forest	HillShallow	15	Black	LOAM
M994057	2012	603461.2145	5812985.533	SOIL	Ah	Forest	HillShallow	15	Black	LOAM
M994058	2012	603434.7558	5812988.499	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994059	2012	603259.3354	5813007.059	SOIL	Ah	Forest	HillShallow	19	Black	LOAM
M994060	2012	603235.2981	5813013.416	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994061	2012	603215.0366	5813017.997	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994062	2012	603189.2344	5813022.09	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994063	2012	603158.9762	5813011.811	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994064	2012	603132.3148	5813013.662	SOIL	Ah	Forest	Flat	0	Black	LOAM

RedGold Ah Soil Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
M994065	2012	603109.3744	5813010.954	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994066	2012	603086.3759	5813016.406	SOIL	Ah	Forest	HillShallow	5	Black	LOAM
M994067	2012	603055.4855	5813014.644	SOIL	Ah	Forest	HillShallow	5	Black	LOAM
M994068	2012	603031.596	5813008.579	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994069	2012	603012.1032	5813003.534	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994070	2012	602986.0352	5813004.1	SOIL	Ah	Forest	HillShallow	15	Black	LOAM
M994071	2012	602957.0853	5813001.638	SOIL	Ah	Forest	HillShallow	15	Black	LOAM
M994072	2012	602934.9496	5813003.77	SOIL	Ah	Forest	HillShallow	15	Black	LOAM
M994073	2012	602911.1775	5813002.901	SOIL	Ah	Forest	HillShallow	15	Black	LOAM
M994074	2012	602884.8876	5813008.655	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994075	2012	602882.2565	5813015.276	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994076	2012	602858.1863	5813001.605	SOIL	Ah	Forest	HillShallow	15	Black	LOAM
M994077	2012	602833.1919	5812999.597	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994078	2012	602811.0181	5813008.962	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994079	2012	602785.5553	5813007.687	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994080	2012	603728.6294	5813197.399	SOIL	Ah	Hill	HillShallow	10	Black	SILT
M994081	2012	603699.8518	5813208.289	SOIL	Ah	Forest	HillShallow	10	Black	SILT
M994082	2012	603683.5554	5813186.061	SOIL	Ah	CutBlock	HillShallow	10	Black	SILT
M994083	2012	603661.8101	5813196.543	SOIL	Ah	CutBlock	HillShallow	10	Black	SILT
M994084	2012	603632.6892	5813198.787	SOIL	Ah	CutBlock	HillShallow	10	Black	SILT
M994085	2012	603586.0617	5813178.624	SOIL	Ah	CutBlock	HillShallow	5	Black	SILT
M994086	2012	603554.9383	5813171.848	SOIL	Ah	CutBlock	HillShallow	5	Black	SILT
M994087	2012	603536.1963	5813168.856	SOIL	Ah	CutBlock	Flat	0	Black	SILT
M994088	2012	603512.9441	5813175.598	SOIL	Ah	CutBlock	HillShallow	5	Brown	SILT
M994089	2012	603485.444	5813174.277	SOIL	Ah	CutBlock	HillShallow	10	Brown- Chocolate	SILT
M994090	2012	603457.9867	5813181.672	SOIL	Ah	CutBlock	HillShallow	5	Black	SILT
M994091	2012	603432.3723	5813203.757	SOIL	Ah	Forest	Flat	0	Black	SILT
M994092	2012	603410.5808	5813205.709	SOIL	Ah	Forest	HillShallow	15	Black	SILT
M994093	2012	603382.7973	5813202.785	SOIL	Ah	Forest	HillShallow	15	Black	SILT
M994094	2012	603351.8479	5813175.913	SOIL	Ah	Forest	HillShallow	15	Black	SILT
M994095	2012	603332.7475	5813203.943	SOIL	Ah	Forest	HillShallow	15	Black	SILT
M994096	2012	603313.2121	5813186.968	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994097	2012	603286.7116	5813186.596	SOIL	Ah	Forest	HillSteep	25	Black	LOAM

RedGold Ah Soil Samples
Location and Description

SampleID	Year Sampled	Easting	Northing	Type	Horizon	Terrain	Landform	Slope Dip	Colour	Texture
M994098	2012	603235.0109	5813188.661	SOIL	Ah	Forest	HillShallow	20	Black	LOAM
M994099	2012	603209.795	5813186.462	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994100	2012	603206.8077	5813177.683	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994101	2012	603181.5449	5813177.708	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994102	2012	603158.3596	5813181.3	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994103	2012	603133.5888	5813179.482	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994104	2012	603111.9459	5813185.147	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994105	2012	603086.6287	5813187.768	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994106	2012	603035.5575	5813197.637	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994107	2012	602909.819	5813188.85	SOIL	Ah	Forest	HillShallow	5	Black	LOAM
M994108	2012	602884.8977	5813181.124	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994109	2012	602860.8029	5813184.885	SOIL	Ah	Forest	HillShallow	10	Black	LOAM
M994110	2012	602834.7671	5813183.968	SOIL	Ah	Forest	HillShallow	5	Black	LOAM
M994111	2012	602812.5546	5813189.808	SOIL	Ah	Forest	HillShallow	20	Black	LOAM
M994112	2012	602787.8976	5813193.372	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994113	2012	602757.4037	5813199.78	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994114	2012	602733.8397	5813199.844	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994115	2012	602685.0301	5813209.949	SOIL	Ah	Forest	HillShallow	5	Black	LOAM
M994116	2012	602661.5755	5813210.2	SOIL	Ah	Forest	Flat	0	Black	LOAM
M994117	2012	602634.9069	5813207.046	SOIL	Ah	Forest	HillShallow	5	Black	LOAM
M994118	2012	602609.2186	5813205.768	SOIL	Ah	Forest	HillShallow	10	Black	LOAM

APPENDIX 02: Ah Soils and Charcoal Assay Certificates

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

CERTIFICATE VA12126857

Project: RedGold

P.O. No.: RG-2012-001ah

This report is for 211 Soil samples submitted to our lab in Vancouver, BC, Canada on 5-JUN-2012.

The following have access to data associated with this certificate:

ELEANOR BLACK	JACQUELINE BLACKWELL	NATE BREWER
MATT ECKFELDT	JULIANNE MADSEN	AMELIA RAINBOW
ROSS SHERLOCK	TWILA SKINNER	TIM STUBLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ST43	Super Trace Au - 25g AR	ICP-MS
ME-MS41	51 anal. aqua regia ICPMS	

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
M993801		0.12	0.0013	1.09	0.84	5.3	<0.2	<10	110	0.17	0.10	2.83	0.58	12.65	6.8	15
M993802		0.08	0.0016	0.25	0.77	6.8	<0.2	<10	370	0.29	0.16	1.40	1.18	13.70	12.1	30
M993803		0.06	0.0013	0.28	0.48	8.5	<0.2	<10	480	0.15	0.19	1.41	1.11	6.72	9.5	13
M993804		0.10	0.0014	0.51	0.26	3.7	<0.2	<10	240	0.07	0.15	1.16	0.68	4.14	4.8	12
M993805		0.10	0.0108	0.48	0.30	4.8	<0.2	<10	120	0.10	0.16	1.16	0.46	4.63	5.3	11
M993806		0.14	0.0033	0.31	0.70	4.7	<0.2	<10	140	0.15	0.10	1.29	0.44	7.70	16.1	21
M993807		0.12	0.0006	0.53	0.27	1.7	<0.2	<10	140	0.07	0.11	1.17	0.46	3.91	2.8	16
M993808		0.08	0.0010	0.43	0.18	2.0	<0.2	<10	150	<0.05	0.11	1.32	0.43	2.37	2.5	7
M993809		0.12	0.0007	0.30	0.32	2.5	<0.2	10	460	0.07	0.14	2.50	0.94	3.69	4.0	8
M993810		0.14	0.0026	0.35	0.64	3.9	<0.2	<10	70	0.11	0.08	1.12	0.21	4.94	4.6	23
M993811		0.14	0.0005	0.71	0.11	1.8	<0.2	<10	50	<0.05	0.07	2.19	0.24	1.08	0.7	2
M993812		0.12	0.0024	0.26	0.36	3.2	<0.2	<10	110	0.06	0.11	0.94	0.27	3.40	2.4	8
M993813		0.12	0.0019	0.33	0.32	3.3	<0.2	<10	200	0.07	0.16	1.21	0.52	3.50	4.6	8
M993814		0.16	0.0023	0.46	0.28	4.5	<0.2	<10	150	0.05	0.11	1.73	0.58	2.79	3.2	12
M993815		0.14	0.0033	0.53	0.47	3.1	<0.2	<10	190	0.13	0.16	0.64	0.54	6.07	6.8	16
M993816		0.14	0.0027	0.44	0.34	2.4	<0.2	<10	160	0.06	0.11	1.05	0.46	2.97	4.3	17
M993817		0.12	0.0042	0.20	0.52	3.4	<0.2	<10	170	0.07	0.12	0.82	0.47	4.07	6.1	19
M993818		0.14	0.0058	0.27	0.41	4.9	<0.2	<10	160	0.07	0.11	1.39	0.58	2.44	5.3	15
M993819		0.10	NSS	0.34	0.25	3.4	<0.2	<10	220	<0.05	0.11	0.98	0.58	2.37	3.3	9
M993820		0.18	0.0015	0.33	0.23	2.2	<0.2	<10	60	<0.05	0.10	1.64	0.25	1.78	1.8	8
M993821		0.08	0.0013	0.23	0.14	1.0	<0.2	<10	70	<0.05	0.06	0.69	0.37	0.94	0.7	6
M993822		0.18	0.0023	0.36	0.34	2.4	<0.2	<10	90	0.06	0.11	0.85	0.17	2.66	3.2	11
M993823		0.16	0.0008	0.34	0.21	2.0	<0.2	<10	70	<0.05	0.07	1.56	0.22	1.21	1.2	7
M993824		0.10	0.0076	0.26	0.53	3.1	<0.2	10	130	0.09	0.09	2.00	0.46	2.27	4.2	30
M993825		0.12	0.0019	0.32	0.32	2.9	<0.2	<10	110	0.05	0.08	1.71	0.45	1.52	2.8	21
M993826		0.12	0.0005	0.21	0.23	2.2	<0.2	<10	150	<0.05	0.07	1.48	0.60	2.48	2.6	9
M993827		0.12	0.0019	0.30	0.21	1.8	<0.2	10	80	0.05	0.06	2.56	0.66	2.95	3.5	5
M993828		0.18	0.0010	0.17	0.36	1.9	<0.2	<10	100	0.06	0.10	1.77	0.42	3.59	3.5	14
M993829		0.14	0.0001	0.21	0.22	3.2	<0.2	<10	90	<0.05	0.05	1.40	0.44	2.19	1.8	7
M993830		0.12	NSS	0.13	0.30	2.1	<0.2	10	340	0.06	0.09	2.72	1.11	2.55	2.6	10
M993831		0.18	0.0004	0.16	0.45	2.9	<0.2	10	290	0.13	0.13	2.12	0.84	5.67	5.2	20
M993832		0.16	0.0005	0.13	0.48	4.8	<0.2	10	170	0.09	0.10	1.71	1.00	6.48	6.9	16
M993833		0.18	0.0028	0.18	1.07	4.9	<0.2	<10	70	0.17	0.08	0.82	0.30	12.35	6.8	21
M993834		0.12	0.0006	0.15	0.14	1.7	<0.2	10	170	<0.05	0.06	2.66	2.17	1.33	3.7	3
M993835		0.12	0.0003	0.13	0.31	1.1	<0.2	<10	40	0.07	0.03	1.22	0.31	3.07	2.5	12
M993836		0.16	0.0013	0.12	1.65	8.4	<0.2	<10	90	0.33	0.10	1.17	0.38	20.5	11.9	38
M993837		0.16	0.0004	0.15	0.39	3.9	<0.2	<10	120	0.09	0.04	0.97	0.42	3.66	2.4	9
M993838		0.14	0.0012	0.11	1.44	5.3	<0.2	<10	100	0.27	0.09	1.20	0.42	17.65	10.2	31
M993839		0.14	0.0014	0.18	1.23	4.3	<0.2	<10	90	0.25	0.09	1.13	0.33	15.45	9.2	31
M993840		0.14	0.0010	0.13	0.91	4.1	<0.2	<10	180	0.16	0.13	1.60	1.08	11.05	11.8	28

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
M993801		0.61	64.3	0.95	2.21	0.05	0.03	0.31	0.012	0.08	7.6	5.7	0.29	2280	3.37	0.02
M993802		0.72	44.5	1.38	3.31	<0.05	<0.02	0.27	0.019	0.11	8.2	5.8	0.27	6760	3.25	0.01
M993803		0.63	19.7	0.93	2.37	<0.05	<0.02	0.37	0.021	0.08	2.9	2.5	0.13	10600	2.62	<0.01
M993804		0.53	13.4	0.57	1.34	<0.05	<0.02	0.31	0.018	0.08	2.1	1.0	0.08	2850	3.28	<0.01
M993805		0.43	16.4	0.67	1.72	<0.05	<0.02	0.27	0.016	0.07	2.3	1.6	0.08	2170	3.49	<0.01
M993806		0.68	68.2	1.26	2.52	<0.05	0.02	0.23	0.014	0.09	3.9	6.7	0.22	1900	1.72	<0.01
M993807		0.40	15.4	0.60	1.31	<0.05	<0.02	0.24	0.011	0.06	2.2	1.8	0.11	1020	1.76	0.01
M993808		0.36	11.8	0.37	0.89	<0.05	<0.02	0.30	0.011	0.07	1.1	0.8	0.07	2340	3.59	0.02
M993809		0.42	15.2	0.50	1.11	<0.05	<0.02	0.38	0.016	0.09	1.6	1.5	0.13	6290	2.94	0.02
M993810		0.51	46.2	1.30	2.67	<0.05	<0.02	0.23	0.011	0.07	2.4	4.2	0.23	784	2.77	0.02
M993811		0.11	18.3	0.15	0.34	<0.05	<0.02	0.35	0.008	0.05	0.7	0.3	0.12	301	2.00	0.02
M993812		0.42	55.4	0.57	1.10	<0.05	<0.02	0.32	0.012	0.09	1.8	1.8	0.10	890	1.75	0.02
M993813		0.46	16.0	0.54	1.59	<0.05	<0.02	0.32	0.017	0.06	1.6	1.2	0.09	3560	2.32	0.02
M993814		0.38	29.6	0.46	1.17	<0.05	<0.02	0.34	0.013	0.10	1.5	1.2	0.11	3460	2.03	0.02
M993815		0.78	21.8	1.23	2.89	<0.05	<0.02	0.21	0.016	0.08	2.9	1.9	0.12	3460	1.64	0.02
M993816		0.45	17.6	0.71	1.26	<0.05	<0.02	0.31	0.014	0.07	1.5	1.7	0.16	1810	1.39	0.01
M993817		0.30	23.3	1.13	2.15	<0.05	<0.02	0.24	0.013	0.09	2.0	2.6	0.16	6640	1.61	0.01
M993818		0.25	36.0	0.82	1.44	<0.05	<0.02	0.38	0.016	0.08	1.1	1.3	0.12	4170	2.05	0.01
M993819		0.40	12.4	0.43	1.27	<0.05	<0.02	0.49	0.012	0.07	1.1	0.4	0.07	10150	1.48	0.01
M993820		0.24	11.2	0.43	0.85	<0.05	<0.02	0.30	0.011	0.05	0.9	0.5	0.08	1060	5.79	0.01
M993821		0.13	13.0	0.23	0.37	<0.05	<0.02	0.16	0.006	0.08	0.5	0.2	0.04	54	1.47	0.01
M993822		0.26	15.2	0.60	1.30	<0.05	<0.02	0.25	0.011	0.06	1.3	1.2	0.09	1150	2.11	0.01
M993823		0.18	8.4	0.21	0.72	<0.05	<0.02	0.29	0.007	0.05	0.7	0.3	0.07	1440	2.08	0.01
M993824		0.19	33.9	1.18	1.67	<0.05	0.02	0.33	0.013	0.08	1.1	1.2	0.20	2300	1.21	0.01
M993825		0.13	21.7	0.89	1.15	<0.05	<0.02	0.39	0.011	0.08	0.7	0.7	0.13	2000	1.61	0.01
M993826		0.21	13.1	0.43	0.96	<0.05	<0.02	0.30	0.009	0.08	1.2	1.1	0.09	2280	1.20	0.01
M993827		0.19	12.3	0.40	0.76	<0.05	<0.02	0.26	0.007	0.06	1.6	0.9	0.13	904	0.77	0.01
M993828		0.31	15.8	0.80	1.31	<0.05	0.02	0.27	0.013	0.06	1.8	2.7	0.16	1420	1.60	0.01
M993829		0.19	11.0	0.42	0.69	<0.05	<0.02	0.29	0.006	0.06	1.3	0.8	0.09	1060	0.82	0.01
M993830		0.24	16.0	0.56	1.15	<0.05	<0.02	0.32	0.012	0.12	1.3	1.5	0.12	4400	1.02	0.01
M993831		0.27	16.0	1.10	1.89	<0.05	<0.02	0.28	0.015	0.13	3.1	2.6	0.17	3370	1.54	0.01
M993832		0.37	14.2	1.23	1.84	<0.05	<0.02	0.24	0.012	0.09	3.0	3.8	0.19	2450	1.64	0.01
M993833		0.55	22.3	2.00	2.82	<0.05	0.02	0.11	0.013	0.09	6.5	9.2	0.36	475	1.53	0.01
M993834		0.13	13.3	0.21	0.46	<0.05	<0.02	0.34	0.007	0.05	0.7	0.5	0.06	1750	1.15	0.01
M993835		0.18	11.2	0.57	0.90	<0.05	<0.02	0.08	<0.005	0.08	1.6	2.2	0.22	365	1.03	0.01
M993836		0.76	39.2	2.74	4.12	<0.05	0.04	0.07	0.018	0.16	10.8	15.1	0.60	846	1.48	0.02
M993837		0.17	10.3	0.76	1.04	<0.05	<0.02	0.19	0.006	0.10	2.1	1.5	0.10	127	0.77	0.01
M993838		0.74	38.0	2.39	3.65	<0.05	0.02	0.06	0.015	0.16	9.8	10.6	0.50	856	1.29	0.02
M993839		0.54	29.4	2.23	3.09	<0.05	0.02	0.08	0.013	0.14	8.1	10.9	0.47	916	0.82	0.01
M993840		0.53	26.5	1.97	3.08	<0.05	0.02	0.19	0.016	0.13	4.9	7.7	0.40	3320	1.69	0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
M993801		0.36	21.2	980	6.2	5.7	<0.001	0.12	0.30	1.8	0.8	0.2	116.5	<0.01	0.02	0.4
M993802		0.36	20.8	800	15.7	7.6	<0.001	0.06	0.32	2.0	0.7	0.3	101.5	<0.01	0.04	<0.2
M993803		0.21	11.9	1030	24.5	4.9	<0.001	0.08	0.40	1.0	0.6	0.4	105.5	<0.01	0.04	<0.2
M993804		0.20	9.2	970	20.6	4.8	<0.001	0.10	0.39	1.0	0.4	0.3	86.1	<0.01	0.03	0.2
M993805		0.27	6.9	900	20.8	3.4	<0.001	0.09	0.36	1.1	0.5	0.4	69.0	<0.01	0.02	0.2
M993806		0.42	22.2	810	12.2	6.1	<0.001	0.08	0.23	2.2	0.5	0.3	76.2	<0.01	0.02	0.5
M993807		0.23	7.5	800	13.4	2.5	<0.001	0.09	0.27	1.0	0.4	0.3	56.6	<0.01	0.01	0.2
M993808		0.15	4.7	1030	15.4	2.0	<0.001	0.13	0.26	0.5	<0.2	0.3	54.0	<0.01	<0.01	<0.2
M993809		0.18	8.1	1110	22.0	3.9	<0.001	0.13	0.24	0.6	<0.2	0.3	130.0	<0.01	0.01	0.2
M993810		0.40	11.9	950	11.0	3.1	<0.001	0.11	0.17	1.4	<0.2	0.3	43.6	<0.01	0.01	0.4
M993811		0.07	2.7	800	9.0	0.7	<0.001	0.16	0.21	0.3	0.2	0.2	70.3	<0.01	<0.01	<0.2
M993812		0.21	6.7	1210	17.4	2.9	<0.001	0.15	0.24	1.1	0.2	0.3	71.9	<0.01	0.01	0.3
M993813		0.18	5.6	930	23.9	2.8	<0.001	0.10	0.32	0.7	0.2	0.3	78.9	<0.01	0.01	0.2
M993814		0.17	9.7	1120	17.8	3.0	<0.001	0.13	0.30	0.6	0.2	0.3	106.5	<0.01	<0.01	<0.2
M993815		0.38	9.2	750	22.7	6.1	<0.001	0.07	0.29	1.2	0.3	0.4	50.3	<0.01	0.01	<0.2
M993816		0.20	9.6	910	19.0	2.6	<0.001	0.09	0.27	0.8	0.4	0.3	73.6	<0.01	0.01	0.2
M993817		0.22	9.9	950	18.3	3.2	<0.001	0.08	0.23	1.0	0.3	0.3	45.3	<0.01	0.01	<0.2
M993818		0.16	12.8	980	16.8	2.4	<0.001	0.11	0.35	0.7	1.1	0.3	78.4	<0.01	0.02	<0.2
M993819		0.10	5.4	910	20.7	2.5	<0.001	0.10	0.28	0.6	0.5	0.2	49.7	<0.01	0.02	<0.2
M993820		0.15	6.0	650	12.7	1.1	<0.001	0.11	0.24	0.7	0.4	0.2	107.5	<0.01	0.02	<0.2
M993821		0.07	3.1	840	10.4	1.7	<0.001	0.11	0.21	0.5	0.3	0.4	51.2	<0.01	<0.01	<0.2
M993822		0.18	6.7	820	17.2	2.0	<0.001	0.10	0.24	1.0	0.4	0.3	54.7	<0.01	0.01	0.2
M993823		0.09	5.4	780	9.1	1.3	<0.001	0.12	0.19	0.6	0.6	<0.2	96.7	<0.01	0.01	<0.2
M993824		0.15	15.5	960	14.5	2.7	<0.001	0.12	0.22	1.2	0.5	0.2	111.5	<0.01	0.02	0.2
M993825		0.11	11.5	1010	12.8	1.9	<0.001	0.13	0.24	0.8	0.5	0.2	97.0	<0.01	0.01	<0.2
M993826		0.14	6.3	870	15.1	2.8	<0.001	0.12	0.17	0.7	0.3	0.2	100.0	<0.01	0.01	<0.2
M993827		0.18	10.6	680	7.0	2.7	<0.001	0.12	0.14	0.6	1.3	<0.2	137.0	<0.01	0.01	0.2
M993828		0.23	7.5	790	16.2	3.4	<0.001	0.10	0.21	0.8	0.3	0.2	106.0	<0.01	0.01	0.2
M993829		0.12	4.6	670	5.6	1.6	<0.001	0.10	0.18	0.7	0.8	<0.2	85.4	<0.01	0.01	0.2
M993830		0.17	6.8	1100	14.3	2.5	<0.001	0.12	0.21	0.6	0.3	0.2	168.5	<0.01	0.02	<0.2
M993831		0.31	10.5	790	16.8	3.9	<0.001	0.08	0.21	1.2	0.3	0.3	164.0	<0.01	0.02	0.3
M993832		0.35	9.2	680	11.2	5.1	<0.001	0.08	0.27	1.1	0.6	0.2	116.5	<0.01	0.02	0.3
M993833		0.54	14.2	740	6.8	5.5	0.001	0.06	0.22	2.1	0.9	0.2	46.1	<0.01	0.01	0.5
M993834		0.10	4.1	620	8.1	1.1	<0.001	0.12	0.16	0.5	0.9	<0.2	160.5	<0.01	0.02	<0.2
M993835		0.20	6.5	520	2.7	2.4	<0.001	0.08	0.09	0.8	0.2	<0.2	66.1	<0.01	<0.01	0.2
M993836		0.82	26.3	820	7.0	12.0	<0.001	0.06	0.29	4.2	0.5	0.2	78.1	<0.01	0.01	1.6
M993837		0.20	5.5	580	2.6	2.6	<0.001	0.08	0.11	1.2	0.4	<0.2	91.5	<0.01	0.01	0.3
M993838		0.55	21.1	1210	6.1	9.8	<0.001	0.07	0.21	2.2	0.5	0.2	78.9	<0.01	0.02	0.2
M993839		0.64	18.9	740	6.1	9.4	<0.001	0.06	0.21	2.9	0.5	0.2	75.1	<0.01	0.01	0.7
M993840		0.56	17.9	800	12.3	7.8	<0.001	0.06	0.25	1.9	0.5	0.3	102.5	<0.01	0.02	0.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
M993801		0.022	0.08	0.32	24	0.10	8.75	44	0.8
M993802		0.038	0.10	0.28	31	0.12	7.84	115	<0.5
M993803		0.026	0.12	0.15	21	0.11	1.50	82	<0.5
M993804		0.019	0.05	0.11	14	0.10	0.85	56	<0.5
M993805		0.023	0.05	0.12	18	0.09	0.91	33	<0.5
M993806		0.034	0.06	0.30	28	0.10	2.91	62	0.5
M993807		0.022	0.04	0.11	16	0.07	1.04	51	<0.5
M993808		0.014	0.05	0.07	9	0.05	0.43	58	<0.5
M993809		0.016	0.10	0.09	11	0.07	0.87	119	<0.5
M993810		0.039	0.02	0.14	37	0.09	1.29	57	0.7
M993811		0.005	<0.02	0.05	3	<0.05	0.51	28	<0.5
M993812		0.013	0.03	0.13	11	0.07	1.36	57	0.5
M993813		0.020	0.05	0.09	16	0.07	0.84	55	<0.5
M993814		0.015	0.06	0.08	13	0.07	0.82	67	<0.5
M993815		0.040	0.09	0.14	40	0.10	0.88	53	<0.5
M993816		0.021	0.03	0.08	17	0.06	0.56	58	<0.5
M993817		0.025	0.07	0.09	31	0.07	0.73	49	<0.5
M993818		0.015	0.06	0.07	15	0.07	0.62	49	<0.5
M993819		0.013	0.12	0.07	11	0.05	0.45	106	<0.5
M993820		0.015	0.03	0.06	12	0.05	0.46	19	0.5
M993821		0.006	<0.02	<0.05	5	<0.05	0.22	77	<0.5
M993822		0.018	0.04	0.08	15	0.06	0.58	31	<0.5
M993823		0.009	0.03	0.05	5	0.05	0.38	24	<0.5
M993824		0.017	0.04	0.08	25	0.16	0.72	51	0.5
M993825		0.011	0.04	0.05	19	0.16	0.46	50	<0.5
M993826		0.013	0.04	0.06	9	0.05	0.51	67	<0.5
M993827		0.014	0.02	0.08	8	<0.05	0.66	52	0.5
M993828		0.020	0.04	0.09	17	0.06	0.73	38	0.5
M993829		0.010	0.03	0.07	8	<0.05	0.69	42	<0.5
M993830		0.013	0.04	0.06	11	0.05	0.69	111	<0.5
M993831		0.034	0.05	0.17	26	0.07	1.25	99	<0.5
M993832		0.032	0.05	0.14	29	0.06	1.14	77	<0.5
M993833		0.036	0.04	0.41	43	0.08	3.96	48	0.5
M993834		0.006	0.03	0.05	3	<0.05	0.50	132	<0.5
M993835		0.016	0.02	0.09	12	<0.05	0.81	27	0.5
M993836		0.051	0.08	0.57	55	0.11	6.55	81	1.2
M993837		0.013	0.02	0.12	15	<0.05	0.98	42	<0.5
M993838		0.035	0.06	0.42	45	0.10	6.43	85	<0.5
M993839		0.045	0.05	0.39	46	0.09	5.03	77	0.5
M993840		0.048	0.06	0.18	41	0.09	1.89	102	0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
M993841		0.14	0.0009	0.09	1.25	2.6	<0.2	<10	100	0.22	0.10	1.35	0.90	13.50	9.6	35
M993842		0.16	0.0011	0.08	0.70	3.6	<0.2	<10	40	0.12	0.06	1.36	0.39	8.76	5.6	25
M993843		0.14	0.0011	0.13	0.70	2.6	<0.2	<10	100	0.14	0.07	1.22	0.52	8.76	5.2	20
M993844		0.14	0.0016	0.10	0.74	2.3	<0.2	<10	110	0.17	0.07	0.88	0.44	8.86	6.4	29
M993845		0.12	0.0006	0.09	0.67	2.0	<0.2	<10	240	0.14	0.12	1.60	0.59	7.90	5.8	30
M993846		0.16	0.0004	0.13	0.36	1.2	<0.2	<10	100	0.08	0.06	1.09	0.33	4.76	3.0	11
M993847		0.14	0.0004	0.34	0.29	1.6	<0.2	<10	220	0.05	0.11	0.83	0.25	2.81	2.2	10
M993848		0.14	0.0004	0.24	0.49	3.1	<0.2	<10	390	0.10	0.12	2.20	1.13	5.19	4.2	13
M993849		0.10	0.0011	0.42	0.35	2.3	<0.2	<10	400	0.10	0.12	1.07	0.60	4.46	3.3	7
M993850		0.12	0.0005	0.40	0.37	2.4	<0.2	<10	430	0.10	0.12	1.12	0.59	5.25	4.3	10
M993851		0.14	0.0022	0.85	0.64	3.8	<0.2	<10	140	0.13	0.04	0.62	0.22	4.97	5.3	20
M993852		0.10	0.0021	0.32	0.35	3.0	<0.2	<10	210	0.07	0.10	1.06	0.33	3.80	3.1	7
M993853		0.12	0.0006	0.15	0.18	2.0	<0.2	<10	150	<0.05	0.09	0.78	0.18	1.69	0.7	3
M993854		0.24	0.0019	0.29	0.52	2.7	<0.2	10	260	0.09	0.12	1.39	0.51	5.04	4.8	10
M993855		0.10	0.0012	0.58	0.31	2.1	<0.2	<10	200	0.05	0.10	1.23	0.49	3.48	3.7	5
M993856		0.14	0.0129	0.59	0.56	3.9	<0.2	<10	180	0.12	0.11	0.58	0.19	6.66	7.3	11
M993857		0.12	0.0007	0.27	0.13	0.8	<0.2	<10	110	<0.05	0.06	0.69	0.19	1.49	0.9	2
M993858		0.14	0.0170	0.40	0.47	2.3	<0.2	<10	280	0.11	0.13	1.20	0.49	4.99	5.7	10
M993859		0.14	0.0026	0.23	0.54	3.4	<0.2	<10	760	0.12	0.15	2.18	1.47	6.69	6.4	9
M993860		0.16	0.0013	0.26	0.45	4.4	<0.2	<10	270	0.09	0.11	1.03	0.84	6.90	7.5	13
M993861		0.16	0.0061	0.28	0.88	5.7	<0.2	10	80	0.26	0.08	1.81	0.30	9.24	3.8	13
M993862		0.18	0.0011	0.14	0.12	0.6	<0.2	10	20	<0.05	0.05	2.32	0.20	1.49	0.8	4
M993863		0.14	0.0013	0.12	0.31	1.1	<0.2	10	350	<0.05	0.06	2.20	0.56	2.59	3.1	12
M993864		0.20	0.0047	0.26	0.41	3.2	<0.2	<10	160	0.09	0.12	0.88	0.30	3.87	4.6	11
M993865		0.12	0.0024	0.05	0.60	2.7	<0.2	<10	710	0.11	0.14	1.77	0.72	6.25	6.8	17
M993866		0.14	0.0018	0.13	0.29	1.2	<0.2	<10	130	0.06	0.07	1.06	0.16	2.91	2.4	6
M993867		0.18	0.0009	0.14	0.45	1.7	<0.2	<10	370	0.08	0.10	1.63	0.60	4.11	6.7	12
M993868		0.14	0.0019	0.19	0.34	2.0	<0.2	<10	460	0.07	0.12	1.84	0.66	3.62	3.7	7
M993869		0.18	0.0016	0.24	1.13	7.3	<0.2	10	90	0.28	0.09	1.61	0.36	17.55	7.9	18
M993870		0.18	0.0009	0.22	0.98	4.4	<0.2	10	120	0.21	0.07	1.62	0.37	10.70	6.6	18
M993871		0.22	0.0010	0.31	0.88	4.5	<0.2	<10	80	0.18	0.07	1.38	0.34	10.60	6.6	20
M993872		0.18	0.0017	0.18	1.51	3.8	<0.2	<10	80	0.35	0.13	1.34	0.44	16.55	8.6	27
M993873		0.18	0.0004	0.41	0.09	0.6	<0.2	20	60	<0.05	0.03	3.07	1.57	1.27	3.3	2
M993874		0.12	0.0009	0.34	0.44	1.9	<0.2	20	70	0.09	0.07	3.03	1.16	5.51	5.9	8
M993875		0.16	0.0007	0.36	0.39	2.1	<0.2	20	60	0.09	0.07	3.18	1.07	5.03	5.7	7
M993876		0.16	0.0011	0.12	1.71	3.7	<0.2	<10	50	0.37	0.10	1.01	0.30	22.0	11.9	35
M993877		0.16	0.0011	0.20	0.83	2.4	<0.2	<10	160	0.18	0.12	2.69	1.31	10.30	8.1	17
M993878		0.14	0.0004	0.36	0.11	0.9	<0.2	10	260	<0.05	0.03	3.02	1.22	1.12	1.6	2
M993879		0.16	0.0006	0.27	0.35	1.1	<0.2	<10	100	0.06	0.03	1.61	0.45	4.21	3.8	10
M993880		0.16	0.0012	0.53	0.70	2.6	<0.2	20	120	0.20	0.13	4.25	1.21	12.15	4.5	10

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
M993841		0.80	27.9	2.39	3.35	<0.05	0.02	0.06	0.011	0.14	6.5	12.4	0.51	982	1.00	0.01
M993842		0.37	24.8	1.63	2.17	<0.05	0.02	0.08	0.009	0.09	4.4	6.1	0.27	384	1.37	0.01
M993843		0.46	25.0	1.39	1.98	<0.05	0.02	0.16	0.012	0.07	4.4	5.6	0.24	854	1.35	0.01
M993844		0.46	22.9	1.60	2.23	<0.05	<0.02	0.08	0.010	0.10	4.2	4.0	0.26	837	0.89	0.02
M993845		0.40	21.8	1.35	2.27	<0.05	<0.02	0.16	0.016	0.09	4.1	4.4	0.25	2550	1.07	0.01
M993846		0.27	16.1	0.80	1.26	<0.05	<0.02	0.13	0.008	0.05	2.6	2.5	0.14	1040	1.21	0.01
M993847		0.20	12.5	0.54	0.83	<0.05	<0.02	0.32	0.012	0.05	1.6	0.8	0.09	667	1.47	0.01
M993848		0.35	30.6	0.80	1.58	<0.05	<0.02	0.20	0.019	0.12	2.6	3.5	0.20	5070	1.53	0.01
M993849		0.31	20.5	0.61	1.05	<0.05	<0.02	0.17	0.013	0.09	2.3	1.0	0.09	1430	0.93	0.01
M993850		0.33	23.5	0.72	1.25	<0.05	<0.02	0.16	0.014	0.08	2.6	1.2	0.10	1840	0.95	0.01
M993851		0.47	43.2	1.27	2.51	<0.05	<0.02	0.07	0.014	0.07	2.4	4.5	0.27	604	0.64	0.01
M993852		0.46	17.9	0.63	1.30	<0.05	<0.02	0.29	0.014	0.08	1.9	3.0	0.12	2980	1.31	0.01
M993853		0.21	11.5	0.23	0.57	<0.05	<0.02	0.19	0.014	0.04	0.9	0.5	0.05	812	0.69	0.01
M993854		0.50	14.8	0.89	1.93	<0.05	<0.02	0.24	0.017	0.09	2.5	4.7	0.19	4840	1.42	0.01
M993855		0.58	17.0	0.54	1.18	<0.05	<0.02	0.27	0.013	0.09	1.7	1.9	0.12	5940	1.27	0.01
M993856		0.39	29.7	1.35	3.26	<0.05	<0.02	0.11	0.014	0.06	3.3	2.6	0.21	2030	0.69	0.01
M993857		0.35	13.4	0.21	0.50	<0.05	<0.02	0.23	0.011	0.08	0.9	0.4	0.05	641	0.89	0.01
M993858		0.55	14.8	0.94	2.01	<0.05	<0.02	0.25	0.017	0.11	2.4	2.4	0.18	5070	1.69	0.01
M993859		0.54	15.5	0.92	2.01	<0.05	<0.02	0.33	0.017	0.08	3.6	3.3	0.15	10600	2.61	0.01
M993860		0.53	22.6	1.22	2.47	<0.05	<0.02	0.18	0.013	0.08	3.5	3.8	0.15	6800	1.94	0.01
M993861		0.68	706	1.15	2.21	<0.05	0.03	0.20	0.009	0.07	6.2	6.9	0.22	487	0.62	0.01
M993862		0.15	21.4	0.19	0.35	<0.05	<0.02	0.21	0.005	0.06	1.2	0.7	0.11	212	2.72	0.01
M993863		0.35	20.3	0.51	1.19	<0.05	<0.02	0.22	0.007	0.09	1.2	2.5	0.16	4170	1.16	0.01
M993864		0.44	20.0	0.84	1.92	<0.05	<0.02	0.28	0.014	0.06	2.0	1.8	0.13	1520	1.44	0.01
M993865		0.65	15.5	1.01	2.56	<0.05	<0.02	0.24	0.015	0.12	2.8	5.0	0.22	13550	1.31	0.01
M993866		0.73	18.6	0.55	1.28	<0.05	<0.02	0.25	0.007	0.08	1.5	2.0	0.10	1720	2.50	0.01
M993867		1.09	19.7	0.86	1.86	<0.05	<0.02	0.35	0.008	0.10	1.9	3.6	0.20	8000	1.97	0.01
M993868		0.51	19.7	0.51	1.23	<0.05	<0.02	0.27	0.016	0.09	1.7	2.1	0.13	6950	1.53	0.01
M993869		0.85	43.8	1.98	3.20	0.05	0.03	0.13	0.015	0.09	13.1	12.6	0.38	750	0.78	0.01
M993870		0.80	30.6	1.65	2.77	<0.05	0.02	0.15	0.011	0.11	6.3	8.8	0.31	916	0.92	0.01
M993871		0.62	31.2	1.67	2.79	<0.05	0.02	0.11	0.011	0.06	7.6	10.4	0.30	554	0.69	0.01
M993872		0.73	40.1	2.41	4.15	<0.05	0.04	0.09	0.014	0.13	9.6	12.5	0.42	549	0.94	0.02
M993873		0.19	15.4	0.14	0.29	<0.05	<0.02	0.19	<0.005	0.04	1.2	0.5	0.14	499	0.68	0.01
M993874		0.44	24.3	0.73	1.31	<0.05	0.02	0.20	0.006	0.09	3.8	3.0	0.21	826	0.66	0.01
M993875		0.41	22.1	0.66	1.14	<0.05	0.02	0.23	0.006	0.08	3.5	2.7	0.21	808	0.73	0.01
M993876		1.07	40.9	2.85	5.27	0.05	0.04	0.05	0.016	0.09	10.3	24.9	0.69	529	0.95	0.02
M993877		0.60	32.2	1.53	2.46	<0.05	0.02	0.26	0.012	0.09	5.6	6.7	0.27	2070	0.95	0.01
M993878		0.13	12.6	0.17	0.33	<0.05	<0.02	0.34	<0.005	0.06	0.7	0.7	0.14	1500	0.73	0.01
M993879		0.36	22.0	0.74	1.43	<0.05	<0.02	0.08	<0.005	0.09	2.2	3.6	0.23	707	1.53	0.01
M993880		0.49	37.9	0.94	1.98	0.06	0.04	0.25	0.012	0.12	23.6	5.0	0.24	1280	0.88	0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
M993841		0.72	21.3	850	6.2	12.5	<0.001	0.06	0.14	2.0	0.4	0.2	80.7	<0.01	0.01	1.1
M993842		0.49	12.9	580	4.4	4.9	<0.001	0.09	0.18	1.8	0.5	0.2	62.5	<0.01	0.01	0.6
M993843		0.44	11.3	550	8.7	4.7	<0.001	0.06	0.19	1.7	0.4	0.2	75.4	<0.01	0.01	0.5
M993844		0.44	13.6	650	7.0	5.5	<0.001	0.04	0.14	1.8	0.3	0.2	66.2	<0.01	0.01	0.5
M993845		0.42	13.8	560	14.2	5.5	<0.001	0.05	0.19	1.5	0.3	0.3	133.0	<0.01	0.02	0.6
M993846		0.24	6.2	410	8.7	3.9	<0.001	0.06	0.12	0.9	0.2	0.2	81.8	<0.01	0.01	0.4
M993847		0.16	6.0	680	16.8	1.7	<0.001	0.10	0.28	0.7	0.3	0.2	88.9	<0.01	0.01	<0.2
M993848		0.22	10.9	600	24.7	4.5	<0.001	0.05	0.19	0.9	0.4	0.3	156.5	<0.01	0.02	0.3
M993849		0.18	5.1	690	19.8	2.6	<0.001	0.07	0.23	0.9	0.4	0.2	97.1	<0.01	0.01	<0.2
M993850		0.22	5.7	680	19.3	3.2	<0.001	0.07	0.24	0.7	0.3	0.3	107.0	<0.01	0.01	<0.2
M993851		0.32	11.4	550	5.0	5.3	0.001	0.02	0.18	1.1	0.2	0.2	64.0	<0.01	0.01	<0.2
M993852		0.18	5.4	850	20.9	3.9	0.001	0.09	0.29	0.7	0.3	0.3	70.8	<0.01	0.01	0.2
M993853		0.09	2.6	600	15.1	1.8	<0.001	0.08	0.23	0.5	0.2	0.2	54.4	<0.01	<0.01	<0.2
M993854		0.24	9.2	890	19.6	6.2	<0.001	0.09	0.29	0.6	0.3	0.3	86.4	<0.01	0.01	<0.2
M993855		0.14	5.1	1220	22.3	3.9	<0.001	0.10	0.27	0.6	0.3	0.2	56.1	<0.01	0.01	<0.2
M993856		0.33	5.5	750	15.9	3.7	<0.001	0.04	0.26	1.6	0.3	0.3	40.3	<0.01	<0.01	0.2
M993857		0.09	2.2	1010	12.1	2.9	0.001	0.09	0.22	0.4	0.2	0.2	47.5	<0.01	<0.01	<0.2
M993858		0.22	7.2	1040	22.9	4.3	<0.001	0.08	0.28	0.9	<0.2	0.3	89.3	<0.01	0.01	<0.2
M993859		0.24	12.5	800	22.5	5.9	0.001	0.08	0.30	0.8	0.3	0.3	163.5	<0.01	0.04	<0.2
M993860		0.21	8.8	740	16.6	5.5	<0.001	0.06	0.37	0.9	0.4	0.3	67.5	<0.01	0.02	<0.2
M993861		0.38	12.0	580	7.2	5.5	0.001	0.06	0.21	3.4	0.8	0.2	53.5	<0.01	0.02	0.6
M993862		0.07	3.9	770	9.3	1.3	0.001	0.14	0.14	0.3	0.3	0.2	55.4	<0.01	0.01	<0.2
M993863		0.17	9.3	1040	12.9	3.6	<0.001	0.11	0.16	0.5	<0.2	0.2	112.5	<0.01	0.01	<0.2
M993864		0.20	7.6	870	16.9	3.8	<0.001	0.09	0.37	0.7	0.5	0.3	55.6	<0.01	0.03	<0.2
M993865		0.28	15.7	950	23.4	13.5	0.001	0.08	0.27	0.8	<0.2	0.3	94.8	<0.01	0.02	<0.2
M993866		0.18	6.3	910	15.3	4.3	<0.001	0.10	0.25	0.7	0.2	0.3	56.7	<0.01	0.01	0.2
M993867		0.27	10.9	1200	21.5	6.7	<0.001	0.11	0.25	0.5	<0.2	0.3	83.8	<0.01	0.02	<0.2
M993868		0.16	9.8	1080	24.6	5.9	0.001	0.11	0.26	0.5	0.3	0.3	114.5	<0.01	0.01	<0.2
M993869		0.54	16.7	630	7.5	9.4	0.001	0.07	0.36	4.2	0.6	0.2	107.5	<0.01	0.02	1.2
M993870		0.47	13.8	910	9.5	8.1	<0.001	0.07	0.27	2.8	0.3	0.2	110.0	<0.01	0.02	0.8
M993871		0.46	14.2	420	5.8	6.0	<0.001	0.05	0.25	2.4	0.3	0.2	91.7	<0.01	0.01	0.6
M993872		0.74	20.6	540	10.2	8.9	<0.001	0.05	0.25	4.1	<0.2	0.3	86.9	<0.01	<0.01	2.0
M993873		0.06	4.1	650	6.3	1.7	<0.001	0.15	0.13	0.2	<0.2	<0.2	213	<0.01	<0.01	<0.2
M993874		0.26	9.2	1110	7.6	5.2	<0.001	0.16	0.23	1.1	0.3	0.2	205	<0.01	0.01	0.3
M993875		0.24	8.1	930	7.9	4.9	0.001	0.17	0.23	1.0	0.3	0.2	212	<0.01	0.01	0.3
M993876		0.97	29.1	500	8.4	14.1	<0.001	0.06	0.19	3.7	0.5	0.3	78.6	<0.01	0.01	2.2
M993877		0.44	15.6	780	12.7	7.5	<0.001	0.10	0.25	1.8	0.3	0.2	217	<0.01	0.01	0.5
M993878		0.06	2.8	760	5.1	1.7	<0.001	0.14	0.16	0.2	0.3	<0.2	299	<0.01	<0.01	<0.2
M993879		0.25	6.4	690	4.9	6.0	<0.001	0.08	0.14	0.9	<0.2	0.2	133.0	<0.01	0.01	0.3
M993880		0.35	12.5	1810	21.2	5.9	<0.001	0.11	0.35	2.1	0.8	0.3	227	<0.01	0.02	0.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
M993841		0.053	0.05	0.23	39	0.10	2.25	118	0.5
M993842		0.039	0.04	0.19	36	0.08	2.31	35	0.7
M993843		0.034	0.04	0.19	28	0.07	2.33	44	0.7
M993844		0.042	0.03	0.23	35	0.07	2.25	65	<0.5
M993845		0.045	0.03	0.17	27	0.09	1.45	46	0.5
M993846		0.021	0.03	0.09	17	0.05	0.98	43	<0.5
M993847		0.016	0.02	0.08	12	0.05	0.69	34	<0.5
M993848		0.021	0.03	0.10	17	0.07	1.03	181	<0.5
M993849		0.017	0.04	0.11	13	0.05	1.03	62	<0.5
M993850		0.018	0.05	0.11	18	0.05	1.07	66	<0.5
M993851		0.036	0.06	0.11	35	0.06	1.17	34	<0.5
M993852		0.015	0.09	0.09	13	0.06	0.62	58	<0.5
M993853		0.008	0.05	0.07	5	<0.05	0.43	37	<0.5
M993854		0.022	0.08	0.12	19	0.07	0.76	60	<0.5
M993855		0.014	0.10	0.08	13	0.05	0.59	81	<0.5
M993856		0.037	0.07	0.15	45	0.09	1.31	35	<0.5
M993857		0.008	0.03	0.05	5	<0.05	0.32	33	<0.5
M993858		0.024	0.08	0.11	25	0.09	0.86	54	<0.5
M993859		0.023	0.09	0.13	19	0.09	1.55	54	<0.5
M993860		0.027	0.12	0.13	30	0.07	0.95	70	<0.5
M993861		0.021	0.06	0.33	27	0.10	9.17	34	0.9
M993862		0.005	0.03	0.05	4	0.06	0.83	13	<0.5
M993863		0.017	0.05	0.06	11	0.06	0.59	196	<0.5
M993864		0.025	0.05	0.11	19	0.12	0.89	29	<0.5
M993865		0.027	0.12	0.10	20	0.09	1.04	172	<0.5
M993866		0.019	0.08	0.07	15	0.05	0.61	41	<0.5
M993867		0.026	0.18	0.09	20	0.07	0.76	145	<0.5
M993868		0.015	0.11	0.08	10	0.06	0.72	112	<0.5
M993869		0.026	0.08	0.81	33	0.08	10.60	57	1.2
M993870		0.029	0.07	0.35	31	0.07	4.67	103	0.8
M993871		0.032	0.06	0.37	34	0.09	5.38	43	0.6
M993872		0.039	0.07	0.53	41	0.13	7.08	71	1.4
M993873		<0.005	0.03	<0.05	2	<0.05	0.66	90	<0.5
M993874		0.015	0.04	0.21	13	0.06	2.93	62	0.6
M993875		0.014	0.04	0.19	11	0.05	2.55	45	0.6
M993876		0.062	0.05	0.51	55	0.12	4.69	57	1.4
M993877		0.031	0.06	0.24	26	0.08	3.16	55	0.6
M993878		<0.005	0.05	<0.05	3	<0.05	0.45	220	<0.5
M993879		0.022	0.03	0.10	16	<0.05	1.02	75	0.5
M993880		0.019	0.05	0.45	18	0.07	14.85	95	1.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
M993881		0.16	0.0006	0.35	0.47	1.5	<0.2	<10	160	0.11	0.07	2.32	1.36	5.54	5.2	11
M993882		0.20	0.0004	0.55	0.24	1.2	<0.2	10	230	0.06	0.03	2.64	0.84	2.20	2.7	5
M993883		0.16	0.0008	0.36	0.14	1.5	<0.2	<10	80	<0.05	0.05	0.97	0.48	1.49	0.8	2
M993884		0.14	0.0005	0.32	0.40	2.5	<0.2	10	220	0.11	0.08	2.93	1.24	5.75	3.1	6
M993885		0.12	0.0004	0.31	0.14	1.3	<0.2	<10	90	<0.05	0.07	0.99	0.43	1.24	1.1	2
M993886		0.16	0.0006	0.36	0.65	2.7	<0.2	<10	190	0.15	0.10	2.41	0.68	6.61	6.8	12
M993887		0.14	0.0006	0.27	0.33	1.8	<0.2	10	250	0.06	0.06	2.85	0.80	2.80	2.8	5
M993888		0.12	0.0010	0.14	0.18	0.9	<0.2	<10	80	<0.05	0.03	0.92	0.26	1.93	1.1	3
M993889		0.16	0.0008	0.11	0.67	2.4	<0.2	<10	220	0.11	0.12	1.42	0.90	8.93	5.2	14
M993890		0.20	0.0013	0.25	0.90	3.9	<0.2	<10	160	0.15	0.09	0.75	0.37	9.62	7.0	15
M993891		0.16	0.0016	0.16	0.42	2.2	<0.2	<10	140	0.07	0.07	0.95	0.24	2.58	3.1	8
M993892		0.12	0.0008	0.12	0.70	3.2	<0.2	<10	410	0.10	0.11	1.14	0.53	6.26	5.6	13
M993893		0.12	0.0008	0.09	0.67	1.7	<0.2	<10	260	0.14	0.09	0.76	0.18	8.11	4.8	17
M993894		0.16	0.0004	0.08	0.80	1.3	<0.2	<10	100	0.12	0.04	0.80	0.18	5.68	6.3	28
M993895		0.12	0.0007	0.32	0.38	1.0	<0.2	<10	260	0.10	0.06	1.33	0.66	3.00	3.4	19
M993896		0.12	0.0006	0.24	0.37	2.3	<0.2	10	580	0.07	0.12	2.92	1.81	2.81	3.2	7
M993897		0.18	0.0011	0.17	0.81	1.9	<0.2	<10	670	0.12	0.18	1.74	1.79	7.54	10.7	19
M993898		0.18	0.0015	0.19	1.05	2.1	<0.2	<10	140	0.19	0.11	1.41	0.70	12.50	9.9	21
M993899		0.14	0.0003	0.29	0.62	2.0	<0.2	<10	250	0.08	0.12	1.22	1.23	7.29	6.0	16
M993900		0.14	0.0003	0.37	0.54	2.0	<0.2	<10	220	0.10	0.12	1.21	1.44	6.74	5.0	14
M993901		0.20	0.0042	0.56	0.80	2.6	<0.2	10	60	0.17	0.08	2.40	0.36	6.95	2.7	12
M993902		0.14	0.0023	0.41	0.17	1.7	<0.2	10	140	<0.05	0.06	2.75	0.91	1.15	1.2	3
M993903		0.12	0.0004	0.35	0.20	1.0	<0.2	10	210	<0.05	0.05	2.35	0.47	1.24	2.0	7
M993904		0.12	0.0002	0.13	0.51	1.5	<0.2	<10	210	0.09	0.06	1.54	0.41	2.22	3.8	15
M993905		0.16	0.0019	0.16	0.82	2.8	<0.2	<10	190	0.13	0.07	1.13	0.53	8.02	5.6	18
M993906		0.12	0.0021	0.77	0.20	1.1	<0.2	10	280	0.05	0.08	2.26	1.12	2.24	2.2	4
M993907		0.18	0.0004	0.47	0.36	1.9	<0.2	<10	340	0.08	0.11	1.89	1.74	6.25	6.4	8
M993908		0.10	0.0004	0.33	0.26	1.3	<0.2	10	280	0.06	0.06	3.10	0.98	2.60	3.4	5
M993909		0.20	0.0014	0.19	0.65	3.6	<0.2	<10	460	0.12	0.13	2.53	1.30	9.43	7.9	14
M993910		0.14	0.0009	0.18	0.61	3.3	<0.2	<10	440	0.12	0.12	2.41	1.29	9.08	7.5	14
M993911		0.16	0.0014	0.18	1.60	3.3	<0.2	<10	180	0.48	0.11	1.13	0.36	26.2	10.7	31
M993912		0.18	0.0007	0.10	1.17	2.0	<0.2	<10	160	0.22	0.10	1.07	0.42	16.85	9.0	24
M993913		0.14	0.0003	0.39	0.22	1.3	<0.2	<10	150	0.05	0.07	1.44	0.56	2.01	1.5	4
M993914		0.14	0.0008	0.35	0.54	1.9	<0.2	10	90	0.18	0.07	3.36	0.54	9.84	3.2	7
M993915		0.14	0.0004	0.27	0.15	1.1	<0.2	<10	110	0.05	0.03	1.76	0.45	1.86	1.5	4
M993916		0.14	0.0006	0.40	1.93	5.6	<0.2	10	220	0.54	0.20	2.30	0.72	26.6	16.2	25
M993917		0.16	0.0004	0.10	0.33	1.3	<0.2	<10	90	0.07	0.03	1.05	0.28	2.68	1.9	5
M993918		0.22	0.0013	0.80	0.41	1.4	<0.2	<10	80	0.14	0.03	2.49	0.61	7.74	2.8	5
M993919		0.12	0.0006	0.19	0.34	1.7	<0.2	<10	240	0.05	0.06	1.56	0.89	3.60	3.5	7
M993920		0.14	0.0007	0.18	0.43	1.4	<0.2	<10	100	0.10	0.06	1.50	0.77	4.51	3.6	10

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
M993881		0.39	20.0	0.88	1.80	<0.05	0.02	0.18	0.007	0.08	3.4	4.3	0.26	1420	1.63	0.01
M993882		0.25	12.3	0.39	0.83	<0.05	<0.02	0.25	<0.005	0.07	1.4	1.7	0.22	2170	1.33	0.01
M993883		0.18	14.1	0.20	0.40	<0.05	<0.02	0.18	<0.005	0.05	1.1	0.3	0.09	47	0.60	0.01
M993884		0.38	20.5	0.54	1.14	<0.05	0.02	0.35	0.006	0.07	4.8	1.9	0.18	2110	2.03	0.01
M993885		0.11	10.5	0.19	0.44	<0.05	<0.02	0.26	<0.005	0.05	0.8	0.2	0.08	74	1.59	0.01
M993886		0.79	22.8	1.66	3.17	<0.05	<0.02	0.20	0.014	0.07	4.0	6.3	0.27	1420	2.86	0.01
M993887		0.31	12.6	0.48	0.92	<0.05	<0.02	0.26	0.006	0.07	1.8	2.2	0.14	2460	0.97	0.01
M993888		0.13	10.1	0.30	0.47	<0.05	<0.02	0.09	<0.005	0.05	1.1	0.7	0.08	294	0.81	0.01
M993889		0.36	15.4	1.23	2.01	<0.05	<0.02	0.23	0.014	0.08	4.4	6.8	0.25	2630	1.36	0.01
M993890		0.48	25.6	1.57	2.81	<0.05	<0.02	0.17	0.012	0.11	4.4	7.6	0.28	1600	0.63	0.01
M993891		0.24	18.9	0.67	1.33	<0.05	<0.02	0.31	0.009	0.05	1.3	1.8	0.14	673	0.63	0.01
M993892		0.55	15.4	1.22	2.30	<0.05	<0.02	0.24	0.012	0.10	3.1	6.0	0.24	3170	0.96	0.01
M993893		0.60	19.4	1.28	2.00	<0.05	<0.02	0.13	0.011	0.09	4.1	5.1	0.26	760	1.31	0.01
M993894		0.53	29.7	1.30	2.13	<0.05	0.02	0.06	0.007	0.09	2.7	5.5	0.47	679	0.90	0.02
M993895		0.38	29.9	0.76	1.29	<0.05	<0.02	0.11	0.008	0.06	1.5	1.7	0.15	1260	2.44	0.01
M993896		0.32	23.2	0.47	1.21	<0.05	<0.02	0.36	0.020	0.10	1.3	1.4	0.13	5550	1.11	0.01
M993897		0.60	29.0	1.38	2.72	<0.05	<0.02	0.17	0.020	0.07	3.6	6.1	0.27	7140	1.11	0.01
M993898		0.69	51.4	1.74	3.00	<0.05	0.03	0.14	0.012	0.10	10.8	12.7	0.38	1800	1.65	0.01
M993899		0.39	17.2	1.24	2.14	<0.05	<0.02	0.15	0.012	0.10	3.7	5.8	0.23	1760	1.19	0.01
M993900		0.34	20.6	1.07	1.91	<0.05	<0.02	0.15	0.010	0.10	3.5	4.5	0.21	897	1.13	0.01
M993901		0.42	77.5	0.88	1.56	<0.05	0.04	0.30	0.009	0.08	7.0	4.0	0.28	412	2.21	0.02
M993902		0.11	13.0	0.25	0.55	<0.05	<0.02	0.25	0.008	0.10	0.6	0.8	0.14	1500	1.75	0.01
M993903		0.16	10.5	0.27	0.61	<0.05	<0.02	0.19	0.006	0.06	0.6	0.7	0.14	1940	1.22	0.01
M993904		0.28	28.6	0.66	1.23	<0.05	<0.02	0.15	0.008	0.09	1.1	3.1	0.20	1760	2.51	0.01
M993905		0.40	14.8	1.44	2.33	<0.05	<0.02	0.15	0.009	0.08	3.8	8.6	0.34	1500	1.41	0.01
M993906		0.20	16.6	0.29	0.70	<0.05	<0.02	0.24	0.009	0.09	1.5	0.7	0.13	2000	1.41	0.02
M993907		0.35	21.3	0.65	1.46	<0.05	<0.02	0.23	0.012	0.07	2.9	2.6	0.14	4980	2.08	0.01
M993908		0.20	15.8	0.39	0.85	<0.05	<0.02	0.22	0.009	0.08	1.4	1.7	0.18	2330	2.37	0.01
M993909		0.33	19.1	1.15	2.26	<0.05	0.02	0.23	0.015	0.10	5.0	6.0	0.23	3310	2.56	0.01
M993910		0.32	18.1	1.07	2.09	<0.05	0.02	0.21	0.015	0.09	4.9	5.8	0.21	3120	2.43	0.01
M993911		0.72	28.3	2.42	4.28	0.06	0.03	0.07	0.015	0.16	19.9	17.7	0.51	953	1.10	0.01
M993912		0.55	20.4	2.17	3.33	<0.05	0.02	0.06	0.011	0.13	8.1	15.1	0.46	1040	1.36	0.01
M993913		0.16	10.5	0.33	0.56	<0.05	<0.02	0.20	0.007	0.05	1.2	0.5	0.06	288	1.24	0.01
M993914		0.31	24.4	0.73	1.36	<0.05	0.04	0.18	0.008	0.06	16.8	2.6	0.21	318	0.89	0.01
M993915		0.14	12.3	0.35	0.60	<0.05	<0.02	0.14	<0.005	0.05	1.1	0.7	0.11	105	0.84	0.01
M993916		1.06	52.7	2.40	4.39	0.06	0.04	0.16	0.023	0.14	16.6	12.1	0.35	1800	1.23	0.02
M993917		0.14	12.7	0.52	0.79	<0.05	<0.02	0.06	<0.005	0.05	1.4	1.6	0.13	85	2.03	0.01
M993918		0.15	114.0	0.51	0.86	<0.05	0.03	0.15	0.005	0.05	8.2	1.8	0.19	701	1.31	0.01
M993919		0.31	17.3	0.66	1.21	<0.05	<0.02	0.14	0.007	0.06	1.9	2.5	0.14	1700	3.17	0.01
M993920		0.40	16.6	0.79	1.21	<0.05	0.02	0.10	0.007	0.08	2.4	3.5	0.19	1080	3.29	0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
M993881		0.29	9.6	790	9.0	6.1	<0.001	0.13	0.20	1.0	0.4	0.2	182.5	<0.01	0.01	0.3
M993882		0.11	5.8	770	4.5	3.0	<0.001	0.13	0.17	0.5	0.3	<0.2	182.5	<0.01	0.01	<0.2
M993883		0.07	3.0	600	7.6	1.2	<0.001	0.12	0.17	0.4	0.3	<0.2	117.5	<0.01	<0.01	<0.2
M993884		0.21	9.6	770	12.1	3.3	0.001	0.14	0.30	1.2	0.4	0.2	238	<0.01	0.01	0.3
M993885		0.08	3.3	660	9.9	0.9	<0.001	0.13	0.21	0.4	0.2	0.2	119.5	<0.01	<0.01	<0.2
M993886		0.39	8.5	700	11.3	5.6	<0.001	0.07	0.30	2.1	0.2	0.3	207	<0.01	0.01	0.3
M993887		0.20	6.6	690	5.7	3.1	<0.001	0.12	0.14	0.7	0.4	<0.2	191.0	<0.01	0.01	0.2
M993888		0.11	3.0	490	4.6	1.4	<0.001	0.07	0.08	0.6	0.2	<0.2	77.7	<0.01	<0.01	0.2
M993889		0.40	9.5	540	15.1	5.1	<0.001	0.06	0.26	1.3	0.3	0.2	106.5	<0.01	0.02	0.5
M993890		0.51	11.0	670	9.4	5.3	<0.001	0.05	0.22	1.7	0.3	0.2	56.9	<0.01	0.01	0.6
M993891		0.20	5.8	640	12.1	2.4	<0.001	0.07	0.19	0.9	0.2	0.2	48.2	<0.01	0.01	<0.2
M993892		0.38	11.5	770	12.3	8.0	<0.001	0.08	0.28	1.1	0.4	0.2	56.6	<0.01	0.02	0.2
M993893		0.38	13.6	660	12.3	7.3	<0.001	0.06	0.18	1.3	0.3	0.2	40.3	<0.01	0.01	0.3
M993894		0.38	34.3	540	4.6	8.1	<0.001	0.04	0.09	1.4	0.2	<0.2	33.1	<0.01	0.01	0.4
M993895		0.21	8.9	510	9.3	3.8	<0.001	0.06	0.11	1.3	<0.2	0.2	69.9	<0.01	0.01	<0.2
M993896		0.17	9.2	830	21.6	3.6	<0.001	0.12	0.38	0.8	0.5	0.3	112.0	<0.01	0.03	0.2
M993897		0.33	15.9	600	22.5	10.2	<0.001	0.06	0.22	0.9	0.4	0.3	112.0	<0.01	0.10	<0.2
M993898		0.63	20.5	640	10.8	12.1	<0.001	0.08	0.19	2.0	0.7	0.2	70.1	<0.01	0.04	0.7
M993899		0.37	12.5	680	13.5	6.3	<0.001	0.08	0.18	1.2	0.3	0.3	75.8	<0.01	0.01	0.4
M993900		0.33	13.5	660	10.6	5.5	<0.001	0.09	0.17	1.1	0.3	0.2	77.9	<0.01	0.01	0.4
M993901		0.37	15.3	810	5.8	4.2	0.001	0.11	0.20	2.2	1.0	<0.2	94.9	<0.01	0.09	0.4
M993902		0.11	4.2	900	8.4	1.9	<0.001	0.14	0.18	0.5	0.3	<0.2	103.0	<0.01	0.01	<0.2
M993903		0.10	8.7	730	6.3	1.7	<0.001	0.10	0.11	0.5	0.2	<0.2	107.5	<0.01	0.01	<0.2
M993904		0.20	14.2	1030	11.0	2.7	<0.001	0.11	0.11	0.7	0.2	0.2	69.2	<0.01	0.02	<0.2
M993905		0.41	13.0	740	4.9	5.7	<0.001	0.07	0.18	1.1	0.3	0.2	61.8	<0.01	0.01	0.3
M993906		0.12	5.3	830	9.0	2.4	<0.001	0.12	0.20	0.7	0.4	0.2	143.0	<0.01	0.01	<0.2
M993907		0.24	9.4	820	13.6	4.4	<0.001	0.12	0.21	0.9	0.3	0.2	108.5	<0.01	0.02	0.2
M993908		0.16	7.8	700	7.5	2.4	<0.001	0.12	0.20	0.7	0.4	<0.2	172.0	<0.01	0.01	0.2
M993909		0.42	13.5	660	14.0	5.4	<0.001	0.09	0.32	1.6	0.6	0.3	198.5	<0.01	0.02	0.8
M993910		0.40	13.1	630	13.1	5.1	<0.001	0.08	0.31	1.5	0.5	0.3	187.0	<0.01	0.02	0.7
M993911		0.84	23.7	800	8.5	11.5	<0.001	0.05	0.22	3.6	0.6	0.2	97.3	<0.01	0.01	1.3
M993912		0.64	17.4	700	7.6	9.3	<0.001	0.05	0.17	2.1	0.3	0.2	84.6	<0.01	0.01	1.3
M993913		0.13	4.2	560	8.4	1.0	<0.001	0.12	0.17	0.8	0.3	<0.2	144.5	<0.01	0.01	0.2
M993914		0.33	9.4	790	4.5	3.6	<0.001	0.14	0.22	1.9	0.9	<0.2	199.0	0.01	0.01	0.4
M993915		0.23	3.7	630	2.6	2.0	<0.001	0.16	0.09	0.6	0.2	<0.2	123.0	<0.01	<0.01	<0.2
M993916		1.01	24.3	670	8.9	12.1	<0.001	0.09	0.31	4.7	1.0	0.3	156.5	0.01	0.03	1.1
M993917		0.16	4.2	460	1.7	2.0	<0.001	0.09	0.05	0.6	0.2	<0.2	118.0	<0.01	<0.01	<0.2
M993918		0.19	7.4	700	2.3	2.0	0.001	0.14	0.19	1.5	0.8	<0.2	162.0	<0.01	0.01	0.2
M993919		0.20	6.1	710	7.1	3.9	<0.001	0.10	0.13	1.0	0.2	<0.2	109.0	<0.01	0.01	0.2
M993920		0.23	6.9	970	6.9	4.0	<0.001	0.11	0.13	1.0	0.2	0.2	83.0	<0.01	0.01	0.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
M993881		0.024	0.03	0.14	19	0.05	1.46	79	0.5
M993882		0.011	0.03	0.07	8	<0.05	0.68	122	<0.5
M993883		0.007	0.02	0.05	4	<0.05	0.46	32	<0.5
M993884		0.014	0.06	0.15	10	0.05	3.68	69	0.7
M993885		0.007	<0.02	0.05	4	<0.05	0.38	31	<0.5
M993886		0.049	0.03	0.15	55	0.07	1.62	45	<0.5
M993887		0.013	0.02	0.07	8	<0.05	0.83	113	0.5
M993888		0.008	<0.02	<0.05	5	<0.05	0.45	28	<0.5
M993889		0.026	0.04	0.15	21	0.06	1.56	97	<0.5
M993890		0.040	0.04	0.16	31	0.08	1.44	57	<0.5
M993891		0.018	0.02	0.07	16	0.11	0.65	38	<0.5
M993892		0.032	0.07	0.12	27	0.07	1.14	74	<0.5
M993893		0.032	0.04	0.16	26	0.08	1.73	35	<0.5
M993894		0.042	0.03	0.11	28	0.06	1.56	49	0.7
M993895		0.024	0.03	0.07	16	0.07	0.74	99	<0.5
M993896		0.014	0.06	0.08	9	0.05	0.83	189	0.5
M993897		0.033	0.05	0.14	25	0.08	1.31	228	<0.5
M993898		0.036	0.07	0.26	29	0.11	8.11	75	0.5
M993899		0.033	0.03	0.14	23	0.07	1.02	111	<0.5
M993900		0.031	0.02	0.13	20	0.06	1.03	86	<0.5
M993901		0.017	0.04	0.27	18	0.11	9.86	30	1.1
M993902		0.006	0.02	<0.05	4	<0.05	0.37	80	<0.5
M993903		0.009	0.02	<0.05	5	0.05	0.40	59	<0.5
M993904		0.017	0.03	0.07	12	0.08	0.59	104	<0.5
M993905		0.030	0.03	0.15	24	0.08	1.14	82	<0.5
M993906		0.010	0.03	0.07	6	<0.05	0.75	71	<0.5
M993907		0.019	0.05	0.11	12	0.07	1.17	139	<0.5
M993908		0.009	0.02	0.07	6	<0.05	0.81	111	0.5
M993909		0.029	0.04	0.18	20	0.08	2.10	147	0.7
M993910		0.027	0.04	0.17	18	0.07	1.96	139	0.7
M993911		0.042	0.05	0.49	38	0.11	10.30	106	0.5
M993912		0.043	0.04	0.27	34	0.09	2.40	114	0.5
M993913		0.011	<0.02	0.07	5	<0.05	0.56	50	<0.5
M993914		0.015	0.02	0.34	10	0.07	13.55	44	0.9
M993915		0.017	<0.02	0.05	9	<0.05	0.40	36	<0.5
M993916		0.036	0.08	1.14	37	0.17	12.65	98	1.0
M993917		0.013	<0.02	0.07	9	<0.05	0.57	36	<0.5
M993918		0.008	0.02	0.39	6	<0.05	7.81	39	0.7
M993919		0.018	0.03	0.08	15	<0.05	0.79	109	<0.5
M993920		0.016	0.02	0.11	14	0.05	1.19	68	0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
M993921		0.22	0.0005	0.17	0.36	1.5	<0.2	<10	90	0.07	0.04	1.26	0.41	3.63	3.1	9
M993922		0.14	0.0010	0.23	0.19	1.6	<0.2	10	130	<0.05	0.06	2.90	1.33	1.78	2.7	4
M993923		0.14	0.0003	0.27	0.59	3.5	<0.2	<10	100	0.13	0.10	2.09	0.79	5.31	4.0	12
M993924		0.18	0.0009	0.19	0.49	2.3	<0.2	<10	100	0.10	0.07	1.53	0.51	6.52	3.7	10
M993925		0.20	0.0005	0.18	0.91	2.9	<0.2	<10	140	0.17	0.10	1.46	0.63	12.95	6.7	22
M993926		0.18	0.0016	0.27	1.86	6.8	<0.2	<10	100	0.52	0.15	1.12	0.41	28.6	13.4	37
M993927		0.20	0.0018	0.19	0.58	4.2	<0.2	10	130	0.18	0.07	3.22	0.61	7.61	7.0	11
M993928		0.14	0.0014	0.15	0.49	2.4	<0.2	10	50	0.16	0.07	3.10	0.37	5.98	3.3	9
M993929		0.22	0.0012	0.13	1.22	6.4	<0.2	<10	70	0.26	0.13	1.64	0.46	17.80	9.8	23
M993930		0.16	0.0020	0.26	1.54	6.1	<0.2	10	90	0.44	0.13	2.94	0.54	15.10	9.5	22
M993931		0.16	0.0007	0.14	0.16	1.5	<0.2	20	40	0.07	0.06	3.94	0.32	2.51	1.5	4
M993932		0.18	0.0011	0.07	0.83	2.6	<0.2	10	50	0.19	0.08	1.92	0.27	9.99	5.4	14
M993933		0.16	0.0006	0.11	0.74	2.5	<0.2	10	40	0.13	0.08	1.80	0.20	8.38	5.1	15
M993934		0.16	0.0008	0.30	0.15	3.5	<0.2	10	80	<0.05	0.06	2.83	0.45	2.29	1.1	3
M993935		0.16	<0.0001	0.09	0.28	8.4	<0.2	20	150	0.10	0.05	4.41	0.52	3.42	1.7	4
M993936		0.14	0.0006	0.09	0.70	2.4	<0.2	<10	130	0.16	0.08	1.57	0.59	9.25	5.7	18
M993937		0.18	0.0008	0.08	1.20	7.3	<0.2	<10	120	0.25	0.12	1.06	0.36	18.40	8.8	31
M993938		0.14	0.0012	0.09	1.03	3.4	<0.2	<10	110	0.23	0.11	1.12	0.40	13.50	9.1	31
M993939		0.14	0.0007	0.36	0.83	2.9	<0.2	<10	110	0.20	0.09	1.59	0.52	8.31	7.5	30
M993940		0.12	0.0007	0.20	0.27	2.0	<0.2	<10	170	0.07	0.11	1.89	0.60	4.13	3.5	7
M993941		0.10	0.0003	0.11	0.58	3.1	<0.2	<10	300	0.14	0.13	2.14	1.18	7.54	5.9	17
M993942		0.18	0.0002	0.13	0.37	1.5	<0.2	<10	130	0.07	0.05	1.66	0.33	4.17	3.4	11
M993943		0.14	0.0005	0.19	0.82	2.3	<0.2	<10	90	0.13	0.10	1.24	0.48	7.95	5.5	16
M993944		0.14	0.0011	0.15	0.93	4.6	<0.2	<10	110	0.17	0.10	1.32	0.36	9.00	6.4	17
M993945		0.14	0.0012	0.30	1.69	5.5	<0.2	10	200	0.37	0.16	2.24	0.60	17.15	8.1	21
M993946		0.16	0.0002	0.10	0.59	2.1	<0.2	<10	130	0.13	0.06	1.67	0.36	6.85	4.4	13
M993947		0.18	0.0008	0.12	0.56	2.9	<0.2	10	180	0.08	0.07	1.61	0.52	7.22	3.5	12
M993948		0.20	0.0020	0.10	1.69	5.5	<0.2	10	240	0.35	0.11	1.37	0.21	24.7	9.9	30
M993949		0.24	0.0017	0.37	2.11	7.4	<0.2	10	240	0.44	0.14	1.16	0.27	27.0	12.2	31
M993950		0.18	0.0009	0.19	1.91	5.5	<0.2	10	210	0.42	0.10	1.02	0.26	25.2	10.5	31
M993951		0.20	0.0024	0.36	0.31	2.7	<0.2	20	100	0.08	0.04	3.28	0.42	3.11	1.8	8
M993952		0.18	0.0008	0.24	0.40	1.3	<0.2	10	100	0.08	0.05	2.68	0.57	4.31	2.5	7
M993953		0.16	0.0006	0.27	0.50	2.9	<0.2	<10	250	0.09	0.13	2.14	0.81	5.83	4.1	10
M993954		0.14	0.0001	0.23	0.36	2.0	<0.2	<10	150	0.08	0.06	0.70	0.47	3.43	3.0	11
M993955		0.18	0.0019	0.12	1.78	4.1	<0.2	<10	240	0.30	0.12	0.98	0.37	15.85	9.6	34
M993956		0.16	0.0004	0.21	0.71	2.8	<0.2	<10	180	0.15	0.09	0.91	0.46	8.47	5.9	24
M993957		0.18	0.0012	0.30	1.55	5.2	<0.2	<10	150	0.39	0.11	1.66	0.51	18.75	7.5	22
M993958		0.16	0.0001	0.29	0.25	1.3	<0.2	<10	150	0.05	0.08	1.47	0.53	2.98	2.2	7
M993959		0.16	0.0001	0.51	0.20	2.3	<0.2	<10	250	<0.05	0.10	1.03	0.81	1.95	1.9	4
M993960		0.14	0.0015	0.31	0.49	1.8	<0.2	<10	390	0.13	0.13	1.90	1.47	6.48	5.7	14

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
M993921		0.27	11.6	0.70	0.97	<0.05	<0.02	0.07	<0.005	0.06	1.7	2.5	0.19	232	2.62	0.01
M993922		0.29	21.7	0.38	0.73	<0.05	<0.02	0.25	0.007	0.04	0.9	1.1	0.11	1380	4.93	0.01
M993923		0.48	27.3	0.96	1.85	<0.05	<0.02	0.21	0.013	0.07	2.8	7.5	0.19	640	5.10	0.01
M993924		0.45	24.9	0.82	1.51	<0.05	0.02	0.13	0.007	0.06	3.1	7.9	0.23	806	6.40	0.01
M993925		0.73	29.4	1.60	2.63	<0.05	0.03	0.16	0.012	0.09	6.1	14.4	0.35	1180	4.77	0.01
M993926		1.05	78.4	2.88	5.30	0.05	0.07	0.17	0.019	0.09	18.9	29.9	0.58	1020	1.91	0.02
M993927		0.37	120.5	1.01	1.74	<0.05	0.05	0.20	0.010	0.07	5.5	5.5	0.26	4120	4.17	0.01
M993928		0.34	44.9	0.74	1.32	<0.05	0.05	0.18	0.008	0.07	4.6	4.1	0.24	392	2.00	0.01
M993929		0.72	45.1	2.25	3.67	0.05	0.03	0.08	0.014	0.10	9.2	15.8	0.44	638	1.42	0.01
M993930		0.95	92.1	2.46	3.85	0.05	0.05	0.17	0.024	0.10	10.9	18.6	0.53	782	1.62	0.02
M993931		0.13	29.8	0.23	0.42	<0.05	0.02	0.26	0.006	0.03	4.1	1.2	0.18	246	1.10	0.01
M993932		0.48	22.5	1.39	2.40	<0.05	0.02	0.09	0.009	0.06	5.0	14.4	0.31	371	2.18	0.01
M993933		0.58	49.1	1.40	2.56	<0.05	0.02	0.11	0.011	0.07	4.2	10.4	0.30	274	2.19	0.01
M993934		0.16	14.3	0.27	0.60	<0.05	<0.02	0.25	0.007	0.06	3.0	1.2	0.14	288	1.40	0.01
M993935		0.21	24.1	0.39	0.79	<0.05	0.02	0.19	0.006	0.02	3.1	2.0	0.15	190	0.98	0.01
M993936		0.52	24.5	1.19	2.26	<0.05	<0.02	0.15	0.010	0.08	4.2	8.3	0.26	1060	1.44	0.01
M993937		0.78	22.8	2.26	4.39	<0.05	<0.02	0.11	0.014	0.11	9.1	18.9	0.43	1000	1.34	0.01
M993938		0.68	20.2	2.05	3.88	<0.05	<0.02	0.13	0.010	0.09	6.4	12.9	0.38	1200	1.76	0.01
M993939		0.73	18.9	1.83	3.56	<0.05	0.02	0.16	0.012	0.07	4.2	9.8	0.32	1140	1.03	0.02
M993940		0.41	18.1	0.47	1.04	<0.05	<0.02	0.25	0.010	0.08	2.0	1.9	0.13	1880	1.72	0.01
M993941		0.34	15.5	1.26	2.18	<0.05	0.02	0.22	0.015	0.07	3.6	6.6	0.21	1840	2.05	0.01
M993942		0.36	15.6	0.70	1.30	<0.05	<0.02	0.10	0.009	0.11	2.0	3.3	0.20	1120	1.86	0.01
M993943		0.96	15.3	1.58	3.34	<0.05	<0.02	0.15	0.015	0.08	3.9	10.6	0.28	1020	1.16	0.01
M993944		1.03	18.0	1.77	3.52	<0.05	<0.02	0.13	0.014	0.08	4.3	10.7	0.29	795	1.44	0.02
M993945		1.28	51.0	2.05	3.99	<0.05	0.04	0.14	0.019	0.12	12.7	16.2	0.36	2030	1.15	0.02
M993946		0.48	18.6	0.95	1.84	<0.05	<0.02	0.11	0.011	0.08	3.3	6.2	0.23	790	1.51	0.01
M993947		0.56	21.0	1.09	2.21	<0.05	<0.02	0.12	0.009	0.07	3.5	7.1	0.26	365	1.48	0.01
M993948		0.96	26.4	2.56	4.96	0.06	0.03	0.08	0.019	0.25	11.5	18.7	0.48	800	2.16	0.03
M993949		1.26	35.5	3.02	5.84	0.05	0.02	0.14	0.022	0.35	13.8	17.7	0.57	1020	1.64	0.04
M993950		1.25	29.3	2.68	5.56	<0.05	0.03	0.07	0.021	0.32	12.1	16.9	0.51	814	2.13	0.05
M993951		0.20	46.4	0.44	0.88	<0.05	0.02	0.15	<0.005	0.04	2.3	4.8	0.19	210	1.72	0.02
M993952		0.33	31.7	0.54	1.06	<0.05	0.02	0.14	0.005	0.06	2.5	3.5	0.17	769	1.96	0.01
M993953		0.52	16.8	0.89	1.80	<0.05	0.02	0.28	0.015	0.07	2.9	5.2	0.19	1960	4.05	0.01
M993954		0.29	8.2	0.62	1.47	<0.05	<0.02	0.16	0.008	0.06	1.8	2.1	0.10	267	1.89	0.01
M993955		0.95	22.7	2.41	5.51	<0.05	<0.02	0.10	0.020	0.11	7.5	15.7	0.46	1200	2.24	0.02
M993956		0.57	15.4	1.33	3.14	<0.05	<0.02	0.11	0.011	0.07	4.0	6.5	0.22	1480	2.52	0.01
M993957		0.88	46.1	1.67	3.75	<0.05	0.02	0.12	0.017	0.12	16.0	9.4	0.33	1780	2.23	0.02
M993958		0.30	13.9	0.38	0.86	<0.05	<0.02	0.18	0.007	0.07	1.5	2.0	0.10	1760	2.00	0.01
M993959		0.15	14.9	0.24	0.63	<0.05	<0.02	0.29	0.013	0.10	1.0	0.6	0.06	2210	2.00	0.01
M993960		0.32	21.4	0.85	2.11	<0.05	<0.02	0.30	0.015	0.08	3.0	4.1	0.15	6130	4.77	0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
M993921		0.21	6.3	450	3.4	3.1	<0.001	0.09	0.10	1.0	0.2	<0.2	91.0	<0.01	<0.01	0.4
M993922		0.15	4.2	810	6.8	2.0	<0.001	0.16	0.17	0.7	0.4	<0.2	141.5	<0.01	0.01	<0.2
M993923		0.37	12.5	760	8.9	4.2	0.001	0.12	0.24	1.4	0.7	0.2	116.0	<0.01	0.04	0.3
M993924		0.32	9.0	610	6.5	5.5	<0.001	0.08	0.16	1.1	0.4	<0.2	96.2	<0.01	0.01	0.6
M993925		0.53	16.5	720	7.9	9.2	0.001	0.08	0.25	2.0	0.5	0.3	91.9	<0.01	0.04	1.1
M993926		0.87	30.4	570	8.2	9.1	0.001	0.05	0.36	5.3	0.9	0.3	84.5	<0.01	0.03	1.7
M993927		0.27	18.0	1040	4.7	3.7	0.002	0.16	0.52	1.2	2.1	<0.2	168.5	<0.01	0.03	0.4
M993928		0.27	10.1	900	3.4	4.2	0.001	0.17	0.31	1.5	1.5	<0.2	135.0	<0.01	0.03	0.4
M993929		0.66	19.4	650	7.8	8.2	<0.001	0.09	0.37	3.0	0.5	0.2	88.6	<0.01	0.04	1.0
M993930		0.59	23.6	1350	5.9	9.2	0.001	0.14	0.36	3.9	1.6	0.4	148.5	<0.01	0.02	0.5
M993931		0.08	5.2	830	6.3	1.2	<0.001	0.17	0.27	0.4	1.3	<0.2	167.5	<0.01	0.02	0.2
M993932		0.56	11.6	610	6.8	5.8	0.001	0.12	0.21	1.4	0.5	0.3	91.0	<0.01	0.01	0.6
M993933		0.46	11.5	510	5.2	5.7	0.001	0.09	0.17	1.4	<0.2	0.2	87.7	<0.01	0.01	0.6
M993934		0.11	3.1	630	6.8	1.5	<0.001	0.15	0.18	0.4	<0.2	<0.2	135.5	<0.01	0.04	<0.2
M993935		0.21	5.4	580	2.7	1.5	0.003	0.17	0.42	0.5	0.9	<0.2	220	<0.01	0.01	0.2
M993936		0.43	13.5	680	6.7	8.8	0.001	0.08	0.15	1.0	0.7	0.2	112.0	<0.01	<0.01	0.6
M993937		0.78	21.4	740	8.1	14.1	<0.001	0.06	0.22	1.9	0.3	0.3	77.0	<0.01	0.03	1.3
M993938		0.72	17.9	650	8.8	10.0	<0.001	0.06	0.20	2.0	0.4	0.3	81.0	<0.01	0.02	0.9
M993939		0.66	16.1	670	8.1	9.9	<0.001	0.07	0.18	1.5	0.7	0.3	101.0	<0.01	0.02	0.5
M993940		0.21	5.8	710	10.4	4.9	<0.001	0.11	0.19	0.8	0.7	0.3	132.0	<0.01	0.02	0.2
M993941		0.48	11.8	550	13.2	4.3	<0.001	0.11	0.27	1.4	0.2	0.3	125.0	<0.01	0.01	0.8
M993942		0.23	7.9	700	5.9	4.7	<0.001	0.09	0.14	0.7	<0.2	0.2	103.0	<0.01	<0.01	0.2
M993943		0.53	10.7	720	8.3	6.4	<0.001	0.08	0.22	1.5	<0.2	0.3	82.7	<0.01	0.03	0.5
M993944		0.54	11.9	990	6.8	7.1	<0.001	0.07	0.23	1.6	0.2	0.3	97.7	<0.01	0.04	0.5
M993945		0.88	19.4	780	7.8	12.5	0.001	0.08	0.33	4.1	0.6	0.3	136.0	<0.01	0.02	1.2
M993946		0.28	10.3	740	6.6	4.9	0.001	0.07	0.17	1.2	<0.2	0.2	84.2	<0.01	0.01	0.3
M993947		0.42	9.3	640	4.5	5.3	<0.001	0.08	0.22	1.3	0.6	0.2	119.5	<0.01	0.02	0.7
M993948		0.93	23.9	950	8.2	14.3	<0.001	0.04	0.31	4.3	0.7	0.4	112.5	<0.01	0.04	2.5
M993949		0.80	25.9	1500	8.8	16.8	0.001	0.04	0.37	5.3	0.4	0.3	96.3	<0.01	0.03	1.7
M993950		0.79	25.7	1270	7.3	17.3	<0.001	0.04	0.32	4.7	0.6	0.4	91.3	<0.01	0.01	1.7
M993951		0.18	6.7	550	3.5	2.1	<0.001	0.12	0.25	0.7	0.7	<0.2	104.0	<0.01	0.02	0.2
M993952		0.21	7.1	790	7.6	4.0	<0.001	0.13	0.18	0.9	0.5	0.2	101.5	<0.01	0.02	0.2
M993953		0.30	8.9	520	15.6	5.8	<0.001	0.09	0.25	1.0	0.7	0.3	123.0	<0.01	0.02	0.5
M993954		0.22	7.5	730	5.2	2.8	0.001	0.08	0.18	0.8	0.5	0.2	71.8	<0.01	0.02	<0.2
M993955		0.78	26.8	1480	9.5	10.5	<0.001	0.05	0.26	2.5	0.7	0.4	88.5	<0.01	0.03	0.7
M993956		0.49	15.2	600	8.6	5.7	<0.001	0.05	0.21	1.3	0.4	0.3	69.7	<0.01	0.02	0.2
M993957		0.58	19.3	980	8.2	10.8	0.001	0.08	0.28	2.7	0.9	0.3	96.5	<0.01	0.02	0.3
M993958		0.16	6.7	670	11.9	3.7	<0.001	0.10	0.22	0.5	0.4	0.3	102.0	<0.01	0.02	0.2
M993959		0.08	5.0	770	14.7	1.6	<0.001	0.10	0.33	0.4	0.4	0.2	76.7	<0.01	0.01	<0.2
M993960		0.23	13.2	1050	14.0	4.3	<0.001	0.10	0.29	0.7	0.4	1.0	103.5	<0.01	0.04	<0.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
M993921		0.016	0.02	0.09	14	<0.05	0.82	62	0.5
M993922		0.011	0.03	0.06	8	<0.05	0.46	91	<0.5
M993923		0.030	0.04	0.25	22	0.08	1.80	72	0.7
M993924		0.016	0.04	0.16	14	<0.05	1.60	71	0.8
M993925		0.030	0.05	0.29	27	0.17	2.76	85	0.9
M993926		0.056	0.09	1.50	56	0.14	15.75	53	1.9
M993927		0.014	0.08	2.70	18	0.05	6.60	34	1.2
M993928		0.012	0.03	0.92	12	0.05	5.08	43	1.5
M993929		0.031	0.05	0.61	37	0.11	5.94	59	1.0
M993930		0.035	0.05	1.36	52	0.11	13.20	75	1.3
M993931		0.005	0.02	0.21	7	<0.05	4.06	33	0.7
M993932		0.027	0.04	0.34	24	0.06	3.42	57	0.8
M993933		0.032	0.03	0.20	31	0.06	1.91	58	0.7
M993934		0.009	<0.02	0.09	6	<0.05	1.39	24	0.5
M993935		0.009	<0.02	0.88	6	<0.05	2.73	56	0.8
M993936		0.032	0.04	0.37	22	0.09	1.94	92	<0.5
M993937		0.049	0.04	0.37	37	0.11	2.94	88	<0.5
M993938		0.051	0.05	0.28	44	0.47	2.22	76	0.6
M993939		0.057	0.03	0.20	43	0.09	1.78	77	0.7
M993940		0.016	0.04	0.09	9	0.06	0.88	48	<0.5
M993941		0.028	0.03	0.16	24	0.09	1.36	99	0.7
M993942		0.018	<0.02	0.08	13	0.05	0.95	63	<0.5
M993943		0.045	0.03	0.20	41	0.07	1.12	69	0.5
M993944		0.045	0.04	0.27	39	0.06	1.77	63	<0.5
M993945		0.039	0.08	2.03	38	0.12	10.80	95	1.2
M993946		0.022	0.02	0.21	19	0.07	2.17	63	<0.5
M993947		0.031	0.02	0.18	22	0.06	1.05	54	0.7
M993948		0.056	0.07	0.44	46	0.15	7.34	57	1.1
M993949		0.060	0.07	0.45	55	0.15	10.25	91	0.6
M993950		0.052	0.06	0.41	49	0.14	8.39	61	0.7
M993951		0.010	<0.02	0.59	21	<0.05	2.80	22	0.7
M993952		0.013	0.03	0.15	11	0.07	2.56	91	0.6
M993953		0.026	0.03	0.14	17	0.07	1.11	107	0.7
M993954		0.024	<0.02	0.10	17	0.06	0.90	26	0.5
M993955		0.066	0.06	0.36	49	0.16	3.01	98	0.5
M993956		0.044	0.04	0.17	32	0.12	1.52	62	<0.5
M993957		0.026	0.06	0.43	36	0.12	11.50	56	<0.5
M993958		0.013	0.03	0.07	7	0.06	0.72	57	<0.5
M993959		0.008	0.04	0.05	5	0.05	0.59	62	<0.5
M993960		0.022	0.07	0.13	16	0.09	1.23	97	<0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
M993961		0.16	0.0005	0.26	1.23	1.8	<0.2	10	340	0.29	0.07	2.04	0.63	11.95	6.7	22
M993962		0.12	0.0030	0.11	1.04	2.7	<0.2	<10	130	0.19	0.09	1.00	0.23	10.35	7.3	23
M993963		0.26	0.0016	0.09	0.18	2.2	<0.2	10	40	0.06	0.04	2.50	0.09	2.35	2.6	5
M993964		0.28	0.0011	0.08	0.11	1.2	<0.2	<10	30	0.05	0.03	1.77	0.10	1.26	1.8	4
M993965		0.20	0.0081	0.10	0.10	3.6	<0.2	10	50	<0.05	0.03	2.48	0.15	1.52	3.4	4
M993966		0.30	0.0019	0.07	0.13	1.8	<0.2	20	20	0.05	0.04	3.08	0.14	1.25	1.7	5
M993967		0.16	0.0023	0.14	0.26	2.9	<0.2	10	30	0.08	0.04	3.22	0.17	2.74	1.6	6
M993968		0.22	0.0031	0.18	0.21	2.0	<0.2	10	30	0.08	0.04	3.30	0.24	2.74	1.8	6
M993969		0.20	0.0009	0.26	0.95	2.0	<0.2	<10	80	0.23	0.12	2.29	0.71	11.75	8.2	18
M993970		0.16	0.0007	0.13	0.62	1.5	<0.2	<10	90	0.14	0.07	0.96	0.56	6.66	4.1	19
M993971		0.12	0.0004	0.15	0.34	1.4	<0.2	10	110	0.07	0.10	3.67	3.09	3.73	7.4	9
M993972		0.12	0.0004	0.14	0.48	1.4	<0.2	<10	310	0.13	0.16	1.81	1.88	6.07	6.2	12
M993973		0.14	0.0006	0.11	0.57	1.3	<0.2	<10	80	0.10	0.07	1.00	0.41	5.40	3.4	15
M993974		0.16	0.0007	0.12	1.38	2.5	<0.2	<10	260	0.25	0.14	1.04	0.63	15.80	8.6	32
M993975		0.16	0.0019	0.12	1.28	2.4	<0.2	<10	250	0.22	0.13	1.04	0.60	13.00	7.9	35
M993976		0.14	0.0005	0.27	0.61	1.2	<0.2	<10	500	0.14	0.09	2.37	0.87	6.68	5.0	27
M993977		0.16	0.0009	0.29	0.43	1.0	<0.2	<10	270	0.08	0.11	2.15	1.01	4.76	4.2	11
M993978		0.14	0.0006	0.20	0.50	1.3	<0.2	<10	150	0.11	0.11	2.60	0.95	5.91	6.3	13
M993979		0.18	0.0008	0.21	0.49	1.9	<0.2	<10	230	0.09	0.09	1.58	0.56	4.51	3.6	13
M993980		0.12	0.0028	0.50	1.41	2.5	<0.2	<10	280	0.21	0.18	1.74	0.95	6.65	9.9	51
M993981		0.16	0.0006	0.19	0.38	1.6	<0.2	<10	680	0.09	0.19	3.01	1.01	4.32	2.6	6
M993982		0.18	0.0007	0.29	0.57	2.1	<0.2	<10	510	0.11	0.14	2.15	0.90	6.67	4.3	10
M993983		0.20	0.0009	0.22	0.35	2.4	<0.2	<10	400	0.08	0.12	1.97	0.74	4.32	3.1	6
M993984		0.20	0.0007	0.08	1.12	2.2	<0.2	<10	290	0.20	0.13	1.01	0.57	12.85	6.7	18
M993985		0.18	0.0005	0.38	0.30	1.7	<0.2	<10	720	0.06	0.12	2.55	1.43	2.64	2.4	5
M993986		0.18	0.0002	0.13	0.35	2.8	<0.2	<10	320	0.10	0.06	0.85	0.65	4.90	1.8	21
M993987		0.18	0.0022	0.37	0.78	1.9	<0.2	<10	270	0.17	0.09	1.17	0.70	7.52	4.7	26
M993988		0.14	0.0006	0.20	0.75	4.6	<0.2	<10	190	0.15	0.07	1.23	0.48	5.17	4.4	24
M993989		0.16	0.0027	0.58	0.67	2.1	<0.2	<10	1180	0.13	0.16	2.94	1.79	5.77	7.2	19
M993990		0.18	0.0017	0.12	1.61	2.9	<0.2	<10	300	0.25	0.16	0.90	0.54	15.25	8.1	42
M993991		0.18	0.0007	0.27	0.34	1.4	<0.2	<10	610	0.09	0.13	3.02	1.52	3.52	3.4	8
M993992		0.18	0.0005	0.25	0.24	1.4	<0.2	<10	370	0.06	0.11	2.38	1.36	2.23	2.1	6
M993993		0.16	0.0011	0.29	0.30	2.1	<0.2	<10	320	0.06	0.11	2.48	1.64	3.32	2.9	10
M993994		0.18	0.0042	0.46	0.56	1.5	<0.2	<10	310	0.12	0.11	1.55	1.09	6.64	6.4	18
M993995		0.20	0.0033	1.52	2.60	6.4	<0.2	10	530	0.89	0.27	4.34	1.43	45.5	13.3	40
M993996		0.14	0.0027	0.57	0.90	1.8	<0.2	<10	280	0.29	0.13	2.54	0.68	16.40	4.0	15
M993997		0.18	0.0004	0.54	0.19	1.5	<0.2	<10	300	0.06	0.09	1.66	0.45	2.54	1.3	4
M993998		0.18	0.0014	0.64	0.64	2.0	<0.2	<10	160	0.13	0.12	1.24	0.92	7.09	5.9	14
M993999		0.16	0.0021	0.32	1.64	4.3	<0.2	<10	190	0.40	0.15	1.21	0.58	19.40	11.0	30
M994000		0.20	0.0014	0.27	1.54	3.5	<0.2	<10	160	0.33	0.16	1.10	0.49	20.2	9.3	31

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
M993961		0.63	40.3	1.45	3.59	<0.05	0.02	0.04	0.010	0.35	5.7	9.1	0.30	2540	1.74	0.03
M993962		0.51	29.8	1.70	3.72	<0.05	<0.02	0.08	0.013	0.07	4.8	11.1	0.32	652	2.32	0.01
M993963		0.19	27.3	0.79	0.49	<0.05	0.02	0.11	<0.005	0.04	1.3	1.6	0.13	615	1.42	0.01
M993964		0.11	21.4	0.59	0.30	<0.05	<0.02	0.11	<0.005	0.03	0.7	0.7	0.09	519	0.49	0.01
M993965		0.15	109.5	0.82	0.29	<0.05	0.02	0.12	<0.005	0.06	0.9	0.4	0.14	852	0.78	0.02
M993966		0.10	23.3	0.36	0.32	<0.05	0.02	0.16	<0.005	0.04	0.7	0.7	0.14	465	0.85	0.01
M993967		0.13	43.2	0.55	0.60	<0.05	0.03	0.17	0.005	0.03	2.1	1.4	0.14	97	1.41	0.02
M993968		0.09	62.8	0.62	0.53	<0.05	0.03	0.21	<0.005	0.03	1.8	1.1	0.14	598	1.21	0.01
M993969		0.70	26.2	1.39	2.91	<0.05	0.02	0.11	0.011	0.09	6.9	12.1	0.29	878	1.66	0.01
M993970		0.41	23.5	1.07	2.01	<0.05	<0.02	0.12	0.008	0.09	3.2	5.9	0.19	586	2.06	0.01
M993971		0.37	27.2	0.57	1.21	<0.05	0.02	0.13	0.011	0.11	2.5	3.7	0.16	1260	0.90	0.02
M993972		0.54	22.5	0.80	1.90	<0.05	<0.02	0.28	0.020	0.10	3.0	3.9	0.15	7140	3.52	0.02
M993973		0.56	19.2	1.01	2.07	<0.05	<0.02	0.16	0.007	0.12	2.6	8.2	0.23	1160	2.64	0.01
M993974		0.62	21.4	2.28	5.16	<0.05	<0.02	0.11	0.016	0.10	7.2	14.0	0.40	1480	1.28	0.01
M993975		0.59	22.5	2.21	4.58	<0.05	<0.02	0.10	0.013	0.11	5.9	12.5	0.38	1610	1.56	0.01
M993976		0.47	29.6	0.92	1.96	<0.05	<0.02	0.19	0.010	0.10	3.0	5.4	0.22	3420	1.67	0.01
M993977		0.29	22.9	0.69	1.32	<0.05	<0.02	0.19	0.010	0.07	2.2	2.9	0.18	1900	1.05	0.01
M993978		0.34	18.3	0.99	1.98	<0.05	<0.02	0.18	0.011	0.08	3.0	4.1	0.22	1640	1.59	0.01
M993979		0.32	17.7	0.84	1.70	<0.05	<0.02	0.21	0.012	0.09	2.0	3.8	0.18	1730	1.48	0.01
M993980		0.86	38.5	1.88	4.73	<0.05	<0.02	0.19	0.020	0.10	3.0	8.1	0.71	3190	1.34	0.02
M993981		0.24	32.4	0.49	1.14	<0.05	0.02	0.28	0.025	0.08	3.2	1.7	0.14	3940	1.91	0.02
M993982		0.38	36.6	0.86	2.15	<0.05	<0.02	0.24	0.022	0.09	4.1	4.5	0.18	3960	2.02	0.01
M993983		0.44	11.4	0.55	1.30	<0.05	<0.02	0.27	0.012	0.07	2.5	1.9	0.13	3310	1.00	0.02
M993984		0.60	16.6	1.74	4.05	<0.05	<0.02	0.14	0.013	0.11	6.2	12.4	0.31	1650	0.99	0.02
M993985		0.26	14.8	0.30	0.79	<0.05	<0.02	0.31	0.018	0.08	1.5	0.9	0.09	6600	1.34	0.02
M993986		0.39	7.4	0.75	1.73	<0.05	<0.02	0.14	0.005	0.05	2.3	1.3	0.10	115	0.74	0.01
M993987		0.40	25.0	1.33	2.84	<0.05	<0.02	0.10	0.011	0.10	3.5	4.5	0.22	907	1.16	0.02
M993988		0.42	18.3	1.17	2.51	<0.05	<0.02	0.11	0.011	0.06	2.4	3.7	0.24	552	1.30	0.02
M993989		0.40	32.6	0.88	1.96	<0.05	<0.02	0.37	0.023	0.11	2.6	4.2	0.19	7660	5.05	0.02
M993990		0.75	38.9	2.53	5.56	<0.05	<0.02	0.09	0.019	0.11	7.2	16.3	0.42	1170	2.14	0.02
M993991		0.18	26.3	0.48	1.07	<0.05	0.02	0.31	0.015	0.09	2.0	1.8	0.12	4840	3.25	0.02
M993992		0.25	16.2	0.30	0.75	<0.05	<0.02	0.30	0.014	0.10	1.2	0.9	0.14	2750	1.67	0.02
M993993		0.31	20.3	0.45	1.00	<0.05	<0.02	0.33	0.012	0.06	2.1	1.5	0.13	2650	2.32	0.02
M993994		0.51	34.4	0.99	1.98	<0.05	0.02	0.20	0.012	0.07	3.0	5.0	0.18	1510	5.30	0.02
M993995		1.25	887	2.80	6.38	0.15	0.07	0.38	0.039	0.20	58.2	20.5	0.57	2810	4.63	0.03
M993996		0.49	390	1.03	2.17	0.08	0.03	0.21	0.018	0.09	22.5	6.5	0.22	1560	2.70	0.02
M993997		0.26	20.2	0.30	0.67	<0.05	<0.02	0.24	0.014	0.05	1.6	0.8	0.11	378	3.25	0.01
M993998		0.40	23.4	1.06	2.22	<0.05	<0.02	0.16	0.009	0.07	3.8	5.9	0.21	491	1.67	0.01
M993999		0.80	37.6	2.52	5.23	<0.05	0.03	0.11	0.021	0.15	13.5	15.7	0.43	1120	1.22	0.02
M994000		0.79	32.2	2.34	4.73	<0.05	0.02	0.11	0.016	0.14	14.4	16.4	0.39	960	1.42	0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
M993961		0.50	16.3	1990	8.6	12.8	<0.001	0.05	0.17	1.9	0.2	0.3	135.5	<0.01	0.01	0.5
M993962		0.50	16.3	670	6.9	7.6	<0.001	0.06	0.19	1.4	0.6	0.3	73.3	<0.01	0.03	0.3
M993963		0.10	4.1	820	2.3	1.6	0.002	0.22	0.13	0.6	0.5	<0.2	106.0	<0.01	0.01	0.2
M993964		0.06	2.6	650	2.7	0.8	0.001	0.15	0.10	0.4	0.3	<0.2	87.2	<0.01	0.02	<0.2
M993965		0.06	2.8	850	2.0	1.1	0.001	0.25	0.54	0.6	0.5	<0.2	125.0	<0.01	0.03	0.2
M993966		0.07	3.4	810	4.1	0.9	0.003	0.27	0.18	0.4	0.5	<0.2	103.0	<0.01	0.02	0.2
M993967		0.14	5.7	600	2.0	1.1	0.008	0.29	0.22	1.0	1.4	<0.2	107.5	<0.01	0.01	0.3
M993968		0.12	6.5	730	2.2	1.0	0.049	0.42	0.32	0.9	3.9	<0.2	105.5	<0.01	0.01	0.3
M993969		0.62	16.8	740	6.9	11.8	0.001	0.12	0.18	1.5	0.3	0.2	90.7	<0.01	0.02	0.8
M993970		0.30	12.8	830	8.1	5.0	0.001	0.07	0.14	0.9	<0.2	0.2	56.8	<0.01	<0.01	0.5
M993971		0.18	11.9	1290	12.2	6.9	0.001	0.14	0.17	0.5	0.4	0.2	164.5	<0.01	0.02	0.2
M993972		0.22	10.9	1110	22.5	5.7	0.001	0.10	0.24	0.8	0.2	0.3	91.2	<0.01	0.02	0.3
M993973		0.30	9.5	1070	5.5	5.7	<0.001	0.09	0.12	0.6	<0.2	0.2	40.2	<0.01	0.02	0.3
M993974		0.71	18.8	490	10.3	11.3	<0.001	0.03	0.18	2.0	0.5	0.3	81.7	<0.01	0.01	1.3
M993975		0.64	18.9	570	9.3	10.7	0.001	0.04	0.19	1.7	0.3	0.3	75.0	<0.01	0.02	1.3
M993976		0.30	19.3	690	10.1	10.0	<0.001	0.09	0.20	1.0	0.2	1.0	139.0	<0.01	0.02	0.5
M993977		0.22	8.0	560	16.5	3.9	<0.001	0.09	0.23	0.9	0.2	0.4	99.0	<0.01	0.03	0.5
M993978		0.30	10.2	520	10.9	5.6	<0.001	0.08	0.17	0.9	0.4	0.3	95.8	<0.01	0.04	0.5
M993979		0.29	8.1	550	10.6	5.5	<0.001	0.07	0.27	1.0	0.2	0.3	87.3	<0.01	0.03	0.5
M993980		0.52	31.9	1000	66.8	10.5	<0.001	0.07	0.34	1.4	<0.2	0.6	104.5	<0.01	0.03	<0.2
M993981		0.19	7.8	770	26.2	2.5	<0.001	0.11	0.35	0.8	0.2	0.3	218	<0.01	0.04	0.2
M993982		0.28	9.8	740	19.1	5.2	<0.001	0.08	0.26	1.1	0.2	0.3	177.5	<0.01	0.04	0.4
M993983		0.17	5.9	550	14.2	4.3	<0.001	0.06	0.22	0.8	0.8	0.3	163.0	<0.01	0.04	0.3
M993984		0.59	13.5	650	14.4	8.5	<0.001	0.05	0.19	1.8	<0.2	0.4	92.5	<0.01	<0.01	1.0
M993985		0.11	6.6	760	18.2	2.1	<0.001	0.10	0.26	0.4	0.4	0.3	179.5	<0.01	0.03	<0.2
M993986		0.24	6.5	430	3.7	2.7	0.001	0.05	0.13	1.1	0.5	0.2	90.2	<0.01	0.02	0.4
M993987		0.15	11.4	610	8.3	6.5	<0.001	0.06	0.14	0.2	<0.2	0.3	87.8	<0.01	0.01	<0.2
M993988		0.31	13.7	740	6.0	4.2	<0.001	0.09	0.20	0.9	0.3	0.2	77.5	<0.01	0.03	<0.2
M993989		0.24	14.6	930	19.9	5.8	<0.001	0.12	0.35	0.8	<0.2	0.4	141.0	<0.01	0.04	0.2
M993990		0.81	23.5	640	14.4	10.3	<0.001	0.04	0.27	2.2	0.3	0.5	59.4	<0.01	0.05	0.9
M993991		0.15	9.0	890	15.3	2.7	<0.001	0.13	0.24	0.6	0.3	0.3	175.5	<0.01	0.02	0.2
M993992		0.11	4.8	890	19.8	2.7	<0.001	0.12	0.25	0.4	0.4	0.3	131.5	<0.01	<0.01	<0.2
M993993		0.16	7.2	740	13.1	5.4	0.001	0.14	0.27	0.6	0.5	0.2	155.0	<0.01	0.05	0.2
M993994		0.33	11.6	570	13.8	7.0	0.001	0.07	0.22	1.0	0.2	0.3	79.5	<0.01	0.01	0.7
M993995		1.38	53.0	1710	26.6	20.5	0.001	0.22	0.53	4.9	1.8	0.7	216	0.01	<0.01	1.1
M993996		0.47	24.9	890	16.6	6.5	<0.001	0.11	0.24	2.2	1.0	0.3	107.0	<0.01	0.02	0.8
M993997		0.13	4.9	540	12.1	2.1	0.001	0.12	0.24	0.5	0.2	0.2	95.6	<0.01	<0.01	0.2
M993998		0.40	10.9	590	10.9	6.2	<0.001	0.10	0.23	0.9	<0.2	0.2	90.2	<0.01	<0.01	0.3
M993999		1.05	25.8	740	9.8	12.3	<0.001	0.06	0.25	3.5	0.5	0.4	102.5	<0.01	0.01	1.5
M994000		0.94	24.2	670	9.2	11.7	<0.001	0.05	0.20	2.7	0.4	0.3	79.1	<0.01	<0.01	1.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
M993961		0.038	0.02	0.20	27	0.10	2.71	107	0.5
M993962		0.042	0.03	0.21	35	0.12	2.06	53	<0.5
M993963		0.005	0.02	0.15	5	<0.05	1.98	13	0.6
M993964		<0.005	0.02	0.07	3	<0.05	1.03	17	0.5
M993965		<0.005	0.02	0.11	3	<0.05	1.46	27	0.6
M993966		<0.005	0.02	0.17	4	<0.05	1.08	13	0.6
M993967		0.006	0.02	0.70	6	<0.05	3.18	39	1.0
M993968		0.005	0.02	3.23	10	<0.05	3.33	9	1.3
M993969		0.027	0.05	0.29	22	0.09	3.82	62	0.9
M993970		0.022	<0.02	0.13	16	0.07	1.07	54	<0.5
M993971		0.015	<0.02	0.08	9	0.06	1.05	298	0.5
M993972		0.020	0.04	0.12	14	0.08	1.30	114	<0.5
M993973		0.020	0.02	0.10	14	0.06	0.70	50	<0.5
M993974		0.055	0.05	0.24	45	0.12	1.91	76	<0.5
M993975		0.054	0.05	0.23	44	0.12	1.65	80	0.5
M993976		0.022	0.05	0.11	15	0.09	1.43	233	0.5
M993977		0.020	0.03	0.10	13	0.06	1.05	97	0.6
M993978		0.025	0.02	0.12	17	0.07	1.22	19	0.5
M993979		0.026	0.02	0.11	17	0.08	0.90	69	0.6
M993980		0.058	0.04	0.22	54	0.26	2.17	161	<0.5
M993981		0.015	0.03	0.10	9	0.07	2.49	134	0.6
M993982		0.027	0.04	0.16	18	0.08	2.37	97	0.6
M993983		0.018	0.03	0.10	11	0.05	1.23	43	<0.5
M993984		0.048	0.04	0.22	35	0.09	1.99	76	0.5
M993985		0.009	0.04	0.06	5	0.06	1.00	169	0.5
M993986		0.031	<0.02	0.12	21	0.08	0.87	31	<0.5
M993987		0.022	0.02	0.15	32	0.08	1.29	86	<0.5
M993988		0.033	<0.02	0.13	24	0.11	1.15	62	<0.5
M993989		0.021	0.07	0.12	15	0.11	1.21	197	<0.5
M993990		0.064	0.04	0.26	52	0.15	2.00	89	<0.5
M993991		0.013	0.04	0.09	9	0.08	1.24	194	0.5
M993992		0.010	0.04	0.06	6	<0.05	0.71	187	<0.5
M993993		0.015	0.03	0.07	9	0.06	1.16	88	<0.5
M993994		0.025	0.04	0.12	17	0.16	1.05	84	0.5
M993995		0.046	0.10	1.45	44	0.22	44.8	131	2.3
M993996		0.020	0.05	0.52	15	0.11	18.15	69	1.1
M993997		0.010	0.02	0.08	6	0.06	0.69	62	<0.5
M993998		0.029	0.03	0.15	18	0.08	1.50	56	0.5
M993999		0.069	0.08	0.48	49	0.14	8.00	78	1.1
M994000		0.050	0.06	0.47	37	0.14	7.26	72	0.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
M994001		0.20	0.0010	0.07	1.03	2.8	<0.2	<10	260	0.23	0.12	0.55	0.38	9.64	5.7	17
M994002		0.16	0.0007	0.06	1.38	2.9	<0.2	<10	360	0.28	0.15	0.87	0.64	13.95	7.6	22
M994003		0.20	0.0028	0.18	0.87	2.0	<0.2	<10	290	0.17	0.14	0.92	0.89	12.30	5.3	22
M994004		0.18	0.0011	0.05	1.33	3.5	<0.2	<10	170	0.23	0.11	0.63	0.27	19.10	7.7	33
M994005		0.18	0.0051	0.20	2.30	5.0	<0.2	10	140	0.48	0.14	0.75	0.18	30.6	13.1	43
M994006		0.14	0.0077	0.40	0.80	4.3	<0.2	10	100	0.22	0.08	2.69	0.48	10.65	9.2	19
M994007		0.16	0.0036	0.34	0.21	1.1	<0.2	10	150	0.07	0.07	1.52	0.42	2.72	2.4	11
M994008		0.16	0.0010	0.67	0.14	1.2	<0.2	10	90	<0.05	0.08	3.05	0.69	1.54	1.5	4
M994009		0.14	0.0031	0.39	0.98	2.6	<0.2	<10	200	0.17	0.09	1.08	0.45	11.85	7.4	53
M994010		0.14	0.0009	0.70	0.34	0.9	<0.2	<10	180	0.09	0.08	1.41	0.90	9.87	2.9	16
M994011		0.12	NSS	0.51	0.77	2.2	<0.2	<10	360	0.23	0.09	1.47	0.91	12.60	6.1	27

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
M994001		0.56	17.2	1.66	3.57	<0.05	<0.02	0.12	0.012	0.07	5.0	8.1	0.21	868	0.77	0.01
M994002		0.79	13.8	1.84	4.91	<0.05	<0.02	0.10	0.013	0.10	7.0	13.3	0.30	2650	1.07	0.01
M994003		0.45	20.4	1.61	3.61	<0.05	<0.02	0.10	0.016	0.08	6.4	8.6	0.23	1720	0.95	0.01
M994004		0.67	21.2	2.28	4.13	0.05	<0.02	0.11	0.014	0.12	9.4	18.0	0.45	1140	1.60	0.01
M994005		1.15	40.8	3.16	6.09	0.05	0.03	0.07	0.018	0.31	13.6	18.4	0.70	662	1.00	0.04
M994006		0.46	51.4	1.38	2.04	<0.05	0.03	0.25	0.012	0.11	6.8	6.2	0.30	1530	1.91	0.02
M994007		0.34	31.2	0.39	0.86	<0.05	<0.02	0.26	0.008	0.09	1.5	1.3	0.14	826	1.83	0.02
M994008		0.18	16.3	0.19	0.40	<0.05	0.02	0.24	0.018	0.07	1.2	0.6	0.14	674	3.00	0.02
M994009		0.55	31.7	1.75	3.18	<0.05	<0.02	0.10	0.010	0.09	6.1	10.6	0.43	1880	1.58	0.02
M994010		0.22	24.3	0.55	1.26	<0.05	<0.02	0.12	0.008	0.08	7.5	2.1	0.14	1820	1.12	0.02
M994011		0.41	23.4	1.06	2.57	<0.05	<0.02	0.19	0.014	0.08	7.1	3.5	0.17	2870	1.24	0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
M994001		0.59	13.8	510	11.8	6.2	<0.001	0.05	0.20	1.3	<0.2	0.3	49.6	<0.01	<0.01	0.8
M994002		0.66	17.5	740	17.0	11.1	<0.001	0.04	0.19	1.8	<0.2	0.5	59.8	<0.01	<0.01	1.1
M994003		0.45	13.0	430	14.6	7.8	<0.001	0.04	0.20	1.1	0.6	0.4	78.5	<0.01	0.03	0.3
M994004		0.67	22.5	540	9.7	12.7	<0.001	0.05	0.18	1.7	<0.2	0.3	53.3	<0.01	0.01	1.2
M994005		0.91	29.7	1690	8.4	15.9	0.001	0.04	0.23	4.1	0.2	0.4	86.5	<0.01	0.03	2.8
M994006		0.35	15.8	1280	8.0	5.7	<0.001	0.22	0.26	1.4	1.4	0.2	147.5	<0.01	0.01	0.5
M994007		0.17	5.5	1040	8.4	3.8	<0.001	0.16	0.18	0.5	<0.2	0.2	83.6	<0.01	0.01	0.2
M994008		0.11	4.6	880	9.5	1.5	0.001	0.19	0.21	0.4	0.6	0.2	165.5	0.01	0.02	<0.2
M994009		0.43	26.4	690	10.6	9.1	0.001	0.05	0.18	1.3	<0.2	0.3	88.7	<0.01	<0.01	0.3
M994010		0.21	8.5	600	10.5	4.3	<0.001	0.08	0.17	0.7	0.3	0.3	109.0	<0.01	<0.01	0.2
M994011		0.34	17.2	610	10.1	6.3	0.001	0.07	0.19	1.2	0.8	0.3	124.5	<0.01	<0.01	0.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
M994001		0.037	0.04	0.18	28	0.12	1.10	59	<0.5
M994002		0.038	0.06	0.21	27	0.14	1.72	123	0.5
M994003		0.041	0.05	0.19	34	0.10	1.29	123	<0.5
M994004		0.044	0.06	0.28	34	0.11	2.11	73	<0.5
M994005		0.067	0.06	0.39	46	0.15	4.98	75	0.9
M994006		0.020	0.05	0.27	21	0.11	6.53	44	0.9
M994007		0.013	0.02	0.09	8	0.05	0.61	67	<0.5
M994008		0.006	0.02	0.07	3	0.06	0.58	35	0.5
M994009		0.048	0.04	0.23	34	0.11	1.86	87	<0.5
M994010		0.019	0.03	0.10	12	0.07	4.29	102	<0.5
M994011		0.029	0.04	0.20	20	0.09	3.11	175	<0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 24-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126857

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.
ME-MS41	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26-JUN-2012
Account: GOFICA

CERTIFICATE VA12131457

Project: RedGold

P.O. No.: RG-2012-002ah

This report is for 107 Soil samples submitted to our lab in Vancouver, BC, Canada on 11-JUN-2012.

The following have access to data associated with this certificate:

ELEANOR BLACK	JACQUELINE BLACKWELL	NATE BREWER
MATT ECKFELDT	JULIANNE MADSEN	AMELIA RAINBOW
ROSS SHERLOCK	TWILA SKINNER	TIM STUBLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-TL43	Trace Level Au - 25g AR	ICP-MS
Au-ST43	Super Trace Au - 25g AR	ICP-MS
ME-MS41	51 anal. aqua regia ICPMS	

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131457

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
M994012		0.14	0.0010	0.11	0.55	2.2	<0.2	20	60	0.07	0.05	2.33	1.20	3.81	7.5	33
M994013		0.14	0.0015	0.11	1.17	3.7	<0.2	10	90	0.19	0.08	1.77	0.68	12.85	10.9	49
M994014		0.16	0.0007	0.33	0.35	1.9	<0.2	20	210	0.06	0.06	2.80	1.54	2.95	5.4	20
M994015		0.16	0.0026	0.40	0.67	1.6	<0.2	10	110	0.10	0.10	1.58	0.84	5.70	12.6	66
M994016		0.16	0.0020	0.37	0.48	0.9	<0.2	10	240	0.05	0.09	2.40	1.07	3.00	6.3	46
M994017		0.14	0.0012	0.47	0.36	1.1	<0.2	20	360	0.05	0.07	3.25	2.40	2.11	6.2	23
M994018		0.16	0.0006	0.24	0.56	1.5	<0.2	10	350	0.09	0.09	2.48	2.70	4.15	9.2	37
M994019		0.14	0.0012	0.44	0.49	2.5	<0.2	<10	250	0.08	0.08	1.40	1.41	3.91	12.1	62
M994020		0.10	0.0012	0.48	0.32	2.4	<0.2	10	540	0.06	0.09	2.00	1.98	2.36	4.6	18
M994021		0.14	0.0001	0.46	0.37	3.5	<0.2	<10	530	0.09	0.07	1.89	1.35	3.22	6.0	18
M994022		0.14	0.0028	0.17	0.84	1.6	<0.2	<10	190	0.07	0.06	1.07	0.27	4.74	9.6	53
M994023		0.16	0.0006	0.39	0.17	1.5	<0.2	10	140	<0.05	0.05	2.71	0.45	1.31	1.8	16
M994024		0.14	0.0016	0.32	0.32	2.2	<0.2	10	250	0.05	0.12	2.79	0.84	3.11	3.7	14
M994025		0.18	0.0011	0.25	0.43	2.0	<0.2	10	360	0.07	0.12	3.02	1.02	4.14	4.9	11
M994026		0.12	0.0010	0.21	0.52	3.2	<0.2	<10	350	0.10	0.15	1.05	1.92	6.19	7.8	30
M994027		0.14	0.0009	0.33	0.42	3.1	<0.2	10	280	0.10	0.11	1.86	1.57	4.55	6.3	25
M994028		0.12	0.0006	0.38	0.37	3.0	<0.2	10	230	0.06	0.11	2.77	1.22	2.93	4.8	8
M994029		0.12	0.0010	0.28	0.23	2.7	<0.2	10	200	<0.05	0.12	2.47	1.28	2.90	2.8	6
M994030		0.10	0.0032	0.25	0.27	4.7	<0.2	<10	230	0.06	0.18	1.21	1.58	4.50	4.0	6
M994031		0.14	0.0030	0.14	0.63	7.5	<0.2	<10	620	0.16	0.21	2.36	2.82	7.52	8.9	11
M994032		0.14	0.0009	0.33	0.25	3.7	<0.2	10	220	0.05	0.16	2.08	1.32	3.07	3.6	5
M994033		0.14	0.0005	0.50	0.34	4.6	<0.2	10	490	0.08	0.12	2.43	4.25	3.98	5.1	17
M994034		0.12	0.0003	0.22	0.12	1.0	<0.2	<10	120	<0.05	0.06	0.82	0.40	1.07	0.7	2
M994035		0.16	0.0024	0.43	2.06	4.0	<0.2	<10	130	0.58	0.20	0.81	0.87	21.9	10.3	41
M994036		0.14	0.0014	0.21	0.37	3.0	<0.2	<10	310	0.09	0.16	2.16	2.64	5.95	6.6	17
M994037		0.16	0.0007	0.37	0.30	2.1	<0.2	<10	110	0.08	0.11	1.90	1.54	4.15	3.7	10
M994038		0.16	0.0006	0.28	0.17	1.0	<0.2	10	140	<0.05	0.07	2.15	2.24	2.52	2.7	10
M994039		0.16	0.0007	0.48	0.27	1.6	<0.2	<10	110	0.07	0.09	2.23	3.40	4.04	4.0	15
M994040		0.14	0.0011	0.79	0.57	2.5	<0.2	<10	180	0.11	0.07	1.69	1.27	5.44	4.5	16
M994041		0.18	0.0018	0.12	0.07	0.4	<0.2	10	20	<0.05	0.02	2.20	0.22	1.06	1.3	2
M994042		0.16	0.0037	0.19	0.39	1.5	<0.2	<10	40	0.07	0.04	2.37	0.46	3.32	3.5	15
M994043		0.12	0.0022	0.23	0.98	3.8	<0.2	<10	60	0.26	0.07	1.63	0.32	11.50	9.6	33
M994044		0.18	0.0004	0.22	1.29	3.1	<0.2	<10	200	0.21	0.10	0.70	0.35	10.90	8.3	36
M994045		0.14	0.0007	0.22	0.35	1.9	<0.2	<10	130	0.05	0.07	1.86	0.36	3.97	2.4	17
M994046		0.20	NSS	0.34	0.33	2.5	<0.2	10	50	0.13	0.05	3.09	0.43	3.43	8.5	6
M994047		0.20	0.0035	0.23	0.15	3.9	<0.2	<10	30	0.07	0.02	2.46	0.17	1.26	5.3	3
M994048		0.14	0.0005	0.10	0.22	6.2	<0.2	<10	40	<0.05	0.04	1.13	0.28	1.57	1.9	3
M994049		0.16	0.0017	0.19	0.67	4.5	<0.2	<10	370	0.13	0.13	2.19	1.22	5.81	7.1	27
M994050		0.12	0.0010	0.20	0.47	3.1	<0.2	10	370	0.08	0.10	2.58	1.33	4.19	4.8	12
M994051		0.16	0.0008	0.16	0.91	7.2	<0.2	<10	540	0.19	0.16	2.08	1.55	7.98	9.2	27

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131457

Sample Description	Method / Analyte / Units / LOR	ME-MS41 Cs ppm 0.05	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01
M994012		0.29	25.9	1.06	1.87	0.05	0.02	0.13	0.005	0.14	1.8	6.7	0.53	406	1.17	0.02
M994013		0.59	29.6	1.96	3.23	<0.05	0.03	0.12	0.011	0.20	5.1	12.7	0.93	802	1.93	0.03
M994014		0.19	16.3	0.65	1.08	<0.05	0.02	0.27	0.007	0.09	1.5	2.5	0.43	2430	2.40	0.02
M994015		0.25	25.5	1.58	2.54	<0.05	0.02	0.19	0.012	0.13	2.8	5.0	0.80	1460	3.15	0.02
M994016		0.21	18.4	0.95	1.38	<0.05	0.02	0.29	0.012	0.11	1.6	2.9	0.67	1620	4.58	0.03
M994017		0.21	20.8	0.51	0.88	<0.05	0.02	0.23	0.009	0.14	1.1	2.0	0.47	3390	3.12	0.02
M994018		0.26	26.9	0.97	1.86	<0.05	0.02	0.20	0.013	0.14	1.7	4.9	0.62	3570	2.81	0.02
M994019		0.33	14.2	1.49	1.84	<0.05	<0.02	0.23	0.009	0.09	1.8	3.4	0.58	4090	2.08	0.02
M994020		0.31	16.7	0.50	0.96	<0.05	<0.02	0.37	0.011	0.09	1.1	2.1	0.27	9310	2.25	0.02
M994021		0.20	13.2	0.62	1.14	<0.05	<0.02	0.35	0.007	0.09	1.5	1.9	0.16	7450	1.29	0.03
M994022		0.57	20.0	1.38	2.41	<0.05	<0.02	0.21	0.008	0.11	2.0	4.7	0.82	2350	0.96	0.02
M994023		0.24	12.3	0.27	0.48	<0.05	<0.02	0.25	0.006	0.11	0.7	0.7	0.11	1820	4.58	0.02
M994024		0.49	17.2	0.54	1.12	<0.05	<0.02	0.35	0.016	0.10	1.4	1.8	0.16	4080	4.15	0.02
M994025		0.48	23.3	0.65	1.43	<0.05	0.02	0.39	0.018	0.11	1.8	2.3	0.20	5470	4.51	0.03
M994026		0.43	17.8	1.01	2.06	<0.05	<0.02	0.28	0.017	0.11	2.5	3.8	0.19	7670	3.56	0.02
M994027		0.32	22.9	0.85	1.74	<0.05	<0.02	0.29	0.015	0.10	1.9	2.5	0.17	4900	2.83	0.02
M994028		0.34	20.1	0.63	1.33	<0.05	<0.02	0.35	0.013	0.12	1.2	1.6	0.17	4600	2.52	0.02
M994029		0.29	21.8	0.37	0.85	<0.05	<0.02	0.31	0.014	0.10	1.3	1.2	0.11	4610	2.49	0.02
M994030		0.40	14.4	0.47	1.03	<0.05	<0.02	0.31	0.018	0.09	1.9	1.6	0.09	3920	3.20	0.02
M994031		0.47	16.6	0.97	2.14	<0.05	<0.02	0.33	0.024	0.09	3.2	4.0	0.16	11550	2.79	0.03
M994032		0.27	11.4	0.40	0.91	<0.05	<0.02	0.34	0.018	0.05	1.5	1.1	0.09	4200	5.84	0.02
M994033		0.44	16.0	0.42	0.95	<0.05	<0.02	0.47	0.013	0.11	2.0	0.9	0.11	10450	3.52	0.02
M994034		0.19	8.6	0.14	0.31	<0.05	<0.02	0.27	0.007	0.05	0.5	0.2	0.04	220	0.96	0.02
M994035		1.15	53.7	2.14	6.79	0.06	<0.02	0.26	0.024	0.17	11.4	10.2	0.42	413	0.87	0.02
M994036		0.38	24.1	0.69	1.52	<0.05	0.02	0.20	0.019	0.11	2.6	1.7	0.14	4350	2.64	0.02
M994037		0.24	17.9	0.51	1.10	<0.05	<0.02	0.26	0.010	0.09	2.2	1.5	0.14	925	2.72	0.02
M994038		0.25	16.0	0.36	0.62	<0.05	<0.02	0.20	0.008	0.10	1.2	0.8	0.16	2140	1.94	0.02
M994039		0.32	30.6	0.59	1.03	<0.05	<0.02	0.19	0.009	0.09	2.0	1.4	0.15	1220	1.73	0.02
M994040		0.32	21.2	0.93	1.67	<0.05	0.03	0.24	0.010	0.09	2.5	4.4	0.20	1670	1.28	0.02
M994041		0.08	22.8	0.22	0.19	<0.05	<0.02	0.10	<0.005	0.05	0.5	0.4	0.11	977	1.57	0.02
M994042		0.20	19.5	0.66	1.15	<0.05	0.02	0.14	0.005	0.04	1.7	3.5	0.20	1180	0.80	0.02
M994043		0.49	41.7	1.68	2.56	<0.05	0.02	0.13	0.008	0.06	5.0	8.0	0.34	1060	0.82	0.02
M994044		0.73	24.7	1.91	4.44	<0.05	<0.02	0.10	0.012	0.10	5.0	9.0	0.31	1960	0.99	0.02
M994045		0.22	12.3	0.67	1.64	<0.05	<0.02	0.15	0.006	0.04	2.0	1.8	0.13	706	1.16	0.02
M994046		0.18	104.5	1.38	0.68	<0.05	0.04	0.28	<0.005	0.04	2.9	1.1	0.18	2180	3.52	0.02
M994047		0.06	64.7	1.28	0.36	<0.05	0.02	0.16	<0.005	0.03	1.5	0.8	0.13	1690	3.85	0.03
M994048		0.14	12.3	0.33	0.77	<0.05	<0.02	0.17	0.006	0.04	0.8	0.4	0.10	34	1.94	0.01
M994049		0.37	22.8	1.25	2.91	<0.05	0.02	0.21	0.017	0.09	2.9	4.9	0.29	4250	1.60	0.01
M994050		0.30	26.8	0.70	1.76	<0.05	0.02	0.20	0.014	0.09	2.2	3.4	0.22	3840	1.73	0.01
M994051		0.51	35.1	1.40	3.34	<0.05	<0.02	0.23	0.021	0.09	4.0	6.6	0.26	6960	1.72	0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131457

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
M994012		0.33	26.4	1020	4.9	3.9	0.001	0.12	0.15	0.8	<0.2	0.2	94.0	<0.01	0.01	0.2
M994013		0.66	47.1	970	6.3	9.0	0.001	0.08	0.26	2.2	0.7	0.2	75.6	<0.01	0.02	0.9
M994014		0.17	26.4	1010	7.3	1.9	0.001	0.13	0.24	0.5	0.3	0.2	122.0	<0.01	0.01	0.2
M994015		0.41	52.0	950	10.6	3.9	0.001	0.08	0.25	1.3	<0.2	0.2	69.4	<0.01	<0.01	0.2
M994016		0.24	42.3	1280	13.5	2.3	<0.001	0.12	0.38	0.6	<0.2	0.3	113.5	<0.01	<0.01	<0.2
M994017		0.15	30.6	1310	8.7	2.4	0.001	0.12	0.24	0.4	<0.2	0.2	140.5	<0.01	0.03	<0.2
M994018		0.26	36.4	1470	13.7	3.3	<0.001	0.12	0.24	0.6	<0.2	0.3	111.5	<0.01	0.02	<0.2
M994019		0.26	48.1	970	9.2	2.9	0.001	0.08	0.29	0.9	<0.2	0.2	83.5	<0.01	0.02	<0.2
M994020		0.12	21.6	1130	15.0	2.5	<0.001	0.10	0.34	0.4	<0.2	0.2	99.3	<0.01	<0.01	<0.2
M994021		0.16	14.9	950	7.0	1.7	0.001	0.07	0.22	0.8	0.3	0.2	115.5	<0.01	0.03	0.2
M994022		0.31	51.6	860	11.7	5.1	<0.001	0.06	0.21	1.3	0.3	0.3	73.9	<0.01	0.02	0.2
M994023		0.08	8.6	970	9.0	1.2	<0.001	0.09	0.26	0.4	<0.2	0.2	134.0	<0.01	0.01	<0.2
M994024		0.20	12.8	1050	19.8	2.9	<0.001	0.11	0.33	0.7	0.2	0.3	138.0	<0.01	0.02	<0.2
M994025		0.28	12.6	1230	23.5	5.6	<0.001	0.12	0.35	1.0	<0.2	0.4	151.5	<0.01	0.02	0.2
M994026		0.27	14.2	1130	25.1	5.8	0.001	0.07	0.32	0.9	0.2	0.4	52.2	<0.01	0.03	<0.2
M994027		0.23	12.0	1170	16.1	4.2	0.001	0.09	0.31	0.9	<0.2	0.3	71.2	<0.01	0.06	<0.2
M994028		0.23	7.5	1160	17.3	4.5	0.001	0.11	0.35	0.9	0.4	0.3	110.0	<0.01	0.02	<0.2
M994029		0.15	7.1	1120	26.1	2.7	0.001	0.11	0.24	0.5	<0.2	0.3	101.5	<0.01	0.03	<0.2
M994030		0.19	6.4	990	35.1	3.2	0.002	0.07	0.34	0.7	0.4	0.4	61.4	<0.01	0.02	0.2
M994031		0.35	16.5	830	25.9	5.7	0.001	0.07	0.33	1.0	<0.2	0.4	150.5	<0.01	0.04	0.3
M994032		0.17	6.8	1020	26.4	1.6	0.002	0.12	0.38	0.5	0.3	0.3	118.5	<0.01	<0.01	<0.2
M994033		0.15	17.6	1230	13.9	2.9	0.002	0.10	0.35	0.6	0.3	0.3	136.5	<0.01	0.02	<0.2
M994034		0.06	3.5	740	9.4	2.3	<0.001	0.09	0.23	0.3	<0.2	0.2	45.8	<0.01	<0.01	<0.2
M994035		0.91	38.7	1610	15.6	14.3	<0.001	0.08	0.32	3.2	0.8	0.6	60.5	<0.01	<0.01	0.3
M994036		0.25	10.3	840	25.0	4.9	0.001	0.08	0.29	0.9	0.2	0.4	119.0	<0.01	0.03	0.3
M994037		0.21	8.1	840	15.4	3.0	<0.001	0.11	0.35	0.6	0.3	0.3	106.0	<0.01	0.01	0.2
M994038		0.14	5.6	1100	11.2	3.3	<0.001	0.15	0.25	0.3	<0.2	0.2	84.6	<0.01	0.01	<0.2
M994039		0.19	10.3	730	10.4	6.2	<0.001	0.10	0.26	0.7	<0.2	0.2	105.0	<0.01	0.01	0.2
M994040		0.28	12.5	690	7.5	4.3	0.001	0.08	0.29	1.2	0.4	0.2	120.0	<0.01	0.03	0.4
M994041		<0.05	3.0	930	1.3	1.1	0.003	0.18	0.12	0.1	0.2	<0.2	61.9	<0.01	<0.01	<0.2
M994042		0.23	8.6	940	3.9	2.1	0.003	0.16	0.20	0.5	<0.2	<0.2	62.5	<0.01	0.01	0.2
M994043		0.50	20.7	1040	4.4	6.2	0.001	0.16	0.24	1.3	<0.2	0.2	59.4	<0.01	0.02	0.3
M994044		0.66	17.6	1500	8.3	10.5	0.001	0.02	0.25	1.6	<0.2	0.3	51.8	<0.01	0.02	0.6
M994045		0.31	5.8	640	5.1	3.1	0.001	0.09	0.27	0.5	<0.2	0.2	87.0	<0.01	0.02	0.2
M994046		0.12	10.4	1360	4.2	1.5	0.016	0.25	0.38	0.9	2.4	<0.2	100.5	<0.01	0.02	0.2
M994047		0.06	7.0	740	2.2	0.7	0.009	0.14	0.31	0.5	1.4	<0.2	81.5	<0.01	0.02	<0.2
M994048		0.12	4.0	600	6.7	1.1	<0.001	0.13	0.19	0.7	0.5	<0.2	84.7	<0.01	0.01	<0.2
M994049		0.38	15.2	690	18.6	5.3	<0.001	0.06	0.28	1.5	0.5	0.3	164.0	<0.01	0.03	0.4
M994050		0.26	10.2	700	17.7	3.9	<0.001	0.08	0.23	1.0	0.4	0.3	194.0	<0.01	0.02	0.3
M994051		0.36	17.0	750	21.6	7.3	<0.001	0.06	0.26	0.9	0.4	0.4	159.5	<0.01	0.03	<0.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131457

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
M994012		0.031	<0.02	0.10	27	0.07	0.85	161	0.7
M994013		0.045	0.05	0.23	38	0.09	2.46	78	1.3
M994014		0.016	0.03	0.08	13	<0.05	0.81	37	0.7
M994015		0.044	0.03	0.17	38	0.13	1.70	84	0.7
M994016		0.024	0.03	0.12	18	0.13	0.75	69	0.5
M994017		0.015	0.04	0.07	10	0.15	0.74	126	0.5
M994018		0.025	0.02	0.12	21	0.12	1.03	352	0.7
M994019		0.036	0.03	0.12	24	0.12	0.87	105	<0.5
M994020		0.014	0.06	0.07	9	0.07	0.74	290	<0.5
M994021		0.018	0.03	0.08	12	0.11	0.91	166	<0.5
M994022		0.043	0.05	0.12	31	0.10	1.49	78	<0.5
M994023		0.009	0.02	<0.05	7	0.10	0.49	49	<0.5
M994024		0.020	0.04	0.09	13	0.14	0.90	93	0.6
M994025		0.026	0.04	0.10	19	0.11	1.29	127	0.8
M994026		0.030	0.09	0.14	24	0.13	1.08	185	<0.5
M994027		0.026	0.07	0.11	22	0.12	1.01	183	<0.5
M994028		0.029	0.06	0.10	21	0.11	0.80	117	0.5
M994029		0.013	0.06	0.08	8	0.12	0.72	146	<0.5
M994030		0.016	0.11	0.09	10	0.12	0.82	125	<0.5
M994031		0.029	0.12	0.14	18	0.13	1.62	213	<0.5
M994032		0.013	0.08	0.08	8	0.11	0.74	90	<0.5
M994033		0.014	0.10	0.10	7	0.12	1.14	297	<0.5
M994034		0.005	0.02	<0.05	3	<0.05	0.28	51	<0.5
M994035		0.035	0.09	0.56	34	0.17	7.72	123	<0.5
M994036		0.023	0.05	0.12	16	0.12	1.11	157	0.5
M994037		0.016	0.02	0.11	12	0.07	0.84	122	0.5
M994038		0.011	0.07	0.07	8	<0.05	0.47	164	<0.5
M994039		0.019	0.03	0.12	14	0.07	0.83	165	0.5
M994040		0.026	0.03	0.13	20	0.06	1.25	187	0.9
M994041		<0.005	<0.02	0.06	4	<0.05	0.52	16	<0.5
M994042		0.015	0.02	0.12	14	<0.05	1.01	40	0.5
M994043		0.030	0.04	0.27	49	0.09	3.16	41	0.6
M994044		0.052	0.05	0.22	40	0.13	1.60	93	<0.5
M994045		0.022	0.02	0.09	19	0.07	0.51	58	<0.5
M994046		0.007	0.04	0.28	13	<0.05	4.84	29	1.0
M994047		<0.005	0.02	0.18	14	<0.05	2.66	10	0.6
M994048		0.011	<0.02	0.06	8	<0.05	0.56	19	<0.5
M994049		0.038	0.04	0.16	31	0.11	1.46	105	0.7
M994050		0.023	0.03	0.10	16	0.09	1.12	114	0.6
M994051		0.033	0.05	0.20	29	0.12	1.92	190	<0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131457

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
M994052		0.14	0.0014	0.14	0.97	8.0	<0.2	<10	150	0.17	0.08	0.75	0.42	7.58	7.7	40
M994053		0.12	0.0012	0.24	0.27	7.0	<0.2	<10	90	0.05	0.04	1.15	0.35	1.97	1.8	6
M994054		0.14	0.0006	0.15	1.04	5.0	<0.2	<10	330	0.14	0.12	1.41	0.71	6.41	8.0	18
M994055		0.12	NSS	0.13	0.53	2.9	<0.2	10	400	0.10	0.16	2.00	0.84	5.84	5.1	11
M994056		0.14	0.0009	0.25	0.51	3.9	<0.2	10	540	0.11	0.12	1.77	0.68	3.76	5.8	20
M994057		0.18	NSS	0.08	0.20	1.9	<0.2	10	200	0.05	0.08	2.64	0.42	2.65	2.1	3
M994058		0.16	0.0042	0.11	0.45	2.3	<0.2	10	420	0.08	0.07	1.95	0.83	3.63	3.6	11
M994059		0.16	0.0022	0.22	0.50	3.9	<0.2	<10	270	0.11	0.06	2.09	0.49	4.49	4.6	17
M994060		0.14	0.0016	0.64	0.47	4.9	<0.2	<10	160	0.10	0.12	1.61	1.01	4.15	5.8	18
M994061		0.10	0.0050	0.20	1.00	5.5	<0.2	<10	140	0.16	0.18	1.50	0.86	6.88	13.3	50
M994062		0.14	0.0009	0.15	0.21	1.9	<0.2	10	160	<0.05	0.08	2.21	1.04	1.85	2.1	7
M994063		0.16	0.0008	0.42	0.28	3.8	<0.2	10	280	0.05	0.08	2.46	1.21	2.13	3.0	13
M994064		0.14	0.0013	0.15	0.19	3.4	<0.2	<10	180	0.05	0.07	1.14	0.69	2.65	3.3	9
M994065		0.16	NSS	0.17	0.31	1.9	<0.2	10	200	0.07	0.09	2.37	1.00	3.10	3.4	11
M994066		0.18	0.0005	0.25	0.18	2.8	<0.2	<10	230	<0.05	0.07	1.56	0.96	2.08	1.9	6
M994067		0.18	0.0006	0.30	0.40	2.3	<0.2	10	140	0.08	0.05	1.66	0.83	3.25	5.1	19
M994068		0.16	0.0067	0.08	1.31	3.4	<0.2	<10	200	0.19	0.06	1.23	0.60	5.87	12.1	52
M994069		0.16	0.0043	0.13	1.35	4.1	<0.2	10	380	0.16	0.10	1.90	0.70	7.06	12.8	63
M994070		0.14	0.0037	0.17	1.24	2.6	<0.2	<10	250	0.20	0.07	1.45	0.51	10.10	11.9	59
M994071		0.16	0.0013	0.31	0.69	1.6	<0.2	10	300	0.11	0.09	2.04	0.71	4.72	8.7	44
M994072		0.16	NSS	0.53	0.58	2.0	<0.2	10	230	0.11	0.06	1.67	1.13	3.96	7.0	38
M994073		0.14	0.0021	0.20	1.17	2.4	<0.2	10	340	0.20	0.07	2.14	1.14	9.02	10.9	61
M994074		0.12	0.0019	0.34	0.46	1.6	<0.2	10	280	0.09	0.10	2.00	1.15	3.87	7.2	28
M994075		0.12	0.0016	0.25	0.24	1.0	<0.2	10	260	0.06	0.07	2.05	1.13	2.55	3.9	12
M994076		0.14	0.0015	0.37	0.45	1.4	<0.2	10	190	0.09	0.09	2.05	1.71	4.24	7.2	24
M994077		0.16	0.0069	0.94	1.05	4.4	<0.2	10	90	0.22	0.11	2.14	1.03	8.03	6.0	22
M994078		0.12	0.0023	0.48	0.93	4.2	<0.2	10	60	0.20	0.07	2.39	1.13	7.50	7.8	34
M994079		0.16	0.0012	0.53	0.32	1.2	<0.2	10	20	0.06	0.04	1.58	0.73	2.65	4.8	22
M994080		0.22	0.0035	0.27	1.39	3.3	<0.2	<10	120	0.21	0.10	1.19	0.32	9.59	10.3	27
M994081		0.22	0.0027	0.22	1.21	2.0	<0.2	<10	90	0.20	0.09	1.87	0.35	9.78	9.5	22
M994082		0.18	<0.0001	0.13	0.54	0.9	<0.2	<10	40	0.13	0.04	1.67	0.26	5.66	3.4	9
M994083		0.16	0.0006	0.51	0.33	1.5	<0.2	<10	130	0.07	0.09	1.49	0.46	3.73	3.3	9
M994084		0.32	0.0008	0.43	0.96	2.2	<0.2	<10	420	0.20	0.14	2.14	0.75	6.96	8.1	18
M994085		0.22	0.0022	0.14	0.96	2.3	<0.2	<10	190	0.19	0.09	0.94	0.30	8.25	8.1	15
M994086		0.24	0.0058	0.10	1.68	3.3	<0.2	<10	480	0.28	0.14	1.31	0.63	10.45	9.9	26
M994087		0.18	0.0007	0.15	0.45	1.7	<0.2	<10	390	0.06	0.11	1.85	0.52	3.18	2.4	6
M994088		0.22	0.0013	0.08	1.60	2.4	<0.2	<10	530	0.31	0.13	1.67	0.59	7.56	9.1	20
M994089		0.20	0.0006	0.23	0.19	0.8	<0.2	<10	130	<0.05	0.05	1.25	0.39	1.66	1.4	4
M994090		0.22	0.0007	0.51	0.38	1.1	<0.2	<10	430	0.08	0.08	1.81	0.77	3.67	3.5	8
M994091		0.18	NSS	0.13	0.33	1.1	<0.2	<10	130	0.08	0.07	0.78	0.23	3.75	3.3	12

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131457

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
M994052		0.48	21.8	1.77	3.75	<0.05	<0.02	0.09	0.012	0.09	3.7	7.9	0.34	1530	1.42	0.01
M994053		0.17	22.8	0.40	0.92	<0.05	<0.02	0.15	0.005	0.06	1.5	0.9	0.13	154	1.58	0.01
M994054		0.50	31.5	1.45	3.73	<0.05	<0.02	0.11	0.021	0.12	3.2	8.7	0.35	3320	1.67	0.01
M994055		0.79	21.4	0.76	2.01	<0.05	0.02	0.32	0.022	0.11	2.8	4.1	0.17	6640	2.26	0.01
M994056		0.45	26.2	0.76	1.90	<0.05	<0.02	0.38	0.015	0.09	1.8	2.9	0.18	6610	2.09	0.01
M994057		0.26	23.9	0.30	0.78	<0.05	<0.02	0.32	0.012	0.08	1.1	1.0	0.09	2540	2.13	0.01
M994058		0.32	26.5	0.64	1.52	<0.05	<0.02	0.26	0.010	0.10	1.7	4.1	0.17	5730	1.10	0.01
M994059		0.28	18.7	0.90	1.92	<0.05	<0.02	0.22	0.009	0.11	2.3	4.0	0.19	2370	0.85	0.01
M994060		0.35	18.4	1.05	2.51	<0.05	<0.02	0.35	0.015	0.11	2.1	4.0	0.16	2880	1.48	0.01
M994061		0.50	31.9	2.25	5.16	0.05	0.02	0.22	0.022	0.09	3.0	5.4	0.36	3410	4.27	0.01
M994062		0.18	20.1	0.33	0.78	<0.05	0.02	0.32	0.011	0.13	0.9	1.1	0.11	2560	2.60	0.01
M994063		0.21	19.3	0.46	1.20	<0.05	0.02	0.34	0.012	0.15	1.0	1.7	0.13	3450	1.52	0.01
M994064		0.18	25.7	0.39	0.91	<0.05	<0.02	0.25	0.008	0.12	1.4	1.0	0.09	2250	1.84	0.01
M994065		0.26	25.3	0.59	1.28	<0.05	0.02	0.31	0.013	0.12	1.6	3.3	0.17	2860	5.78	0.01
M994066		0.14	14.0	0.30	0.72	<0.05	<0.02	0.33	0.011	0.06	1.0	1.5	0.08	1970	1.80	0.01
M994067		0.27	23.0	0.98	1.77	<0.05	<0.02	0.19	0.009	0.13	1.6	3.7	0.26	2050	1.54	0.01
M994068		0.54	71.9	2.54	4.92	0.06	0.02	0.10	0.015	0.07	2.8	8.6	0.54	1740	0.99	0.01
M994069		0.70	42.8	2.65	5.03	0.06	0.02	0.28	0.019	0.13	3.5	8.9	0.57	4020	1.75	0.01
M994070		0.63	66.7	2.33	4.33	0.07	0.02	0.12	0.014	0.10	4.7	11.2	0.62	1590	1.76	0.01
M994071		0.27	30.3	1.51	2.95	0.05	0.02	0.15	0.014	0.13	2.4	4.7	0.42	2000	2.67	0.01
M994072		0.27	45.6	1.28	2.26	0.05	<0.02	0.14	0.011	0.11	1.8	4.8	0.42	1570	1.74	0.01
M994073		0.50	99.1	2.43	4.21	0.07	<0.02	0.10	0.017	0.14	3.8	9.8	0.70	2410	1.15	0.02
M994074		0.36	33.7	1.06	2.13	<0.05	<0.02	0.21	0.014	0.13	1.9	3.9	0.32	3460	4.06	0.01
M994075		0.25	29.8	0.54	1.16	<0.05	<0.02	0.20	0.011	0.12	1.3	2.1	0.23	2860	4.27	0.01
M994076		0.26	35.9	0.96	1.92	<0.05	<0.02	0.23	0.013	0.18	2.2	4.6	0.37	2240	3.02	0.01
M994077		0.48	197.0	1.14	2.55	0.07	0.05	0.32	0.020	0.21	11.7	7.5	0.30	1390	2.57	0.01
M994078		0.38	164.5	1.25	2.42	0.06	0.04	0.19	0.011	0.13	5.8	11.8	0.43	840	1.73	0.01
M994079		0.20	18.8	0.58	1.08	<0.05	0.02	0.14	<0.005	0.09	1.4	3.6	0.31	260	1.52	0.01
M994080		0.58	40.3	2.05	4.57	<0.05	<0.02	0.13	0.013	0.13	4.7	15.9	0.40	1430	1.51	0.01
M994081		0.51	45.0	1.80	3.91	0.05	0.03	0.14	0.014	0.10	5.3	13.0	0.35	1140	1.49	0.01
M994082		0.28	47.6	0.54	1.32	<0.05	0.02	0.06	0.005	0.08	5.4	5.5	0.17	606	0.98	0.01
M994083		0.21	18.5	0.60	1.28	<0.05	<0.02	0.24	0.009	0.09	2.1	1.9	0.14	930	1.77	0.01
M994084		0.42	19.6	1.60	3.10	<0.05	<0.02	0.16	0.016	0.12	3.7	4.5	0.20	5300	1.76	0.02
M994085		0.49	27.7	1.24	2.70	<0.05	<0.02	0.09	0.010	0.07	3.7	5.1	0.22	2550	0.87	0.01
M994086		0.66	43.3	2.07	4.46	<0.05	<0.02	0.09	0.018	0.11	5.0	10.0	0.36	6270	0.91	0.01
M994087		0.20	12.5	0.46	0.91	<0.05	<0.02	0.22	0.012	0.09	1.7	1.2	0.11	3430	1.22	0.01
M994088		0.55	29.2	1.56	3.77	<0.05	0.02	0.13	0.016	0.10	3.8	7.1	0.26	8930	0.89	0.01
M994089		0.12	19.0	0.25	0.46	<0.05	<0.02	0.10	0.007	0.07	1.0	0.9	0.08	1450	1.00	0.01
M994090		0.28	22.1	0.54	1.02	<0.05	<0.02	0.14	0.011	0.08	1.9	2.6	0.13	6280	1.06	0.01
M994091		0.48	16.6	0.58	1.38	<0.05	<0.02	0.14	0.008	0.12	2.0	2.0	0.10	894	1.77	0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131457

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
M994052		0.55	17.9	610	8.2	6.2	<0.001	0.04	0.19	1.7	0.3	0.3	59.9	<0.01	0.02	0.4
M994053		0.13	5.6	550	3.8	2.0	<0.001	0.12	0.18	0.8	0.5	<0.2	106.0	<0.01	0.01	0.2
M994054		0.50	16.3	700	17.7	8.5	<0.001	0.07	0.20	1.7	0.4	0.4	130.0	<0.01	0.03	0.4
M994055		0.30	11.1	1150	31.8	8.0	<0.001	0.14	0.33	1.1	0.5	0.4	141.0	<0.01	0.02	0.2
M994056		0.25	12.0	1150	22.8	5.3	<0.001	0.12	0.34	0.9	0.5	0.3	144.0	<0.01	0.02	0.2
M994057		0.18	4.2	1110	19.6	2.2	<0.001	0.14	0.23	0.5	0.4	0.3	209	<0.01	0.01	<0.2
M994058		0.23	10.2	1170	16.2	4.3	<0.001	0.12	0.20	0.7	0.3	0.2	109.5	<0.01	0.01	0.2
M994059		0.30	10.0	760	6.0	4.8	<0.001	0.08	0.18	1.0	0.5	<0.2	124.5	<0.01	0.02	0.2
M994060		0.34	9.4	1010	16.9	5.4	<0.001	0.12	0.43	1.1	0.5	0.3	73.3	<0.01	0.02	0.2
M994061		0.57	22.1	730	22.2	5.8	<0.001	0.08	0.28	2.3	0.5	0.5	53.3	<0.01	0.02	0.3
M994062		0.13	6.9	1190	17.1	2.2	<0.001	0.15	0.20	0.5	0.5	0.2	85.4	<0.01	0.01	<0.2
M994063		0.16	9.0	1270	12.4	2.6	<0.001	0.13	0.28	0.6	0.6	0.2	105.5	<0.01	0.02	<0.2
M994064		0.16	5.1	1190	11.8	2.1	<0.001	0.14	0.19	0.7	0.5	0.2	65.2	<0.01	0.01	<0.2
M994065		0.21	10.4	1180	18.9	3.1	<0.001	0.13	0.24	0.7	0.5	0.2	120.0	<0.01	0.02	0.2
M994066		0.12	5.5	700	13.1	1.7	<0.001	0.12	0.31	0.5	0.6	0.2	115.5	<0.01	0.01	<0.2
M994067		0.26	10.4	1020	9.2	4.9	<0.001	0.11	0.17	1.1	0.4	0.2	91.9	<0.01	0.01	0.2
M994068		0.57	27.3	760	8.9	7.3	<0.001	0.04	0.17	2.2	0.3	0.3	75.4	<0.01	0.01	0.2
M994069		0.66	29.0	1030	15.3	10.1	<0.001	0.06	0.34	2.3	0.5	0.4	162.5	<0.01	0.02	0.5
M994070		0.67	32.2	640	9.3	10.0	<0.001	0.06	0.20	2.5	0.4	0.3	95.8	<0.01	0.01	0.4
M994071		0.41	20.4	820	12.6	3.9	<0.001	0.06	0.20	1.7	0.3	0.3	112.0	<0.01	0.01	0.3
M994072		0.31	18.8	1050	11.2	3.4	<0.001	0.08	0.28	0.9	0.4	0.2	91.9	<0.01	0.01	<0.2
M994073		0.55	30.4	1400	12.8	7.6	<0.001	0.07	0.17	1.8	0.4	0.3	126.5	<0.01	0.01	0.2
M994074		0.29	18.5	1300	17.4	3.4	<0.001	0.14	0.26	1.0	0.4	0.3	100.0	<0.01	0.01	0.2
M994075		0.18	9.7	1300	15.7	2.3	<0.001	0.14	0.22	0.6	0.4	0.2	98.2	<0.01	0.01	<0.2
M994076		0.27	20.1	1450	14.1	2.9	<0.001	0.11	0.21	0.9	0.6	0.2	97.5	<0.01	0.01	<0.2
M994077		0.38	25.0	1670	16.6	4.7	<0.001	0.16	0.45	3.0	1.4	0.3	89.8	<0.01	0.03	0.4
M994078		0.43	44.5	1260	8.0	4.3	0.001	0.16	0.35	2.0	2.3	0.2	118.0	<0.01	0.03	0.3
M994079		0.20	18.7	1000	7.0	2.4	<0.001	0.13	0.13	0.7	0.5	<0.2	63.5	<0.01	0.01	0.2
M994080		0.54	17.1	840	10.6	9.1	<0.001	0.07	0.22	1.7	0.4	0.2	82.8	<0.01	0.03	0.5
M994081		0.55	15.8	600	9.8	8.4	<0.001	0.07	0.20	2.0	0.5	0.3	110.5	<0.01	0.02	0.7
M994082		0.22	8.8	610	3.4	4.9	<0.001	0.07	0.13	1.1	0.4	<0.2	71.8	<0.01	0.01	0.3
M994083		0.21	5.4	690	10.5	2.8	<0.001	0.08	0.27	0.8	0.5	0.2	133.0	<0.01	0.01	0.2
M994084		0.41	12.5	630	14.7	6.8	<0.001	0.07	0.25	1.3	0.3	0.3	197.0	<0.01	0.01	0.4
M994085		0.30	10.0	720	7.4	6.0	<0.001	0.08	0.17	0.7	0.2	0.2	88.9	<0.01	0.01	<0.2
M994086		0.45	17.3	1130	17.5	9.4	0.001	0.05	0.23	1.5	0.4	0.4	132.0	0.01	0.03	0.7
M994087		0.15	5.2	590	13.6	2.5	0.001	0.11	0.27	0.5	0.7	0.2	167.0	<0.01	0.01	0.2
M994088		0.42	16.3	1000	19.2	7.8	<0.001	0.07	0.27	1.3	0.3	0.3	144.5	<0.01	0.02	0.6
M994089		0.07	4.3	490	6.5	2.0	<0.001	0.07	0.11	0.3	<0.2	<0.2	99.1	<0.01	<0.01	<0.2
M994090		0.16	7.2	650	12.2	4.7	<0.001	0.07	0.14	0.6	0.2	0.2	123.0	<0.01	<0.01	0.3
M994091		0.23	6.3	1000	11.6	5.1	<0.001	0.11	0.21	0.6	<0.2	0.2	79.2	<0.01	0.01	0.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131457

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
M994052		0.051	0.05	0.18	42	0.12	1.73	82	<0.5
M994053		0.015	<0.02	0.08	11	0.05	1.19	50	<0.5
M994054		0.053	0.04	0.16	38	0.13	1.45	156	<0.5
M994055		0.025	0.13	0.13	16	0.10	1.36	89	0.5
M994056		0.024	0.17	0.11	19	0.10	0.97	117	<0.5
M994057		0.014	0.04	0.07	8	0.13	0.64	68	<0.5
M994058		0.018	0.08	0.09	15	0.22	0.80	173	0.5
M994059		0.029	0.03	0.12	22	0.09	1.04	129	<0.5
M994060		0.038	0.05	0.12	30	0.15	1.06	98	0.5
M994061		0.099	0.05	0.20	77	0.23	1.86	103	0.8
M994062		0.011	0.03	0.05	8	0.09	0.58	116	0.5
M994063		0.017	0.05	0.06	13	0.08	0.66	118	<0.5
M994064		0.015	0.03	0.07	11	0.09	0.63	61	<0.5
M994065		0.018	0.04	0.08	14	0.11	0.88	127	0.6
M994066		0.010	0.04	0.06	8	0.06	0.50	69	<0.5
M994067		0.033	0.03	0.08	35	0.08	0.81	120	0.6
M994068		0.104	0.03	0.15	89	0.13	1.45	110	0.7
M994069		0.111	0.05	0.17	92	0.17	1.68	117	0.8
M994070		0.089	0.05	0.24	74	0.15	2.31	121	0.6
M994071		0.066	0.02	0.14	51	0.20	1.24	78	0.9
M994072		0.041	0.03	0.10	41	0.11	1.00	76	<0.5
M994073		0.080	0.02	0.19	80	0.16	2.15	257	<0.5
M994074		0.032	0.06	0.11	33	0.12	1.00	185	0.5
M994075		0.017	0.04	0.08	16	0.08	0.73	231	0.5
M994076		0.029	0.03	0.12	24	0.14	1.30	102	<0.5
M994077		0.022	0.06	0.60	33	0.18	13.05	35	1.3
M994078		0.025	0.05	3.99	33	0.10	5.95	45	1.2
M994079		0.018	0.02	0.12	13	0.05	0.70	36	0.7
M994080		0.040	0.04	0.26	42	0.15	2.07	69	<0.5
M994081		0.044	0.04	0.30	40	0.14	3.17	53	1.0
M994082		0.011	0.02	0.28	12	0.06	4.45	28	0.5
M994083		0.019	0.03	0.10	14	0.11	0.89	46	<0.5
M994084		0.047	0.04	0.20	38	0.12	1.84	97	<0.5
M994085		0.028	0.06	0.15	27	0.09	1.67	48	<0.5
M994086		0.046	0.05	0.20	42	0.12	1.97	101	<0.5
M994087		0.015	0.04	0.08	10	0.06	0.77	105	<0.5
M994088		0.039	0.06	0.18	34	0.12	1.63	183	0.5
M994089		0.008	0.02	<0.05	6	<0.05	0.49	36	<0.5
M994090		0.015	0.06	0.09	11	0.06	0.73	112	<0.5
M994091		0.020	0.03	0.08	16	0.08	0.68	44	<0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131457

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
M994092		0.24	0.0015	0.31	0.26	1.8	<0.2	<10	190	0.08	0.05	0.54	0.29	2.00	2.9	11
M994093		0.18	0.0026	0.39	0.20	1.7	<0.2	<10	160	<0.05	0.07	1.51	0.36	2.03	1.7	5
M994094		0.18	0.0013	0.13	0.31	2.8	<0.2	<10	130	0.05	0.10	0.80	0.30	3.76	2.9	12
M994095		0.22	0.0018	1.13	0.72	3.0	<0.2	<10	60	0.19	0.09	2.50	0.65	7.37	3.3	15
M994096		0.18	0.0150	0.14	0.56	2.7	<0.2	<10	210	0.10	0.12	0.96	0.67	9.31	5.5	32
M994097		0.20	0.0008	0.18	0.12	1.9	<0.2	10	120	<0.05	0.06	2.94	0.54	1.17	1.0	2
M994098		0.16	0.0057	0.15	0.57	3.1	<0.2	<10	270	0.07	0.10	1.16	0.31	4.84	4.4	20
M994099		0.14	0.0333	0.05	1.66	3.5	<0.2	<10	410	0.27	0.14	1.11	0.46	8.42	10.1	29
M994100		0.20	0.0366	0.05	0.98	3.8	<0.2	<10	290	0.12	0.11	0.96	0.48	5.32	6.4	20
M994101		0.12	0.0015	0.05	0.58	2.8	<0.2	<10	510	0.12	0.11	1.60	1.01	3.43	4.8	12
M994102		0.16	0.0060	0.17	0.58	2.3	<0.2	10	570	0.09	0.12	2.21	0.91	4.55	5.1	14
M994103		0.16	0.0010	0.13	0.40	1.8	<0.2	<10	180	0.05	0.09	1.25	0.23	3.10	3.6	12
M994104		0.20	0.0016	0.17	0.49	2.6	<0.2	<10	310	0.13	0.11	1.52	0.46	4.62	5.3	23
M994105		0.16	0.0017	0.09	0.71	2.1	<0.2	<10	360	0.10	0.11	1.69	0.68	4.19	5.2	14
M994106		0.20	0.0008	0.20	0.11	1.5	<0.2	<10	190	<0.05	0.05	2.67	0.85	1.02	1.5	3
M994107		0.12	0.0013	0.24	1.51	8.4	<0.2	<10	540	0.32	0.14	1.72	1.03	8.93	10.9	33
M994108		0.16	NSS	0.64	0.53	4.7	<0.2	<10	260	0.12	0.12	1.56	0.75	4.76	6.6	17
M994109		0.16	0.0026	0.15	0.88	5.1	<0.2	10	220	0.19	0.07	1.78	0.94	5.14	6.6	23
M994110		0.14	0.0012	0.32	0.39	1.7	<0.2	<10	410	0.09	0.08	2.10	0.99	3.80	3.6	14
M994111		0.12	0.0011	1.86	0.32	1.3	<0.2	10	470	0.08	0.08	3.94	4.38	3.02	5.0	11
M994112		0.10	0.0013	1.07	0.40	3.0	<0.2	10	110	0.08	0.10	4.09	1.64	4.00	3.2	11
M994113		0.16	0.0041	0.30	1.39	5.5	<0.2	<10	100	0.25	0.06	1.73	0.59	8.81	10.0	48
M994114		0.14	NSS	0.18	0.46	2.3	<0.2	<10	40	0.07	0.03	1.70	0.50	3.84	4.5	17
M994115		0.14	0.0009	0.24	0.27	1.3	<0.2	<10	40	0.06	0.05	1.75	0.71	3.96	2.7	11
M994116		0.16	0.0024	0.19	0.45	1.6	<0.2	<10	40	0.11	0.06	2.15	1.02	4.39	4.4	13
M994117		0.16	0.0060	0.37	1.43	4.4	<0.2	<10	110	0.32	0.10	2.77	0.48	14.70	12.2	50
M994118		0.10	0.0011	0.30	0.73	2.8	<0.2	10	90	0.16	0.09	3.27	0.62	4.98	7.4	27

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131457

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
M994092		0.17	6.7	0.42	0.90	<0.05	<0.02	0.16	0.007	0.04	1.1	0.6	0.06	790	1.45	0.01
M994093		0.28	25.9	0.30	0.57	<0.05	<0.02	0.25	0.008	0.12	1.2	1.0	0.11	2650	1.37	0.02
M994094		0.25	16.1	0.61	1.13	<0.05	<0.02	0.26	0.008	0.10	2.1	2.4	0.10	1600	1.62	0.01
M994095		0.42	225	0.79	1.76	0.05	0.03	0.25	0.011	0.12	12.4	3.5	0.21	770	3.08	0.01
M994096		0.48	16.1	1.37	2.47	<0.05	<0.02	0.14	0.013	0.09	4.7	5.6	0.20	3500	1.87	0.01
M994097		0.11	14.8	0.15	0.30	<0.05	<0.02	0.26	0.010	0.10	0.6	0.4	0.07	1490	2.54	0.01
M994098		0.39	21.1	0.89	1.88	<0.05	<0.02	0.17	0.013	0.09	2.3	4.6	0.20	3710	1.50	0.01
M994099		0.89	48.9	2.13	4.86	<0.05	<0.02	0.18	0.019	0.11	4.3	12.2	0.44	4880	0.81	0.01
M994100		0.58	39.5	1.35	3.06	<0.05	<0.02	0.17	0.015	0.08	2.7	7.1	0.28	4060	0.88	0.01
M994101		0.44	26.2	0.79	1.67	<0.05	<0.02	0.37	0.017	0.07	1.7	3.1	0.14	6970	0.83	0.01
M994102		0.48	30.2	0.94	1.91	<0.05	<0.02	0.30	0.013	0.11	2.3	4.2	0.22	8140	1.40	0.01
M994103		0.40	18.5	0.60	1.24	<0.05	<0.02	0.24	0.008	0.09	1.5	2.9	0.17	2790	1.19	0.01
M994104		0.57	35.2	1.10	2.14	<0.05	<0.02	0.18	0.011	0.09	2.4	2.8	0.18	4110	2.12	0.01
M994105		0.50	26.9	0.97	2.23	<0.05	<0.02	0.29	0.014	0.10	2.0	3.6	0.20	4150	1.88	0.01
M994106		0.13	15.3	0.15	0.29	<0.05	0.02	0.24	0.006	0.07	0.6	0.4	0.08	1520	2.12	0.01
M994107		0.82	42.3	2.23	5.08	<0.05	<0.02	0.13	0.021	0.10	4.4	11.2	0.48	5010	1.65	0.01
M994108		0.34	20.8	0.94	1.86	<0.05	<0.02	0.21	0.015	0.12	2.6	4.8	0.26	4150	2.67	0.01
M994109		0.36	27.2	1.36	2.55	<0.05	<0.02	0.09	0.009	0.11	2.5	7.7	0.49	1330	0.86	0.01
M994110		0.23	25.2	0.67	1.20	<0.05	<0.02	0.18	0.012	0.11	1.8	2.6	0.25	3220	1.32	0.01
M994111		0.21	29.4	0.55	1.06	<0.05	0.02	0.09	0.008	0.11	1.6	2.1	0.25	3910	1.37	0.01
M994112		0.18	38.4	0.56	1.08	<0.05	0.03	0.31	0.012	0.08	1.8	2.5	0.19	1800	3.33	0.02
M994113		0.58	46.2	2.62	4.46	0.05	<0.02	0.09	0.013	0.11	4.2	11.4	0.60	833	1.64	0.01
M994114		0.21	36.4	0.89	1.29	<0.05	0.02	0.07	0.005	0.14	1.6	3.3	0.29	326	1.80	0.01
M994115		0.14	15.1	0.48	0.85	<0.05	0.02	0.21	0.007	0.07	2.8	2.3	0.13	342	2.59	0.01
M994116		0.22	42.1	0.81	1.32	<0.05	0.02	0.17	0.010	0.09	2.5	4.0	0.22	419	2.62	0.01
M994117		0.78	180.0	2.49	3.94	<0.05	0.03	0.08	0.013	0.10	10.3	24.3	0.74	1430	0.84	0.01
M994118		0.38	62.5	1.44	2.73	<0.05	0.02	0.20	0.008	0.11	4.9	10.5	0.31	784	1.02	0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131457

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
M994092		0.13	7.1	570	6.2	1.8	0.001	0.09	0.19	0.5	0.4	<0.2	71.5	<0.01	<0.01	<0.2
M994093		0.11	5.2	1240	12.5	2.8	<0.001	0.16	0.23	0.4	0.3	0.2	107.5	<0.01	<0.01	<0.2
M994094		0.21	7.1	990	15.9	3.4	<0.001	0.14	0.30	0.6	0.3	0.3	74.9	<0.01	<0.01	0.2
M994095		0.34	13.9	1180	10.7	4.9	0.001	0.16	0.37	1.7	1.0	0.2	154.5	<0.01	0.01	0.3
M994096		0.38	11.8	580	18.3	6.3	<0.001	0.07	0.23	1.2	<0.2	0.3	73.7	<0.01	0.01	0.8
M994097		0.08	3.7	900	13.1	1.5	<0.001	0.14	0.22	0.2	0.4	0.2	198.0	<0.01	<0.01	<0.2
M994098		0.32	11.8	800	19.8	5.9	<0.001	0.10	0.25	0.8	0.3	0.3	99.7	<0.01	0.01	0.3
M994099		0.65	22.0	1000	17.2	16.0	<0.001	0.07	0.24	1.6	<0.2	0.4	112.5	<0.01	0.03	0.8
M994100		0.42	15.8	880	17.4	8.5	<0.001	0.10	0.25	1.0	0.5	0.3	97.2	<0.01	0.02	0.4
M994101		0.25	11.2	820	22.0	6.2	0.001	0.13	0.30	0.6	0.5	0.3	135.5	<0.01	0.01	0.2
M994102		0.29	10.6	1040	21.7	8.0	<0.001	0.13	0.29	0.8	<0.2	0.3	159.5	<0.01	0.02	0.2
M994103		0.23	8.8	980	15.5	5.0	<0.001	0.12	0.22	0.6	<0.2	0.2	113.5	<0.01	0.01	0.2
M994104		0.32	11.1	910	16.0	6.1	<0.001	0.11	0.23	0.8	<0.2	0.3	159.5	<0.01	0.01	<0.2
M994105		0.41	10.5	940	17.6	6.2	<0.001	0.12	0.28	0.9	0.4	0.3	175.0	<0.01	0.01	0.2
M994106		0.06	4.4	910	8.5	1.0	<0.001	0.17	0.17	0.1	<0.2	<0.2	179.0	<0.01	<0.01	<0.2
M994107		0.63	24.9	1160	15.4	12.4	<0.001	0.09	0.27	1.6	0.5	0.4	100.0	<0.01	0.05	0.4
M994108		0.28	12.7	1060	20.5	3.7	<0.001	0.12	0.32	1.0	0.9	0.3	96.9	<0.01	0.03	0.2
M994109		0.43	19.0	910	8.1	6.3	<0.001	0.10	0.15	1.1	0.4	0.2	104.0	<0.01	<0.01	0.4
M994110		0.18	9.6	1160	16.3	2.5	<0.001	0.13	0.21	0.5	<0.2	0.2	112.5	<0.01	0.01	<0.2
M994111		0.16	11.5	1530	9.3	2.6	<0.001	0.12	0.16	0.5	<0.2	0.2	211	<0.01	0.02	<0.2
M994112		0.20	8.8	1210	13.3	1.6	0.001	0.18	0.31	0.9	1.5	0.2	154.5	<0.01	0.01	0.2
M994113		0.59	26.7	1080	8.2	7.1	<0.001	0.10	0.18	1.8	0.4	0.3	80.9	<0.01	0.01	0.3
M994114		0.22	13.5	1110	3.5	3.8	0.001	0.18	0.12	1.0	<0.2	<0.2	74.9	<0.01	0.01	0.3
M994115		0.17	7.2	950	9.2	1.4	<0.001	0.16	0.16	0.6	0.5	0.2	86.6	<0.01	0.01	<0.2
M994116		0.27	10.4	1050	10.3	1.9	<0.001	0.15	0.22	1.0	0.7	0.2	95.9	<0.01	0.01	0.2
M994117		0.78	39.4	740	6.2	11.0	0.002	0.11	0.31	3.1	1.5	0.2	128.0	<0.01	0.01	0.6
M994118		0.51	16.8	790	5.7	5.8	0.001	0.14	0.25	1.3	0.8	0.2	183.0	<0.01	<0.01	0.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131457

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
M994092		0.012	0.02	0.05	11	0.05	0.55	26	<0.5
M994093		0.009	0.04	0.07	6	0.06	0.58	35	<0.5
M994094		0.018	0.04	0.09	13	0.07	0.70	43	<0.5
M994095		0.017	0.05	0.35	21	0.11	11.45	39	1.0
M994096		0.041	0.07	0.17	34	0.11	1.19	90	<0.5
M994097		0.005	0.02	<0.05	3	0.08	0.43	78	<0.5
M994098		0.028	0.06	0.12	22	0.08	0.95	79	<0.5
M994099		0.058	0.15	0.18	57	0.10	1.43	100	<0.5
M994100		0.039	0.09	0.12	37	0.12	0.91	111	<0.5
M994101		0.025	0.10	0.10	20	0.07	0.84	194	<0.5
M994102		0.030	0.12	0.11	24	0.09	1.01	144	<0.5
M994103		0.020	0.06	0.08	13	0.07	0.56	45	<0.5
M994104		0.038	0.06	0.14	35	0.08	1.03	65	<0.5
M994105		0.041	0.06	0.13	26	0.10	1.12	121	<0.5
M994106		0.005	0.03	<0.05	3	0.05	0.42	77	<0.5
M994107		0.063	0.09	0.24	56	0.25	1.68	245	<0.5
M994108		0.026	0.07	0.13	22	0.15	1.05	95	<0.5
M994109		0.037	0.05	0.15	30	0.14	0.99	283	0.6
M994110		0.018	0.03	0.09	17	0.07	0.94	254	<0.5
M994111		0.019	0.03	0.07	13	0.07	0.84	792	<0.5
M994112		0.014	0.03	0.54	14	0.07	1.68	39	0.7
M994113		0.077	0.03	0.29	80	0.19	2.33	95	0.5
M994114		0.029	0.02	0.10	27	0.09	0.91	40	0.8
M994115		0.015	0.02	0.09	12	0.05	0.91	34	0.5
M994116		0.026	0.02	0.23	20	0.06	1.87	55	0.7
M994117		0.066	0.06	1.51	59	0.14	8.46	52	1.0
M994118		0.040	0.02	0.67	50	0.08	3.10	42	0.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131457

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.
ME-MS41	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

CERTIFICATE VA12126614

Project: RedGold

P.O. No.: RG-2012-001ch

This report is for 205 Soil samples submitted to our lab in Vancouver, BC, Canada on 5-JUN-2012.

The following have access to data associated with this certificate:

ELEANOR BLACK AMELIA RAINBOW	JACQUELINE BLACKWELL ROSS SHERLOCK	NATE BREWER TWILA SKINNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ST43	Super Trace Au - 25g AR	ICP-MS
ME-MS41	51 anal. aqua regia ICPMS	

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: ELEANOR BLACK
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
N047501		0.12	0.0011	0.37	0.09	1.1	<0.2	<10	60	<0.05	0.02	1.91	0.22	1.20	0.8	14
N047502		0.02	0.0006	0.17	0.42	3.0	<0.2	<10	240	0.33	0.06	1.48	0.58	6.35	6.5	12
N047503		0.04	0.0014	0.05	0.07	0.8	<0.2	<10	200	<0.05	0.03	0.68	0.32	0.82	0.9	2
N047504		0.10	0.0005	0.27	0.21	1.4	<0.2	<10	240	0.11	0.03	0.66	0.33	1.45	2.5	7
N047505		0.02	0.0018	0.26	0.27	5.5	<0.2	<10	170	0.15	0.05	0.78	0.48	3.30	2.9	10
N047506		0.02	NSS	0.19	0.15	1.5	<0.2	<10	130	0.12	0.03	0.57	0.30	1.54	1.3	12
N047507		0.08	0.0004	0.23	0.13	0.9	<0.2	<10	210	0.07	0.05	1.55	0.58	1.58	1.2	14
N047508		0.08	0.0003	0.10	0.22	1.2	<0.2	<10	200	0.10	0.04	0.86	0.69	3.91	2.5	11
N047509		0.02	0.0014	0.21	0.19	1.8	<0.2	<10	410	0.07	0.05	2.49	0.68	2.61	3.7	18
N047510		0.04	0.0014	0.25	0.47	3.3	<0.2	<10	160	0.17	0.07	1.15	0.48	4.41	5.7	22
N047511		0.02	NSS	0.32	0.06	0.9	<0.2	<10	50	<0.05	0.01	1.12	0.19	0.65	0.7	8
N047512		0.06	0.0006	0.15	0.17	1.4	<0.2	<10	100	0.09	0.04	0.50	0.23	1.87	1.5	6
N047513		0.04	0.0010	0.35	0.34	3.1	<0.2	<10	420	0.15	0.10	1.97	0.74	3.98	6.7	22
N047514		0.06	NSS	0.38	0.36	2.8	<0.2	<10	150	0.10	0.09	0.92	0.64	3.68	4.1	25
N047515		0.02	NSS	0.24	0.26	1.8	<0.2	<10	240	0.12	0.05	1.09	0.57	3.03	3.1	25
N047516		0.04	NSS	0.37	0.32	2.6	<0.2	<10	460	0.19	0.07	1.12	1.08	3.86	4.2	26
N047517		0.02	NSS	0.20	0.17	0.8	<0.2	<10	160	0.09	0.04	0.48	0.32	1.76	1.4	10
N047518		0.04	NSS	0.19	0.13	1.5	<0.2	<10	160	0.08	0.03	0.63	0.30	1.18	1.7	12
N047519		0.04	0.0009	0.20	0.53	5.2	<0.2	<10	180	0.19	0.09	0.97	0.70	7.05	10.5	70
N047520		0.04	0.0005	0.15	0.16	1.8	<0.2	<10	260	0.11	0.04	2.04	0.40	1.99	3.9	11
N047521		0.02	NSS	0.25	0.65	2.5	<0.2	<10	390	0.23	0.07	1.33	0.50	4.80	4.9	39
N047522		0.08	0.0006	0.22	0.28	1.4	<0.2	<10	100	0.09	0.03	0.87	0.19	1.70	3.9	9
N047523		0.02	NSS	0.25	0.78	4.5	<0.2	<10	190	0.28	0.08	1.35	0.72	4.75	10.9	57
N047524		0.04	0.0022	0.34	0.61	3.8	<0.2	<10	150	0.28	0.04	2.06	0.60	3.74	4.7	65
N047525		0.04	0.0009	0.25	0.15	1.4	<0.2	<10	150	0.11	0.03	0.91	0.34	1.03	1.1	13
N047526		0.02	NSS	0.53	0.13	1.5	<0.2	10	90	0.05	0.05	1.26	0.41	1.29	1.3	14
N047527		0.02	NSS	0.24	0.27	1.5	<0.2	10	200	0.12	0.04	1.97	1.01	2.60	3.4	19
N047528		0.02	NSS	0.09	0.04	0.5	<0.2	<10	50	<0.05	0.02	0.78	0.13	0.53	0.3	6
N047529		0.04	0.0005	1.16	0.31	1.9	<0.2	<10	360	0.19	0.09	0.65	0.33	3.41	2.5	11
N047530		0.02	NSS	0.17	0.02	0.9	<0.2	10	40	<0.05	0.01	0.63	0.16	0.35	0.2	7
N047531		0.04	0.0008	0.18	0.22	1.8	<0.2	<10	340	0.13	0.05	2.42	0.87	2.73	3.5	18
N047532		0.02	NSS	0.28	0.07	1.2	<0.2	<10	200	<0.05	0.04	1.29	0.75	0.82	0.9	5
N047533		0.02	0.0002	0.23	0.01	0.3	<0.2	<10	20	<0.05	0.01	0.11	0.08	0.18	0.2	17
N047534		0.04	0.0004	0.10	0.36	2.7	<0.2	<10	140	0.08	0.04	1.56	1.19	4.21	4.2	13
N047535		0.02	NSS	0.08	0.04	0.6	<0.2	<10	50	<0.05	0.01	0.60	0.17	0.58	0.4	8
N047536		0.02	NSS	0.06	0.05	0.4	<0.2	<10	20	<0.05	0.02	0.25	0.17	0.72	0.5	11
N047537		0.04	0.0003	0.16	0.24	2.0	<0.2	<10	110	0.08	0.03	0.91	0.40	2.30	1.7	10
N047538		0.04	0.0004	0.12	0.02	0.3	<0.2	<10	20	<0.05	0.01	0.14	0.11	0.25	0.2	4
N047539		0.04	0.0005	0.30	0.02	0.9	<0.2	10	40	<0.05	0.01	0.30	0.32	0.34	0.2	4
N047540		0.02	0.0014	0.62	0.01	0.4	<0.2	<10	20	<0.05	0.03	0.09	0.21	0.20	0.1	4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
N047501		0.07	16.4	0.13	0.17	<0.05	<0.02	0.08	<0.005	0.03	1.0	0.6	0.11	124	0.66	0.01
N047502		0.35	24.0	0.58	1.91	<0.05	<0.02	0.15	0.009	0.05	7.7	2.3	0.13	2330	1.12	0.01
N047503		0.12	7.5	0.08	0.28	<0.05	<0.02	0.14	0.006	0.03	0.5	0.2	0.02	363	0.25	0.01
N047504		0.13	6.8	0.26	0.54	<0.05	<0.02	0.06	0.005	0.05	0.7	0.5	0.06	683	0.17	0.01
N047505		0.17	14.2	0.56	1.13	<0.05	<0.02	0.15	0.007	0.04	1.8	1.0	0.05	589	0.80	0.01
N047506		0.17	7.6	0.24	0.45	<0.05	<0.02	0.13	<0.005	0.05	0.8	0.6	0.05	53	0.27	0.01
N047507		0.17	5.2	0.21	0.42	<0.05	<0.02	0.21	<0.005	0.06	0.9	0.6	0.06	846	0.53	0.01
N047508		0.12	7.7	0.35	0.78	<0.05	<0.02	0.07	<0.005	0.02	2.0	1.0	0.05	287	0.46	0.01
N047509		0.18	7.7	0.36	0.68	<0.05	<0.02	0.17	0.006	0.09	1.3	1.2	0.11	2180	1.02	0.01
N047510		0.29	70.8	0.94	1.96	<0.05	<0.02	0.12	0.010	0.07	2.4	2.6	0.17	2240	0.95	0.01
N047511		<0.05	15.6	0.08	0.17	<0.05	<0.02	0.07	<0.005	0.06	0.5	0.3	0.08	83	0.28	0.01
N047512		0.10	16.4	0.26	0.46	<0.05	<0.02	0.14	<0.005	0.05	1.1	0.7	0.05	82	0.28	0.01
N047513		0.47	16.5	0.60	1.37	<0.05	<0.02	0.28	0.013	0.08	2.0	1.7	0.10	6040	2.39	0.02
N047514		0.35	13.2	0.83	1.86	<0.05	<0.02	0.22	0.009	0.09	1.9	2.2	0.12	1880	0.79	0.02
N047515		0.29	24.8	0.50	1.01	<0.05	<0.02	0.20	0.008	0.06	1.6	1.4	0.09	1450	0.75	0.02
N047516		0.38	13.9	0.53	1.08	<0.05	<0.02	0.26	0.009	0.06	2.2	1.3	0.08	1760	0.70	0.01
N047517		0.10	6.9	0.13	0.22	<0.05	<0.02	0.12	0.006	0.04	0.8	0.2	0.04	249	0.47	0.02
N047518		0.28	11.5	0.22	0.43	<0.05	<0.02	0.17	<0.005	0.05	0.6	0.5	0.03	195	0.59	0.01
N047519		0.34	25.2	1.56	2.64	<0.05	<0.02	0.06	0.011	0.06	3.6	3.0	0.14	1820	0.54	0.02
N047520		0.08	7.9	0.23	0.51	<0.05	<0.02	0.11	<0.005	0.09	0.9	0.4	0.09	1440	1.22	0.01
N047521		0.41	27.4	0.80	1.99	<0.05	<0.02	0.13	0.009	0.06	2.5	3.4	0.17	2030	0.56	0.02
N047522		0.17	39.8	0.38	0.76	<0.05	<0.02	0.10	<0.005	0.06	1.0	1.9	0.10	157	0.89	0.01
N047523		0.29	50.0	1.02	2.98	<0.05	<0.02	0.13	0.010	0.06	2.4	3.1	0.15	1340	0.83	0.02
N047524		0.19	34.8	1.91	2.74	<0.05	<0.02	0.12	0.010	0.08	1.9	1.5	0.17	300	0.51	0.01
N047525		0.07	14.4	0.30	0.39	<0.05	<0.02	0.16	0.006	0.04	0.6	0.2	0.05	386	0.32	0.01
N047526		0.09	9.1	0.21	0.41	<0.05	<0.02	0.25	0.005	0.05	0.7	0.4	0.05	1300	0.82	0.03
N047527		0.16	16.9	0.44	0.88	<0.05	<0.02	0.14	<0.005	0.07	1.3	1.5	0.13	1640	0.62	0.02
N047528		<0.05	3.6	0.06	0.10	<0.05	<0.02	0.09	<0.005	0.05	0.3	0.1	0.03	103	0.43	0.02
N047529		0.20	13.9	0.37	0.73	<0.05	<0.02	0.25	0.012	0.05	1.8	0.5	0.04	98	0.77	0.01
N047530		<0.05	6.5	0.04	0.07	<0.05	<0.02	0.48	<0.005	0.23	0.2	0.1	0.03	102	0.25	0.01
N047531		0.14	9.4	0.43	0.80	<0.05	<0.02	0.20	0.005	0.14	1.6	1.4	0.11	2140	0.54	0.01
N047532		0.09	6.1	0.09	0.18	<0.05	<0.02	0.21	<0.005	0.06	0.6	0.2	0.04	971	1.06	0.02
N047533		<0.05	6.1	0.04	<0.05	<0.05	<0.02	0.12	<0.005	0.08	<0.2	0.1	0.01	83	0.05	0.01
N047534		0.22	17.3	0.66	1.09	<0.05	<0.02	0.17	<0.005	0.13	2.0	3.0	0.18	661	0.58	0.01
N047535		0.07	22.9	0.09	0.11	<0.05	<0.02	0.11	<0.005	0.22	0.3	0.4	0.10	303	0.31	0.01
N047536		0.06	15.1	0.09	0.13	<0.05	<0.02	0.11	<0.005	0.14	0.4	0.3	0.03	82	0.37	0.01
N047537		0.15	10.4	0.45	0.68	<0.05	<0.02	0.11	<0.005	0.14	1.3	1.4	0.10	108	1.09	0.01
N047538		<0.05	8.0	0.03	0.05	<0.05	<0.02	0.17	<0.005	0.15	<0.2	0.1	0.01	35	0.17	0.01
N047539		<0.05	11.6	0.05	0.06	<0.05	<0.02	0.11	<0.005	0.22	0.2	0.2	0.03	104	0.11	0.01
N047540		<0.05	9.3	0.03	<0.05	<0.05	<0.02	0.15	<0.005	0.08	<0.2	0.1	0.01	41	0.16	<0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
N047501		<0.05	4.4	270	1.8	1.0	<0.001	0.02	0.11	0.3	<0.2	<0.2	85.0	<0.01	<0.01	<0.2
N047502		0.21	11.1	430	6.6	3.6	<0.001	0.04	0.10	1.0	1.5	<0.2	117.0	<0.01	0.02	<0.2
N047503		0.09	2.0	330	9.8	1.3	<0.001	0.04	0.05	0.4	<0.2	<0.2	74.0	<0.01	0.01	<0.2
N047504		0.07	4.8	280	2.2	2.9	<0.001	<0.01	0.06	0.3	0.5	<0.2	84.7	<0.01	<0.01	<0.2
N047505		0.10	4.2	420	4.2	2.1	<0.001	0.02	0.21	0.8	0.4	0.2	85.2	<0.01	<0.01	0.3
N047506		0.07	3.8	260	2.4	2.2	0.001	0.02	0.09	0.3	0.6	<0.2	75.4	<0.01	<0.01	<0.2
N047507		0.07	3.1	370	3.7	1.8	<0.001	0.03	0.09	0.4	0.2	0.2	90.5	<0.01	<0.01	<0.2
N047508		0.12	3.9	270	2.3	0.9	0.001	0.01	0.08	0.5	0.3	0.2	86.8	<0.01	<0.01	0.4
N047509		0.10	4.9	470	3.5	2.7	<0.001	0.04	0.10	0.5	0.2	<0.2	185.0	<0.01	0.01	0.2
N047510		0.24	6.8	430	4.2	3.0	<0.001	0.02	0.14	1.2	0.6	0.2	60.1	<0.01	<0.01	0.2
N047511		<0.05	3.6	180	1.1	0.7	<0.001	0.01	0.05	0.2	<0.2	<0.2	60.0	<0.01	<0.01	<0.2
N047512		0.07	3.4	310	2.8	1.3	0.001	0.02	0.08	0.5	0.2	<0.2	47.2	<0.01	<0.01	0.2
N047513		0.18	7.7	670	10.7	4.5	<0.001	0.06	0.18	0.7	0.3	0.2	164.5	<0.01	0.01	<0.2
N047514		0.20	7.2	640	9.9	3.6	<0.001	0.05	0.22	0.9	0.4	0.3	68.5	<0.01	<0.01	0.2
N047515		0.11	6.4	470	9.0	3.5	<0.001	0.04	0.11	0.6	0.2	0.2	94.3	<0.01	<0.01	0.2
N047516		0.11	8.9	560	6.3	3.7	<0.001	0.03	0.11	0.6	0.8	0.2	125.0	<0.01	<0.01	<0.2
N047517		<0.05	2.8	350	7.4	1.5	0.001	0.02	0.07	0.4	0.4	<0.2	58.0	<0.01	<0.01	<0.2
N047518		0.05	5.3	430	3.9	3.0	<0.001	0.03	0.08	0.3	1.4	0.2	64.0	<0.01	<0.01	<0.2
N047519		0.29	14.6	560	4.6	4.7	<0.001	0.02	0.15	1.3	0.9	0.3	91.6	<0.01	<0.01	0.3
N047520		0.05	4.6	260	1.6	1.4	<0.001	0.01	0.06	0.5	0.6	<0.2	186.5	<0.01	<0.01	<0.2
N047521		0.17	13.0	590	5.2	3.8	<0.001	0.02	0.09	0.8	0.4	0.3	155.0	<0.01	<0.01	0.2
N047522		0.11	14.5	330	1.6	1.8	<0.001	0.04	0.07	0.5	0.2	<0.2	96.9	<0.01	<0.01	0.2
N047523		0.18	26.7	640	6.1	3.0	0.001	0.05	0.15	1.3	1.1	0.3	161.5	<0.01	0.01	0.2
N047524		0.15	22.0	570	3.7	3.2	0.001	0.04	0.12	1.8	0.6	0.2	152.5	<0.01	0.01	0.2
N047525		<0.05	5.9	370	3.4	1.0	0.001	0.02	0.07	0.5	0.6	<0.2	83.8	<0.01	<0.01	<0.2
N047526		0.06	5.5	560	4.4	1.5	<0.001	0.08	0.13	0.3	0.5	0.2	94.1	<0.01	<0.01	<0.2
N047527		0.11	9.1	600	2.9	2.2	<0.001	0.05	0.09	0.6	0.4	<0.2	145.5	<0.01	<0.01	<0.2
N047528		<0.05	2.3	250	2.9	0.7	0.001	0.02	0.06	0.1	<0.2	<0.2	60.7	<0.01	<0.01	<0.2
N047529		0.07	4.8	480	12.4	1.9	<0.001	0.02	0.12	0.7	0.2	0.2	95.7	<0.01	<0.01	0.2
N047530		<0.05	2.0	200	0.5	2.3	0.001	0.02	<0.05	0.1	<0.2	<0.2	62.3	<0.01	<0.01	<0.2
N047531		0.11	4.8	460	4.2	2.1	<0.001	0.03	0.11	0.6	0.3	<0.2	214	<0.01	0.01	0.2
N047532		<0.05	2.4	520	4.0	1.1	0.001	0.05	0.10	0.3	0.7	<0.2	118.0	<0.01	<0.01	<0.2
N047533		<0.05	0.9	190	<0.2	0.9	<0.001	<0.01	0.05	<0.1	<0.2	<0.2	15.0	<0.01	<0.01	<0.2
N047534		0.17	7.7	430	2.9	4.8	<0.001	0.04	0.12	0.7	0.3	0.2	137.0	<0.01	<0.01	0.4
N047535		<0.05	1.4	340	0.3	2.2	0.002	0.02	<0.05	0.1	<0.2	<0.2	44.9	<0.01	<0.01	<0.2
N047536		<0.05	1.6	210	1.7	2.1	0.001	<0.01	0.05	0.2	0.4	<0.2	29.4	<0.01	<0.01	<0.2
N047537		0.11	4.3	420	1.3	3.3	0.001	0.04	0.09	0.7	<0.2	<0.2	89.5	<0.01	0.01	0.2
N047538		<0.05	0.8	130	<0.2	1.9	0.001	<0.01	<0.05	0.1	0.2	<0.2	15.3	<0.01	<0.01	<0.2
N047539		<0.05	0.6	210	<0.2	1.9	<0.001	0.02	<0.05	0.1	0.3	<0.2	67.0	<0.01	<0.01	<0.2
N047540		<0.05	0.5	90	0.8	0.7	<0.001	<0.01	0.06	0.1	0.2	<0.2	16.4	<0.01	<0.01	<0.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method Analyte Units LOR	ME-MS41 Ti % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
N047501		<0.005	<0.02	<0.05	5	0.09	1.22	24	<0.5
N047502		0.017	0.02	0.16	14	0.06	8.42	46	<0.5
N047503		<0.005	<0.02	<0.05	2	<0.05	0.30	28	<0.5
N047504		0.012	<0.02	<0.05	8	<0.05	0.48	40	<0.5
N047505		0.013	0.02	0.10	16	<0.05	0.76	28	<0.5
N047506		0.009	0.02	0.05	6	<0.05	0.43	21	<0.5
N047507		0.010	<0.02	0.05	5	<0.05	0.48	59	<0.5
N047508		0.013	<0.02	0.07	8	<0.05	0.67	47	<0.5
N047509		0.014	0.03	0.06	8	<0.05	0.63	47	<0.5
N047510		0.041	0.03	0.10	29	0.05	2.22	58	<0.5
N047511		<0.005	<0.02	<0.05	2	<0.05	0.43	13	<0.5
N047512		0.008	<0.02	0.05	7	<0.05	0.99	31	<0.5
N047513		0.022	0.06	0.10	16	0.15	1.17	103	<0.5
N047514		0.030	0.03	0.11	27	0.05	0.79	45	<0.5
N047515		0.015	0.03	0.07	15	0.08	0.71	78	<0.5
N047516		0.014	<0.02	0.10	13	0.05	1.25	120	<0.5
N047517		<0.005	<0.02	0.05	3	<0.05	0.72	33	<0.5
N047518		0.006	<0.02	<0.05	5	<0.05	0.36	43	<0.5
N047519		0.034	0.04	0.15	41	0.11	1.27	43	<0.5
N047520		0.008	0.02	0.05	7	<0.05	0.52	28	<0.5
N047521		0.022	0.02	0.11	19	0.08	1.16	77	<0.5
N047522		0.013	<0.02	0.06	10	<0.05	0.61	30	<0.5
N047523		0.021	0.02	0.11	51	0.09	1.34	52	<0.5
N047524		0.027	<0.02	0.14	42	0.11	1.42	36	<0.5
N047525		0.005	<0.02	0.05	7	<0.05	0.45	30	<0.5
N047526		0.005	0.02	0.05	4	0.05	0.48	43	<0.5
N047527		0.011	0.02	0.07	10	0.06	0.76	94	<0.5
N047528		<0.005	<0.02	<0.05	1	<0.05	0.20	19	<0.5
N047529		0.011	<0.02	0.10	9	0.05	0.97	31	<0.5
N047530		<0.005	<0.02	<0.05	1	<0.05	0.11	18	<0.5
N047531		0.014	0.03	0.08	10	<0.05	0.81	91	<0.5
N047532		<0.005	0.02	<0.05	2	<0.05	0.37	52	<0.5
N047533		<0.005	<0.02	<0.05	<1	<0.05	0.06	10	<0.5
N047534		0.017	0.02	0.10	14	<0.05	0.85	70	<0.5
N047535		<0.005	<0.02	<0.05	2	<0.05	0.19	24	<0.5
N047536		<0.005	<0.02	<0.05	2	<0.05	0.20	12	<0.5
N047537		0.009	0.02	0.08	9	<0.05	0.81	38	<0.5
N047538		<0.005	<0.02	<0.05	1	<0.05	0.07	11	<0.5
N047539		<0.005	<0.02	<0.05	1	<0.05	0.10	13	<0.5
N047540		<0.005	<0.02	<0.05	1	<0.05	0.07	11	<0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
N047541		0.06	0.0007	0.21	0.64	2.8	<0.2	<10	50	0.18	0.07	1.17	0.30	8.63	6.1	25
N047542		0.04	0.0001	0.03	0.02	0.4	<0.2	<10	10	<0.05	0.02	0.08	0.09	0.20	0.1	3
N047543		0.06	0.0001	0.11	0.01	0.4	<0.2	<10	20	<0.05	0.02	0.08	0.10	0.11	0.1	6
N047544		0.02	NSS	0.05	0.01	0.3	<0.2	<10	20	<0.05	0.02	0.12	0.10	0.09	0.1	11
N047545		0.02	0.0001	0.05	0.02	0.2	<0.2	<10	30	<0.05	0.02	0.15	0.19	0.21	0.2	11
N047546		0.02	<0.0001	0.11	0.01	0.2	<0.2	<10	10	<0.05	0.02	0.06	0.06	0.08	0.1	4
N047547		0.02	NSS	0.09	0.05	0.5	<0.2	<10	30	<0.05	0.03	0.28	0.05	0.54	0.4	36
N047548		0.02	NSS	0.07	0.02	0.2	<0.2	<10	20	<0.05	0.02	0.07	0.05	0.20	0.1	18
N047549		0.02	NSS	0.12	0.05	0.6	<0.2	<10	30	<0.05	0.02	0.12	0.07	0.78	0.4	41
N047550		0.02	NSS	0.17	0.07	0.6	<0.2	<10	30	<0.05	0.03	0.22	0.12	0.83	0.5	17
N047551		0.02	0.0018	0.13	0.28	1.4	<0.2	<10	390	0.18	0.06	1.55	0.30	2.59	2.2	8
N047552		0.04	0.0003	0.08	0.03	0.3	<0.2	<10	20	<0.05	0.02	0.29	0.15	0.25	0.2	5
N047553		0.02	0.0013	0.10	0.38	1.8	<0.2	<10	330	0.12	0.08	1.48	0.44	2.53	2.7	9
N047554		0.04	0.0013	0.15	0.15	0.8	<0.2	<10	120	0.05	0.03	0.38	0.13	1.05	0.8	11
N047555		0.02	NSS	0.14	0.20	0.6	<0.2	<10	340	0.20	0.04	0.48	0.16	1.39	2.1	18
N047556		0.04	NSS	0.40	0.36	1.4	<0.2	<10	180	0.09	0.04	0.59	0.46	2.56	1.6	16
N047557		0.02	0.0002	0.17	0.06	2.5	<0.2	<10	80	<0.05	0.04	0.44	0.19	0.83	0.5	6
N047558		0.04	0.0006	0.16	0.59	2.6	<0.2	<10	290	0.34	0.08	0.97	0.47	8.03	5.1	27
N047559		0.06	NSS	0.23	0.13	0.9	<0.2	10	260	<0.05	0.04	2.60	0.53	1.12	1.4	6
N047560		0.04	0.0010	0.27	0.32	2.6	<0.2	<10	130	0.09	0.05	1.25	0.38	2.87	2.6	13
N047561		0.04	0.0003	0.05	0.04	0.3	<0.2	<10	10	<0.05	0.02	0.30	0.05	0.40	0.3	4
N047562		0.04	0.0003	0.18	0.26	1.2	<0.2	<10	210	0.09	0.04	2.25	0.71	3.10	6.1	16
N047563		0.04	0.0001	0.07	0.33	1.1	<0.2	<10	270	0.11	0.04	1.73	0.37	3.36	3.5	20
N047564		0.04	0.0083	0.09	0.31	1.2	<0.2	<10	280	0.10	0.05	1.69	0.40	2.32	3.3	14
N047565		0.04	NSS	0.17	0.05	0.3	<0.2	<10	190	<0.05	0.02	0.68	0.17	0.35	0.4	5
N047566		0.04	0.0031	0.21	0.54	1.4	<0.2	<10	180	0.14	0.05	0.59	0.28	4.49	4.1	27
N047567		0.04	0.0001	0.17	0.37	1.5	<0.2	<10	360	0.18	0.08	0.41	0.32	3.87	2.3	15
N047568		0.02	0.0003	0.13	0.60	1.6	<0.2	<10	240	0.19	0.07	1.28	0.24	6.73	5.1	31
N047569		0.06	<0.0001	0.03	0.03	0.2	<0.2	<10	30	<0.05	0.02	0.91	0.09	0.34	0.2	4
N047570		0.02	<0.0001	0.05	0.04	0.4	<0.2	<10	20	<0.05	0.02	0.22	0.04	0.51	0.3	5
N047571		0.04	0.0002	0.03	0.01	0.3	<0.2	<10	10	<0.05	0.01	0.57	0.06	0.13	0.1	2
N047572		0.02	0.0001	0.04	0.01	0.2	<0.2	<10	10	<0.05	0.02	0.15	0.04	0.18	0.1	6
N047573		0.02	<0.0001	0.05	0.02	0.1	<0.2	<10	10	<0.05	0.02	0.19	0.06	0.23	0.1	4
N047574		0.02	0.0009	0.05	0.03	0.4	<0.2	<10	10	<0.05	0.02	0.42	0.10	0.41	0.3	5
N047575		0.02	0.0002	0.05	0.02	0.4	<0.2	<10	10	<0.05	0.02	0.31	0.08	0.30	0.2	4
N047576		0.02	0.0001	0.04	0.01	0.3	<0.2	<10	10	<0.05	0.01	0.20	0.04	0.25	0.1	4
N047577		0.02	<0.0001	0.04	0.01	0.3	<0.2	<10	<10	<0.05	0.01	0.09	0.02	0.12	0.1	2
N047578		0.02	NSS	0.04	0.01	0.2	<0.2	<10	10	<0.05	0.02	0.12	0.04	0.27	0.1	5
N047579		0.02	<0.0001	0.04	0.01	0.1	<0.2	<10	10	<0.05	0.01	0.06	0.05	0.19	0.1	31
N047580		0.04	<0.0001	0.10	0.01	0.2	<0.2	<10	20	<0.05	0.01	0.11	0.14	0.20	0.1	37

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
N047541		0.37	22.9	1.17	1.61	<0.05	0.02	0.12	0.009	0.09	6.1	7.7	0.23	1300	0.50	0.01
N047542		<0.05	3.6	0.03	<0.05	<0.05	<0.02	0.07	<0.005	0.09	<0.2	0.1	0.01	62	0.12	<0.01
N047543		<0.05	3.8	0.02	<0.05	<0.05	<0.02	0.07	<0.005	0.08	<0.2	0.1	0.01	30	<0.05	<0.01
N047544		<0.05	3.4	0.03	<0.05	<0.05	<0.02	0.10	<0.005	0.03	<0.2	0.1	0.01	55	0.22	<0.01
N047545		<0.05	5.7	0.05	0.05	<0.05	<0.02	0.07	<0.005	0.06	<0.2	0.2	0.02	81	0.06	<0.01
N047546		<0.05	5.0	0.02	<0.05	<0.05	<0.02	0.05	<0.005	0.02	<0.2	0.1	0.01	39	0.11	<0.01
N047547		0.06	11.9	0.13	0.14	<0.05	<0.02	0.08	<0.005	0.05	0.3	0.5	0.03	70	0.14	0.01
N047548		<0.05	8.6	0.05	0.05	<0.05	<0.02	0.04	<0.005	0.03	<0.2	0.1	0.01	29	0.29	0.01
N047549		0.07	11.0	0.15	0.16	<0.05	<0.02	0.13	<0.005	0.05	0.4	0.5	0.02	49	0.13	<0.01
N047550		0.08	16.2	0.15	0.21	<0.05	<0.02	0.09	<0.005	0.07	0.4	0.5	0.03	88	0.20	<0.01
N047551		0.17	22.9	0.36	0.67	<0.05	<0.02	0.12	0.006	0.08	1.5	1.3	0.11	1820	0.27	<0.01
N047552		0.06	8.4	0.04	0.06	<0.05	<0.02	0.08	<0.005	0.10	<0.2	0.2	0.04	493	0.05	<0.01
N047553		0.27	12.0	0.50	1.06	<0.05	<0.02	0.15	0.009	0.09	1.5	2.7	0.12	3420	0.49	0.01
N047554		0.14	11.1	0.17	0.42	<0.05	<0.02	0.05	<0.005	0.10	0.6	0.8	0.05	332	0.19	0.01
N047555		0.11	6.7	0.20	0.36	<0.05	<0.02	0.14	<0.005	0.05	0.8	0.6	0.04	205	0.25	0.01
N047556		0.14	15.4	0.35	0.51	<0.05	<0.02	0.15	<0.005	0.05	1.5	0.5	0.04	253	0.26	0.01
N047557		0.14	12.3	0.09	0.17	<0.05	<0.02	0.39	<0.005	0.31	0.5	0.3	0.04	504	0.19	0.01
N047558		0.23	25.1	0.95	1.87	<0.05	<0.02	0.10	0.011	0.06	4.6	3.5	0.13	795	0.44	0.01
N047559		0.12	8.0	0.16	0.29	<0.05	<0.02	0.21	<0.005	0.08	0.9	0.5	0.08	1590	0.56	0.01
N047560		0.26	56.9	0.60	0.97	<0.05	<0.02	0.12	0.005	0.07	1.7	2.7	0.12	635	0.64	0.01
N047561		<0.05	10.2	0.06	0.08	<0.05	<0.02	0.12	<0.005	0.05	0.2	0.3	0.03	68	0.13	0.01
N047562		0.22	16.8	0.43	0.78	<0.05	<0.02	0.17	<0.005	0.13	1.8	2.1	0.15	1160	0.71	0.01
N047563		0.24	9.8	0.46	0.84	<0.05	<0.02	0.10	<0.005	0.11	1.8	2.9	0.15	325	0.26	0.01
N047564		0.21	17.1	0.43	0.83	<0.05	<0.02	0.13	<0.005	0.11	1.3	2.2	0.16	1620	0.43	0.01
N047565		0.08	5.9	0.05	0.10	<0.05	<0.02	0.06	<0.005	0.08	0.2	0.2	0.06	476	0.14	0.01
N047566		0.45	20.7	0.84	1.52	<0.05	<0.02	0.11	0.008	0.09	2.3	3.3	0.23	477	0.51	0.02
N047567		0.24	6.1	0.49	1.11	<0.05	<0.02	0.14	0.008	0.08	2.0	1.5	0.06	138	0.34	0.02
N047568		0.38	9.6	1.06	2.09	<0.05	<0.02	0.09	0.006	0.09	3.4	5.1	0.23	1670	0.48	0.02
N047569		0.05	8.4	0.04	0.07	<0.05	<0.02	0.08	<0.005	0.29	0.2	0.3	0.08	119	0.15	0.01
N047570		0.05	10.7	0.07	0.11	<0.05	<0.02	0.10	<0.005	0.09	0.3	0.3	0.03	87	0.12	0.01
N047571		<0.05	6.7	0.02	<0.05	<0.05	<0.02	0.09	<0.005	0.25	<0.2	0.1	0.04	32	0.05	<0.01
N047572		<0.05	6.1	0.03	<0.05	<0.05	<0.02	0.09	<0.005	0.08	<0.2	0.1	0.02	27	0.08	<0.01
N047573		<0.05	8.5	0.03	<0.05	<0.05	<0.02	0.09	<0.005	0.07	<0.2	0.1	0.02	17	0.10	<0.01
N047574		0.05	11.4	0.06	0.08	<0.05	<0.02	0.09	<0.005	0.13	0.2	0.2	0.04	57	0.11	0.01
N047575		0.05	12.9	0.04	0.06	<0.05	<0.02	0.07	<0.005	0.07	0.2	0.1	0.03	24	0.09	0.01
N047576		<0.05	9.0	0.02	<0.05	<0.05	<0.02	0.12	<0.005	0.06	<0.2	0.1	0.02	15	0.08	0.01
N047577		<0.05	5.4	0.01	<0.05	<0.05	<0.02	0.12	<0.005	0.11	<0.2	0.1	0.02	26	0.06	0.01
N047578		<0.05	7.7	0.03	<0.05	<0.05	<0.02	0.09	<0.005	0.03	<0.2	0.1	0.01	8	0.07	<0.01
N047579		<0.05	3.4	0.05	<0.05	<0.05	<0.02	0.12	<0.005	0.08	<0.2	0.1	0.01	14	0.10	<0.01
N047580		<0.05	5.9	0.07	<0.05	<0.05	<0.02	0.12	<0.005	0.07	<0.2	0.1	0.01	25	0.07	<0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
N047541		0.34	12.0	380	2.6	3.8	0.001	0.01	0.17	1.9	0.5	<0.2	66.6	<0.01	<0.01	0.7
N047542		<0.05	0.4	90	0.3	0.8	0.001	<0.01	<0.05	0.1	0.2	0.2	10.0	<0.01	<0.01	<0.2
N047543		<0.05	0.9	80	0.3	1.0	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	14.4	<0.01	<0.01	<0.2
N047544		<0.05	0.5	100	0.6	0.3	<0.001	<0.01	<0.05	<0.1	<0.2	0.6	18.4	<0.01	<0.01	<0.2
N047545		<0.05	0.8	120	0.6	0.9	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	20.7	<0.01	<0.01	<0.2
N047546		<0.05	0.3	80	0.5	0.2	0.001	<0.01	<0.05	<0.1	0.3	<0.2	8.5	<0.01	<0.01	<0.2
N047547		<0.05	1.7	230	1.0	0.8	0.001	0.01	0.07	0.1	<0.2	<0.2	24.3	<0.01	<0.01	<0.2
N047548		<0.05	0.7	110	1.1	0.3	<0.001	<0.01	<0.05	0.1	0.2	<0.2	10.9	<0.01	<0.01	<0.2
N047549		<0.05	2.5	180	1.4	0.9	0.001	<0.01	0.06	0.2	<0.2	<0.2	14.1	<0.01	<0.01	<0.2
N047550		<0.05	1.6	170	1.7	1.2	0.001	<0.01	0.05	0.2	<0.2	<0.2	22.6	<0.01	<0.01	<0.2
N047551		0.09	4.2	300	4.9	3.3	0.001	0.01	0.09	0.5	0.6	<0.2	127.0	<0.01	<0.01	0.2
N047552		<0.05	0.6	290	0.7	2.1	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	14.4	<0.01	<0.01	<0.2
N047553		0.12	4.8	470	6.8	4.1	<0.001	0.03	0.14	0.6	0.2	0.2	97.1	<0.01	0.01	0.2
N047554		0.05	1.9	270	3.0	1.8	<0.001	<0.01	0.08	0.3	<0.2	<0.2	32.9	<0.01	<0.01	<0.2
N047555		0.05	3.3	290	5.3	1.7	0.001	0.01	0.11	0.3	0.4	<0.2	70.6	<0.01	<0.01	<0.2
N047556		0.06	3.1	550	5.1	1.5	<0.001	0.03	0.13	0.5	0.7	<0.2	70.0	<0.01	<0.01	0.2
N047557		<0.05	1.2	390	3.7	3.9	0.002	0.01	0.05	0.2	0.2	<0.2	35.8	<0.01	<0.01	<0.2
N047558		0.21	6.9	360	6.3	2.5	0.001	0.01	0.16	0.6	0.3	0.2	108.0	<0.01	<0.01	<0.2
N047559		<0.05	3.8	550	2.8	1.4	<0.001	0.04	0.10	0.3	0.2	<0.2	169.5	<0.01	<0.01	<0.2
N047560		0.16	4.9	370	3.9	3.2	<0.001	0.03	0.14	0.8	0.3	<0.2	61.2	<0.01	<0.01	0.2
N047561		<0.05	1.0	150	0.9	1.0	<0.001	<0.01	<0.05	0.1	0.4	<0.2	13.3	<0.01	<0.01	<0.2
N047562		0.11	7.3	410	2.4	4.2	<0.001	0.03	0.08	0.5	0.4	<0.2	109.5	<0.01	<0.01	0.2
N047563		0.13	6.9	320	2.2	3.7	0.001	<0.01	0.08	0.4	0.3	<0.2	138.5	<0.01	0.01	0.2
N047564		0.11	7.8	590	4.0	3.3	<0.001	0.03	0.09	0.3	0.3	<0.2	101.5	<0.01	<0.01	<0.2
N047565		<0.05	2.1	250	2.5	3.5	0.001	0.01	0.07	0.1	<0.2	0.2	47.9	<0.01	<0.01	<0.2
N047566		0.20	13.3	500	6.7	6.6	0.001	0.05	0.17	0.7	0.2	0.2	66.5	<0.01	<0.01	<0.2
N047567		0.12	5.3	510	11.2	3.1	0.002	0.04	0.15	0.7	0.4	0.2	54.9	<0.01	<0.01	0.3
N047568		0.26	10.8	450	5.0	7.9	0.002	0.04	0.16	0.9	0.3	0.2	84.7	<0.01	<0.01	<0.2
N047569		<0.05	1.1	160	0.9	2.1	0.001	<0.01	<0.05	0.1	<0.2	<0.2	68.7	<0.01	<0.01	<0.2
N047570		<0.05	0.9	210	1.1	1.2	0.001	<0.01	<0.05	0.1	<0.2	<0.2	23.1	<0.01	<0.01	<0.2
N047571		<0.05	0.4	210	0.3	2.3	0.001	<0.01	<0.05	<0.1	<0.2	<0.2	49.8	<0.01	<0.01	<0.2
N047572		<0.05	0.6	110	0.8	1.0	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	17.8	<0.01	<0.01	<0.2
N047573		<0.05	0.7	120	1.1	1.0	0.001	<0.01	<0.05	0.1	<0.2	<0.2	26.2	<0.01	<0.01	<0.2
N047574		<0.05	0.8	300	1.3	1.8	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	41.9	<0.01	<0.01	<0.2
N047575		<0.05	0.6	230	1.3	1.3	0.002	<0.01	<0.05	0.1	<0.2	<0.2	37.0	<0.01	<0.01	<0.2
N047576		<0.05	0.9	140	1.6	0.7	<0.001	<0.01	0.05	0.1	<0.2	<0.2	26.2	<0.01	<0.01	<0.2
N047577		<0.05	0.4	110	0.6	1.0	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	12.4	<0.01	<0.01	<0.2
N047578		<0.05	0.6	160	1.5	0.6	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	18.2	<0.01	<0.01	<0.2
N047579		<0.05	1.2	210	0.9	0.8	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	9.2	<0.01	<0.01	<0.2
N047580		<0.05	1.1	150	0.5	0.6	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	16.3	<0.01	<0.01	<0.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
N047541		0.029	0.04	0.26	25	0.05	4.98	26	0.9
N047542		<0.005	<0.02	<0.05	1	<0.05	0.07	6	<0.5
N047543		<0.005	<0.02	<0.05	<1	<0.05	<0.05	7	<0.5
N047544		<0.005	<0.02	<0.05	<1	<0.05	<0.05	9	<0.5
N047545		<0.005	<0.02	<0.05	1	<0.05	0.06	10	<0.5
N047546		<0.005	<0.02	<0.05	<1	<0.05	<0.05	12	<0.5
N047547		<0.005	<0.02	<0.05	2	<0.05	0.14	12	<0.5
N047548		<0.005	<0.02	<0.05	1	<0.05	0.06	6	<0.5
N047549		<0.005	<0.02	<0.05	2	<0.05	0.13	12	<0.5
N047550		<0.005	<0.02	<0.05	3	<0.05	0.20	16	<0.5
N047551		0.010	<0.02	0.07	9	<0.05	0.61	47	<0.5
N047552		<0.005	<0.02	<0.05	1	<0.05	0.06	12	<0.5
N047553		0.013	0.03	0.08	13	0.05	0.54	74	<0.5
N047554		0.007	<0.02	<0.05	6	<0.05	0.27	22	<0.5
N047555		0.005	<0.02	<0.05	4	0.06	0.46	34	<0.5
N047556		0.008	0.02	0.07	6	0.06	0.80	40	<0.5
N047557		<0.005	<0.02	<0.05	2	<0.05	0.22	26	<0.5
N047558		0.021	0.02	0.16	22	0.06	1.93	35	<0.5
N047559		0.005	<0.02	0.05	4	<0.05	0.52	19	<0.5
N047560		0.017	<0.02	0.09	16	<0.05	1.04	44	<0.5
N047561		<0.005	<0.02	<0.05	2	<0.05	0.13	7	<0.5
N047562		0.014	<0.02	0.08	10	0.06	0.75	21	<0.5
N047563		0.014	<0.02	0.08	9	<0.05	0.72	31	<0.5
N047564		0.013	0.02	0.06	9	<0.05	0.52	85	<0.5
N047565		<0.005	<0.02	<0.05	1	<0.05	0.10	29	<0.5
N047566		0.029	0.02	0.10	21	0.07	1.02	103	<0.5
N047567		0.012	<0.02	0.09	10	<0.05	0.57	22	<0.5
N047568		0.031	0.04	0.12	22	0.07	0.88	40	<0.5
N047569		<0.005	<0.02	<0.05	1	<0.05	0.13	18	<0.5
N047570		<0.005	<0.02	<0.05	2	<0.05	0.11	9	<0.5
N047571		<0.005	<0.02	<0.05	<1	<0.05	0.05	9	<0.5
N047572		<0.005	<0.02	<0.05	1	<0.05	0.05	6	<0.5
N047573		<0.005	<0.02	<0.05	1	<0.05	0.09	8	<0.5
N047574		<0.005	<0.02	<0.05	1	<0.05	0.16	16	<0.5
N047575		<0.005	<0.02	<0.05	1	<0.05	0.12	13	<0.5
N047576		<0.005	<0.02	<0.05	1	<0.05	0.08	7	<0.5
N047577		<0.005	<0.02	<0.05	<1	<0.05	<0.05	3	<0.5
N047578		<0.005	<0.02	<0.05	1	<0.05	0.09	6	<0.5
N047579		<0.005	<0.02	<0.05	<1	<0.05	<0.05	6	<0.5
N047580		<0.005	<0.02	<0.05	1	<0.05	0.05	7	<0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
N047581		0.04	0.0001	0.20	0.01	0.1	<0.2	<10	10	<0.05	0.01	0.06	0.03	0.09	0.1	9
N047582		0.02	NSS	0.06	0.02	0.1	<0.2	<10	10	<0.05	0.02	0.19	0.04	0.30	0.2	20
N047583		0.02	0.0001	0.03	0.01	0.1	<0.2	<10	<10	<0.05	0.01	0.10	0.02	0.07	<0.1	4
N047584		0.02	<0.0001	0.05	0.01	0.1	<0.2	<10	10	<0.05	0.01	0.07	0.02	0.12	0.1	15
N047585		0.02	0.0002	0.05	0.01	0.2	<0.2	<10	10	<0.05	0.01	0.12	0.04	0.20	0.1	10
N047586		0.02	0.0007	0.05	0.03	0.2	<0.2	<10	30	<0.05	0.01	0.17	0.09	0.80	0.1	8
N047587		0.02	<0.0001	0.07	0.06	0.4	<0.2	<10	20	<0.05	0.01	0.16	0.13	1.38	0.4	9
N047588		0.02	0.0002	0.08	0.01	0.1	<0.2	<10	10	<0.05	0.01	0.24	0.04	0.24	0.1	5
N047589		0.02	0.0002	0.09	0.01	0.2	<0.2	<10	10	<0.05	0.01	0.14	0.04	0.19	0.1	4
N047590		0.02	0.0003	0.06	0.01	0.2	<0.2	<10	10	<0.05	0.01	0.12	0.06	0.17	0.1	6
N047591		0.02	<0.0001	0.14	<0.01	0.2	<0.2	<10	10	<0.05	0.01	0.04	0.05	0.05	<0.1	3
N047592		0.02	0.0002	0.04	0.01	0.1	<0.2	<10	20	<0.05	0.01	0.14	0.03	0.15	0.1	11
N047593		0.02	<0.0001	0.08	0.01	0.2	<0.2	<10	30	<0.05	0.01	0.05	0.03	0.07	<0.1	6
N047594		0.04	<0.0001	0.18	0.02	0.2	<0.2	<10	40	<0.05	0.01	0.09	0.07	0.26	0.1	6
N047595		0.04	0.0002	0.19	0.07	0.3	<0.2	<10	50	<0.05	0.01	0.22	0.12	1.02	0.4	5
N047596		0.04	0.0001	0.23	0.01	0.2	<0.2	<10	10	<0.05	0.01	0.05	0.07	0.10	0.1	6
N047597		0.04	0.0003	0.09	0.05	0.2	<0.2	<10	20	<0.05	0.01	0.12	0.05	0.76	0.3	3
N047598		0.06	<0.0001	0.08	0.03	0.1	<0.2	<10	20	<0.05	0.01	0.33	0.12	0.32	0.3	6
N047599		0.04	0.0002	0.04	0.01	<0.1	<0.2	<10	40	<0.05	0.02	0.31	0.26	0.17	0.2	1
N047600		0.04	0.0003	0.04	0.01	0.2	<0.2	<10	10	<0.05	0.01	0.18	0.03	0.26	0.1	2
N047601		0.02	<0.0001	0.05	0.01	0.2	<0.2	<10	10	<0.05	0.01	0.14	0.05	0.20	0.1	4
N047602		0.04	0.0003	0.06	0.01	0.5	<0.2	<10	10	<0.05	0.01	0.14	0.05	0.20	0.1	4
N047603		0.02	0.0084	0.09	0.01	0.2	<0.2	<10	10	<0.05	0.01	0.14	0.04	0.19	0.1	4
N047604		0.04	0.0019	0.06	0.02	0.2	<0.2	<10	20	<0.05	0.02	0.16	0.06	0.38	0.2	9
N047605		0.02	0.0001	0.03	0.04	0.6	<0.2	<10	20	<0.05	0.01	0.36	0.07	0.31	0.4	15
N047606		0.02	0.0012	0.08	0.01	0.1	<0.2	<10	10	<0.05	0.01	0.18	0.07	0.11	0.1	7
N047607		0.04	0.0001	0.09	<0.01	<0.1	<0.2	<10	<10	<0.05	0.01	0.07	0.01	0.06	<0.1	4
N047608		0.02	0.0009	0.05	0.01	0.2	<0.2	<10	<10	<0.05	0.01	0.06	0.03	0.13	0.1	7
N047609		0.04	0.0002	0.06	0.01	0.2	<0.2	<10	20	<0.05	0.01	0.11	0.10	0.21	0.1	5
N047610		0.04	0.0004	0.05	0.01	0.2	<0.2	<10	20	<0.05	0.01	0.10	0.09	0.22	0.1	10
N047611		0.04	<0.0001	0.08	0.01	0.2	<0.2	<10	20	<0.05	0.01	0.23	0.05	0.23	0.1	2
N047612		0.04	<0.0001	0.19	0.02	0.4	<0.2	<10	20	<0.05	0.01	0.12	0.08	0.29	0.1	4
N047613		0.02	NSS	0.05	0.01	0.4	<0.2	<10	10	<0.05	0.01	0.20	0.06	0.77	0.2	5
N047614		0.04	NSS	0.05	0.02	0.1	<0.2	<10	10	<0.05	0.02	0.12	0.04	0.35	0.2	8
N047615		0.04	<0.0001	0.05	0.02	<0.1	<0.2	<10	10	<0.05	0.01	0.17	0.05	0.27	0.1	5
N047616		0.04	<0.0001	0.06	0.01	1.1	<0.2	<10	10	<0.05	0.02	0.15	0.08	0.19	0.1	3
N047617		0.04	<0.0001	0.07	0.01	0.1	<0.2	<10	10	<0.05	0.01	0.15	0.05	0.19	0.1	2
N047618		0.02	NSS	0.08	0.02	0.7	<0.2	<10	10	<0.05	0.02	0.17	0.08	0.29	0.1	3
N047619		0.04	0.0001	0.04	0.01	0.2	<0.2	<10	10	<0.05	0.01	0.07	0.02	0.12	<0.1	2
N047620		0.04	<0.0001	0.05	0.01	1.0	<0.2	<10	20	<0.05	0.01	0.21	0.07	0.19	0.1	3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method / Analyte / Units / LOR	ME-MS41 Cs ppm 0.05	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01
N047581		<0.05	2.4	0.02	<0.05	<0.05	<0.02	0.08	<0.005	0.04	<0.2	0.1	<0.01	13	0.06	<0.01
N047582		<0.05	12.7	0.05	<0.05	<0.05	<0.02	0.07	<0.005	0.05	<0.2	0.1	0.02	13	0.11	<0.01
N047583		<0.05	3.7	0.01	<0.05	<0.05	<0.02	0.07	<0.005	0.06	<0.2	0.1	0.01	10	<0.05	<0.01
N047584		<0.05	6.2	0.03	<0.05	<0.05	<0.02	0.07	<0.005	0.04	<0.2	0.1	0.01	20	0.07	<0.01
N047585		<0.05	9.0	0.03	<0.05	<0.05	<0.02	0.12	<0.005	0.04	<0.2	0.1	0.01	13	0.09	<0.01
N047586		<0.05	7.6	0.06	0.07	<0.05	<0.02	0.12	<0.005	0.09	0.4	0.4	0.02	48	0.05	<0.01
N047587		0.07	4.7	0.12	0.17	<0.05	<0.02	0.12	<0.005	0.17	0.7	1.4	0.04	64	0.06	0.01
N047588		<0.05	10.3	0.03	<0.05	<0.05	<0.02	0.08	<0.005	0.07	<0.2	0.1	0.02	22	0.07	0.01
N047589		<0.05	8.5	0.03	<0.05	<0.05	<0.02	0.09	<0.005	0.11	<0.2	0.1	0.02	54	0.06	<0.01
N047590		<0.05	7.8	0.03	<0.05	<0.05	<0.02	0.06	<0.005	0.07	<0.2	0.1	0.01	37	0.05	<0.01
N047591		<0.05	3.0	0.01	<0.05	<0.05	<0.02	0.08	<0.005	0.07	<0.2	<0.1	0.01	24	<0.05	<0.01
N047592		<0.05	6.6	0.03	<0.05	<0.05	<0.02	0.09	<0.005	0.08	<0.2	0.1	0.02	38	0.06	<0.01
N047593		<0.05	6.8	0.02	<0.05	<0.05	<0.02	0.14	<0.005	0.03	<0.2	0.1	<0.01	14	0.05	<0.01
N047594		0.05	11.6	0.04	0.05	<0.05	<0.02	0.08	<0.005	0.11	<0.2	0.1	0.02	49	0.09	<0.01
N047595		0.10	9.6	0.13	0.18	<0.05	<0.02	0.10	<0.005	0.06	0.5	0.7	0.04	225	0.11	<0.01
N047596		<0.05	4.8	0.02	<0.05	<0.05	<0.02	0.18	<0.005	0.07	<0.2	0.1	0.01	27	<0.05	<0.01
N047597		0.06	9.9	0.09	0.13	<0.05	<0.02	0.07	<0.005	0.05	0.4	0.5	0.02	43	0.09	<0.01
N047598		<0.05	7.0	0.05	0.06	<0.05	<0.02	0.11	<0.005	0.09	0.2	0.2	0.03	81	0.06	<0.01
N047599		<0.05	9.8	0.03	<0.05	<0.05	<0.02	0.06	<0.005	0.11	<0.2	0.1	0.04	191	0.15	<0.01
N047600		<0.05	13.3	0.03	<0.05	<0.05	<0.02	0.05	<0.005	0.08	<0.2	0.1	0.02	16	0.12	<0.01
N047601		<0.05	8.3	0.03	<0.05	<0.05	<0.02	0.06	<0.005	0.07	<0.2	0.1	0.02	22	0.11	<0.01
N047602		<0.05	6.6	0.03	<0.05	<0.05	<0.02	0.08	<0.005	0.13	<0.2	0.1	0.02	26	0.09	<0.01
N047603		<0.05	8.1	0.03	<0.05	<0.05	<0.02	0.09	<0.005	0.09	<0.2	0.1	0.01	50	0.10	0.01
N047604		<0.05	10.0	0.05	0.06	<0.05	<0.02	0.11	<0.005	0.06	0.2	0.1	0.02	17	0.36	0.01
N047605		<0.05	18.6	0.05	0.07	<0.05	<0.02	0.17	<0.005	0.29	<0.2	0.4	0.05	64	0.22	0.01
N047606		<0.05	4.3	0.02	<0.05	<0.05	<0.02	0.06	<0.005	0.10	<0.2	0.1	0.02	106	0.06	<0.01
N047607		<0.05	2.7	0.01	<0.05	<0.05	<0.02	0.07	<0.005	0.02	<0.2	<0.1	<0.01	7	0.05	0.01
N047608		<0.05	4.4	0.02	<0.05	<0.05	<0.02	0.09	<0.005	0.06	<0.2	0.1	0.01	17	0.08	0.01
N047609		<0.05	7.0	0.03	<0.05	<0.05	<0.02	0.07	<0.005	0.08	<0.2	0.1	0.02	40	0.09	0.01
N047610		<0.05	6.6	0.03	<0.05	<0.05	<0.02	0.07	<0.005	0.08	<0.2	0.1	0.02	38	0.07	0.01
N047611		<0.05	5.5	0.03	<0.05	<0.05	<0.02	0.07	<0.005	0.09	<0.2	0.1	0.01	21	0.23	0.01
N047612		<0.05	11.3	0.04	0.05	<0.05	<0.02	0.07	<0.005	0.06	0.2	0.2	0.01	27	0.13	0.01
N047613		<0.05	8.4	0.03	0.06	<0.05	<0.02	0.16	<0.005	0.16	0.4	0.1	0.02	24	0.11	0.01
N047614		<0.05	16.5	0.05	0.07	<0.05	<0.02	0.11	<0.005	0.05	0.2	0.2	0.02	14	0.12	0.01
N047615		<0.05	15.6	0.04	0.05	<0.05	<0.02	0.10	<0.005	0.06	0.2	0.2	0.02	19	0.11	0.01
N047616		<0.05	6.2	0.02	<0.05	<0.05	0.12	0.09	<0.005	0.05	<0.2	0.1	0.01	10	0.06	0.01
N047617		<0.05	5.4	0.02	<0.05	<0.05	0.03	0.08	<0.005	0.05	<0.2	0.1	0.01	20	0.11	0.01
N047618		0.05	14.7	0.04	0.06	<0.05	<0.02	0.12	<0.005	0.11	0.2	0.2	0.02	16	0.19	0.01
N047619		<0.05	4.7	0.01	<0.05	<0.05	<0.02	0.07	<0.005	0.06	<0.2	0.1	0.01	7	0.09	0.01
N047620		<0.05	11.0	0.03	0.05	<0.05	<0.02	0.15	<0.005	0.25	<0.2	0.1	0.02	53	0.14	0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
N047581		<0.05	0.5	60	0.5	0.3	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	8.3	<0.01	<0.01	<0.2
N047582		<0.05	1.4	160	1.3	0.7	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	25.9	<0.01	<0.01	<0.2
N047583		<0.05	0.2	60	0.3	0.8	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	9.9	<0.01	<0.01	<0.2
N047584		<0.05	0.6	110	0.5	0.5	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	9.5	<0.01	<0.01	<0.2
N047585		<0.05	0.8	150	1.3	0.5	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	18.6	<0.01	<0.01	<0.2
N047586		<0.05	0.6	170	0.4	0.8	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	20.8	<0.01	<0.01	<0.2
N047587		<0.05	1.3	270	0.6	1.9	<0.001	<0.01	<0.05	0.2	<0.2	<0.2	14.8	<0.01	<0.01	0.2
N047588		<0.05	0.8	140	0.8	0.8	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	30.5	<0.01	<0.01	<0.2
N047589		<0.05	0.5	130	0.5	0.9	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	19.0	<0.01	<0.01	<0.2
N047590		<0.05	0.4	90	0.4	0.6	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	11.7	<0.01	<0.01	<0.2
N047591		<0.05	0.2	60	0.2	0.9	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	4.0	<0.01	<0.01	<0.2
N047592		<0.05	0.6	120	0.5	0.9	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	12.7	<0.01	<0.01	<0.2
N047593		<0.05	0.4	100	0.5	0.5	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	7.0	<0.01	<0.01	<0.2
N047594		<0.05	0.7	160	0.9	2.0	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	7.8	<0.01	<0.01	<0.2
N047595		<0.05	1.4	170	1.2	1.9	<0.001	<0.01	<0.05	0.2	<0.2	<0.2	13.8	<0.01	<0.01	<0.2
N047596		<0.05	0.4	70	0.4	0.9	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	4.1	<0.01	<0.01	<0.2
N047597		<0.05	1.0	130	0.7	1.4	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	12.4	<0.01	<0.01	<0.2
N047598		<0.05	1.0	120	0.5	1.8	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	23.7	<0.01	<0.01	<0.2
N047599		<0.05	0.4	260	0.6	1.6	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	20.1	<0.01	<0.01	<0.2
N047600		<0.05	2.0	120	2.1	0.8	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	18.6	<0.01	<0.01	<0.2
N047601		<0.05	1.7	100	1.3	0.9	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	10.4	<0.01	<0.01	<0.2
N047602		<0.05	1.5	90	1.0	1.9	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	11.4	<0.01	<0.01	<0.2
N047603		<0.05	2.1	130	0.9	1.3	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	13.7	<0.01	<0.01	<0.2
N047604		<0.05	2.6	190	1.0	0.8	<0.001	0.01	0.08	0.1	<0.2	<0.2	16.7	<0.01	<0.01	<0.2
N047605		<0.05	8.6	340	0.7	2.2	<0.001	0.02	<0.05	0.1	<0.2	<0.2	22.9	<0.01	<0.01	<0.2
N047606		<0.05	1.9	40	0.5	1.5	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	24.1	<0.01	<0.01	<0.2
N047607		<0.05	1.6	40	0.2	0.3	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	8.1	<0.01	<0.01	<0.2
N047608		<0.05	2.0	100	0.3	0.8	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	6.4	<0.01	<0.01	<0.2
N047609		<0.05	1.0	210	0.5	0.6	<0.001	0.01	<0.05	0.1	<0.2	<0.2	15.9	<0.01	<0.01	<0.2
N047610		<0.05	0.9	150	0.6	0.6	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	13.7	<0.01	<0.01	<0.2
N047611		<0.05	1.1	80	0.7	1.0	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	37.8	<0.01	<0.01	<0.2
N047612		<0.05	1.6	110	1.7	0.8	<0.001	0.01	<0.05	0.1	<0.2	<0.2	17.3	<0.01	<0.01	<0.2
N047613		0.15	1.2	150	1.0	1.4	<0.001	0.02	<0.05	0.1	<0.2	<0.2	26.2	<0.01	0.01	<0.2
N047614		<0.05	1.3	190	1.4	0.7	<0.001	0.02	<0.05	0.1	<0.2	<0.2	20.2	<0.01	0.01	<0.2
N047615		<0.05	1.0	150	0.9	0.9	<0.001	0.01	<0.05	0.1	<0.2	<0.2	24.0	<0.01	0.01	<0.2
N047616		<0.05	0.5	120	5.8	0.6	<0.001	0.01	0.13	<0.1	<0.2	<0.2	18.3	<0.01	0.01	<0.2
N047617		<0.05	0.6	90	1.4	0.7	<0.001	0.01	0.06	<0.1	<0.2	<0.2	15.6	<0.01	0.01	<0.2
N047618		<0.05	0.8	260	2.4	2.0	<0.001	0.02	0.05	0.1	<0.2	<0.2	20.6	<0.01	<0.01	<0.2
N047619		<0.05	0.4	110	0.8	0.7	<0.001	0.01	<0.05	<0.1	<0.2	<0.2	10.8	<0.01	<0.01	<0.2
N047620		<0.05	0.6	250	0.9	2.8	<0.001	0.01	<0.05	<0.1	<0.2	<0.2	24.8	<0.01	<0.01	<0.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
N047581		<0.005	<0.02	<0.05	<1	<0.05	<0.05	4	<0.5
N047582		<0.005	<0.02	<0.05	1	<0.05	0.11	7	<0.5
N047583		<0.005	<0.02	<0.05	<1	<0.05	<0.05	5	<0.5
N047584		<0.005	<0.02	<0.05	1	<0.05	<0.05	4	<0.5
N047585		<0.005	<0.02	<0.05	1	<0.05	0.07	6	<0.5
N047586		<0.005	<0.02	<0.05	1	<0.05	0.10	11	<0.5
N047587		<0.005	<0.02	<0.05	2	<0.05	0.21	11	<0.5
N047588		<0.005	<0.02	<0.05	1	<0.05	0.08	6	<0.5
N047589		<0.005	<0.02	<0.05	1	<0.05	0.07	7	<0.5
N047590		<0.005	<0.02	<0.05	1	<0.05	<0.05	4	<0.5
N047591		<0.005	<0.02	<0.05	<1	<0.05	<0.05	6	<0.5
N047592		<0.005	<0.02	<0.05	1	<0.05	0.05	7	<0.5
N047593		<0.005	<0.02	<0.05	<1	<0.05	<0.05	4	<0.5
N047594		<0.005	<0.02	<0.05	1	<0.05	0.09	13	<0.5
N047595		0.005	<0.02	<0.05	3	<0.05	0.18	19	<0.5
N047596		<0.005	<0.02	<0.05	<1	<0.05	<0.05	5	<0.5
N047597		<0.005	<0.02	<0.05	2	<0.05	0.12	9	<0.5
N047598		<0.005	<0.02	<0.05	1	<0.05	0.10	12	<0.5
N047599		<0.005	<0.02	<0.05	1	<0.05	0.07	50	<0.5
N047600		<0.005	<0.02	<0.05	1	<0.05	0.08	5	<0.5
N047601		<0.005	<0.02	<0.05	1	<0.05	0.07	6	<0.5
N047602		<0.005	<0.02	<0.05	<1	<0.05	0.07	6	<0.5
N047603		<0.005	<0.02	<0.05	1	<0.05	0.06	10	<0.5
N047604		<0.005	<0.02	<0.05	1	<0.05	0.10	11	<0.5
N047605		<0.005	<0.02	<0.05	1	<0.05	0.10	12	<0.5
N047606		<0.005	<0.02	<0.05	1	<0.05	<0.05	7	<0.5
N047607		<0.005	<0.02	<0.05	<1	<0.05	<0.05	3	<0.5
N047608		<0.005	<0.02	<0.05	1	<0.05	<0.05	4	<0.5
N047609		<0.005	<0.02	<0.05	1	<0.05	0.06	13	<0.5
N047610		<0.005	<0.02	<0.05	<1	<0.05	0.06	11	<0.5
N047611		<0.005	<0.02	<0.05	<1	<0.05	0.07	8	<0.5
N047612		<0.005	<0.02	<0.05	1	<0.05	0.09	10	<0.5
N047613		<0.005	<0.02	<0.05	1	<0.05	0.21	9	<0.5
N047614		<0.005	<0.02	<0.05	1	<0.05	0.13	8	<0.5
N047615		<0.005	<0.02	<0.05	1	<0.05	0.10	8	<0.5
N047616		<0.005	<0.02	<0.05	<1	<0.05	0.06	12	<0.5
N047617		<0.005	<0.02	<0.05	<1	<0.05	0.07	7	<0.5
N047618		<0.005	<0.02	<0.05	1	<0.05	0.10	9	<0.5
N047619		<0.005	<0.02	<0.05	<1	<0.05	<0.05	4	<0.5
N047620		<0.005	<0.02	<0.05	1	<0.05	0.07	10	<0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
N047621		0.04	NSS	0.13	0.01	0.2	<0.2	<10	40	<0.05	0.01	0.14	0.19	0.10	0.1	13
N047622		0.02	<0.0001	0.05	0.01	0.4	<0.2	<10	10	<0.05	0.01	0.10	0.05	0.18	0.1	3
N047623		0.04	<0.0001	0.08	0.03	0.6	<0.2	<10	10	<0.05	0.02	0.17	0.06	0.49	0.2	3
N047624		0.04	0.0003	0.03	<0.01	0.6	<0.2	<10	<10	<0.05	0.01	0.09	0.01	0.04	<0.1	3
N047625		0.02	<0.0001	0.03	<0.01	0.5	<0.2	<10	<10	<0.05	0.01	0.11	0.02	0.05	<0.1	3
N047626		0.04	<0.0001	0.03	0.01	0.1	<0.2	<10	10	<0.05	0.01	0.41	0.08	0.20	0.2	15
N047627		0.04	<0.0001	0.01	0.01	0.1	<0.2	<10	10	<0.05	0.01	0.53	0.07	0.22	0.2	25
N047628		0.06	<0.0001	0.04	0.01	<0.1	<0.2	<10	10	<0.05	0.01	0.11	0.04	0.12	0.1	6
N047629		0.02	<0.0001	0.01	0.01	0.2	<0.2	<10	<10	<0.05	0.01	0.08	0.03	0.11	0.1	8
N047630		0.06	0.0002	0.05	0.01	<0.1	<0.2	10	10	<0.05	0.01	3.95	0.59	0.10	0.3	2
N047631		0.04	<0.0001	0.04	0.01	0.3	<0.2	<10	10	<0.05	0.01	0.07	0.04	0.20	0.1	8
N047632		0.04	<0.0001	0.05	0.01	<0.1	<0.2	10	10	<0.05	0.01	1.70	0.58	0.18	0.4	3
N047633		0.06	<0.0001	0.30	0.01	<0.1	<0.2	<10	20	<0.05	0.01	0.17	0.09	0.20	0.1	7
N047634		0.04	<0.0001	0.17	0.23	1.3	<0.2	10	30	0.09	0.03	0.33	0.15	3.78	1.4	9
N047635		0.04	0.0001	0.06	0.01	0.1	<0.2	<10	20	<0.05	0.01	0.12	0.05	0.15	0.1	6
N047636		0.06	0.0001	0.05	0.08	0.3	<0.2	<10	30	0.06	0.01	0.15	0.14	1.70	0.7	8
N047637		0.06	<0.0001	0.06	0.05	0.2	<0.2	10	20	<0.05	0.02	0.23	0.07	0.70	0.6	8
N047638		0.04	<0.0001	0.06	0.01	0.1	<0.2	<10	10	<0.05	0.01	0.29	0.04	0.24	0.2	7
N047639		0.04	<0.0001	0.07	0.01	<0.1	<0.2	<10	10	<0.05	0.01	0.05	0.06	0.14	0.1	5
N047640		0.02	<0.0001	0.05	0.04	0.4	<0.2	<10	10	<0.05	0.02	0.17	0.04	1.30	0.3	9
N047641		0.02	<0.0001	0.03	0.01	0.2	<0.2	<10	10	<0.05	0.01	0.12	0.03	0.21	0.1	8
N047642		0.02	<0.0001	0.06	0.01	0.2	<0.2	<10	10	<0.05	0.01	0.15	0.02	0.26	0.1	6
N047643		0.04	0.0001	0.15	0.04	0.8	<0.2	<10	20	<0.05	0.02	0.33	0.09	0.46	0.3	7
N047644		0.06	0.0003	0.04	0.02	0.9	<0.2	<10	30	<0.05	0.01	0.21	0.08	0.36	0.1	5
N047645		0.06	<0.0001	0.05	0.05	0.1	<0.2	<10	20	<0.05	0.01	0.42	0.05	0.58	0.2	5
N047646		0.04	0.0008	0.04	0.01	0.3	<0.2	<10	20	<0.05	0.01	0.10	0.05	0.24	0.1	4
N047647		0.06	0.0002	0.19	0.01	0.1	<0.2	<10	60	<0.05	0.01	0.12	0.07	0.15	0.1	2
N047648		0.06	0.0010	0.09	1.27	3.9	<0.2	10	130	0.27	0.02	0.59	0.05	14.75	5.6	40
N047649		0.06	0.0017	0.05	0.06	1.0	<0.2	<10	70	<0.05	0.01	0.34	0.24	1.03	0.5	3
N047650		0.04	0.0005	0.04	0.05	0.9	<0.2	<10	50	<0.05	0.02	0.18	0.21	0.86	0.4	5
N047651		0.02	0.0006	0.03	0.01	0.2	<0.2	<10	10	<0.05	0.01	0.10	0.02	0.28	0.2	24
N047652		0.04	0.0014	0.05	0.05	1.3	<0.2	<10	70	<0.05	0.03	0.48	0.16	0.87	0.5	21
N047653		0.04	0.0010	0.12	0.02	0.5	<0.2	<10	30	<0.05	0.01	0.27	0.07	0.29	0.1	8
N047654		0.04	0.0008	0.07	0.01	0.4	<0.2	<10	90	<0.05	0.01	0.16	0.11	0.18	0.1	5
N047655		0.02	0.0007	1.53	0.01	1.2	<0.2	<10	90	<0.05	0.01	0.25	0.18	0.11	0.1	6
N047656		0.08	0.0002	0.28	0.01	0.4	<0.2	<10	30	<0.05	0.01	0.17	0.08	0.18	0.1	2
N047657		0.04	0.0007	0.10	0.02	0.5	<0.2	<10	20	<0.05	0.01	0.23	0.05	0.24	0.2	6
N047658		0.12	0.0002	0.11	0.12	0.8	<0.2	<10	20	<0.05	0.01	0.08	0.03	1.73	0.7	8
N047659		0.04	0.0008	0.05	0.01	1.6	<0.2	<10	10	<0.05	0.01	0.17	0.03	0.17	0.1	4
N047660		0.04	0.0008	0.05	0.21	0.6	<0.2	<10	40	0.05	0.02	0.27	0.09	3.50	1.3	8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
N047621		<0.05	3.6	0.02	<0.05	<0.05	<0.02	0.17	<0.005	0.09	<0.2	0.1	0.03	41	0.08	0.01
N047622		<0.05	5.9	0.02	<0.05	<0.05	<0.02	0.19	<0.005	0.06	<0.2	0.1	0.01	12	0.16	0.01
N047623		0.06	12.9	0.06	0.11	<0.05	<0.02	0.15	<0.005	0.14	0.3	0.4	0.02	38	0.24	0.01
N047624		<0.05	1.6	0.01	<0.05	<0.05	<0.02	0.10	<0.005	0.10	<0.2	0.1	0.01	6	0.07	0.01
N047625		<0.05	2.2	0.01	<0.05	<0.05	<0.02	0.11	<0.005	0.10	<0.2	0.1	0.01	8	0.08	0.01
N047626		<0.05	6.9	0.04	<0.05	<0.05	<0.02	0.09	<0.005	0.06	<0.2	0.1	0.02	27	0.14	0.01
N047627		<0.05	10.8	0.05	<0.05	<0.05	<0.02	0.06	<0.005	0.21	<0.2	0.2	0.05	33	0.15	0.01
N047628		<0.05	6.1	0.02	<0.05	<0.05	<0.02	0.10	<0.005	0.03	<0.2	0.1	0.01	13	0.08	0.01
N047629		<0.05	4.8	0.02	<0.05	<0.05	<0.02	0.11	<0.005	0.03	<0.2	0.1	0.01	7	0.06	0.01
N047630		<0.05	10.9	0.02	<0.05	<0.05	<0.02	0.03	<0.005	0.25	<0.2	0.2	0.56	24	0.10	0.01
N047631		<0.05	6.4	0.03	<0.05	<0.05	<0.02	0.11	<0.005	0.03	<0.2	0.1	0.01	13	0.08	0.01
N047632		<0.05	8.9	0.02	<0.05	<0.05	<0.02	0.07	<0.005	0.71	<0.2	0.2	0.23	18	0.08	0.01
N047633		<0.05	3.4	0.03	<0.05	<0.05	<0.02	0.09	<0.005	0.09	<0.2	0.2	0.02	19	0.05	0.01
N047634		0.17	13.7	0.39	0.59	<0.05	<0.02	0.11	<0.005	0.11	2.3	5.1	0.08	55	0.14	0.01
N047635		<0.05	4.5	0.02	<0.05	<0.05	<0.02	0.09	<0.005	0.06	<0.2	0.2	0.01	20	0.09	0.01
N047636		0.09	9.5	0.19	0.23	<0.05	<0.02	0.07	<0.005	0.10	0.8	0.9	0.03	40	0.10	0.01
N047637		0.06	9.8	0.10	0.13	<0.05	<0.02	0.11	<0.005	0.11	0.4	0.5	0.03	32	0.17	0.01
N047638		<0.05	5.5	0.04	0.05	<0.05	<0.02	0.08	<0.005	0.14	<0.2	0.1	0.02	48	0.09	0.01
N047639		<0.05	5.3	0.03	<0.05	<0.05	<0.02	0.07	<0.005	0.06	<0.2	0.1	0.01	42	0.06	0.01
N047640		0.06	8.9	0.10	0.13	<0.05	<0.02	0.10	<0.005	0.10	0.6	0.5	0.02	34	0.09	0.01
N047641		<0.05	6.5	0.04	<0.05	<0.05	<0.02	0.13	<0.005	0.04	<0.2	0.1	0.01	15	0.08	0.01
N047642		<0.05	7.2	0.03	0.05	<0.05	<0.02	0.07	<0.005	0.04	<0.2	0.1	0.01	11	0.09	0.01
N047643		0.07	33.4	0.08	0.11	<0.05	<0.02	0.12	<0.005	0.12	0.2	0.3	0.04	90	0.17	0.01
N047644		<0.05	8.1	0.05	0.07	<0.05	<0.02	0.12	<0.005	0.12	0.2	0.2	0.02	74	0.11	0.01
N047645		<0.05	4.8	0.07	0.11	<0.05	<0.02	0.10	<0.005	0.16	0.4	0.4	0.03	70	0.13	0.01
N047646		<0.05	6.6	0.03	<0.05	<0.05	<0.02	0.10	<0.005	0.11	<0.2	0.1	0.01	43	0.05	0.01
N047647		<0.05	5.5	0.02	<0.05	<0.05	<0.02	0.12	<0.005	0.06	<0.2	0.1	0.01	40	0.05	0.01
N047648		0.70	23.7	1.53	3.32	<0.05	0.04	0.08	0.013	0.32	6.8	7.6	0.30	502	0.44	0.07
N047649		0.06	13.8	0.11	0.17	<0.05	<0.02	0.15	<0.005	0.15	0.5	0.4	0.03	201	0.17	0.01
N047650		0.05	15.8	0.11	0.16	<0.05	<0.02	0.15	<0.005	0.18	0.4	0.4	0.03	186	0.09	0.01
N047651		<0.05	6.4	0.05	0.05	<0.05	<0.02	0.09	<0.005	0.05	<0.2	0.1	0.01	20	0.17	0.01
N047652		0.10	29.1	0.13	0.17	<0.05	<0.02	0.11	<0.005	0.15	0.4	0.3	0.05	283	0.34	0.02
N047653		<0.05	9.8	0.04	0.06	<0.05	<0.02	0.17	<0.005	0.10	0.2	0.1	0.02	46	0.16	0.01
N047654		<0.05	11.4	0.03	<0.05	<0.05	<0.02	0.14	<0.005	0.05	<0.2	0.1	0.03	125	0.07	0.01
N047655		<0.05	6.0	0.02	<0.05	<0.05	<0.02	0.21	<0.005	0.10	<0.2	0.1	0.03	182	0.05	0.01
N047656		<0.05	8.2	0.02	<0.05	<0.05	<0.02	0.13	<0.005	0.16	<0.2	0.1	0.03	89	0.07	0.01
N047657		<0.05	15.8	0.04	0.05	<0.05	<0.02	0.09	<0.005	0.09	<0.2	0.2	0.02	46	0.10	0.01
N047658		0.08	7.3	0.21	0.38	<0.05	<0.02	0.05	<0.005	0.05	0.9	1.4	0.04	43	0.10	0.01
N047659		<0.05	4.5	0.02	<0.05	<0.05	<0.02	0.19	<0.005	0.18	<0.2	0.2	0.02	25	0.07	0.02
N047660		0.15	11.6	0.33	0.65	<0.05	<0.02	0.14	<0.005	0.10	1.7	3.3	0.08	105	0.14	0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
N047621		<0.05	0.8	120	0.6	0.9	<0.001	0.01	<0.05	<0.1	<0.2	<0.2	12.1	<0.01	<0.01	<0.2
N047622		<0.05	0.6	150	1.0	0.7	<0.001	0.02	<0.05	<0.1	<0.2	<0.2	11.4	<0.01	<0.01	<0.2
N047623		<0.05	0.8	180	1.1	1.5	<0.001	0.01	<0.05	0.1	<0.2	<0.2	20.2	<0.01	0.01	<0.2
N047624		<0.05	0.4	130	0.2	0.4	<0.001	0.01	0.08	<0.1	<0.2	<0.2	10.2	<0.01	0.01	<0.2
N047625		<0.05	0.9	120	0.3	0.5	<0.001	0.01	<0.05	<0.1	<0.2	<0.2	13.1	<0.01	0.01	<0.2
N047626		<0.05	0.8	130	0.6	0.9	<0.001	0.01	<0.05	<0.1	<0.2	<0.2	35.4	<0.01	0.01	<0.2
N047627		<0.05	1.1	150	0.5	1.8	0.001	0.01	<0.05	0.1	<0.2	<0.2	32.4	<0.01	0.01	<0.2
N047628		<0.05	0.5	140	0.5	0.5	<0.001	0.02	<0.05	<0.1	<0.2	<0.2	11.9	<0.01	0.01	<0.2
N047629		<0.05	0.6	120	0.5	0.4	<0.001	0.02	<0.05	<0.1	<0.2	<0.2	8.4	<0.01	0.01	<0.2
N047630		<0.05	0.7	450	0.2	4.0	<0.001	0.03	<0.05	<0.1	0.2	<0.2	209	<0.01	0.01	<0.2
N047631		<0.05	0.6	120	0.4	0.4	<0.001	0.02	<0.05	0.1	<0.2	<0.2	8.2	<0.01	0.01	<0.2
N047632		<0.05	0.6	300	0.7	9.2	<0.001	0.02	<0.05	<0.1	<0.2	<0.2	98.3	<0.01	0.01	<0.2
N047633		<0.05	0.4	70	0.3	0.9	<0.001	0.01	<0.05	<0.1	<0.2	<0.2	20.8	<0.01	0.01	<0.2
N047634		0.13	4.1	180	1.5	2.7	0.001	0.02	<0.05	0.5	0.2	<0.2	33.1	<0.01	0.01	0.5
N047635		<0.05	0.5	110	0.5	1.0	<0.001	0.01	<0.05	<0.1	<0.2	<0.2	14.4	<0.01	0.01	<0.2
N047636		<0.05	2.1	130	1.1	2.2	<0.001	0.01	<0.05	0.2	<0.2	<0.2	19.2	<0.01	0.01	0.2
N047637		<0.05	3.1	160	1.4	2.0	<0.001	0.02	<0.05	0.1	<0.2	<0.2	25.5	<0.01	0.01	<0.2
N047638		<0.05	0.7	120	0.8	1.8	0.001	0.01	<0.05	0.1	<0.2	<0.2	20.9	<0.01	0.01	<0.2
N047639		<0.05	0.6	80	0.5	0.6	<0.001	0.01	<0.05	<0.1	<0.2	<0.2	9.4	<0.01	0.01	<0.2
N047640		<0.05	1.3	130	1.3	1.9	<0.001	0.01	<0.05	0.1	<0.2	<0.2	19.9	<0.01	0.01	<0.2
N047641		<0.05	0.7	100	0.7	0.6	0.001	0.01	<0.05	0.1	<0.2	<0.2	13.3	<0.01	0.01	<0.2
N047642		<0.05	0.7	120	0.9	0.6	<0.001	0.01	<0.05	0.1	<0.2	<0.2	13.2	<0.01	<0.01	<0.2
N047643		<0.05	1.0	310	0.9	1.8	0.001	0.03	<0.05	0.1	<0.2	<0.2	30.9	<0.01	0.01	<0.2
N047644		<0.05	0.6	300	0.8	1.2	<0.001	0.02	<0.05	0.1	<0.2	<0.2	25.3	<0.01	<0.01	<0.2
N047645		<0.05	1.4	200	0.6	1.4	<0.001	0.01	<0.05	0.2	<0.2	<0.2	30.4	<0.01	<0.01	<0.2
N047646		<0.05	0.6	110	0.5	1.2	<0.001	0.01	<0.05	0.1	<0.2	<0.2	13.1	<0.01	0.01	<0.2
N047647		<0.05	0.4	100	0.3	0.6	<0.001	0.02	<0.05	<0.1	<0.2	<0.2	17.6	<0.01	0.01	<0.2
N047648		0.52	11.3	760	4.4	11.8	<0.001	0.02	0.17	3.6	<0.2	0.3	53.1	<0.01	<0.01	1.7
N047649		<0.05	1.4	190	1.0	1.2	<0.001	0.01	<0.05	0.2	<0.2	<0.2	32.3	<0.01	<0.01	<0.2
N047650		<0.05	1.3	190	1.1	1.1	<0.001	0.01	<0.05	0.2	<0.2	<0.2	21.9	<0.01	<0.01	<0.2
N047651		<0.05	1.4	100	0.7	0.7	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	7.7	<0.01	<0.01	<0.2
N047652		<0.05	2.0	410	2.5	2.6	<0.001	0.03	<0.05	0.2	<0.2	<0.2	53.9	<0.01	<0.01	<0.2
N047653		<0.05	0.8	210	1.0	1.2	<0.001	0.01	<0.05	0.1	<0.2	0.3	21.3	<0.01	<0.01	<0.2
N047654		<0.05	0.5	170	0.7	0.6	<0.001	0.01	<0.05	0.1	<0.2	<0.2	11.8	<0.01	<0.01	<0.2
N047655		<0.05	0.6	270	0.5	1.6	<0.001	0.02	<0.05	<0.1	<0.2	<0.2	15.4	<0.01	<0.01	<0.2
N047656		<0.05	0.4	120	0.5	2.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	12.0	<0.01	<0.01	<0.2
N047657		<0.05	0.7	140	0.5	1.3	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	20.1	<0.01	<0.01	<0.2
N047658		0.06	2.6	80	0.8	1.6	<0.001	<0.01	<0.05	0.3	<0.2	<0.2	8.4	<0.01	<0.01	0.2
N047659		<0.05	0.6	360	0.3	1.7	<0.001	0.02	<0.05	<0.1	<0.2	<0.2	16.4	<0.01	<0.01	<0.2
N047660		0.10	3.8	230	1.2	3.7	<0.001	<0.01	<0.05	0.4	<0.2	<0.2	23.1	<0.01	<0.01	0.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method / Analyte / Units / LOR	ME-MS41 Ti % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
N047621		<0.005	<0.02	<0.05	<1	<0.05	<0.05	12	<0.5
N047622		<0.005	<0.02	<0.05	<1	<0.05	0.06	6	<0.5
N047623		<0.005	<0.02	<0.05	1	<0.05	0.12	8	<0.5
N047624		<0.005	<0.02	<0.05	<1	<0.05	<0.05	2	<0.5
N047625		<0.005	<0.02	<0.05	<1	<0.05	<0.05	2	<0.5
N047626		<0.005	<0.02	<0.05	<1	<0.05	0.06	13	<0.5
N047627		<0.005	<0.02	<0.05	1	<0.05	0.08	20	<0.5
N047628		<0.005	<0.02	<0.05	<1	<0.05	<0.05	8	<0.5
N047629		<0.005	<0.02	<0.05	<1	<0.05	<0.05	4	<0.5
N047630		<0.005	<0.02	<0.05	<1	<0.05	0.05	92	<0.5
N047631		<0.005	<0.02	<0.05	1	<0.05	0.06	4	<0.5
N047632		<0.005	<0.02	<0.05	1	<0.05	0.05	115	<0.5
N047633		<0.005	<0.02	<0.05	<1	<0.05	0.06	10	<0.5
N047634		0.009	<0.02	0.11	6	<0.05	0.90	16	<0.5
N047635		<0.005	<0.02	<0.05	<1	<0.05	0.05	7	<0.5
N047636		<0.005	<0.02	<0.05	3	<0.05	0.26	12	<0.5
N047637		<0.005	<0.02	<0.05	2	<0.05	0.12	16	<0.5
N047638		<0.005	<0.02	<0.05	1	<0.05	0.07	9	<0.5
N047639		<0.005	<0.02	<0.05	1	<0.05	0.05	6	<0.5
N047640		<0.005	<0.02	<0.05	2	<0.05	0.17	8	<0.5
N047641		<0.005	<0.02	<0.05	1	<0.05	0.07	5	<0.5
N047642		<0.005	<0.02	<0.05	1	<0.05	0.07	4	<0.5
N047643		<0.005	<0.02	<0.05	2	<0.05	0.20	11	<0.5
N047644		<0.005	<0.02	<0.05	1	<0.05	0.08	11	<0.5
N047645		<0.005	<0.02	0.06	1	<0.05	0.37	8	<0.5
N047646		<0.005	<0.02	<0.05	1	<0.05	0.07	9	<0.5
N047647		<0.005	<0.02	<0.05	<1	<0.05	<0.05	14	<0.5
N047648		0.050	0.02	0.26	37	0.10	4.63	45	1.3
N047649		<0.005	<0.02	<0.05	2	<0.05	0.38	18	<0.5
N047650		<0.005	<0.02	<0.05	2	<0.05	0.25	18	<0.5
N047651		<0.005	<0.02	<0.05	1	<0.05	0.08	9	<0.5
N047652		<0.005	<0.02	<0.05	2	<0.05	0.31	27	<0.5
N047653		<0.005	<0.02	<0.05	1	<0.05	0.08	14	<0.5
N047654		<0.005	<0.02	<0.05	1	<0.05	0.07	18	<0.5
N047655		<0.005	<0.02	<0.05	<1	<0.05	<0.05	20	<0.5
N047656		<0.005	<0.02	<0.05	1	<0.05	0.06	12	<0.5
N047657		<0.005	<0.02	<0.05	1	<0.05	0.10	13	<0.5
N047658		0.007	<0.02	<0.05	4	<0.05	0.24	16	<0.5
N047659		<0.005	<0.02	<0.05	<1	<0.05	0.06	8	<0.5
N047660		0.009	<0.02	0.05	5	<0.05	0.39	25	<0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
N047661		0.06	0.0008	0.19	0.52	1.2	<0.2	<10	130	0.14	0.03	1.26	0.11	7.55	3.2	20
N047662		0.04	0.0003	0.08	0.02	0.2	<0.2	<10	20	<0.05	0.01	0.05	0.02	0.39	0.1	5
N047663		0.02	<0.0001	0.06	0.01	0.2	<0.2	<10	10	<0.05	0.01	0.22	0.04	0.14	0.1	11
N047664		0.06	0.0007	0.03	0.01	0.2	<0.2	<10	<10	<0.05	0.01	0.33	0.06	0.06	0.1	6
N047665		0.06	0.0010	0.07	0.02	0.2	<0.2	<10	30	<0.05	0.01	0.34	0.28	0.27	0.2	5
N047666		0.02	0.0007	0.14	0.02	0.3	<0.2	<10	10	<0.05	0.01	0.14	0.06	0.26	0.2	6
N047667		0.04	0.0003	0.20	0.02	0.2	<0.2	<10	20	<0.05	0.01	0.07	0.10	0.28	0.1	2
N047668		0.04	NSS	0.30	0.09	0.4	<0.2	<10	70	<0.05	0.02	0.31	0.19	0.88	0.7	13
N047669		0.04	0.0003	0.08	0.01	0.2	<0.2	<10	20	<0.05	0.01	0.07	0.07	0.22	0.1	3
N047670		0.04	0.0003	0.14	<0.01	0.3	<0.2	<10	10	<0.05	0.01	0.06	0.05	0.08	0.1	3
N047671		0.04	0.0008	0.04	0.02	0.3	<0.2	<10	40	<0.05	0.01	0.20	0.12	0.34	0.2	5
N047672		0.04	0.0009	0.07	0.02	0.4	<0.2	<10	40	<0.05	0.01	0.34	0.20	0.29	0.2	3
N047673		0.04	0.0002	0.03	0.01	0.2	<0.2	<10	20	<0.05	0.01	0.09	0.17	0.08	<0.1	3
N047674		0.08	0.0001	0.10	0.02	0.3	<0.2	<10	30	<0.05	0.01	0.21	0.09	0.27	0.2	2
N047675		0.06	0.0008	0.14	0.08	0.7	<0.2	<10	20	<0.05	0.02	0.16	0.06	2.01	0.5	8
N047676		0.04	0.0008	0.13	0.02	0.4	<0.2	<10	20	<0.05	0.01	0.17	0.08	0.28	0.1	7
N047677		0.04	0.0003	0.05	0.01	0.3	<0.2	<10	20	<0.05	0.01	0.20	0.03	0.15	0.1	3
N047678		0.06	0.0003	0.09	0.02	0.4	<0.2	<10	20	<0.05	0.01	0.18	0.06	0.32	0.2	4
N047679		0.06	0.0004	0.08	0.02	0.3	<0.2	<10	30	<0.05	0.01	0.22	0.04	0.20	0.1	3
N047680		0.06	0.0006	0.33	0.33	2.0	<0.2	<10	160	0.13	0.03	0.59	0.34	2.92	2.1	57
N047681		0.06	0.0003	0.11	0.13	0.5	<0.2	<10	160	<0.05	0.02	0.80	0.26	1.41	1.1	6
N047682		0.06	0.0006	0.15	0.02	0.5	<0.2	<10	30	<0.05	0.01	0.11	0.11	0.28	0.1	4
N047683		0.06	0.0004	0.08	0.02	0.2	<0.2	<10	40	<0.05	0.01	0.09	0.07	0.36	0.2	3
N047684		0.08	0.0001	0.23	0.01	0.3	<0.2	<10	20	<0.05	0.01	0.02	0.04	0.17	0.1	7
N047685		0.06	0.0005	0.07	0.01	0.3	<0.2	<10	30	<0.05	0.01	0.09	0.08	0.15	0.1	1
N047686		0.04	0.0004	0.21	0.02	0.1	<0.2	<10	30	<0.05	0.01	0.08	0.05	0.25	0.1	8
N047687		0.06	0.0003	0.11	0.03	0.3	<0.2	<10	30	<0.05	0.01	0.16	0.10	0.57	0.2	3
N047688		0.06	0.0004	0.21	0.10	0.3	<0.2	<10	40	<0.05	0.02	0.38	0.17	1.66	0.8	8
N047689		0.08	0.0004	0.15	0.03	0.2	<0.2	<10	90	<0.05	0.02	0.15	0.11	0.44	0.3	3
N047690		0.06	0.0006	0.17	0.03	0.4	<0.2	<10	200	<0.05	0.01	0.31	0.06	0.38	0.2	3
N047691		0.06	0.0002	0.33	0.03	0.5	<0.2	<10	70	<0.05	0.01	0.10	0.16	0.53	0.2	3
N047692		0.02	<0.0001	0.19	0.01	0.4	<0.2	<10	10	<0.05	0.01	0.15	0.02	0.18	0.1	3
N047693		0.04	0.0001	0.08	0.01	0.3	<0.2	<10	10	<0.05	0.01	0.17	0.03	0.11	0.1	2
N047694		0.06	0.0003	0.09	0.04	0.3	<0.2	<10	30	<0.05	0.01	0.09	0.07	0.68	0.2	4
N047695		0.08	0.0004	0.07	0.02	0.3	<0.2	<10	40	<0.05	0.01	0.11	0.08	0.24	0.1	1
N047696		0.04	<0.0001	0.06	0.01	0.3	<0.2	<10	20	<0.05	0.01	0.11	0.03	0.18	0.1	4
N047697		0.08	0.0003	0.10	0.03	0.4	<0.2	<10	20	<0.05	0.01	0.11	0.04	0.44	0.2	4
N047698		0.08	<0.0001	0.03	0.04	0.3	<0.2	<10	40	<0.05	0.01	0.40	0.05	0.39	0.3	4
N047699		0.08	0.0007	0.04	0.05	0.3	<0.2	<10	20	<0.05	0.02	0.43	0.44	0.56	0.5	3
N047700		0.10	0.0002	0.08	0.04	0.3	<0.2	<10	20	<0.05	0.01	0.27	0.14	0.46	0.3	3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
N047661		0.38	16.5	0.73	1.51	<0.05	<0.02	0.05	0.008	0.39	3.6	4.7	0.23	307	0.39	0.04
N047662		<0.05	5.8	0.04	0.05	<0.05	<0.02	0.10	<0.005	0.07	0.2	0.2	0.01	16	<0.05	0.01
N047663		<0.05	5.6	0.03	<0.05	<0.05	<0.02	0.13	<0.005	0.09	<0.2	0.1	0.02	23	0.09	0.01
N047664		<0.05	3.9	0.01	<0.05	<0.05	<0.02	0.10	<0.005	0.22	<0.2	0.1	0.03	19	0.09	0.01
N047665		0.05	17.8	0.04	0.05	<0.05	<0.02	0.09	<0.005	0.17	0.2	0.2	0.03	89	0.17	0.02
N047666		<0.05	11.0	0.04	0.06	<0.05	<0.02	0.15	<0.005	0.07	<0.2	0.1	0.02	38	0.12	0.01
N047667		<0.05	6.1	0.03	0.05	<0.05	<0.02	0.11	<0.005	0.05	<0.2	0.2	0.01	36	0.08	0.01
N047668		0.18	21.7	0.15	0.28	<0.05	<0.02	0.15	<0.005	0.07	0.4	0.7	0.06	346	0.24	0.02
N047669		<0.05	9.4	0.03	0.05	<0.05	<0.02	0.08	<0.005	0.02	<0.2	0.1	0.01	28	0.09	0.01
N047670		<0.05	4.1	0.01	<0.05	<0.05	<0.02	0.14	<0.005	0.06	<0.2	0.1	0.01	16	<0.05	0.01
N047671		<0.05	18.5	0.05	0.07	<0.05	<0.02	0.13	<0.005	0.10	0.2	0.2	0.03	108	0.17	0.02
N047672		<0.05	11.7	0.03	0.05	<0.05	<0.02	0.13	<0.005	0.16	<0.2	0.2	0.02	129	0.09	0.01
N047673		<0.05	5.7	0.01	<0.05	<0.05	<0.02	0.10	<0.005	0.09	<0.2	0.1	0.01	34	0.05	0.01
N047674		<0.05	8.2	0.04	0.07	<0.05	<0.02	0.18	<0.005	0.09	<0.2	0.2	0.03	106	0.09	0.01
N047675		0.09	11.1	0.16	0.26	<0.05	<0.02	0.18	<0.005	0.08	1.0	1.4	0.04	49	0.13	0.02
N047676		<0.05	10.9	0.04	0.05	<0.05	<0.02	0.13	<0.005	0.08	0.2	0.2	0.01	46	0.12	0.02
N047677		<0.05	3.9	0.02	<0.05	<0.05	<0.02	0.18	<0.005	0.16	<0.2	0.1	0.02	43	0.07	0.01
N047678		<0.05	11.6	0.04	0.06	<0.05	<0.02	0.10	<0.005	0.15	0.2	0.2	0.02	57	0.13	0.02
N047679		<0.05	8.5	0.03	<0.05	<0.05	<0.02	0.06	<0.005	0.07	<0.2	0.1	0.02	77	0.10	0.02
N047680		0.21	7.6	0.73	1.34	<0.05	0.06	0.11	0.005	0.07	1.3	1.7	0.18	118	0.29	0.02
N047681		0.08	15.5	0.16	0.32	<0.05	<0.02	0.07	<0.005	0.14	0.7	1.1	0.08	670	0.29	0.02
N047682		<0.05	8.1	0.03	0.05	<0.05	<0.02	0.08	<0.005	0.05	<0.2	0.1	0.01	34	0.13	0.02
N047683		<0.05	10.5	0.04	0.07	<0.05	<0.02	0.10	<0.005	0.04	0.2	0.1	0.01	34	0.10	0.01
N047684		<0.05	3.3	0.02	<0.05	<0.05	<0.02	0.08	<0.005	0.02	<0.2	0.1	<0.01	17	0.11	0.01
N047685		<0.05	6.9	0.02	<0.05	<0.05	<0.02	0.07	<0.005	0.20	<0.2	0.1	0.02	110	0.08	0.01
N047686		<0.05	8.2	0.03	<0.05	<0.05	<0.02	0.07	<0.005	0.06	<0.2	0.1	0.01	24	0.08	0.02
N047687		<0.05	15.7	0.06	0.08	<0.05	<0.02	0.07	<0.005	0.10	0.3	0.2	0.02	87	0.15	0.02
N047688		0.08	10.4	0.15	0.25	<0.05	<0.02	0.10	<0.005	0.08	0.8	1.1	0.04	72	0.11	0.01
N047689		0.06	18.0	0.05	0.08	<0.05	<0.02	0.09	<0.005	0.07	0.2	0.2	0.03	91	0.14	0.02
N047690		0.05	21.8	0.05	0.07	<0.05	<0.02	0.15	<0.005	0.08	0.2	0.2	0.04	98	0.17	0.02
N047691		<0.05	17.2	0.05	0.07	<0.05	<0.02	0.18	<0.005	0.10	0.3	0.2	0.02	50	0.07	0.01
N047692		<0.05	8.0	0.02	<0.05	<0.05	<0.02	0.14	<0.005	0.07	<0.2	0.1	0.02	23	0.09	0.01
N047693		<0.05	3.3	0.01	<0.05	<0.05	<0.02	0.12	<0.005	0.15	<0.2	0.1	0.02	14	0.09	0.01
N047694		0.05	6.6	0.06	0.09	<0.05	<0.02	0.18	<0.005	0.11	0.3	0.4	0.02	73	0.05	0.01
N047695		<0.05	7.3	0.03	0.05	<0.05	<0.02	0.08	<0.005	0.08	<0.2	0.1	0.01	41	0.07	0.02
N047696		<0.05	5.3	0.02	<0.05	<0.05	<0.02	0.16	<0.005	0.06	<0.2	0.1	0.01	20	0.05	0.02
N047697		0.05	10.6	0.06	0.08	<0.05	<0.02	0.05	<0.005	0.07	0.2	0.2	0.02	52	0.13	0.02
N047698		<0.05	15.0	0.06	0.09	<0.05	<0.02	0.06	<0.005	0.24	0.2	0.3	0.04	123	0.16	0.01
N047699		0.07	35.1	0.10	0.15	<0.05	<0.02	0.06	<0.005	0.13	0.3	0.4	0.04	88	0.30	0.02
N047700		0.05	20.7	0.07	0.11	<0.05	<0.02	0.07	<0.005	0.19	0.2	0.3	0.04	51	0.21	0.02

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
N047661		0.22	7.7	640	2.0	8.9	<0.001	0.01	0.08	0.4	<0.2	0.2	68.6	<0.01	<0.01	<0.2
N047662		<0.05	0.5	70	0.2	1.0	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	7.8	<0.01	<0.01	<0.2
N047663		<0.05	0.7	130	0.4	0.8	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	13.3	<0.01	<0.01	<0.2
N047664		<0.05	0.7	110	<0.2	1.9	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	21.7	<0.01	<0.01	<0.2
N047665		<0.05	0.8	250	0.7	2.2	<0.001	0.02	<0.05	0.1	<0.2	<0.2	30.5	<0.01	<0.01	<0.2
N047666		<0.05	0.7	200	0.8	1.1	<0.001	0.01	<0.05	0.1	<0.2	<0.2	10.9	<0.01	<0.01	<0.2
N047667		<0.05	0.5	100	0.9	0.6	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	6.0	<0.01	<0.01	<0.2
N047668		0.05	2.2	370	2.1	2.1	<0.001	0.03	<0.05	0.2	<0.2	<0.2	18.8	<0.01	<0.01	<0.2
N047669		<0.05	0.4	90	0.8	0.3	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	6.6	<0.01	0.01	<0.2
N047670		<0.05	0.4	60	0.3	0.7	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	9.9	<0.01	<0.01	<0.2
N047671		<0.05	0.9	230	0.9	1.0	<0.001	0.01	<0.05	0.1	<0.2	<0.2	15.2	<0.01	<0.01	<0.2
N047672		<0.05	0.6	260	0.9	1.7	<0.001	0.01	<0.05	0.1	<0.2	<0.2	23.7	<0.01	<0.01	<0.2
N047673		<0.05	0.3	120	0.3	1.5	<0.001	0.01	<0.05	<0.1	<0.2	<0.2	10.3	<0.01	<0.01	<0.2
N047674		<0.05	0.5	170	0.7	1.1	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	16.5	<0.01	<0.01	<0.2
N047675		0.05	1.6	250	1.4	1.8	<0.001	0.01	<0.05	0.2	<0.2	<0.2	19.5	<0.01	<0.01	0.3
N047676		<0.05	0.8	170	1.4	0.7	0.001	0.01	0.05	0.1	<0.2	<0.2	21.0	<0.01	<0.01	<0.2
N047677		<0.05	0.4	170	0.4	0.8	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	21.5	<0.01	<0.01	<0.2
N047678		<0.05	0.6	200	1.3	1.4	0.001	0.01	<0.05	0.1	<0.2	<0.2	19.5	<0.01	<0.01	<0.2
N047679		<0.05	0.5	150	0.5	0.6	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	20.7	<0.01	<0.01	<0.2
N047680		0.37	9.5	400	2.2	2.4	<0.001	0.02	0.08	0.9	<0.2	<0.2	49.8	<0.01	<0.01	0.3
N047681		0.05	4.3	220	3.5	1.4	<0.001	0.01	<0.05	0.3	<0.2	<0.2	47.5	<0.01	<0.01	0.2
N047682		<0.05	1.4	120	1.3	0.9	<0.001	0.01	<0.05	0.1	<0.2	<0.2	11.4	<0.01	<0.01	<0.2
N047683		<0.05	1.0	100	1.3	0.7	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	9.4	<0.01	<0.01	<0.2
N047684		<0.05	0.8	50	0.4	0.3	<0.001	0.01	<0.05	0.1	<0.2	<0.2	3.4	<0.01	<0.01	<0.2
N047685		<0.05	0.5	240	0.4	1.5	<0.001	0.01	<0.05	0.1	<0.2	<0.2	15.9	<0.01	<0.01	<0.2
N047686		<0.05	0.6	130	0.8	0.6	<0.001	0.01	<0.05	0.1	<0.2	<0.2	7.3	<0.01	<0.01	<0.2
N047687		<0.05	1.2	130	1.2	1.8	<0.001	0.01	<0.05	0.1	<0.2	<0.2	16.7	<0.01	<0.01	<0.2
N047688		0.05	1.6	130	1.1	2.3	<0.001	0.01	<0.05	0.2	<0.2	<0.2	21.5	<0.01	<0.01	0.2
N047689		<0.05	1.2	200	1.3	1.2	<0.001	0.01	<0.05	0.1	<0.2	<0.2	7.5	<0.01	<0.01	<0.2
N047690		<0.05	0.7	260	1.1	1.2	<0.001	0.03	<0.05	0.1	<0.2	<0.2	20.7	<0.01	<0.01	<0.2
N047691		<0.05	0.9	240	1.1	1.2	<0.001	0.02	<0.05	0.1	<0.2	<0.2	15.0	<0.01	<0.01	<0.2
N047692		<0.05	0.4	200	0.6	0.5	<0.001	0.02	<0.05	<0.1	<0.2	<0.2	14.3	<0.01	<0.01	<0.2
N047693		<0.05	0.7	350	0.3	1.0	<0.001	0.02	<0.05	<0.1	<0.2	<0.2	11.7	<0.01	<0.01	<0.2
N047694		<0.05	0.8	160	0.8	1.7	<0.001	0.01	<0.05	0.1	<0.2	<0.2	10.5	<0.01	0.01	<0.2
N047695		<0.05	0.4	130	0.5	1.2	<0.001	0.01	<0.05	0.1	<0.2	<0.2	12.5	<0.01	<0.01	<0.2
N047696		<0.05	0.4	120	0.5	0.6	<0.001	0.01	<0.05	<0.1	<0.2	<0.2	11.2	<0.01	<0.01	<0.2
N047697		<0.05	0.7	230	0.9	1.4	<0.001	0.02	<0.05	0.1	<0.2	<0.2	7.6	<0.01	<0.01	<0.2
N047698		<0.05	1.1	360	0.4	1.7	<0.001	0.03	<0.05	0.1	<0.2	<0.2	29.3	<0.01	<0.01	<0.2
N047699		<0.05	1.4	250	1.1	2.0	<0.001	0.04	<0.05	0.1	<0.2	<0.2	27.3	<0.01	0.01	<0.2
N047700		<0.05	1.3	310	0.9	2.4	<0.001	0.03	0.06	0.1	<0.2	<0.2	19.3	<0.01	<0.01	<0.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
N047661		0.015	0.02	0.13	15	0.06	1.80	36	<0.5
N047662		<0.005	<0.02	<0.05	1	<0.05	0.06	8	<0.5
N047663		<0.005	<0.02	<0.05	<1	<0.05	<0.05	10	<0.5
N047664		<0.005	<0.02	<0.05	<1	<0.05	<0.05	10	<0.5
N047665		<0.005	<0.02	<0.05	1	<0.05	0.11	34	<0.5
N047666		<0.005	<0.02	<0.05	1	<0.05	0.09	11	<0.5
N047667		<0.005	<0.02	<0.05	1	<0.05	0.07	13	<0.5
N047668		0.006	<0.02	<0.05	4	<0.05	0.24	30	<0.5
N047669		<0.005	<0.02	<0.05	1	<0.05	0.08	9	<0.5
N047670		<0.005	<0.02	<0.05	<1	<0.05	<0.05	7	<0.5
N047671		<0.005	<0.02	<0.05	1	<0.05	0.13	26	<0.5
N047672		<0.005	<0.02	<0.05	1	<0.05	0.09	26	<0.5
N047673		<0.005	<0.02	<0.05	<1	<0.05	<0.05	10	<0.5
N047674		<0.005	<0.02	<0.05	1	<0.05	0.08	15	<0.5
N047675		0.005	<0.02	<0.05	3	<0.05	0.23	14	<0.5
N047676		<0.005	<0.02	<0.05	1	<0.05	0.09	13	<0.5
N047677		<0.005	<0.02	<0.05	<1	<0.05	0.05	12	<0.5
N047678		<0.005	<0.02	<0.05	1	<0.05	0.10	13	<0.5
N047679		<0.005	<0.02	<0.05	1	<0.05	0.07	13	<0.5
N047680		0.053	<0.02	0.14	26	0.10	1.22	31	2.0
N047681		0.006	<0.02	<0.05	3	<0.05	0.26	42	<0.5
N047682		<0.005	<0.02	<0.05	1	<0.05	0.07	12	<0.5
N047683		<0.005	<0.02	<0.05	1	<0.05	0.09	9	<0.5
N047684		<0.005	<0.02	<0.05	<1	<0.05	<0.05	5	<0.5
N047685		<0.005	<0.02	<0.05	1	<0.05	0.05	8	<0.5
N047686		<0.005	<0.02	<0.05	1	<0.05	0.06	6	<0.5
N047687		<0.005	<0.02	<0.05	1	<0.05	0.14	11	<0.5
N047688		<0.005	<0.02	<0.05	3	<0.05	0.22	22	<0.5
N047689		<0.005	<0.02	<0.05	1	<0.05	0.12	16	<0.5
N047690		<0.005	<0.02	<0.05	2	<0.05	0.15	47	<0.5
N047691		<0.005	<0.02	<0.05	1	<0.05	0.13	14	<0.5
N047692		<0.005	<0.02	<0.05	1	<0.05	0.06	6	<0.5
N047693		<0.005	<0.02	<0.05	<1	<0.05	<0.05	5	<0.5
N047694		<0.005	<0.02	<0.05	1	<0.05	0.10	16	<0.5
N047695		<0.005	<0.02	<0.05	1	<0.05	0.06	8	<0.5
N047696		<0.005	<0.02	<0.05	<1	<0.05	0.05	5	<0.5
N047697		<0.005	<0.02	<0.05	1	<0.05	0.10	9	<0.5
N047698		<0.005	<0.02	<0.05	2	<0.05	0.13	24	<0.5
N047699		<0.005	<0.02	<0.05	3	<0.05	0.22	41	<0.5
N047700		<0.005	<0.02	<0.05	2	<0.05	0.15	18	<0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
N047701		0.06	0.0002	0.16	0.05	0.4	<0.2	<10	30	<0.05	0.01	0.12	0.14	0.71	0.3	4
N047702		0.04	0.0001	1.48	0.01	0.4	<0.2	<10	60	<0.05	0.01	0.25	0.30	0.12	0.1	4
N047703		0.02	<0.0001	0.33	0.13	0.6	<0.2	<10	120	<0.05	0.02	0.16	0.12	1.83	0.7	9
N047704		0.04	0.0001	0.22	0.06	0.3	<0.2	<10	30	<0.05	0.02	0.17	0.09	1.17	0.3	6
N047705		0.06	<0.0001	0.24	0.02	0.5	<0.2	<10	30	<0.05	0.02	0.08	0.04	0.30	0.1	2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
N047701		0.07	18.6	0.10	0.17	<0.05	<0.02	0.12	<0.005	0.18	0.4	0.4	0.03	56	0.12	0.02
N047702		<0.05	11.5	0.02	<0.05	<0.05	<0.02	0.17	<0.005	0.09	<0.2	0.1	0.01	91	0.06	0.02
N047703		0.16	8.7	0.19	0.41	<0.05	<0.02	0.18	<0.005	0.10	0.9	1.6	0.07	135	0.08	0.01
N047704		0.06	10.4	0.11	0.17	<0.05	<0.02	0.10	<0.005	0.11	0.6	0.5	0.04	43	0.10	0.02
N047705		<0.05	15.3	0.04	0.06	<0.05	<0.02	0.19	<0.005	0.06	0.2	0.1	0.02	51	0.13	0.02

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
N047701		<0.05	1.1	350	1.0	2.8	<0.001	0.02	<0.05	0.2	<0.2	<0.2	18.1	<0.01	<0.01	<0.2
N047702		<0.05	1.4	210	0.5	0.7	<0.001	0.03	<0.05	<0.1	<0.2	<0.2	28.6	<0.01	<0.01	<0.2
N047703		0.08	2.9	290	1.7	4.1	<0.001	0.03	<0.05	0.3	<0.2	<0.2	13.8	<0.01	0.01	<0.2
N047704		<0.05	1.4	140	1.3	1.7	<0.001	0.02	<0.05	0.2	<0.2	<0.2	20.4	<0.01	<0.01	<0.2
N047705		<0.05	0.5	270	1.4	0.7	<0.001	0.03	<0.05	0.1	<0.2	<0.2	12.5	<0.01	<0.01	<0.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
N047701		<0.005	<0.02	<0.05	3	<0.05	0.14	17	<0.5
N047702		<0.005	<0.02	<0.05	<1	<0.05	<0.05	30	<0.5
N047703		0.008	<0.02	<0.05	4	<0.05	0.25	22	<0.5
N047704		<0.005	<0.02	<0.05	2	<0.05	0.19	17	<0.5
N047705		<0.005	<0.02	<0.05	1	<0.05	0.09	17	<0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12126614

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.
ME-MS41	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 19-JUN-2012
Account: GOFICA

CERTIFICATE VA12131458

Project: RedGold

P.O. No.: RG-2012-002ch

This report is for 70 Soil samples submitted to our lab in Vancouver, BC, Canada on 11-JUN-2012.

The following have access to data associated with this certificate:

ELEANOR BLACK	JACQUELINE BLACKWELL	NATE BREWER
AMELIA RAINBOW	ROSS SHERLOCK	TWILA SKINNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-51	Screening
SCR-01	Screen - Save plus fraction
PUL-31	Pulverize split to 85% <75 um
DRY-22	Drying - Maximum Temp 60C

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ST43	Super Trace Au - 25g AR	ICP-MS
ME-MS41	51 anal. aqua regia ICPMS	

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: ELEANOR BLACK
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 19-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131458

Sample Description	Method	WEI-21	Au-ST43	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
N047706		0.04	0.0002	0.14	0.04	0.2	<0.2	30	20	<0.05	<0.01	0.11	0.14	0.47	0.3	2
N047707		0.06	<0.0001	0.04	0.01	0.1	<0.2	10	10	<0.05	<0.01	0.25	0.17	0.08	0.1	1
N047708		0.04	NSS	0.33	0.03	0.1	<0.2	<10	40	<0.05	0.01	0.25	0.23	0.55	0.3	2
N047709		0.04	0.0001	0.13	0.15	1.7	<0.2	<10	20	<0.05	0.01	0.35	0.21	1.16	1.9	11
N047710		0.06	NSS	0.06	0.01	<0.1	<0.2	<10	30	<0.05	<0.01	0.17	0.32	0.23	0.2	1
N047711		0.04	0.0004	0.02	0.03	0.3	<0.2	<10	50	<0.05	<0.01	0.51	0.35	0.22	0.2	1
N047712		0.04	NSS	0.44	0.18	2.1	<0.2	<10	320	0.08	0.03	4.07	2.24	1.87	1.9	5
N047713		0.04	0.0003	0.22	0.27	2.7	<0.2	<10	330	0.12	0.03	2.04	1.66	2.24	3.0	3
N047714		0.06	0.0003	0.17	0.15	2.4	<0.2	<10	250	0.06	0.02	1.99	1.25	1.39	1.6	4
N047715		0.04	<0.0001	0.16	0.02	0.4	<0.2	<10	50	<0.05	0.01	0.74	0.25	0.24	0.2	<1
N047716		0.04	NSS	0.56	0.60	2.5	<0.2	<10	140	0.47	0.09	1.09	1.47	10.70	7.3	12
N047717		0.06	NSS	0.51	0.02	0.3	<0.2	<10	10	<0.05	0.01	0.22	0.17	0.26	0.2	1
N047718		0.04	NSS	0.14	0.04	<0.1	<0.2	<10	20	<0.05	0.01	0.52	0.12	0.54	0.4	1
N047719		0.04	NSS	0.05	0.02	0.1	<0.2	<10	10	<0.05	0.01	0.23	0.15	0.41	0.2	1
N047720		0.02	NSS	0.38	0.02	0.1	<0.2	<10	20	<0.05	0.01	0.42	0.18	0.37	0.3	1
N047721		0.04	<0.0001	0.16	0.07	1.2	<0.2	<10	10	<0.05	0.02	0.21	0.10	1.29	0.5	2
N047722		0.06	<0.0001	0.32	0.02	0.7	<0.2	10	20	<0.05	0.01	0.21	0.14	0.30	0.2	1
N047723		0.04	NSS	0.09	0.03	0.4	<0.2	<10	20	<0.05	0.02	0.18	0.07	0.44	0.2	1
N047724		0.04	<0.0001	0.10	0.01	0.1	<0.2	<10	30	<0.05	0.01	0.47	0.05	0.08	0.1	<1
N047725		0.04	NSS	0.15	0.02	0.3	<0.2	<10	40	<0.05	0.01	0.46	0.10	0.24	0.2	1
N047726		0.04	NSS	0.22	0.01	0.2	<0.2	<10	30	<0.05	0.01	0.20	0.22	0.24	0.1	1
N047727		0.08	NSS	0.12	0.05	0.3	<0.2	<10	20	<0.05	0.02	0.25	0.07	0.79	0.5	1
N047728		0.06	NSS	0.05	0.02	0.4	<0.2	<10	10	<0.05	0.02	0.40	0.05	0.33	0.2	<1
N047729		0.08	NSS	0.02	0.01	0.2	<0.2	<10	<10	<0.05	0.01	0.45	0.03	0.13	0.1	1
N047730		0.06	NSS	0.23	0.03	0.3	<0.2	<10	10	<0.05	0.01	0.21	0.08	0.34	0.2	1
N047731		0.08	NSS	0.05	0.02	0.4	<0.2	<10	10	<0.05	0.01	0.12	0.09	0.30	0.1	1
N047732		0.06	NSS	0.14	0.15	1.0	<0.2	<10	80	<0.05	0.03	1.07	0.26	1.38	1.4	5
N047733		0.04	NSS	0.11	0.02	0.3	<0.2	<10	10	<0.05	0.01	0.08	0.06	0.23	0.1	1
N047734		0.04	NSS	0.11	0.06	1.0	<0.2	<10	20	<0.05	0.01	0.32	0.12	0.49	0.4	1
N047735		0.04	<0.0001	0.20	0.01	0.1	<0.2	<10	40	<0.05	0.01	0.27	0.04	0.11	0.1	1
N047736		0.04	NSS	0.17	0.29	1.2	<0.2	<10	300	0.11	0.07	2.85	0.45	1.95	2.3	5
N047737		0.06	0.0008	0.11	0.50	1.9	<0.2	<10	320	0.14	0.03	0.80	0.47	3.51	3.6	5
N047738		0.04	NSS	0.19	0.02	0.5	<0.2	<10	30	<0.05	0.01	0.13	0.08	0.23	0.1	1
N047739		0.08	<0.0001	0.06	0.03	0.1	<0.2	<10	10	<0.05	0.02	0.06	0.05	0.35	0.3	1
N047740		0.04	0.0005	0.35	0.03	0.3	<0.2	<10	30	<0.05	0.01	0.27	0.11	0.42	0.3	1
N047741		0.04	<0.0001	0.14	0.02	0.4	<0.2	<10	20	<0.05	0.01	0.24	0.09	0.32	0.2	1
N047742		0.06	<0.0001	0.29	0.01	<0.1	<0.2	<10	20	<0.05	0.01	0.09	0.09	0.15	0.1	<1
N047743		0.02	<0.0001	0.11	0.01	0.2	<0.2	<10	10	<0.05	0.01	0.26	0.06	0.15	0.1	2
N047744		0.06	0.0003	0.12	0.02	0.4	<0.2	<10	10	<0.05	0.02	0.20	0.09	0.34	0.2	1
N047745		0.04	0.0002	0.33	0.17	1.1	<0.2	10	10	0.06	0.01	0.18	0.14	2.16	1.4	6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 19-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131458

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
N047706		<0.05	10.5	0.10	0.11	<0.05	<0.02	0.13	<0.005	0.10	0.2	0.2	0.02	33	0.06	<0.01
N047707		<0.05	5.1	0.02	<0.05	<0.05	<0.02	0.13	<0.005	0.26	<0.2	0.1	0.04	58	<0.05	<0.01
N047708		<0.05	15.4	0.12	0.09	<0.05	<0.02	0.25	<0.005	0.14	0.3	0.2	0.05	77	0.12	0.01
N047709		0.08	13.1	0.26	0.40	<0.05	<0.02	0.16	<0.005	0.20	0.6	1.5	0.23	109	0.11	0.01
N047710		<0.05	12.0	0.08	0.06	<0.05	<0.02	0.13	<0.005	0.10	<0.2	0.1	0.03	93	0.10	0.01
N047711		<0.05	14.6	0.04	0.06	<0.05	<0.02	0.06	<0.005	0.09	<0.2	0.1	0.02	77	0.06	0.01
N047712		0.14	45.4	0.24	0.58	<0.05	0.02	0.20	0.005	0.05	2.3	1.5	0.14	1590	1.20	0.01
N047713		0.13	18.8	0.32	0.78	<0.05	<0.02	0.21	0.005	0.07	1.2	0.5	0.08	2750	0.45	0.01
N047714		0.10	11.0	0.24	0.50	<0.05	<0.02	0.11	<0.005	0.14	0.8	0.7	0.07	980	0.48	0.01
N047715		0.08	7.7	0.03	0.08	<0.05	<0.02	0.28	<0.005	0.26	<0.2	0.1	0.06	371	0.10	0.01
N047716		0.38	41.2	0.87	1.99	<0.05	<0.02	0.21	0.010	0.10	7.1	3.8	0.14	523	0.52	0.02
N047717		<0.05	13.7	0.04	0.07	<0.05	<0.02	0.13	<0.005	0.16	<0.2	0.1	0.02	36	0.17	0.01
N047718		0.06	25.3	0.07	0.14	<0.05	<0.02	0.07	<0.005	0.21	0.3	0.3	0.05	110	0.13	0.01
N047719		0.06	15.4	0.05	0.09	<0.05	<0.02	0.08	<0.005	0.08	0.2	0.2	0.02	35	0.16	0.01
N047720		<0.05	16.6	0.04	0.08	<0.05	<0.02	0.11	<0.005	0.23	0.2	0.2	0.04	55	0.20	0.01
N047721		0.09	20.9	0.14	0.17	<0.05	<0.02	0.10	<0.005	0.15	0.6	0.5	0.03	40	0.17	0.01
N047722		<0.05	7.3	0.03	<0.05	<0.05	<0.02	0.14	<0.005	0.24	<0.2	0.2	0.03	70	0.05	0.01
N047723		0.05	13.7	0.06	0.07	<0.05	<0.02	0.08	<0.005	0.09	0.2	0.1	0.02	53	0.16	0.01
N047724		0.07	7.3	0.01	<0.05	<0.05	<0.02	0.18	<0.005	0.29	<0.2	0.1	0.04	151	<0.05	0.01
N047725		0.06	9.4	0.04	0.05	<0.05	<0.02	0.11	<0.005	0.23	<0.2	0.2	0.03	150	0.06	0.01
N047726		<0.05	8.3	0.04	<0.05	<0.05	<0.02	0.14	<0.005	0.14	<0.2	0.1	0.01	46	0.05	0.01
N047727		0.06	17.8	0.11	0.15	<0.05	<0.02	0.06	<0.005	0.08	0.4	0.4	0.03	59	0.13	0.01
N047728		<0.05	15.6	0.04	0.07	<0.05	<0.02	0.17	<0.005	0.11	0.2	0.1	0.03	36	0.17	0.02
N047729		<0.05	10.7	0.02	<0.05	<0.05	<0.02	0.10	<0.005	0.08	<0.2	0.1	0.03	23	0.10	0.01
N047730		0.05	18.4	0.06	0.08	<0.05	<0.02	0.11	<0.005	0.09	0.2	0.2	0.03	42	0.16	0.02
N047731		<0.05	15.8	0.05	0.07	<0.05	<0.02	0.08	<0.005	0.07	0.2	0.1	0.01	47	0.11	0.01
N047732		0.11	17.8	0.27	0.49	<0.05	<0.02	0.09	<0.005	0.09	0.7	1.0	0.07	560	0.24	0.02
N047733		0.05	7.5	0.09	0.08	<0.05	<0.02	0.11	<0.005	0.09	<0.2	0.1	0.01	40	0.11	0.01
N047734		0.06	20.0	0.10	0.17	<0.05	<0.02	0.09	<0.005	0.14	0.3	0.3	0.03	71	0.18	0.01
N047735		<0.05	8.4	0.05	<0.05	<0.05	<0.02	0.10	<0.005	0.48	<0.2	0.1	0.03	126	0.07	<0.01
N047736		0.24	20.9	0.36	0.81	<0.05	<0.02	0.24	0.007	0.08	1.4	1.7	0.10	2720	1.18	0.02
N047737		0.13	31.9	1.30	1.95	<0.05	<0.02	0.06	<0.005	0.19	1.8	0.7	0.11	154	0.19	0.02
N047738		<0.05	11.1	0.04	0.06	<0.05	<0.02	0.16	<0.005	0.08	<0.2	0.1	0.02	94	0.09	0.01
N047739		<0.05	16.0	0.07	0.11	<0.05	<0.02	0.08	<0.005	0.03	0.2	0.2	0.01	26	0.07	0.01
N047740		<0.05	17.4	0.06	0.08	<0.05	<0.02	0.15	<0.005	0.23	0.2	0.3	0.04	112	0.14	0.01
N047741		<0.05	14.0	0.04	0.06	<0.05	<0.02	0.21	<0.005	0.17	0.2	0.1	0.03	34	0.18	0.01
N047742		<0.05	11.6	0.03	<0.05	<0.05	<0.02	0.16	<0.005	0.10	<0.2	0.1	0.01	47	0.05	0.01
N047743		<0.05	9.2	0.03	<0.05	<0.05	<0.02	0.35	<0.005	0.19	<0.2	0.1	0.02	25	0.14	<0.01
N047744		0.05	17.8	0.05	0.07	<0.05	<0.02	0.09	<0.005	0.09	0.2	0.1	0.02	19	0.16	0.02
N047745		0.15	23.1	0.27	0.38	<0.05	<0.02	0.16	<0.005	0.19	0.9	2.5	0.09	71	0.08	0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 19-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131458

Sample Description	Method / Analyte / Units / LOR	ME-MS41 Nb ppm 0.05	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2
N047706		<0.05	1.0	100	0.9	1.3	<0.001	0.01	<0.05	0.3	<0.2	<0.2	15.7	<0.01	<0.01	<0.2
N047707		<0.05	0.8	120	0.5	1.4	<0.001	0.01	<0.05	0.1	<0.2	<0.2	14.2	<0.01	<0.01	<0.2
N047708		<0.05	1.4	360	2.6	1.0	<0.001	0.04	<0.05	0.2	<0.2	<0.2	11.7	<0.01	<0.01	<0.2
N047709		0.08	14.7	650	0.9	2.3	<0.001	0.04	<0.05	0.5	<0.2	<0.2	19.7	<0.01	<0.01	0.2
N047710		<0.05	1.2	140	0.8	0.9	<0.001	0.01	<0.05	0.2	<0.2	<0.2	11.8	<0.01	<0.01	<0.2
N047711		<0.05	1.1	200	0.8	0.8	<0.001	0.01	<0.05	0.2	<0.2	<0.2	26.8	<0.01	<0.01	<0.2
N047712		0.07	6.2	490	3.2	1.3	<0.001	0.05	0.08	0.7	0.6	<0.2	196.0	<0.01	0.01	<0.2
N047713		0.07	4.3	420	3.0	2.3	<0.001	0.04	0.07	0.9	0.6	<0.2	108.5	<0.01	0.01	<0.2
N047714		0.08	4.1	350	2.0	2.0	<0.001	0.04	<0.05	0.5	0.4	<0.2	140.0	<0.01	0.01	<0.2
N047715		<0.05	0.9	360	1.3	4.3	0.001	0.06	<0.05	0.2	0.2	<0.2	53.3	<0.01	<0.01	<0.2
N047716		0.29	13.0	730	11.9	5.1	<0.001	0.07	0.11	1.2	0.7	0.2	76.4	<0.01	0.01	<0.2
N047717		<0.05	1.0	250	1.2	1.5	<0.001	0.02	0.05	0.2	<0.2	<0.2	18.2	<0.01	<0.01	<0.2
N047718		<0.05	0.8	290	1.6	3.1	<0.001	0.02	<0.05	0.3	<0.2	<0.2	28.5	<0.01	<0.01	<0.2
N047719		<0.05	0.8	170	1.5	1.6	<0.001	0.01	<0.05	0.2	<0.2	<0.2	17.9	<0.01	<0.01	<0.2
N047720		<0.05	1.0	260	1.1	3.2	0.001	0.04	<0.05	0.3	<0.2	<0.2	24.6	<0.01	<0.01	<0.2
N047721		0.11	1.4	370	1.7	1.7	0.001	0.02	0.07	0.3	0.2	<0.2	17.3	<0.01	<0.01	<0.2
N047722		0.07	0.5	400	0.5	2.0	<0.001	0.01	<0.05	0.1	0.4	<0.2	25.6	<0.01	<0.01	<0.2
N047723		0.07	0.9	220	1.8	1.3	<0.001	0.01	0.05	0.1	0.3	<0.2	16.7	<0.01	0.01	<0.2
N047724		0.06	0.2	180	0.5	3.9	0.001	<0.01	<0.05	<0.1	<0.2	0.6	27.5	<0.01	<0.01	<0.2
N047725		0.06	0.5	160	0.6	3.9	0.001	<0.01	0.05	0.1	<0.2	<0.2	28.7	<0.01	<0.01	<0.2
N047726		0.07	0.3	130	0.9	1.9	0.002	<0.01	<0.05	0.1	0.2	0.2	11.6	<0.01	<0.01	<0.2
N047727		0.08	1.1	140	1.8	1.7	0.001	0.01	0.08	0.2	0.2	<0.2	21.5	<0.01	<0.01	<0.2
N047728		0.07	0.5	290	2.1	2.2	0.001	0.03	0.07	0.1	0.4	<0.2	20.6	<0.01	0.02	<0.2
N047729		0.06	0.4	120	0.7	1.2	0.001	0.01	0.06	0.1	0.4	<0.2	20.8	<0.01	0.01	<0.2
N047730		0.07	0.6	270	1.4	1.5	<0.001	0.02	0.06	0.1	0.2	<0.2	16.7	<0.01	<0.01	<0.2
N047731		0.06	0.4	200	1.0	0.8	<0.001	0.01	0.05	0.1	<0.2	<0.2	12.9	<0.01	0.02	<0.2
N047732		0.13	3.1	310	2.6	1.7	<0.001	0.02	0.08	0.4	<0.2	<0.2	84.8	<0.01	0.02	<0.2
N047733		0.07	0.4	130	0.9	0.8	<0.001	0.01	0.05	0.1	<0.2	<0.2	7.6	<0.01	0.02	<0.2
N047734		0.08	1.0	210	1.0	3.0	0.001	0.01	0.06	0.2	0.4	<0.2	29.1	<0.01	0.01	<0.2
N047735		0.06	0.4	210	0.5	1.8	0.001	0.01	<0.05	<0.1	<0.2	<0.2	32.5	<0.01	<0.01	<0.2
N047736		0.17	5.8	620	5.9	3.2	<0.001	0.08	0.15	0.5	0.3	0.2	224	<0.01	0.01	<0.2
N047737		0.31	4.0	360	3.1	2.9	<0.001	0.02	0.07	0.7	0.7	0.2	200	<0.01	0.01	<0.2
N047738		0.07	0.4	130	0.9	1.1	<0.001	<0.01	0.05	0.1	0.2	0.3	15.8	<0.01	<0.01	<0.2
N047739		0.08	0.7	130	0.9	0.5	0.001	<0.01	0.06	0.1	0.3	<0.2	7.0	<0.01	0.02	<0.2
N047740		0.07	1.2	420	1.4	1.6	0.001	0.01	0.05	0.1	<0.2	0.2	21.0	<0.01	0.01	<0.2
N047741		0.06	0.6	300	1.8	1.4	0.001	0.02	0.05	0.1	0.4	<0.2	23.7	<0.01	0.01	<0.2
N047742		0.06	0.3	110	1.0	0.7	0.001	<0.01	<0.05	0.1	0.2	<0.2	8.6	<0.01	<0.01	<0.2
N047743		0.06	1.2	240	0.6	1.0	0.001	0.01	0.05	0.1	<0.2	0.2	18.3	<0.01	<0.01	<0.2
N047744		0.07	0.6	290	3.1	1.1	0.001	0.02	0.06	0.1	0.2	<0.2	17.3	<0.01	0.01	<0.2
N047745		0.15	5.6	350	1.4	2.0	0.001	0.01	0.06	0.6	0.3	<0.2	18.3	<0.01	0.02	0.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 19-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131458

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	SCR-51	SCR-51
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	WT.+2mm	WT.-2mm
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	g
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.1	0.1
N047706		<0.005	<0.02	<0.05	2	<0.05	0.10	9	<0.5	5.5	21.7
N047707		<0.005	<0.02	<0.05	<1	<0.05	<0.05	13	<0.5	11.5	26.3
N047708		<0.005	<0.02	<0.05	1	<0.05	0.13	19	<0.5	0.8	8.4
N047709		0.008	<0.02	<0.05	4	<0.05	0.36	17	<0.5	6.4	14.6
N047710		<0.005	<0.02	<0.05	1	<0.05	0.07	17	<0.5	5.2	11.4
N047711		<0.005	<0.02	<0.05	1	<0.05	0.07	23	<0.5	4.5	12.9
N047712		0.006	<0.02	0.17	6	<0.05	2.61	387	<0.5	1.0	7.3
N047713		0.013	<0.02	0.07	10	0.05	1.26	117	<0.5	1.8	12.5
N047714		0.007	<0.02	0.05	5	<0.05	0.42	101	<0.5	4.9	12.9
N047715		<0.005	<0.02	<0.05	<1	<0.05	0.10	19	<0.5	2.0	13.2
N047716		0.013	0.02	0.27	12	0.06	4.91	87	<0.5	2.2	5.2
N047717		<0.005	<0.02	<0.05	1	<0.05	0.08	11	<0.5	5.2	12.3
N047718		<0.005	<0.02	<0.05	2	<0.05	0.22	26	<0.5	4.0	11.3
N047719		<0.005	<0.02	<0.05	2	<0.05	0.12	12	<0.5	1.9	14.5
N047720		<0.005	<0.02	<0.05	1	<0.05	0.11	15	<0.5	1.8	12.5
N047721		<0.005	0.02	<0.05	3	<0.05	0.25	14	<0.5	2.0	13.7
N047722		<0.005	<0.02	<0.05	1	<0.05	0.05	16	<0.5	8.2	25.4
N047723		<0.005	<0.02	<0.05	1	<0.05	0.12	10	<0.5	2.1	11.0
N047724		<0.005	<0.02	<0.05	<1	<0.05	<0.05	46	<0.5	12.0	18.2
N047725		<0.005	<0.02	<0.05	1	<0.05	0.07	31	<0.5	5.9	13.0
N047726		<0.005	<0.02	<0.05	<1	<0.05	0.05	10	<0.5	3.4	9.6
N047727		<0.005	<0.02	<0.05	2	<0.05	0.21	12	<0.5	9.0	9.6
N047728		<0.005	<0.02	<0.05	1	<0.05	0.12	13	<0.5	5.6	8.2
N047729		<0.005	<0.02	<0.05	<1	<0.05	0.05	10	<0.5	15.2	10.7
N047730		<0.005	<0.02	<0.05	1	<0.05	0.12	12	<0.5	4.9	10.1
N047731		<0.005	<0.02	<0.05	1	<0.05	0.11	10	<0.5	10.6	12.3
N047732		0.009	<0.02	<0.05	6	<0.05	0.38	23	<0.5	6.8	11.9
N047733		<0.005	<0.02	<0.05	1	<0.05	0.06	7	<0.5	2.5	8.0
N047734		<0.005	<0.02	<0.05	3	<0.05	0.22	15	<0.5	3.1	12.3
N047735		<0.005	<0.02	<0.05	<1	<0.05	<0.05	16	<0.5	11.2	15.1
N047736		0.011	0.03	0.08	7	0.05	0.82	18	<0.5	2.0	4.3
N047737		0.046	<0.02	0.08	55	<0.05	1.48	35	<0.5	9.0	29.6
N047738		<0.005	<0.02	<0.05	1	<0.05	0.08	10	<0.5	5.3	11.3
N047739		<0.005	<0.02	<0.05	2	<0.05	0.12	7	<0.5	6.3	17.3
N047740		<0.005	<0.02	<0.05	1	<0.05	0.13	17	<0.5	3.4	12.2
N047741		<0.005	<0.02	<0.05	1	<0.05	0.09	15	<0.5	4.4	10.2
N047742		<0.005	<0.02	<0.05	1	<0.05	0.05	12	<0.5	5.4	13.9
N047743		<0.005	<0.02	<0.05	<1	<0.05	0.05	10	<0.5	4.9	8.6
N047744		<0.005	<0.02	<0.05	1	<0.05	0.11	11	<0.5	4.7	6.7
N047745		0.008	<0.02	0.05	5	<0.05	0.44	14	<0.5	10.9	19.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 19-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131458

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
N047746		0.12	<0.0001	0.29	0.04	0.8	<0.2	<10	10	<0.05	0.01	0.34	0.44	0.39	0.4	2
N047747		0.04	0.0003	0.15	0.03	0.2	<0.2	<10	10	<0.05	0.01	0.26	0.13	0.42	0.3	1
N047748		0.08	0.0002	0.11	0.02	0.4	<0.2	<10	10	<0.05	0.01	0.15	0.05	0.24	0.1	<1
N047749		0.06	0.0001	0.76	0.02	0.3	<0.2	<10	<10	<0.05	0.01	0.09	0.05	0.15	0.1	<1
N047750		0.10	0.0004	0.11	0.02	0.4	<0.2	<10	20	<0.05	0.01	0.29	0.05	0.36	0.2	1
N047751		0.06	<0.0001	0.17	0.02	0.3	<0.2	<10	10	<0.05	0.01	0.13	0.05	0.27	0.1	1
N047752		0.08	0.0005	0.33	0.02	0.1	<0.2	<10	10	<0.05	0.01	0.08	0.05	0.28	0.1	1
N047753		0.06	<0.0001	0.28	0.03	0.4	<0.2	<10	10	<0.05	0.01	0.11	0.05	0.57	0.2	1
N047754		0.06	0.0007	0.12	0.03	0.3	<0.2	<10	20	<0.05	0.02	0.12	0.06	0.37	0.2	1
N047755		0.06	0.0040	0.07	0.03	0.3	<0.2	<10	20	<0.05	0.01	0.10	0.03	0.29	0.2	1
N047756		0.06	<0.0001	0.31	0.01	<0.1	<0.2	<10	20	<0.05	0.01	0.06	0.04	0.16	0.1	<1
N047757		0.08	<0.0001	0.50	0.04	0.6	<0.2	<10	30	<0.05	0.01	0.13	0.04	0.26	0.2	1
N047758		0.04	0.0002	0.18	0.02	0.4	<0.2	<10	10	<0.05	<0.01	0.34	0.05	0.22	0.1	1
N047759		0.08	<0.0001	0.42	0.01	0.3	<0.2	<10	20	<0.05	<0.01	0.13	0.05	0.16	0.1	1
N047760		0.12	<0.0001	0.10	0.07	1.1	<0.2	<10	110	<0.05	0.03	0.60	0.25	0.59	0.5	1
N047761		0.04	NSS	0.30	0.18	0.5	<0.2	<10	40	0.11	0.10	1.73	0.75	1.98	2.2	4
N047762		0.08	<0.0001	0.25	0.01	0.1	<0.2	<10	20	<0.05	<0.01	0.58	0.02	0.05	0.1	1
N047763		0.06	0.0004	0.33	0.72	2.4	<0.2	<10	370	0.22	0.07	1.19	0.49	4.94	6.2	47
N047764		0.06	0.0003	0.17	0.08	0.6	<0.2	<10	110	<0.05	0.01	0.52	0.24	0.57	0.7	3
N047765		0.04	0.0002	0.23	0.01	0.2	<0.2	<10	40	<0.05	<0.01	0.60	0.22	0.10	0.2	1
N047766		0.08	0.0001	0.10	0.02	0.6	<0.2	<10	20	<0.05	0.02	0.20	0.07	0.36	0.2	1
N047767		0.08	<0.0001	0.05	0.02	0.4	<0.2	<10	10	<0.05	0.01	0.22	0.04	0.21	0.1	1
N047768		0.06	0.0009	0.09	0.02	0.4	<0.2	<10	10	<0.05	0.01	0.20	0.04	0.29	0.2	1
N047769		0.06	0.0003	0.52	0.11	1.1	<0.2	<10	50	<0.05	0.02	1.12	0.46	0.99	1.0	3
N047770		0.08	0.0007	0.21	0.02	0.3	<0.2	<10	10	<0.05	0.01	0.22	0.08	0.17	0.2	1
N047771		0.04	0.0003	0.11	0.02	0.3	<0.2	<10	10	<0.05	0.01	0.19	0.05	0.19	0.1	1
N047772		0.06	<0.0001	0.06	0.02	0.2	<0.2	<10	10	<0.05	0.01	0.14	0.12	0.20	0.1	1
N047773		0.06	0.0003	0.07	0.01	0.4	<0.2	<10	20	<0.05	0.01	0.26	0.12	0.19	0.1	<1
N047774		0.08	0.0002	0.09	0.02	0.2	<0.2	<10	20	<0.05	0.01	0.46	0.07	0.18	0.1	<1
N047775		0.10	0.0001	0.09	0.02	0.2	<0.2	<10	10	<0.05	<0.01	0.13	0.07	0.18	0.1	<1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 19-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131458

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
N047746		0.05	12.7	0.07	0.13	<0.05	<0.02	0.17	<0.005	0.09	0.2	0.5	0.04	26	0.07	0.01
N047747		0.05	16.9	0.07	0.07	<0.05	<0.02	0.15	<0.005	0.17	0.2	0.2	0.03	37	0.16	0.01
N047748		<0.05	6.8	0.04	0.05	<0.05	<0.02	0.17	<0.005	0.12	<0.2	0.1	0.02	25	0.08	0.01
N047749		<0.05	6.4	0.03	<0.05	<0.05	<0.02	0.12	<0.005	0.02	<0.2	0.1	0.01	48	<0.05	0.01
N047750		<0.05	11.7	0.05	0.08	<0.05	<0.02	0.10	<0.005	0.12	0.2	0.2	0.03	53	0.18	0.02
N047751		<0.05	7.0	0.04	<0.05	<0.05	<0.02	0.09	<0.005	0.05	0.2	0.1	0.01	24	0.06	0.01
N047752		<0.05	8.7	0.05	0.06	<0.05	<0.02	0.09	<0.005	0.05	0.2	0.1	0.01	34	0.08	0.01
N047753		0.05	8.2	0.07	0.07	<0.05	<0.02	0.14	<0.005	0.09	0.3	0.3	0.02	55	<0.05	0.01
N047754		<0.05	18.7	0.07	0.09	<0.05	<0.02	0.08	<0.005	0.05	0.2	0.2	0.02	99	0.16	0.02
N047755		<0.05	10.0	0.05	0.07	<0.05	<0.02	0.12	<0.005	0.04	<0.2	0.2	0.01	40	0.07	0.01
N047756		<0.05	4.3	0.03	<0.05	<0.05	<0.02	0.11	<0.005	0.06	<0.2	0.1	0.01	48	<0.05	<0.01
N047757		<0.05	8.4	0.05	0.12	<0.05	<0.02	0.14	<0.005	0.07	<0.2	0.1	0.01	64	<0.05	0.01
N047758		<0.05	10.7	0.04	0.07	<0.05	<0.02	0.16	<0.005	0.10	<0.2	0.2	0.02	36	0.09	0.02
N047759		<0.05	8.7	0.03	0.06	<0.05	<0.02	0.10	<0.005	0.07	<0.2	0.1	0.02	93	0.05	0.01
N047760		<0.05	6.9	0.08	0.20	<0.05	<0.02	0.18	<0.005	0.06	0.4	0.1	0.03	351	0.32	0.02
N047761		0.12	65.9	0.21	0.45	<0.05	<0.02	0.08	0.022	0.04	2.5	0.8	0.09	81	1.41	0.02
N047762		<0.05	2.5	0.05	<0.05	<0.05	<0.02	0.01	<0.005	0.05	<0.2	0.1	0.01	88	0.05	0.01
N047763		0.28	24.5	1.49	2.89	<0.05	<0.02	0.14	0.011	0.08	2.9	2.9	0.29	1680	1.02	0.02
N047764		0.07	22.3	0.17	0.35	<0.05	<0.02	0.13	<0.005	0.14	0.3	0.5	0.07	530	0.16	0.01
N047765		<0.05	8.6	0.03	0.06	<0.05	<0.02	0.09	<0.005	0.54	<0.2	0.3	0.04	154	<0.05	0.01
N047766		<0.05	13.5	0.14	0.09	<0.05	<0.02	0.11	<0.005	0.08	0.2	0.1	0.03	42	0.46	0.02
N047767		<0.05	4.0	0.18	0.07	<0.05	<0.02	0.20	<0.005	0.09	<0.2	0.1	0.02	41	0.06	0.02
N047768		<0.05	18.8	0.09	0.09	<0.05	<0.02	0.11	<0.005	0.07	0.2	0.1	0.03	29	0.24	0.02
N047769		0.07	21.1	0.22	0.34	<0.05	<0.02	0.17	<0.005	0.17	0.6	0.6	0.06	382	0.48	0.02
N047770		<0.05	22.1	0.07	0.08	<0.05	<0.02	0.09	<0.005	0.17	<0.2	0.2	0.03	44	0.17	0.02
N047771		<0.05	6.3	0.06	0.07	<0.05	<0.02	0.21	<0.005	0.15	<0.2	0.2	0.02	37	0.09	0.01
N047772		<0.05	12.4	0.06	0.07	<0.05	<0.02	0.12	<0.005	0.18	<0.2	0.1	0.02	49	0.16	0.02
N047773		<0.05	16.7	0.05	0.06	<0.05	<0.02	0.17	<0.005	0.21	<0.2	0.1	0.02	50	0.20	0.02
N047774		<0.05	14.9	0.04	0.06	<0.05	<0.02	0.06	<0.005	0.07	<0.2	0.1	0.02	31	0.10	0.01
N047775		<0.05	10.3	0.05	0.06	<0.05	<0.02	0.07	<0.005	0.11	<0.2	0.1	0.02	26	0.11	0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 19-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131458

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
N047746		0.08	1.4	200	1.0	1.1	<0.001	0.01	0.05	0.2	0.3	<0.2	28.5	<0.01	0.02	<0.2
N047747		0.07	0.9	460	2.5	1.2	0.001	0.03	0.06	0.1	0.4	<0.2	19.9	<0.01	<0.01	<0.2
N047748		0.06	0.3	350	0.7	1.1	<0.001	0.02	0.05	0.1	0.4	<0.2	12.0	<0.01	<0.01	<0.2
N047749		0.07	0.3	70	0.4	0.4	0.001	<0.01	0.06	0.1	0.3	0.2	7.8	<0.01	0.01	<0.2
N047750		0.07	0.7	230	1.1	1.3	<0.001	0.01	<0.05	0.1	0.4	<0.2	28.2	<0.01	0.01	<0.2
N047751		0.07	0.3	90	0.7	1.0	0.001	<0.01	<0.05	0.1	0.3	<0.2	12.6	<0.01	<0.01	<0.2
N047752		0.07	0.3	140	0.9	0.7	0.001	0.01	0.05	0.1	0.3	<0.2	8.9	<0.01	0.01	<0.2
N047753		0.08	0.5	200	0.7	1.3	0.001	0.01	<0.05	0.1	0.2	<0.2	17.2	<0.01	0.02	<0.2
N047754		0.07	0.4	220	1.2	0.8	0.001	0.01	0.05	0.1	0.3	0.2	15.1	<0.01	0.02	<0.2
N047755		0.07	0.3	120	0.7	0.5	0.001	<0.01	0.05	0.1	<0.2	<0.2	11.3	<0.01	0.01	<0.2
N047756		0.06	0.3	80	0.6	0.7	0.001	<0.01	0.05	0.1	<0.2	<0.2	7.0	<0.01	0.02	<0.2
N047757		<0.05	0.7	60	1.2	0.9	<0.001	<0.01	<0.05	0.3	<0.2	<0.2	14.7	<0.01	<0.01	<0.2
N047758		<0.05	0.3	210	0.8	1.1	<0.001	<0.01	<0.05	0.3	<0.2	<0.2	24.6	<0.01	<0.01	<0.2
N047759		<0.05	0.3	210	0.5	0.6	<0.001	<0.01	<0.05	0.3	<0.2	<0.2	13.3	<0.01	<0.01	<0.2
N047760		<0.05	1.3	390	6.2	1.0	<0.001	0.04	0.06	0.4	0.4	<0.2	66.6	<0.01	<0.01	<0.2
N047761		0.07	8.7	320	3.2	1.5	<0.001	0.02	0.05	0.7	0.6	<0.2	113.5	<0.01	0.01	<0.2
N047762		<0.05	<0.2	120	0.2	0.4	<0.001	<0.01	<0.05	0.2	<0.2	<0.2	31.0	<0.01	<0.01	<0.2
N047763		0.31	16.5	720	6.9	3.6	<0.001	0.04	0.12	1.3	0.5	0.2	173.0	<0.01	0.01	<0.2
N047764		0.05	1.2	320	1.7	2.0	<0.001	<0.01	<0.05	0.5	<0.2	<0.2	27.7	<0.01	<0.01	<0.2
N047765		<0.05	0.2	180	0.5	3.0	<0.001	<0.01	<0.05	0.3	<0.2	<0.2	51.7	<0.01	<0.01	<0.2
N047766		<0.05	0.7	330	1.5	0.7	0.001	0.03	<0.05	0.3	<0.2	<0.2	15.7	<0.01	0.01	<0.2
N047767		<0.05	0.4	130	0.5	0.5	<0.001	<0.01	<0.05	0.2	<0.2	<0.2	13.8	<0.01	<0.01	<0.2
N047768		<0.05	1.4	250	2.7	0.6	0.001	0.02	<0.05	0.3	<0.2	<0.2	18.9	<0.01	<0.01	<0.2
N047769		0.06	1.6	440	1.9	1.7	0.001	0.03	<0.05	0.6	0.5	<0.2	55.5	<0.01	<0.01	<0.2
N047770		<0.05	0.4	250	0.5	1.3	<0.001	0.01	<0.05	0.3	<0.2	<0.2	13.5	<0.01	<0.01	<0.2
N047771		<0.05	0.4	250	0.7	1.0	<0.001	0.01	<0.05	0.2	<0.2	<0.2	12.2	<0.01	<0.01	<0.2
N047772		<0.05	0.3	310	1.3	1.2	0.001	0.01	<0.05	0.2	<0.2	<0.2	14.4	<0.01	<0.01	<0.2
N047773		<0.05	0.2	230	1.2	1.6	0.001	<0.01	<0.05	0.3	<0.2	<0.2	25.0	<0.01	<0.01	<0.2
N047774		<0.05	0.2	180	1.0	0.7	<0.001	<0.01	<0.05	0.2	<0.2	0.9	25.4	<0.01	<0.01	<0.2
N047775		<0.05	0.3	140	0.5	1.0	<0.001	<0.01	<0.05	0.2	<0.2	<0.2	12.3	<0.01	<0.01	<0.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 19-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131458

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	SCR-51	SCR-51
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	WT.+2mm	WT.-2mm
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	g
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.1	0.1
N047746		<0.005	<0.02	<0.05	1	<0.05	0.09	22	<0.5	12.1	15.1
N047747		<0.005	<0.02	<0.05	1	<0.05	0.13	18	<0.5	2.4	7.3
N047748		<0.005	<0.02	<0.05	1	<0.05	0.08	6	<0.5	11.3	15.9
N047749		<0.005	<0.02	<0.05	1	<0.05	<0.05	12	<0.5	3.7	11.5
N047750		<0.005	<0.02	<0.05	1	<0.05	0.11	12	<0.5	14.2	11.8
N047751		<0.005	<0.02	<0.05	<1	<0.05	0.11	6	<0.5	9.6	9.8
N047752		<0.005	<0.02	<0.05	1	<0.05	0.08	8	<0.5	11.4	11.9
N047753		<0.005	<0.02	<0.05	1	<0.05	0.09	9	<0.5	4.2	16.3
N047754		<0.005	<0.02	<0.05	1	<0.05	0.13	10	<0.5	2.5	10.2
N047755		<0.005	<0.02	<0.05	1	<0.05	0.09	5	<0.5	8.3	16.0
N047756		<0.005	<0.02	<0.05	<1	<0.05	0.05	5	<0.5	12.7	23.3
N047757		<0.005	<0.02	<0.05	1	<0.05	0.08	11	<0.5	8.1	17.5
N047758		<0.005	<0.02	<0.05	1	<0.05	0.07	10	<0.5	3.0	8.7
N047759		<0.005	<0.02	<0.05	1	<0.05	<0.05	13	<0.5	10.0	18.2
N047760		<0.005	<0.02	<0.05	2	<0.05	0.25	100	<0.5	13.9	16.8
N047761		0.006	<0.02	0.07	5	<0.05	2.05	61	<0.5	3.2	6.2
N047762		<0.005	<0.02	<0.05	<1	<0.05	<0.05	9	<0.5	13.2	11.6
N047763		0.043	<0.02	0.21	43	0.07	1.60	69	<0.5	2.3	10.5
N047764		0.007	<0.02	<0.05	6	<0.05	0.21	37	<0.5	13.4	11.7
N047765		<0.005	<0.02	<0.05	1	<0.05	<0.05	34	<0.5	6.6	16.5
N047766		<0.005	<0.02	<0.05	1	<0.05	0.14	21	<0.5	6.4	9.4
N047767		<0.005	<0.02	<0.05	<1	<0.05	0.06	7	<0.5	7.1	9.6
N047768		<0.005	<0.02	<0.05	1	<0.05	0.12	12	<0.5	5.1	7.7
N047769		<0.005	<0.02	0.16	4	<0.05	0.59	16	<0.5	8.2	8.4
N047770		<0.005	<0.02	<0.05	1	<0.05	0.08	10	<0.5	7.9	10.0
N047771		<0.005	<0.02	<0.05	1	<0.05	0.07	7	<0.5	2.5	15.8
N047772		<0.005	<0.02	<0.05	1	<0.05	0.08	11	<0.5	2.3	8.8
N047773		<0.005	<0.02	<0.05	1	<0.05	0.07	11	<0.5	3.5	9.5
N047774		<0.005	<0.02	<0.05	1	<0.05	0.07	32	<0.5	11.3	16.2
N047775		<0.005	<0.02	<0.05	1	<0.05	0.06	8	<0.5	11.3	23.0

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 19-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12131458

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.
ME-MS41	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).

APPENDIX 03: Rock Sample Descriptions

RedGold Surface Rock Samples
Location and Description

Year Sampled	SampleID	Easting	Northing	Occurence	Comments	GF Lith Code	Lithology Code
2012	I675751	604448.9392	5813557.059	Outcrop	seynite brecciating volcanic breciia.	BMPI	Not Recorded
2012	I675752	604530.2256	5813564.539	Subcrop	barren looking granular med grain pink seynite. euigranular kspar gmass, porphyritic hbl.	ICSY	Not Recorded
2012	I675754	604529.7111	5813594.015	Outcrop	trench sample of monz with xcutting seynite veinlets.	IMMO	Not Recorded
2012	I675753	604537.1416	5813574.886	Subcrop	sample in road cut of seynite brecciating monz to monzodio. mag+kspar alt.	BCPI	Not Recorded
2012	I675755	604442.2654	5813532.782	Outcrop	syen brx\dykes w common volbx\volss clasts	BCMI	Not Recorded
2012	I675756	604445.8978	5813522.769	Outcrop		BCMI	Not Recorded
2012	I675757	604433.1353	5813524.438	Outcrop		BMPI	Not Recorded
2012	I675758	604426.2429	5813558.987	Outcrop		BCMI	Not Recorded
2012	I675759	604417.4237	5813574.192	Outcrop		BX	Not Recorded
2012	I675760	604404.1812	5813581.716	Outcrop	trench	VANTB	Not Recorded
2012	I675761	604388.9612	5813587.201	Subcrop	subcrop sample w\ some good cpy in kspar vns	VANTB	Not Recorded
2012	I675762	604405.9803	5813841.927	Subcrop	light grey green, ser? alt felds+-qtz phyric latite to monz. 15-20% felds phenos. aphanitic gmass. local diss sulphids mostly weathered out.	FDyk	Not Recorded
2012	I675763	604402.5907	5813844.332	Outcrop	pale grey green, chl-ser? alt hbl phyric andesite. Hbl are 2-3mm long and needle like.	IPAN	Not Recorded
2012	I675764	604408.0376	5813877.861	Subcrop	Appears to be subcrop.weak mag+-kspar alt fg diorite. minor sulphide veining py+-cpy.	VANTB	Not Recorded
2012	I675765	604403.0354	5813902.356	Outcrop	Hihly weathered and obscured by Fe-ox. Abundant plag and hbl needles where alt is weaker, up to 1mm. Does appear finer than dio to immed south. Some remnant veining visible but chalky and soft with weathering.	VANTB	Not Recorded
2012	I675766	604403.3738	5813909.865	Outcrop	Fe-ox weathered, mag+cpy alt plag-px\hbl? phyric andesite. Plag light vitreous lath 3mm long, Px stumpy up to 8mm locally. Cpy appears with mag clots.	VANAB	Not Recorded
2012	I675768	604501.8253	5813818.376	Subcrop	Highly altered. either mg diorite or px phyric andesite. weak patchy diss mag. chl after mafics, chalky pale gmass where fresh face visible.	VANAB	Not Recorded
2012	I675769	604550.9154	5813814.024	Subcrop	Green, mag-chl alt of px phyric andesite? Large px phenos up to 5mm. trace py.	VANAB	Not Recorded
2012	I675767	604424	5813797		Entered at later date. Missed by accident.		Not Recorded
2012	I675770	603822.4541	5813795.055	Outcrop	py and chalky grey sulphide? in hbl phyric dyke	IPAN	Not Recorded
2012	I675771	603827.6824	5813790.524	Outcrop	py stringers in oxidized hbl phyric dyke	IPAN	Not Recorded

RedGold Surface Rock Samples
Location and Description

Year Sampled	SampleID	Easting	Northing	Occurence	Comments	GF Lith Code	Lithology Code
2012	I675772	604438.8401	5813698.548	Subcrop	Not sure if subcrop, exposed under dead fir. Green grey mag-chl+-py alt volc sandstone. no larger clasts visible in small amount available, but looks like matrix of volBx.	VANTB	Not Recorded
2012	I675773	604063.9437	5813610.956	Outcrop	Light grey-green chl and patchy-mag+py alt andesitic? pebble breccia. coarse sand matrix, with white felds? grains and chl alt mafics. could also be clastic basaltic sandstone, just altered?.	VANTB	Not Recorded
2012	I675774	604069.5143	5813613.874	Outcrop	Light grey-green chl and patchy-mag+py alt andesitic? pebble breccia. coarse sand matrix, with white felds? grains and chl alt mafics. could also be clastic basaltic sandstone, just altered?.	VANTB	Not Recorded
2012	I675775	604482.0411	5813601.468	Outcrop	grey-pink weak mag+-kspar alt equigranular plag-bt monzonite. Not sure if bt is secondary or primary.minor py and poss cpy.	IMMO	Not Recorded
2012	I675776	604428.6931	5813680.837	Outcrop	highly altered. green-pink, mag+-kspar+py and chl alt volcanic pebble breccia. Matrix obscured by alt. clasts generally <1cm but 3-5% up to 4cm.	VANTB	Not Recorded
2012	I675777	604193.9797	5813498.843	Outcrop	Green chl-ep+--mag alt, clastic basaltic sandstone. Rare clasts, less than 5mm. plua diss py.	VBASS	Not Recorded
2012	I675778	604230.3597	5813390.775	Outcrop	Light green chl-mag-py alt, plag-px phyric andesite. no visible clasts	VANAB	Not Recorded
2012	I675779	604110.0107	5813361.856	Outcrop	Light green-pink, kspar-mag+-py+-cpy alt of px-plag phyric andesite. No visible clasts.	VANAB	Not Recorded
2012	I675780	604358.5462	5813381.182	Outcrop	dark greenish-grey chl-mag-ep alt, plag-mafic phyric, andesitic breccia. abundant faint subrounded? felds and mafics. Clasts up to 10 cm. cpy?	VANTB	Not Recorded
2012	I675781	604295.1251	5813407.095	Subcrop	dark green, chl-ep-py+-mag alt, clastic sandstone. clasts up to 4cm visible, very weak mag	VBASS	Not Recorded
2012	I675782	604258.0648	5813377.807	Outcrop	light green, chl-py+-cpy alt plag-px phyric andesite breccia. visible clasts up to 15 cm	VANAB	CrsPxAnd_BX
2012	I675783	604260.9258	5813321.246	Outcrop	light green, chl-py+-cpy alt plag-px phyric andesite breccia. visible clasts up to 10 cm	VANAB	CrsPxAnd_BX
2012	I675785	604278.631	5813266.357	Outcrop	kspar alt px-plag andesite.	VANAB	CrsPxAnd_BX
2012	I675801	603890.354	5813499.211	Outcrop	BXvery strong disseminated mag, abundant py and tr cpy	VANTB	VolBX

RedGold Surface Rock Samples
Location and Description

Year Sampled	SampleID	Easting	Northing	Occurence	Comments	GF Lith Code	Lithology Code
2012	I675802	603877.1233	5813487.433	Outcrop	VolBX pebbl-cobble brx, poss occurring as interbed between xtal rich sandstone beds.	VANTB	VolBX
2012	I675803	603941.7967	5813509.202	Outcrop	pyx and hbl phyricandesite, (possible dyke) with common py. poss kspar alt, slight local pinkening	IPAN	HblAnd
2012	I675804	603970.1601	5813491.072	Outcrop	cg pyx-phyr-andesite breccia. magnetic, common py	VANAB	CrsPxAnd_BX
2012	I675805	604111.3801	5813354.908	Outcrop	peb brx w/ poss syen clasts or VS Kspar alt. hard to tell mono/polymictic. proximal to both intr dior and syen brx outcrops.	VANAB	CrsPxAnd_BX
2012	I675806	604104.2262	5813353.55	Outcrop	syen crackle brx, some blebby cpy and Py. common syen vns <2cm in S pot alt ?dior or autoclastic andesite host rock.	IFD	MedSyen_IBX
2012	I675807	604115.8319	5813363.046	Outcrop	Mg eqg bio-rich monz dyke	IMMO	MonzBio
2012	I675808	603972.6077	5813332.748	Outcrop	Probably diorite, but biotite weathered/altered out.	IFD	FnDio
2012	I675809	603933.5141	5813279.808	Outcrop	Hbl-phyric andesite dyke cutting thru polymictic volbx	IDyk	HblAnd
2012	I675810	603933.4703	5813287.225	Outcrop	Massive polymictic peb-cob vclastic breccia.	VANTB	VolBX
2012	I675811	603931.02	5813306.646	Outcrop	large body of fine grained diorite	IFD	FnDio
2012	I675812	605583.1797	5813293.875	Float	boulder of andesitic vclastic w/ clasts porph andesite. Local purple aphanitic veins.	VANTB	VolBX
2012	I675813	605673.4623	5813157.284	Subcrop	volbx w peb clasts in mg sand xtal rich mtrx. wkly mag.	VANTB	VolBX
2012	I675814	604347.3437	5813204.764	Outcrop	py	VANAB	CrsPxAnd_BX
2012	I675815	604503.9113	5813200.819	Subcrop	CrsPxAnd_BX. Sampled in subcrop, prob slightly reworked primary rock. Strong rusty Feox alt, common Ep. Trace dis Cpy	VANAB	CrsPxAnd_BX
2012	I675816	604288.1924	5813164.109	Outcrop	euhedral hbl in glassy grey gmass. trace dissem py. cuts sharply thru cg pyx phr-and bx.	IPAN	HblAnd
2012	I675817	604239.6025	5813258.481	Outcrop	rusty feox alt CrsPxAnd_BX. w/ abundant euh py. sampled within strong fabric 090/66 along sheeted feox and ep alt unknown dykes/veins. possible kspar and pods of Ep w/in thickest dykelet [<10cm].	VANAB	CrsPxAnd_BX
2012	I675818	603802.8265	5813267.213	Outcrop	fine grained diorite w/ trace py and possible cpy	IFD	FnDio
2012	I675819	603723.1029	5813276.655	Outcrop	discontinuous pod-like kspar rich [syenite?] vein and fg dior host. Tried to get as much vein as possible in sample.	IFD	FnDio
2012	I675820	603759.4532	5813287.994	Outcrop	syenite (or possible monz?) dyke and diorite wall rock.	ICSY	MedSyen

RedGold Surface Rock Samples
Location and Description

Year Sampled	SampleID	Easting	Northing	Occurence	Comments	GF Lith Code	Lithology Code
2012	I675821	604826.1547	5813211.967	Subcrop	poss float. low lying rock <3m across looks in-situ. Apparent CrsPxAnd_BX. will cut sample to check. Poss trace malachite on weathered surface.	VANAB	CrsPxAnd_BX
2012	I675822	605550.8721	5813136.843	Subcrop	road, prob reworked material from topo high to ENE. blk,	VANTB	CrsPxAnd_BX
2012	I675823	604819.9584	5813109.682	Subcrop	subcrop or top of lg boulder. s frac low lying rock <3m across. text obscured by feox alt. prob volbx, no cg pyx visible. will cut sample.	VANTB	CrsPxAnd_BX
2012	I675824	604530.3346	5813080.695	Outcrop	crsPxAndBX. trace dis cpy and py. poss weathered sulphide vns <1mm.	VANAB	CrsPxAnd_BX
2012	I675825	604439.8048	5813094.922	Outcrop	. laminated cherty fg sst bed w/in crspxandbx outcrop. rusty feox alt, py and poss tr cpy	VANAB	CrsPxAnd_BX
2012	I675826	604436.5008	5813098.17	Outcrop	very rusty feox alt fg sst. poss from same bed as I675825. massive py, poss cpy	VANAB	CrsPxAnd_BX
2012	I675827	604437.8062	5813096.754	Float	looks like clasts of crspxand seperated by colloform qtz veins. several pieces occur sitting on bedrock, not in-situ but may be close; br v shallow.	VANAB	CrsPxAnd_BX
2012	I675828	604411.9353	5813065.379	Outcrop	cob.ble clast sized crspxandbx. mod-strong patchy ep alt, cladsts may be pref kspar alt.	VANAB	CrsPxAnd_BX
2012	I675829	604398.0992	5812996.838	Outcrop	crspxandbx. wk patchy kspar alt, s patchy ep, mod chl overprint.	VANAB	CrsPxAnd_BX
2012	I675830	604539.4557	5812998.177	Outcrop	colloform qtz vn [from swarm] and crspxandbx host rock. tried to include as much vn material as possible from multiple vns..	VANAB	CrsPxAnd_BX
2012	I675831	604545.6476	5813004.141	Outcrop	vn qtz and wall rock [crspxandbx]	VANAB	CrsPxAnd_BX
2012	I675832	605200.0313	5812882.658	Subcrop	sampled from trench at red gold.vs kspar alt, common blebby cpy	VANAB	CrsPxAnd_BX
2012	I675833	605034.8877	5812912.688	Subcrop	poss float- unsure of lith will cut sample	IPAN	HblAnd
2012	I675834	604927.1799	5812900.556	Outcrop	couldn't break adfequate sample from outcrop. sampled from float; same lith as outcrop	VANTB	VolBX
2012	I675835	604479.0891	5812938.845	Outcrop	chl and patchy ep alt [+-poss wk kspar] crspxandbx.	VANAB	CrsPxAnd_BX
2012	I675836	603819	5813952	Subcrop	Bt rich rock. +-Ol? Med grain equigranular. Crowded bt +-px? Common cpy blebs.	IMD	MedDio
2012	I675838	604100	5813339	Subcrop	Kspar-ep-mag+-py+-cpy veins on fractures.	VANAB	CrsPxAnd_BX
2012	I675837	604219.1663	5812524.212	Outcrop	crtspxandbx, previously mapped as pegmatoidaldior. poss kspar alt, py and poss cpy	VANAB	CrsPxAnd_BX

RedGold Surface Rock Samples
Location and Description

Year Sampled	SampleID	Easting	Northing	Occurence	Comments	GF Lith Code	Lithology Code
2012	I675784	604289.9074	5812527.569	Outcrop	crspxandbx sampled below hbl phr and dyke. dis py and pink carbonate alt>	VANAB	CrsPxAnd_BX
2012	I675786	604538.049	5813617.374	Subcrop	Pink grey, kspar-mag-cpy alt, med grain equigranular monzonite. possibly bt and chl alt mafics, plag, and anhedral felds.	IMMO	Not Recorded
2012	I675787	604557.766	5813586.377	Outcrop	dark grey- to chalky beige, highly weathered, plag to clays some fe-ox, equigranular monz? weak mag	IMMD	Not Recorded
2012	I675788	604580.2737	5813622.615	Subcrop	Strongly ox rock, possibly sapprolite. appears to have intrusive texture. highly obscured.	IMMO	Not Recorded
2012	I675789	604570.9576	5813651.828	Subcrop	pale green with dark green, chl-mag-py+-cpy alt, coarse px breccia.	VANAB	Not Recorded
2012	I675790	604480.9794	5813637.672	Subcrop	pink-grey, kspar-mag alt, fine grained bt-rich monzonite.	IFMO	Not Recorded
2012	I675839	603309.187	5812996.054	Outcrop	white fg monz or poss syenite dyke. appears trace mineralised but common cpy and mal at contacts	FDyk	Not Recorded
2012	I675840	603313.7594	5812994.11	Outcrop	pink syenite from main body of rock at quarry zone	ICSY	MedSyen
2012	I675841	603046.2203	5813024.279	Float		IFD	FnDio
2012	I675842	603007.3468	5812998.056	Outcrop	sample includes <3cm kspar dyke cross cut by qtz vn, and dioritw wall rock. no min observed.	IFD	FnDio
2012	I675843	603126.19	5812934.991	Outcrop	wkly kspar altered fg dior	IFD	FnDio
2012	I675791	604445.3438	5813587.034	Outcrop	cant see clasts due to alt, but looks like lith to south with seynite bx. pale bleached lith with 1mm felds? grains faintly visible.	VANTB	Not Recorded
2012	I675792	604516.8005	5813591.227	Outcrop	bleached white with wk mag and kspar alt, abundant 1mm felds, xstall supported. Cant be sure this isnt volbx.	IFMO	Not Recorded
2012	I675793	604507.1688	5813569.68	Outcrop	grey-pink kspar-mag-py-cpy with wk phyl overprint alt, faint felds grains, volcanix breccia? highly altered so hard to tell.	VANTB	Not Recorded
2012	I675794	604493.6899	5813563.987	Outcrop	grey-pink kspar-mag-py-cpy with wk phyl overprint alt, faint felds grains, volcanix breccia? highly altered so hard to tell.	VANTB	Not Recorded
2012	I675795	604484.7176	5813562.931	Outcrop	grey-pink kspar-mag-py-cpy with wk phyl overprint alt, faint felds grains, volcanix breccia? highly altered so hard to tell.	VANTB	Not Recorded
2012	I675844	603421.4796	5813000.273	Outcrop	currently mapped as mg syenite. may have been prev mapped as monz. traces dis cpy and py.	ICSY	MedSyen
2012	I675845	603468.8283	5813022.042	Outcrop	mapped by tcs as med gr syenite. eqg to trachytic kspar dominated [>60%] but may have been mapped previously as monz. Poss kspat alt monz?	ICSY	MedSyen

RedGold Surface Rock Samples
Location and Description

Year Sampled	SampleID	Easting	Northing	Occurence	Comments	GF Lith Code	Lithology Code
2012	I675846	603552.1034	5813053.841	Outcrop	plag and poss kspasr dominated eqg monz. [kspar may be alt'd plag] sample contains kspar+- act+-py+-cpy vns.	IMMO	MonzBio
2012	I675847	603567.0707	5813037.095	Outcrop	Q` 60cm thick syenite dyke	FDyk	Not Recorded
2012	I675848	603564.7553	5813034.079	Outcrop	mgsyen brx. wk tr mineralisation along frac planes.	BMPI	Not Recorded
2012	I675796	604391.1184	5813549.909	Outcrop	dark grey, mag-chl-+kspar+py+cpy alt,poorly to mod sorted, plag rich volcaniclastic. Plags look subhedral and jumbled up, like a sediment. Plag up to 1mm.	VANTB	Not Recorded
2012	I675797	604396.3815	5813575.576	Outcrop	stringer.	BMPI	Not Recorded
2012	I675798	604369.5294	5813479.945	Outcrop	Abundant py! good chargeability likely. Pale grey, bleached but hard py alt, felds rich and clastic volcanic breccia.	VANTB	Not Recorded
2012	I675849	603671.2542	5812937.11	Outcrop	vfg sst -mst laminated beds. hornfelsed sediment? or very silicic mst. rudsty feox.	SSMS	Not Recorded
2012	I675799	604261.5092	5813618.214	Subcrop	subcrop or float, slightly bleached, andesitic volcaniclastic. no clasts visible in small amount of material.Juat looks like weak oxidation and clay weathering.	VANTB	Not Recorded
2012	I675800	604370.1881	5813349.535	Outcrop	dark green, chl-ep-carb-mag+-py+-cpy alt, coarse basaltic sand.	VBASS	Not Recorded
2012	I675901	604336.8092	5813296.019	Outcrop	trace sulphides.medium green chl-ep-mag alt, monomictic plag-px phyric andesitic breccia.	VANAB	Not Recorded
2012	I675902	604338.2466	5813292.386	dy		IPAN	Not Recorded
2012	I675903	604334.0981	5813315.251	Outcrop	light pink, aphanitic gmass just barely supporting felds-hbl phenos. trace diss cpy and py. 15 cm wide.	IMMO	Not Recorded
2012	I675904	604340.4861	5813322.456	Outcrop	light grey basaltic to andesitic, chl-mag-py+-cpy alt, well bedded sandstone with felds grains.	VBASS	VolSS
2012	I675905	604344.5852	5813313.333	Outcrop	light grey basaltic to andesitic, chl-mag-py+-cpy alt, well bedded sandstone with felds grains.	VBASS	VolSS
2012	I675906	604181.8227	5813450.867	Outcrop	light green, chl-ep+-py+-kspar alt, monomictic andesitic boulder breccia.	VANAB	CrsPxAnd_BX
2012	I675907	604122.2928	5813318.098	Outcrop	light green, chl-ep+carb+-py alt, monomictic andesitic boulder breccia.+kspar alt.	VANAB	CrsPxAnd_BX
2012	I675908	603982.2364	5813344.964	Outcrop	mottled grey green, chl-py-ser alt, felds rich diorite? pebble clastic volcaniclastic.	VANTB	VolBX
2012	I675909	603872.9177	5813943	Float	lots of float, possibly subcrop. White bleached, ser-py no mag alt, felds phyric dio? obscured by alt	IFD	FnDio
2012	I675910	603807.382	5813967.951	Subcrop	bt-mag alt mg diorite. minor cpy.	IMD	Not Recorded

RedGold Surface Rock Samples
Location and Description

Year Sampled	SampleID	Easting	Northing	Occurence	Comments	GF Lith Code	Lithology Code
2012	I675911	603784.748	5813961.349	Subcrop	Intense bt-chl-mag alt. Not sure of original litho.	ICD	Not Recorded
2012	I675912	603795.5515	5813948.596	Float	float. salt and pepper, moderate bt-mag alt, diorite. bt up to 7mm.	IMD	Not Recorded
2012	I675913	603799.642	5813915.857	Subcrop	bleached, ser-chl-py alt mg dio or volcaniclastic. texturally destroyed.	IMD	Not Recorded
2012	I675914	603807.4603	5813887.657	Outcrop	bleached, ser-chl-py alt, volcaniclastic. felds grains <1mm and dioritic? felds-hbl clasts.	VANTB	Not Recorded
2012	I675915	603664.7897	5813233.903	Outcrop	white chalky vein material in fg bt phyric fine dio. weak kspar alt to dio.	IFD	Not Recorded
2012	I675916	603649.5149	5813264.002	Outcrop	salt and pepper with pink, kspar-mag alt, bt phyric fine grained diorite. and cpy	IFD	Not Recorded
2012	I675917	603615.389	5813244.994	Outcrop	Light pink and grey,felds+bt+-hbl phyric, kspar-mag+-bt? alt monzonite. Could be mg dio but looks to felsic. weak porphyritic texture with interstitial kspar. cpy on fractures.	IMMO	Not Recorded
2012	I675918	603577.2068	5813298.394	Outcrop	dark salt and pepper, mag-bt?+-kspar alt fg felds phyric diorite.	IFD	Not Recorded
2012	I675919	603575.371	5813277.245	Outcrop	Light salt and pepper, mag+bt+-kspar alt med grain felds bt phyric monz? malachite on fractures.	IMMO	Not Recorded
2012	I675920	603576.1281	5813253.842	Outcrop	Light salt and pepper, mag+bt+-kspar alt med grain felds bt phyric monz? with kspar+cpy vein	IMMO	Not Recorded
2012	I675921	603423.575	5813182.84	Outcrop	light pink, primary? kspar, chl alt hbl, and mag.	ICSY	Not Recorded
2012	I675922	603337.575	5813192.869	Outcrop	could be coluvium.Not sure if in situ. Light pink grey, kspar-bt-mag-chl alt medium grained monz. Chalky felds, chl alt hbl.	IMMO	Not Recorded
2012	I675923	603183.6221	5813175.897	Outcrop	medium grey salt and pepper, mag-bt-chl alt fg diorite.	IFD	Not Recorded
2012	I675924	603216.659	5813177.89	Outcrop	medium grey salt and pepper, mag-bt-chl alt fg diorite.with cpy in pegmatitic kspar veins.	IFD	Not Recorded
2012	I675925	603594.2048	5813236	Outcrop	pink kspar-bt-mag alt monzonite?	IMMO	Not Recorded
2012	I675927	603593.5609	5813155.684	Outcrop	light pink to salmon, mag-chl alt, kspar?white felds-hbl mg syenite. Not sure if kspar considered an alt. trace cpy.	ICSY	Not Recorded
2012	I675928	603540.3543	5813181.184	Outcrop	light pink to salmon, mag-chl alt, kspar?white felds-hbl mg syenite. Not sure if kspar considered an alt. trace cpy.	ICSY	Not Recorded
2012	I675929	603549.99	5813207.721	Outcrop	light pink to salmon, mag-chl alt, kspar?white felds-hbl mg syenite. Not sure if kspar considered an alt. trace cpy. lots of monz or dio xenoliths.	ICSY	Not Recorded

RedGold Surface Rock Samples
Location and Description

Year Sampled	SampleID	Easting	Northing	Occurence	Comments	GF Lith Code	Lithology Code
2012	I675930	603037.098	5813226.785	Outcrop	medium grey salt and pepper, mag-bt-chl alt fg diorite. trace cpy in weak kspar alt.	IFD	Not Recorded
2012	I675931	602912.6627	5813190.049	Outcrop	medium grey salt and pepper, mag-bt-chl patchy kspar alt fg diorite.	IFD	Not Recorded
2012	I675926	603597.2466	5813187.177	Outcrop		ICSY	Not Recorded
2012	I675932	603620.1046	5813097.648	Outcrop	hornfels py-ser alt polymictic volbx	VANTB	Not Recorded
2012	I675933	603531.4534	5813125.175	Outcrop	Aphanitic kspar gmass, hbl phenos. diss cpy. Irregular dyke or pod in mg syenite.	ICSY	Not Recorded
2012	I675934	603518.0098	5813125.118	Outcrop	light pink to salmon, mag-chl alt, kspar?white felds-hbl mg syenite. with aphanitic kspar malachite dykes.	ICSY	Not Recorded
2012	I675935	603348.1571	5813076.804	Outcrop	some fe-ox on syenite.	ICSY	Not Recorded
2012	I675936	603686.7063	5813322.374	Outcrop	fe ox in light salt and pepper, chl-bt-mag+-kspar alt, fine diorite.	IFD	Not Recorded
2012	I675937	603649.5988	5813372.465	Outcrop	light salt and pepper, chl-bt-mag+-kspar alt, fine diorite.	IFD	Not Recorded
2012	i675938	603551.0964	5813396.905	Outcrop	light salt and pepper, chl-bt-mag+-kspar alt, fine diorite. with kspar dykes.	IFD	Not Recorded
2012	I675939	603771.28	5813387.646	Float	possibly float. Wk ser-py alt felds rich volbx.	VANTB	Not Recorded
2012	I675940	603757.5772	5813417.162	Outcrop	Wk ser-mag-py alt felds rich volbx. where visible clasts up to 2cm.	VANTB	Not Recorded
2012	I675941	603659.9998	5813448.534	Outcrop	ser-mag+-bt alt volbx. no visible clasts though.	VANTB	Not Recorded
2012	I675942	603643.3168	5813472.079	Outcrop	bt-mag and rexstallized felds? alt volbx	VANTB	Not Recorded
2012	I675943	603499.0758	5813473.327	Outcrop	Light grey, bt-mag-chl alt, felds gmass looks rexstallized or something, no clear phenos, Mg diorite?	IMD	Not Recorded
2012	I675944	603456.4743	5813373.497	Outcrop	Light grey, bt-mag-chl alt, felds gmass looks rexstallized or something, no clear phenos, Mg diorite? Common white veins with kspar halos.	IMD	Not Recorded
2012	I675945	603476.4174	5813344.516	Outcrop	Light grey, bt-mag-chl alt, felds gmass looks rexstallized or something, no clear phenos, Mg diorite? podiform green chl alt clots with px of possibly possibly px phyric fg dio?	IMD	Not Recorded
2012	I675946	603569.5953	5813787.115	Outcrop	light white and green salt and pepper, chl-mag+-kspar in local veins, px-hbl phyric mg diorite. white gmass, weathers white.	IMD	Not Recorded
2012	I675947	603623.0561	5813799.018	Outcrop	dark green, chl-mag-bt alt, px phyric diorite? highly alt and rexstallized?	IMD	Not Recorded

RedGold Surface Rock Samples
Location and Description

Year Sampled	SampleID	Easting	Northing	Occurence	Comments	GF Lith Code	Lithology Code
2012	I675948	603593.5767	5813820.817	Outcrop	light grey chl-mag+-kspar from vein alt, px-hbl? phyric mg dio.	IMD	Not Recorded
2012	I675949	603614.8992	5813851.681	Outcrop	malachite and fe-ox in light grey chl-mag+-kspar from vein alt, px-hbl? phyric mg dio.	IMD	MedDio
2012	I675950	603664.1238	5813880.724	Float	salt and pepper, mag-chl-feox alt poorly sorted felds rich volbx.	VANTB	VolBX_gran
2012	I675851	603733.955	5813888.69	Outcrop	medium green and grey, chl-bt-mag alt volxbx? alt obscurs, texturally destroyed.	VANTB	VolBX_gran
2012	I675852	603740.0735	5813891.869	Subcrop	light grey salt and pepper, bt-mag-chl alt, fine px-felds diorite. local large bt books and obscured textures.	IFD	FnDio
2012	I675853	603734.2874	5813931.908	Subcrop	trace cpy in wk or fresh bt-mag alt coarse px phyric diorite.	ICD	CRSDio
2012	I675854	603754.4606	5813919.319	Subcrop	greenr, ch-epl-mag, px-hbl phyric mg diorite. Highly obscured.	IMD	ny
2012	I675855	603742.8679	5813525.687	Outcrop	light green-grey, silica? (v hard) sericite-py alt, volcanic breccia. texturally obscurred.	VANTB	VolBX_gran
2012	I675856	603235.0035	5813838.437	Outcrop	light grey, v hard possibly silicified py altered, volcaniclastic? locally jumbled hbl and/or felds grains. Alt makes telling orig lith hard.	VANTB	VolBX_gran
2012	I675857	603850.9726	5814092.217	Outcrop	light grey salt and pepper, bt-mag-chl alt or primary, fine to nearly apahnitic bt-felds dio.	IFD	FnDio
2012	I675858	603030.3712	5813417.084	Outcrop	chl alt fg to mg px phyric diorite.	IFD	FnDio
2012	I675859	603661.9388	5812755.913	Outcrop	Rusty orange grey-maroon, py-bt? alt laminated silstpne. Hornfels?	SSST	LamSiltS
2012	I675860	603475.3409	5812777.569	Outcrop	dark grey, chl over mag-bt-kspar alt, felds phyric plag por monz or dio.	IFD	ny
2012	I675861	603344.8623	5812808.201	Outcrop	dark grey, strong bt alt of felds phyric plag por monz or dio.	IFD	ny
2012	I675862	603419.6174	5812889.705	Outcrop	dark grey, strong bt-mag alt, felds phyric plag por monz or dio.	IFD	ny
2012	I675863	604875.1746	5812784.093	Subcrop	light green with mottled white, chl-ep-carb+-mag alt, polymictic volcanic breccia. Felds-hbl phyric intrusive clasts and some aphanitic siliceous material. Ep appears to be after xstalls of unclear type. Local rusty weathering.	VANTB	VolBX_peb
2012	I675864	605125.1208	5812472.022	Subcrop	Dark grey, ep-chl-carb-mag alt, white felds laths and chl-alt px? in aphanitic gmass, minor amygdules. Local 10cm clasts of same composition. Minor cpy in carb veining.	VBABA	ny

RedGold Surface Rock Samples
Location and Description

Year Sampled	SampleID	Easting	Northing	Occurence	Comments	GF Lith Code	Lithology Code
2012	I675865	605024.2483	5812562.696	Outcrop	Medium green, ep-carb-chl-mag alt, 5% 4mm px and lath like pink felds phyric basalt? Obscured by alt.	IFBA	ny
2012	I675866	604976.0332	5812633.87	Outcrop	Medium green, ep-carb-chl-mag alt, 5% 4mm px and lath like pink felds phyric basalt? Highly obscured so guessing.	IFBA	ny
2012	I675867	605064.4636	5812797.445	Outcrop	pink and green, ep-chl-kspar-mag alt, 5% 4mm px phyric with 2% 1mm plag lath phyric basalt?	IFBA	ny
2012	I675868	605080.0945	5812793.211	Outcrop	pink and green, ep-chl-kspar-mag alt, 5% 4mm px phyric with 2% 1mm plag lath phyric basalt? Minor cpy	IFBA	ny
2012	I675869	605143.3873	5812777.954	Outcrop	pink and green, ep-chl-kspar-mag alt, 5% 4mm px phyric with 2% 1mm plag lath andesitic to basaltic clasts. Monomictic breccia.	VANBA	CrsPxAnd_BX
2012	I675870	605200.8198	5812794.72	Outcrop	pink and green, ep-chl-kspar-mag alt, 5% 4mm px phyric with 2% 1mm plag lath andesitic to basaltic clasts. Monomictic breccia.	VANBA	CrsPxAnd_BX
2012	I675871	605163.8997	5812892.825	Subcrop	pink and green, ep-chl-kspar-mag alt, 5% 4mm px phyric with 2% 1mm plag lath andesitic to basaltic clasts. Monomictic breccia.	VANBA	CrsPxAnd_BX
2012	I675872	605075.0548	5812711.522	Outcrop	pink and green, ep-chl-carb-mag alt, 5% 4mm px phyric with 2% 1mm plag lath andesitic to basaltic clasts. Monomictic breccia. Trace cpy in clots.	VANBA	CrsPxAnd_BX
2012	I675873	605089.5349	5812699.103	Outcrop	pink and green, ep-chl-carb-mag alt, 5% 4mm px phyric with 2% 1mm plag lath andesitic to basaltic clasts. Monomictic breccia. Strong propyl	VANBA	CrsPxAnd_BX
2012	I675874	605140.1802	5812720.825	Outcrop	pink and green, ep-chl-kspar?-mag alt, 5% 4mm px phyric with 2% 1mm plag lath andesitic to basaltic clasts. Monomictic breccia. Trace cpy in ep+-carb	VANBA	CrsPxAnd_BX
2012	I675875	605202.6489	5812707.646	Outcrop	pink and green, ep-chl-carb-kspar?-mag alt, 5% 4mm px phyric with 2% 1mm plag lath andesitic to basaltic clasts. Monomictic breccia	VANBA	CrsPxAnd_BX
2012	I675876	605329.6355	5812689.383	Outcrop	green, chl-ep-carb-mag alt, 5% 4mm px phyric with 2% 1mm plag lath andesitic to basaltic clasts. Monomictic breccia	VANBA	CrsPxAnd_BX
2012	I675877	605166.3382	5812637.975	Outcrop	1mm plag lath andesitic to basaltic clasts. Monomictic	VANBA	CrsPxAnd_BX
2012	I675878	605260.1788	5812587.165	Outcrop	green, chl-ep-carb-mag+-kspar alt, 5% 6mm px phyric with 2% 3mm plag lath andesitic to basaltic clasts. Monomictic breccia	VANBA	CrsPxAnd_BX

RedGold Surface Rock Samples
Location and Description

Year Sampled	SampleID	Easting	Northing	Occurence	Comments	GF Lith Code	Lithology Code
2012	I675879	605213.8554	5812549.508	Outcrop	green, chl-ep-carb-mag alt, 5% 6mm px phyric with 2% 1mm plag lath andesitic to basaltic clasts. Monomictic breccia with trace cpy	VANBA	CrsPxAnd_BX
2012	I675880	603892.005	5812570.132	Outcrop	Fe-ox on friable and clay alt volbx?	VANBA	CrsPxAnd_BX
2012	I675881	603878.9836	5813806.265	Float	supported polymictic breccia. Maybe cpy? Bad light and vfg	VANBA	CrsPxAnd_BX
2012	I675882	605153.2636	5812447.88	Outcrop	Whole rock.px-felds lath phyric andesite?Grey aphanitic gmass. px 4-5% 4mm. 1mm felds laths and blebs? Green glassy mineral after px.	VANAB	CrsPxAnd_BX
2012	I675883	604866.7177	5812792.814	Subcrop	Whole rock. wk ep-chl alt polymictic volbx	VANTB	VolBX_gran
2012	I675884	605144.0867	5812781.129	Outcrop	Whole rock. Mod to strong ep-chl alt of crspxand	VANAB	CrsPxAnd_BX
2012	I675885	603450.3261	5812754.973	Subcrop	Whole rock.Wk chl-mag +-kspar veins in fndio?	IFD	FnDio
2012	I675886	603375.2707	5812967.402	Subcrop	Whole rock. Fresh syenite.	ICSY	MedSyen
2012	I675887	603314.7239	5812996.727	Outcrop	Whole rock. Qtz monz or syenite dyke.	IMMOQ	ny
2012	I675888	603548.2974	5813019.452	Subcrop	Whole rock. Wk kspar alt of plag por monz.	IMMO	MonzBio
2012	I675889	603747.5937	5813307.772	Outcrop	Whole rock. Weak potassic alt of fn diorite.	IFD	FnDio
2012	I675890	603576.4019	5813276.71	Outcrop	Whole rock. bt-+kspar alt plag por monz.	IMMO	MonzBio
2012	I675891	603491.5691	5813233.008	Outcrop	Whole rock. Syenite	ICSY	MedSyen
2012	I675892	603519.8532	5813395.875	Outcrop	Whole rock. chl-mag+-kspar alt mg px diorite.	IMD	MedDio
2012	I675893	603750.2725	5813561.527	Subcrop	Whole rock. Phyl alt poly volbx	VANTB	VolBX_gran
2012	I675894	603562.811	5813759.71	Outcrop	Whole rock. chl alt mg diorite.	IMD	MedDio
2012	I675895	603588.9299	5813756.552	Outcrop	Whole rock. Chl alt bt-px-mag rich diorite.	ICD	CRSDio
2012	I675896	603805.9239	5813784.875	Subcrop	Whole rock. V hard, silica maybe ser-py alt vol bx	VANTB	VolBX_gran
2012	I675897	603771.3155	5813948.454	Subcrop	Whole rock. coarse px phyric diorite.	ICD	CRSDio
2012	I675898	603787.5572	5813892.791	Subcrop	Whole rock. unknown minerlized rock. Has 1mm or less plag laths, aphanitic gmass.	IPMO	ny
2012	I675899	604399.5071	5813905.215	Subcrop	Whole rock. Feox and chl alt of possible massive coarse px phyric andesite.	VANAB	CrsPxAnd_BX
2012	I675900	604423.5819	5813822.459	Subcrop	Whole rock. Not sure what this rock is. fg chl alt gmass, mod mag, ep after px.	VANAB	ny
2012	L191751	604225.8971	5813599.794	Outcrop	Whole rock. chl alt px basaltic clastic sandstone.	VBASS	VolSS
2012	L191752	604218.6334	5813451.092	Outcrop	Whole rock. moderate ep-chl+-carb alt crs px and bx	VANAB	CrsPxAnd_BX
2012	L191753	604368.0561	5813349.486	Outcrop	Whole rock. Propyl alt with trace cpy in basaltic sandstone.	VBASS	VolSS_bed
2012	L191754	604390.0954	5813564.895	Outcrop	Whole rock. kspar-btÉ-mag alt felds rich poly volbx	VANTB	VolBX_gran

RedGold Surface Rock Samples
Location and Description

Year Sampled	SampleID	Easting	Northing	Occurence	Comments	GF Lith Code	Lithology Code
2012	L191755	604535.3817	5813620.285	Subcrop	Whole Rock. Kspar-mag alt plag por monz/dio.	IMMO	MonzBio
2012	L191756	605090.0092	5813687.58	Subcrop	Whole Rock. 1mm felds rich with 4% or less px with green glassy mineral after. Some amygdules? of whitish material 2mm in size and irregular shaped.	IFBA	Basalt
2012	L191757	604148.5608	5813352.798	Subcrop	Whole Rock. Bt-+mag alt fine diorite. Otherwise fresh looking.	IFD	FnDio

APPENDIX 04: Rock sample assay certificates

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 16- AUG- 2012
Account: GOFICA

CERTIFICATE VA12181550

Project: Red Gold

P.O. No.: RG- 2012- 007wr

This report is for 28 Rock samples submitted to our lab in Vancouver, BC, Canada on 2- AUG- 2012.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL	NATE BREWER	MATT ECKFELDT
JULIANNE MADSEN	AMELIA RAINBOW	ROSS SHERLOCK
TWILA SKINNER	TIM STUBLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
SPL- 34	Pulp Splitting Charge
LOG- 21d	Sample logging - ClientBarCode Dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP06	Whole Rock Package - ICP- AES	ICP- AES
OA- GRA05	Loss on Ignition at 1000C	WST- SEQ
ME- MS81	38 element fusion ICP- MS	ICP- MS
TOT- ICP06	Total Calculation for ICP06	ICP- AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 16- AUG- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12181550

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS81 Ag ppm 1	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Co ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Cu ppm 5	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01
I675882		1.68	<1	1500	24.5	35.0	430	0.64	150	2.93	1.60	0.97	17.7	3.46	1.7	0.56
I675883		2.04	<1	633	13.0	10.2	60	1.23	<5	2.62	1.69	0.78	20.4	2.84	1.2	0.57
I675884		1.58	<1	2090	20.5	21.4	380	1.25	<5	2.38	1.37	0.76	15.3	2.92	1.5	0.47
I675885		1.96	<1	1280	20.1	33.0	80	5.12	129	2.95	1.76	0.92	17.4	3.38	1.4	0.61
I675886		2.04	<1	1635	18.5	7.0	30	1.11	16	2.12	1.40	0.75	19.3	2.24	2.0	0.44
I675887		1.76	<1	15.5	8.1	4.1	40	0.03	11	1.75	1.25	0.24	20.7	1.47	3.4	0.38
I675888		2.44	<1	1530	22.2	22.0	30	2.58	187	2.75	1.70	0.95	19.2	3.20	1.4	0.57
I675889		1.58	<1	1350	21.0	34.6	60	3.28	150	3.24	1.91	1.02	18.8	3.78	1.5	0.66
I675890		2.50	<1	1440	21.2	26.9	40	1.62	415	2.80	1.61	0.94	19.4	3.32	1.1	0.57
I675891		2.14	<1	1610	18.5	5.5	30	0.54	409	1.97	1.28	0.72	19.6	2.18	2.1	0.44
I675892		1.86	<1	1355	19.0	39.9	80	1.45	232	3.15	1.79	1.09	18.1	3.80	0.9	0.64
I675893		1.94	<1	869	22.5	10.2	310	0.17	11	3.46	2.13	1.12	18.7	3.89	2.0	0.73
I675894		1.70	<1	1100	17.5	38.5	140	1.42	69	2.86	1.61	0.93	17.0	3.39	0.9	0.58
I675894_PD		<0.02	<1	1125	17.7	39.3	150	1.45	71	2.76	1.61	0.95	17.7	3.29	1.0	0.57
I675895		1.52	<1	523	9.7	57.8	230	1.13	213	2.89	1.60	0.91	16.8	3.35	0.7	0.57
I675895_CD		<0.02	<1	502	9.6	57.7	230	1.08	220	2.84	1.62	0.90	17.0	3.36	0.7	0.57
I675896		2.00	<1	602	21.6	13.2	260	0.44	10	3.62	2.13	1.14	19.7	3.92	1.8	0.73
I675897		1.64	<1	1100	17.5	38.4	160	2.05	124	2.81	1.61	0.94	17.8	3.25	1.3	0.58
I675898		2.08	<1	1255	26.8	10.4	40	0.64	405	3.56	2.22	1.11	20.2	3.84	2.3	0.74
I675899		2.18	<1	610	15.1	10.0	420	1.75	55	3.08	1.78	0.74	16.3	3.84	1.8	0.63
I675900		2.44	<1	803	16.7	43.8	90	1.48	127	3.28	1.91	1.06	17.2	3.88	1.2	0.66
L191751		1.86	<1	525	11.3	47.2	820	2.31	<5	2.22	1.46	0.69	14.2	2.42	0.8	0.47
L191752		1.82	<1	2590	22.5	19.7	460	4.85	30	2.61	1.53	0.84	14.9	3.47	2.0	0.53
L191753		1.64	<1	760	13.3	28.2	690	2.62	81	2.88	1.76	0.84	13.7	3.05	1.2	0.59
L191754		1.32	<1	620	20.9	16.6	110	2.24	109	3.22	2.05	1.12	22.3	3.76	1.1	0.70
L191755		1.92	<1	1165	22.6	22.3	90	1.62	317	3.70	2.24	1.19	20.3	4.33	2.0	0.77
L191756		2.10	<1	1090	19.4	18.1	30	0.66	62	3.08	1.79	0.98	18.6	3.58	1.3	0.63
L191757		1.94	<1	1500	18.2	28.0	40	1.52	122	3.17	1.87	1.10	18.7	3.99	1.2	0.66

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 16- AUG- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12181550

Sample Description	Method Analyte Units LOR	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Mo ppm 2	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Ni ppm 5	ME-MS81 Pb ppm 5	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05
I675882		11.9	0.23	<2	2.5	13.9	166	8	3.17	58.2	3.21	1	813	0.2	0.52	2.49
I675883		6.0	0.27	<2	1.5	8.6	14	<5	1.80	39.3	2.25	<1	756	0.1	0.46	0.97
I675884		9.9	0.20	<2	2.2	11.7	174	8	2.65	63.0	2.58	1	518	0.1	0.44	2.14
I675885		9.8	0.25	2	2.4	12.3	32	7	2.67	90.8	2.90	1	1005	0.1	0.54	2.28
I675886		10.1	0.24	<2	3.0	9.4	7	<5	2.27	88.4	2.05	<1	802	0.2	0.37	3.98
I675887		3.4	0.24	<2	5.2	4.8	5	<5	1.13	1.3	1.31	<1	118.0	0.3	0.29	6.62
I675888		11.4	0.24	2	2.7	12.4	17	6	2.83	83.0	2.78	1	1125	0.2	0.51	2.43
I675889		10.2	0.27	2	2.2	13.0	30	7	2.86	72.6	3.28	1	973	0.2	0.58	2.29
I675890		10.7	0.21	<2	2.4	12.5	23	5	2.76	87.8	2.91	1	1115	0.1	0.50	1.61
I675891		10.3	0.23	<2	3.2	9.1	8	5	2.26	85.3	1.93	<1	800	0.2	0.36	3.35
I675892		8.8	0.23	2	1.3	12.7	36	5	2.64	40.9	3.09	1	1205	0.1	0.57	1.02
I675893		10.7	0.33	<2	2.8	14.1	56	<5	3.10	23.1	3.35	1	793	0.2	0.64	1.83
I675894		8.3	0.23	2	1.2	11.2	45	6	2.42	54.6	2.80	1	963	0.1	0.51	1.18
I675894_PD		8.4	0.22	2	1.2	11.4	47	5	2.43	56.1	2.82	1	986	0.1	0.50	1.14
I675895		3.8	0.19	2	0.5	8.7	75	5	1.60	29.7	2.52	1	774	<0.1	0.52	0.37
I675895_CD		3.7	0.20	<2	0.5	8.5	75	6	1.58	28.6	2.59	1	767	<0.1	0.53	0.35
I675896		9.9	0.32	2	2.7	13.5	70	<5	2.98	34.3	3.31	1	707	0.1	0.63	1.62
I675897		8.4	0.23	2	1.5	10.9	52	6	2.35	66.6	2.75	1	941	0.1	0.50	1.82
I675898		13.3	0.34	2	4.3	14.6	20	<5	3.53	62.6	3.31	1	499	0.3	0.62	2.67
I675899		6.6	0.26	<2	2.5	11.8	107	<5	2.34	49.9	3.25	1	843	0.2	0.59	2.75
I675900		7.8	0.27	<2	1.5	11.5	42	6	2.36	61.2	3.11	1	990	0.1	0.59	1.04
L191751		5.5	0.21	<2	1.4	7.4	328	<5	1.58	57.7	1.90	1	331	0.1	0.41	0.82
L191752		10.8	0.23	<2	2.4	12.7	209	<5	2.91	77.6	2.91	1	579	0.2	0.50	2.44
L191753		6.5	0.24	<2	1.5	9.4	216	<5	1.92	60.2	2.49	1	477	0.1	0.49	0.87
L191754		10.5	0.32	<2	2.1	12.2	19	<5	2.72	35.7	3.01	1	794	0.1	0.60	1.81
L191755		10.8	0.33	2	2.9	14.0	33	<5	3.09	73.4	3.41	1	866	0.2	0.68	2.25
L191756		9.6	0.25	<2	2.6	11.9	12	5	2.64	60.7	2.88	1	813	0.1	0.56	1.75
L191757		8.3	0.25	<2	1.6	12.3	21	<5	2.59	80.2	3.13	1	1010	0.1	0.61	1.44

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 16- AUG- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12181550

Sample Description	Method Analyte Units LOR	ME-MS81 Tl ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	ME-MS81 Zn ppm 5	ME-MS81 Zr ppm 20	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01
I675882		<0.5	0.25	1.48	296	1	15.9	1.49	82	80	50.4	14.60	9.31	8.97	7.88	2.08
I675883		<0.5	0.27	0.41	221	1	16.5	1.66	64	50	51.5	18.25	8.18	6.42	3.67	5.07
I675884		<0.5	0.21	1.24	267	1	13.6	1.25	121	70	46.3	12.90	10.35	10.40	6.42	1.66
I675885		<0.5	0.28	1.21	316	1	17.7	1.65	94	60	50.3	14.95	10.70	7.52	4.84	3.13
I675886		<0.5	0.22	1.37	152	1	13.1	1.45	33	90	60.6	18.20	4.23	3.70	1.36	5.54
I675887		<0.5	0.22	1.63	45	1	11.2	1.51	17	130	69.4	16.00	0.99	1.15	0.69	9.13
I675888		<0.5	0.26	1.36	281	1	16.1	1.58	59	60	52.0	17.20	7.94	6.57	3.57	4.04
I675889		<0.5	0.29	1.32	379	1	18.4	1.79	96	60	49.5	15.15	11.45	9.52	5.03	3.02
I675890		<0.5	0.25	0.70	355	<1	15.6	1.39	62	50	49.7	16.95	9.77	8.21	4.43	3.40
I675891		<0.5	0.22	1.22	151	<1	12.9	1.38	32	100	60.0	17.90	4.08	3.55	1.36	5.58
I675892		<0.5	0.27	0.56	417	<1	17.2	1.55	96	40	47.2	14.90	12.35	11.40	5.81	2.73
I675893		<0.5	0.33	1.01	222	<1	20.5	2.06	44	80	56.0	16.05	6.89	8.37	4.92	3.82
I675894		<0.5	0.25	0.64	338	<1	16.1	1.47	92	40	49.9	14.45	11.55	10.45	5.92	2.92
I675894_PD		<0.5	0.25	0.62	349	<1	16.3	1.42	96	40	49.8	14.40	11.65	10.35	5.95	2.94
I675895		<0.5	0.24	0.24	538	<1	15.4	1.33	95	30	44.0	11.25	16.10	15.80	9.50	1.16
I675895_CD		<0.5	0.23	0.24	543	<1	15.1	1.33	94	30	43.6	11.15	16.25	15.70	9.47	1.18
I675896		<0.5	0.34	0.87	277	1	20.8	2.03	37	70	54.2	16.10	8.48	8.25	5.60	4.03
I675897		<0.5	0.25	0.98	370	1	15.8	1.55	94	50	49.5	14.25	11.35	10.50	6.20	2.83
I675898		<0.5	0.38	1.65	225	1	22.4	2.20	36	110	58.6	18.00	4.18	4.26	2.52	6.14
I675899		<0.5	0.29	1.79	274	1	17.4	1.62	46	80	50.0	14.85	6.46	13.95	5.83	3.21
I675900		<0.5	0.29	0.52	396	<1	18.5	1.71	110	50	47.2	12.95	12.45	9.92	6.51	3.06
L191751		<0.5	0.23	0.50	247	1	13.6	1.35	58	40	49.6	11.75	9.94	7.37	12.65	2.32
L191752		<0.5	0.23	1.16	304	1	14.7	1.44	80	80	49.3	13.85	9.90	10.70	7.05	2.56
L191753		<0.5	0.26	0.67	283	1	16.7	1.58	108	50	48.9	12.65	9.96	10.00	9.55	2.68
L191754		<0.5	0.33	0.91	250	1	18.9	1.98	39	50	50.7	17.95	7.42	10.20	4.99	4.25
L191755		<0.5	0.34	1.08	328	<1	21.5	2.06	68	80	52.9	16.15	9.25	6.83	4.16	4.31
L191756		<0.5	0.28	0.80	284	1	18.1	1.57	78	60	47.6	15.30	7.78	9.89	2.73	2.92
L191757		<0.5	0.28	0.85	359	1	17.6	1.64	50	50	48.8	16.95	10.65	9.58	4.26	3.20

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 16- AUG- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12181550

Sample Description	Method / Analyte / Units / LOR	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.01	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01	TOT-ICP06 Total % 0.01
I675882		2.79	0.05	0.71	0.19	0.47	0.10	0.17	2.89	100.61
I675883		1.29	<0.01	0.61	0.18	0.22	0.09	0.07	2.95	98.50
I675884		3.10	0.05	0.60	0.25	0.36	0.06	0.24	3.75	96.44
I675885		4.00	0.01	0.75	0.21	0.43	0.12	0.14	2.38	99.48
I675886		5.49	<0.01	0.37	0.07	0.22	0.10	0.18	1.80	101.86
I675887		0.08	<0.01	0.18	0.04	0.09	0.01	<0.01	1.65	99.41
I675888		3.71	<0.01	0.66	0.15	0.49	0.13	0.17	2.04	98.67
I675889		3.25	0.01	0.83	0.20	0.51	0.12	0.15	1.40	100.14
I675890		3.50	<0.01	0.81	0.14	0.58	0.13	0.16	2.04	99.82
I675891		5.17	<0.01	0.37	0.07	0.21	0.09	0.18	1.42	99.98
I675892		1.94	0.01	0.84	0.22	0.46	0.15	0.15	0.92	99.08
I675893		1.85	0.04	0.70	0.13	0.28	0.09	0.10	1.40	100.64
I675894		2.86	0.02	0.75	0.20	0.41	0.12	0.12	0.74	100.41
I675894_PD		2.87	0.02	0.76	0.20	0.42	0.12	0.12	0.74	100.34
I675895		1.12	0.03	0.96	0.24	0.27	0.09	0.06	1.21	101.79
I675895_CD		1.10	0.03	0.95	0.24	0.27	0.09	0.06	1.27	101.36
I675896		2.14	0.03	0.83	0.11	0.29	0.08	0.07	1.53	101.74
I675897		2.96	0.02	0.77	0.20	0.45	0.11	0.12	0.45	99.71
I675898		3.43	<0.01	0.65	0.07	0.32	0.06	0.14	2.40	100.77
I675899		1.24	0.05	0.73	0.16	0.47	0.10	0.07	3.33	100.45
I675900		3.15	0.01	0.72	0.23	0.47	0.12	0.09	3.25	100.13
L191751		2.82	0.10	0.54	0.17	0.21	0.04	0.06	2.70	100.27
L191752		2.80	0.06	0.72	0.25	0.44	0.07	0.30	2.82	100.82
L191753		2.55	0.09	0.67	0.25	0.29	0.06	0.09	2.72	100.46
L191754		1.41	0.01	0.71	0.13	0.26	0.10	0.07	3.32	101.52
L191755		3.51	0.01	0.85	0.15	0.38	0.10	0.13	1.81	100.54
L191756		2.85	<0.01	0.71	0.17	0.38	0.10	0.13	6.21	96.77
L191757		3.32	<0.01	0.80	0.13	0.58	0.12	0.17	2.12	100.68

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUN-2012
Account: GOFICA

CERTIFICATE VA12124027

Project: Red Gold

P.O. No.: RG-2012-001r

This report is for 28 Rock samples submitted to our lab in Vancouver, BC, Canada on 5-JUN-2012.

The following have access to data associated with this certificate:

ELEANOR BLACK	JACQUELINE BLACKWELL	NATE BREWER
AMELIA RAINBOW	ROSS SHERLOCK	TWILA SKINNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
SPL-34	Pulp Splitting Charge
CRU-31	Fine crushing - 70% <2mm
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	51 anal. aqua regia ICPMS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: ELEANOR BLACK
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: ***Corrected copy with sample ID prefix 16 corrected to I6***

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUN-2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12124027

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
I675751		1.06	0.021	0.07	1.84	24.1	<0.2	10	40	0.61	0.02	1.37	0.11	11.15	6.4	39
I675752		1.52	0.034	0.07	1.06	5.6	<0.2	<10	30	0.42	0.03	0.53	0.03	17.95	11.0	44
I675753		1.58	0.171	0.43	1.48	25.8	<0.2	<10	80	0.38	0.06	0.94	0.05	10.15	12.0	26
I675754		1.52	0.056	0.16	1.65	14.4	<0.2	<10	110	0.53	0.05	1.39	0.06	16.00	13.7	9
I675755		1.90	0.183	0.38	2.12	13.4	0.2	10	80	0.59	0.25	1.92	0.09	10.40	12.5	22
I675756		1.82	0.095	0.30	1.29	13.2	<0.2	<10	200	0.40	0.21	1.08	0.07	10.10	8.3	32
I675757		1.24	0.075	0.23	1.87	17.2	<0.2	10	100	0.52	0.11	1.68	0.13	9.92	9.5	22
I675758		2.34	0.009	0.06	2.10	10.9	<0.2	10	90	0.48	0.01	2.01	0.09	9.23	2.8	7
I675759		1.44	0.079	0.40	2.14	17.6	<0.2	10	80	0.36	0.04	1.23	0.08	9.41	14.8	8
I675760		2.04	0.021	0.07	2.05	12.6	<0.2	10	50	0.40	0.01	1.55	0.06	9.66	7.1	6
I675761		1.60	0.848	0.77	1.72	19.5	0.8	10	40	0.26	0.05	1.50	0.09	8.05	9.7	24
I675762		1.92	0.080	0.04	2.89	6.2	<0.2	10	20	0.77	0.02	3.40	0.09	11.90	7.8	71
I675763		1.54	0.002	0.02	2.10	17.3	<0.2	20	20	0.59	0.01	2.45	0.05	7.59	4.8	17
I675764		1.96	0.060	0.15	1.14	6.8	<0.2	<10	90	0.44	0.02	1.25	0.07	12.55	6.9	64
I675765		2.62	0.019	0.05	3.84	8.7	<0.2	10	20	0.87	0.01	4.21	0.07	11.60	7.6	78
I675766		3.76	0.041	0.10	2.78	18.2	<0.2	10	200	0.49	0.02	2.92	0.12	7.77	4.3	190
I675767		1.60	0.007	0.04	1.46	8.2	<0.2	10	40	0.36	0.02	1.81	0.10	8.88	4.6	71
I675768		2.36	0.034	0.05	4.79	11.1	<0.2	10	190	0.67	0.01	3.03	0.06	8.59	9.2	188
I675769		2.24	0.003	0.01	1.80	6.4	<0.2	<10	60	0.26	0.01	1.55	0.08	13.75	12.7	248
I675770		1.54	0.051	0.24	1.82	7.1	<0.2	<10	10	0.41	0.05	1.66	0.06	8.06	15.6	26
I675771		1.58	0.021	0.11	1.66	4.0	<0.2	<10	50	0.36	0.02	1.46	0.04	10.90	15.0	8
I675771_PD		<0.02	0.022	0.11	1.66	4.1	<0.2	<10	50	0.34	0.02	1.46	0.05	11.40	15.1	8
I675772		2.22	0.074	0.13	1.94	4.3	<0.2	10	70	0.34	0.02	1.26	0.06	8.64	7.9	15
I675772_CD		<0.02	0.076	0.13	1.88	4.3	<0.2	10	70	0.28	0.02	1.20	0.06	8.54	7.7	14
I675773		2.32	0.028	0.10	3.07	13.9	<0.2	<10	70	0.37	0.03	2.59	0.08	7.17	9.9	182
I675774		2.38	0.159	0.24	3.08	15.7	1.1	10	30	0.34	0.08	2.73	0.14	6.51	12.9	253
I675775		0.90	0.025	0.05	3.00	9.1	<0.2	10	540	0.38	0.01	1.87	0.11	15.45	30.5	14
I675776		2.58	0.011	0.08	1.28	13.6	<0.2	<10	50	0.35	0.03	0.86	0.05	9.02	9.8	9

Comments: ***Corrected copy with sample ID prefix 16 corrected to I6***

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUN-2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12124027

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
I675751		0.76	170.5	2.65	8.60	0.16	0.22	0.61	0.020	0.09	5.8	14.5	0.95	354	0.29	0.11
I675752		0.20	144.5	3.07	7.61	0.12	0.14	0.04	0.006	0.15	8.8	7.7	1.09	290	0.16	0.09
I675753		0.99	1425	3.23	6.45	0.11	0.14	0.09	0.012	0.24	4.7	12.9	1.03	284	0.30	0.07
I675754		0.84	356	4.27	8.57	0.18	0.27	0.08	0.021	0.27	8.3	11.2	0.90	433	0.45	0.09
I675755		1.00	1085	4.02	9.25	0.17	0.15	0.31	0.023	0.16	5.5	16.9	0.94	427	0.29	0.10
I675756		0.69	594	2.71	6.36	0.10	0.21	0.17	0.015	0.27	5.0	8.5	0.74	339	0.20	0.07
I675757		0.79	729	3.03	8.29	0.12	0.17	0.14	0.024	0.15	5.1	14.1	0.89	461	0.23	0.06
I675758		1.09	99.2	1.11	7.63	0.09	0.18	0.18	0.011	0.15	4.9	10.4	0.60	386	0.30	0.19
I675759		1.27	1015	4.03	7.49	0.14	0.15	0.07	0.011	0.21	4.6	23.5	1.18	461	0.23	0.15
I675760		2.46	218	2.82	6.35	0.09	0.17	0.14	0.011	0.18	5.1	21.6	0.84	269	0.32	0.21
I675761		0.69	3260	3.44	6.23	0.12	0.10	0.71	0.053	0.10	4.2	12.8	0.57	186	0.30	0.13
I675762		0.16	104.5	2.11	10.55	0.14	0.25	0.01	0.032	0.04	5.3	4.4	0.76	412	0.50	0.08
I675763		0.37	11.1	1.49	7.30	0.09	0.27	0.01	0.023	0.08	3.3	7.6	0.79	323	0.32	0.08
I675764		0.33	483	2.88	5.80	0.11	0.24	0.24	0.019	0.12	6.2	3.4	0.47	200	0.34	0.10
I675765		0.23	60.6	3.33	13.10	0.22	0.22	0.02	0.034	0.04	5.7	8.5	1.32	541	1.24	0.05
I675766		0.81	93.6	2.41	7.42	0.08	0.26	0.03	0.016	0.14	3.8	9.1	0.72	336	0.51	0.21
I675767		0.24	39.7	0.92	5.80	0.06	0.24	0.04	0.012	0.05	4.2	7.3	0.45	256	0.34	0.06
I675768		0.95	142.5	2.94	10.65	0.12	0.17	0.36	0.019	0.13	4.8	14.1	1.08	370	0.14	0.63
I675769		0.92	40.3	3.69	7.62	0.15	0.15	<0.01	0.010	0.16	7.1	10.0	1.13	282	0.18	0.11
I675770		0.27	277	6.48	10.80	0.28	0.25	0.24	0.010	0.06	4.4	7.6	0.39	165	11.70	0.05
I675771		0.35	155.5	3.89	5.40	0.14	0.19	0.12	0.006	0.11	5.8	7.6	0.44	143	6.54	0.11
I675771_PD		0.37	155.5	3.95	5.37	0.13	0.21	0.12	0.006	0.11	6.0	8.0	0.43	146	6.11	0.10
I675772		0.72	268	2.73	6.79	0.11	0.13	0.06	0.011	0.18	4.5	16.5	1.07	215	0.84	0.10
I675772_CD		0.72	266	2.67	6.56	0.11	0.12	0.07	0.009	0.17	4.5	18.7	1.06	207	0.72	0.08
I675773		3.54	98.2	4.79	9.05	0.22	0.31	0.06	0.109	0.64	4.6	22.6	1.94	895	1.71	0.33
I675774		12.35	114.0	6.94	8.57	0.38	0.24	0.14	0.229	0.33	4.5	16.4	1.15	728	12.95	0.60
I675775		2.42	261	6.50	9.88	0.22	0.14	0.06	0.023	0.86	8.3	23.9	1.80	565	3.17	0.18
I675776		0.49	132.5	1.99	4.82	0.07	0.19	0.10	0.013	0.10	4.1	16.7	0.72	172	0.97	0.09

Comments: ***Corrected copy with sample ID prefix 16 corrected to I6***

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUN-2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12124027

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
I675751		0.18	15.5	900	2.4	3.4	<0.001	0.01	1.08	5.8	<0.2	0.2	75.4	<0.01	0.01	1.1
I675752		0.41	20.0	1180	2.0	3.4	<0.001	0.01	0.96	3.3	<0.2	0.2	17.8	<0.01	0.01	1.6
I675753		0.16	17.7	870	1.5	11.1	0.001	0.09	0.37	4.3	1.1	0.2	106.5	<0.01	0.02	0.7
I675754		0.21	11.7	1400	2.0	12.4	<0.001	0.02	0.31	5.8	0.3	0.3	114.5	<0.01	0.01	1.3
I675755		0.20	10.3	920	3.1	7.9	<0.001	0.04	0.52	5.9	2.5	0.2	111.0	<0.01	0.05	0.5
I675756		0.38	14.4	980	2.0	11.6	<0.001	0.02	0.32	3.5	1.9	0.3	129.5	<0.01	0.03	1.2
I675757		0.21	8.4	970	3.3	7.3	<0.001	0.02	0.74	5.9	1.2	0.2	58.0	<0.01	0.02	0.8
I675758		0.21	3.3	700	2.7	5.6	<0.001	0.01	0.23	4.0	<0.2	0.2	197.0	<0.01	<0.01	1.2
I675759		0.17	6.1	970	4.7	11.3	<0.001	0.03	0.19	6.6	1.8	0.2	113.0	<0.01	0.02	0.7
I675760		0.12	3.5	880	2.1	8.1	0.001	0.02	0.14	5.6	1.7	0.2	111.5	<0.01	<0.01	0.5
I675761		0.12	12.2	910	2.2	4.0	<0.001	0.30	0.23	3.6	2.8	0.2	81.6	<0.01	0.07	0.5
I675762		0.16	63.6	1260	2.8	1.5	0.001	0.03	0.16	7.8	0.8	0.4	31.4	<0.01	0.01	0.7
I675763		0.19	17.1	1340	2.6	2.8	<0.001	0.02	0.18	7.1	1.6	0.3	58.1	<0.01	<0.01	0.4
I675764		0.25	19.1	1060	2.1	3.9	<0.001	0.04	0.14	3.6	0.5	0.3	86.1	<0.01	0.04	0.7
I675765		0.13	27.9	1180	2.6	1.6	0.006	0.02	0.15	9.7	0.4	0.4	38.6	<0.01	0.01	0.7
I675766		0.20	57.6	1790	3.4	6.5	0.001	0.03	0.13	4.1	1.1	0.4	274	<0.01	0.02	1.0
I675767		0.23	37.3	1120	3.0	1.8	0.001	0.03	0.09	3.7	<0.2	0.3	46.3	<0.01	<0.01	0.6
I675768		0.19	55.8	2230	2.1	5.6	<0.001	0.02	0.14	4.2	1.5	0.3	1425	<0.01	0.01	1.2
I675769		0.24	82.4	1890	1.9	9.7	<0.001	0.03	0.13	2.5	0.5	0.2	78.9	<0.01	0.02	1.0
I675770		0.30	28.7	1120	3.8	1.5	0.020	2.70	0.33	3.0	9.9	0.8	168.5	<0.01	0.33	0.7
I675771		0.25	13.3	1620	1.8	4.7	0.024	1.55	0.05	2.7	4.4	0.4	135.0	<0.01	0.06	0.6
I675771_PD		0.25	12.7	1630	2.0	4.8	0.025	1.55	0.05	2.8	4.5	0.4	137.0	<0.01	0.06	0.6
I675772		0.26	9.4	940	1.9	6.0	0.004	0.17	0.12	4.7	0.9	0.3	69.7	<0.01	0.01	0.5
I675772_CD		0.23	8.8	930	2.0	5.6	0.003	0.18	0.12	4.6	1.5	0.2	64.4	<0.01	0.01	0.5
I675773		0.15	56.4	1190	3.6	29.6	0.004	0.06	0.27	9.5	<0.2	0.4	87.1	<0.01	0.05	0.5
I675774		0.19	43.8	1390	8.1	8.2	0.005	0.10	0.26	13.0	<0.2	1.2	131.5	<0.01	0.04	0.4
I675775		0.25	15.3	2290	5.5	33.3	0.013	0.12	0.07	6.7	1.5	0.4	208	<0.01	0.01	0.5
I675776		0.19	8.9	1000	3.1	3.8	0.011	0.36	0.13	4.4	3.1	0.3	49.8	<0.01	0.01	0.6

Comments: ***Corrected copy with sample ID prefix 16 corrected to I6***

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUN-2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12124027

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
I675751		0.123	<0.02	0.33	125	0.28	7.56	23	5.7
I675752		0.232	<0.02	0.28	221	0.44	10.75	22	3.0
I675753		0.200	0.03	0.24	144	0.14	6.55	18	3.2
I675754		0.215	0.03	0.48	233	0.38	9.54	41	6.9
I675755		0.149	0.02	0.22	174	0.41	7.50	28	3.6
I675756		0.225	0.03	0.32	127	0.16	6.51	24	5.0
I675757		0.141	0.02	0.31	122	0.46	7.01	34	3.8
I675758		0.115	<0.02	0.27	60	0.51	7.56	19	4.8
I675759		0.170	0.03	0.33	158	0.24	7.99	33	3.4
I675760		0.114	0.02	0.35	120	0.23	7.74	17	3.9
I675761		0.100	0.02	0.35	128	0.20	5.27	19	2.6
I675762		0.130	<0.02	0.37	86	0.33	8.18	36	5.5
I675763		0.147	<0.02	0.25	92	0.26	6.94	16	5.8
I675764		0.150	0.02	0.27	118	0.38	8.55	14	5.8
I675765		0.143	<0.02	0.33	137	0.34	8.48	25	6.2
I675766		0.142	0.03	0.64	104	0.20	6.33	26	5.8
I675767		0.132	<0.02	0.25	62	0.25	7.24	25	5.4
I675768		0.109	0.02	0.33	113	0.24	5.77	23	4.7
I675769		0.230	0.03	0.50	196	0.12	6.38	23	3.5
I675770		0.154	0.02	0.80	59	0.32	4.50	13	7.4
I675771		0.194	0.02	0.38	126	0.29	8.31	13	4.7
I675771_PD		0.191	0.02	0.39	126	0.32	8.21	13	4.6
I675772		0.164	0.02	0.28	122	0.10	7.13	17	2.9
I675772_CD		0.154	0.02	0.29	120	0.09	6.62	16	2.6
I675773		0.208	0.10	0.50	162	0.21	9.27	53	9.9
I675774		0.145	0.03	1.11	160	0.20	10.30	48	8.0
I675775		0.367	0.09	0.44	327	0.09	8.91	55	3.3
I675776		0.105	<0.02	0.35	62	0.17	7.52	16	4.1

Comments: ***Corrected copy with sample ID prefix 16 corrected to I6***

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUN-2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12124027

Method	CERTIFICATE COMMENTS
ME-MS41	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

CERTIFICATE VA12136963

Project: RedGold

P.O. No.: RG-2012-002r

This report is for 28 Rock samples submitted to our lab in Vancouver, BC, Canada on 18-JUN-2012.

The following have access to data associated with this certificate:

ELEANOR BLACK	JACQUELINE BLACKWELL	NATE BREWER
MATT ECKFELDT	JULIANNE MADSEN	AMELIA RAINBOW
ROSS SHERLOCK	TWILA SKINNER	TIM STUBLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	51 anal. aqua regia ICPMS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12136963

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
I675777		1.30	0.023	0.22	2.05	3.9	<0.2	<10	80	0.15	0.03	1.35	0.07	4.86	14.5	124
I675778		1.54	0.056	0.11	2.79	7.4	<0.2	10	100	0.22	0.02	2.14	0.27	6.78	17.0	272
I675779		1.40	0.083	0.40	3.26	7.6	<0.2	10	120	0.31	0.02	3.46	0.21	8.00	16.4	210
I675780		1.40	0.005	0.07	2.47	4.8	<0.2	<10	70	0.14	0.02	2.01	0.14	3.93	19.4	245
I675781		1.78	0.011	0.03	2.50	5.9	<0.2	<10	70	0.20	0.03	2.21	0.12	3.74	12.6	199
I675782		1.96	0.459	0.46	3.99	11.5	0.2	10	100	0.27	0.05	2.28	0.35	7.67	83.9	219
I675783		1.94	0.162	0.35	3.16	5.6	<0.2	10	160	0.31	0.02	3.08	0.30	9.59	59.8	282
I675785		1.40	0.006	0.03	2.40	7.3	<0.2	10	70	0.44	0.02	2.68	0.10	6.49	16.6	214
I675801		1.98	0.125	0.84	3.25	28.1	<0.2	10	10	0.24	0.39	3.02	0.25	8.47	81.4	96
I675802		2.10	0.004	0.03	1.07	15.2	<0.2	<10	50	0.17	0.01	1.26	0.05	8.11	5.7	81
I675803		2.74	0.058	0.19	3.48	50.7	<0.2	30	50	0.37	0.27	3.45	0.11	7.18	10.1	136
I675804		1.78	0.142	0.22	4.73	9.2	<0.2	10	40	0.25	0.06	3.71	0.13	10.45	10.2	200
I675805		2.88	0.002	0.02	2.49	3.1	<0.2	10	60	0.44	0.01	2.65	0.10	11.95	6.7	139
I675806		3.42	0.054	0.58	2.53	3.3	<0.2	10	100	0.47	0.01	3.27	0.15	15.70	8.0	148
I675807		1.68	0.004	0.04	2.90	5.7	<0.2	10	350	0.26	0.01	2.52	0.05	6.42	14.5	92
I675808		1.88	0.002	0.02	3.30	1.7	<0.2	<10	70	0.47	0.01	2.94	0.03	10.45	1.1	16
I675809		0.90	0.012	0.08	1.80	2.1	<0.2	<10	80	0.19	0.07	2.00	0.14	15.45	11.7	22
I675810		1.56	0.003	0.04	1.76	0.6	<0.2	<10	50	0.13	0.01	1.55	0.05	12.60	8.8	116
I675811		1.40	0.006	0.03	2.39	2.0	<0.2	10	70	0.60	0.01	2.23	0.05	11.95	8.9	19
I675812		2.84	0.003	0.07	2.77	1.1	<0.2	20	40	1.04	0.01	2.48	0.04	11.85	27.0	29
I675813		1.30	0.002	0.06	3.62	4.6	<0.2	20	60	0.34	0.03	2.55	0.14	16.25	21.0	5
I675814		2.50	0.224	0.22	2.02	7.5	<0.2	10	90	0.22	0.29	1.72	0.28	8.51	40.0	234
I675815		3.02	0.043	0.25	2.44	6.4	<0.2	10	80	0.23	0.02	2.49	0.12	6.21	18.6	157
I675816		1.28	0.035	0.04	1.75	5.8	<0.2	10	70	0.48	0.01	1.60	0.07	9.02	18.8	36
I675817		1.74	0.167	0.46	2.50	13.2	0.2	10	170	0.17	0.47	1.63	0.14	5.42	28.4	227
I675818		2.58	0.012	0.12	2.42	3.9	<0.2	10	140	0.22	0.01	1.84	0.09	15.65	21.2	22
I675819		2.30	0.042	0.23	2.61	7.2	<0.2	10	130	0.58	0.01	2.61	0.11	13.20	21.0	14
I675820		2.24	0.035	0.10	2.73	7.2	<0.2	10	150	0.54	0.01	2.51	0.11	14.40	15.9	11

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12136963

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
I675777		1.57	360	3.21	5.68	0.08	0.20	0.02	0.013	0.84	2.2	8.6	1.99	418	0.26	0.17
I675778		2.80	82.4	4.41	8.11	0.16	0.38	0.09	0.013	0.47	3.2	19.2	1.64	773	1.90	0.21
I675779		0.26	359	3.47	7.95	0.12	0.28	0.65	0.020	0.12	3.9	6.0	0.47	479	0.27	0.26
I675780		1.96	40.8	3.77	6.12	0.17	0.19	0.02	0.015	0.56	1.8	16.7	2.37	758	0.21	0.12
I675781		0.99	36.5	3.32	7.15	0.22	0.34	0.02	0.014	0.46	1.9	19.6	1.97	956	0.17	0.10
I675782		16.10	491	4.16	8.96	0.18	0.37	0.64	0.011	0.56	3.6	20.5	1.60	645	0.65	1.14
I675783		0.69	508	4.17	9.45	0.18	0.37	0.12	0.010	0.18	4.7	17.8	1.45	742	2.46	0.11
I675785		0.28	41.7	3.51	9.54	0.23	0.46	0.01	0.017	0.11	2.9	18.1	1.79	851	0.39	0.09
I675801		0.52	855	9.52	8.77	0.34	0.35	1.25	0.034	0.05	4.5	11.4	0.67	971	11.40	0.30
I675802		0.39	8.2	3.01	5.31	0.11	0.27	0.92	0.009	0.14	3.7	4.7	0.50	274	0.31	0.11
I675803		0.58	143.0	2.73	10.65	0.14	0.42	0.30	0.023	0.12	3.2	7.4	0.54	339	78.1	0.31
I675804		0.40	181.0	5.51	11.45	0.19	0.28	0.15	0.014	0.06	7.1	8.2	0.42	405	31.7	0.64
I675805		0.18	4.9	2.87	10.30	0.23	0.40	0.03	0.029	0.09	5.3	8.2	1.13	401	0.24	0.09
I675806		0.26	505	2.93	10.60	0.20	0.34	0.11	0.016	0.12	7.7	8.5	0.83	449	1.19	0.10
I675807		0.69	3.7	5.33	10.70	0.22	0.25	0.09	0.013	0.44	3.0	18.1	1.54	613	0.33	0.12
I675808		0.24	4.0	1.81	8.96	0.11	0.16	0.58	0.005	0.08	4.9	3.4	0.45	253	0.18	0.47
I675809		0.13	103.5	3.70	7.50	0.17	0.51	0.02	0.016	0.17	7.2	2.1	0.54	367	1.32	0.23
I675810		0.31	3.7	3.18	7.46	0.13	0.18	0.01	0.012	0.11	6.2	10.5	0.70	355	0.20	0.18
I675811		0.26	27.7	5.20	9.94	0.23	0.23	0.04	0.012	0.12	5.9	15.2	1.15	724	0.27	0.07
I675812		0.93	152.0	5.58	11.35	0.32	0.35	<0.01	0.021	0.19	6.0	9.1	0.99	993	1.00	0.73
I675813		1.84	75.8	5.58	14.80	0.32	0.70	0.03	0.042	0.16	7.7	9.4	1.42	1020	0.75	0.42
I675814		3.47	16.9	5.92	6.18	0.17	0.33	4.34	0.011	0.35	4.1	9.3	1.26	409	1.44	0.14
I675815		1.45	446	2.73	6.56	0.15	0.18	0.11	0.009	0.30	3.0	15.7	1.72	606	0.58	0.16
I675816		0.40	3.0	3.18	7.85	0.17	0.29	<0.01	0.008	0.09	3.9	17.3	1.20	377	0.60	0.08
I675817		6.80	75.7	3.74	6.99	0.15	0.45	0.85	0.007	0.41	2.6	17.0	1.20	550	1.78	0.32
I675818		1.25	144.5	5.77	9.92	0.18	0.21	0.13	0.017	0.46	7.8	11.1	1.04	606	1.19	0.21
I675819		0.64	237	4.94	12.20	0.25	0.29	0.18	0.017	0.39	6.6	12.2	1.09	525	0.98	0.12
I675820		0.75	135.0	4.87	11.15	0.23	0.20	0.13	0.015	0.34	7.1	11.6	0.96	727	2.76	0.11

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12136963

Sample Description	Method / Analyte / Units / LOR	ME-MS41 Nb ppm 0.05	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2
I675777		0.06	121.5	1050	1.4	31.2	<0.001	0.01	0.28	5.1	0.6	0.2	86.9	<0.01	0.07	0.3
I675778		0.14	132.5	1760	6.2	29.5	0.003	0.15	0.24	4.0	0.5	0.2	122.0	<0.01	0.10	0.7
I675779		0.10	70.5	1960	6.4	3.9	<0.001	0.09	0.15	4.9	0.4	0.3	397	<0.01	0.05	1.1
I675780		0.07	151.5	1090	6.7	26.5	<0.001	0.02	0.44	7.0	0.3	0.2	70.3	<0.01	0.02	0.2
I675781		0.09	75.4	1120	7.4	23.6	<0.001	0.06	0.48	8.8	0.4	0.2	89.0	<0.01	0.03	0.2
I675782		0.15	138.5	1940	14.3	35.6	0.001	0.89	0.33	4.5	1.1	0.3	255	<0.01	0.31	0.8
I675783		0.12	123.0	1890	8.6	9.6	0.004	0.22	0.17	3.8	1.2	0.3	224	<0.01	0.12	0.9
I675785		0.16	98.4	1730	1.8	4.5	<0.001	0.03	0.42	7.9	0.4	0.3	104.0	<0.01	0.05	0.5
I675801		0.27	37.2	1570	8.0	2.0	0.055	3.75	0.35	6.4	1.9	0.5	320	0.01	0.46	0.6
I675802		0.16	31.7	1140	1.2	5.8	<0.001	0.03	0.22	3.9	0.4	0.3	50.4	<0.01	0.01	0.6
I675803		0.27	61.1	1760	3.8	5.8	0.115	0.57	0.21	5.4	1.0	0.4	245	0.01	0.10	0.8
I675804		0.17	120.5	2060	2.6	2.7	0.030	0.47	0.16	2.8	0.6	0.4	442	<0.01	0.08	1.0
I675805		0.10	29.0	1210	2.8	3.0	<0.001	0.02	0.09	7.7	0.4	0.5	92.3	<0.01	<0.01	0.8
I675806		0.15	46.2	1200	3.2	4.5	0.001	0.04	0.11	8.0	0.6	0.4	130.0	<0.01	0.05	0.9
I675807		0.13	45.8	1440	2.8	17.0	<0.001	0.02	0.13	7.3	0.3	0.3	218	<0.01	0.03	0.6
I675808		0.11	9.0	2020	1.2	2.4	<0.001	0.02	0.16	3.2	0.3	0.2	649	<0.01	0.04	0.9
I675809		0.40	9.8	1590	6.5	3.4	0.004	0.30	0.11	6.0	1.0	0.6	124.5	0.01	0.02	1.0
I675810		0.18	37.1	1200	1.2	6.0	<0.001	0.02	0.06	3.7	0.3	0.2	123.5	<0.01	<0.01	0.8
I675811		0.15	16.7	2120	2.2	5.1	<0.001	0.03	0.10	7.6	0.4	0.2	86.3	<0.01	0.03	1.0
I675812		0.21	19.4	1880	6.5	8.3	<0.001	0.03	0.06	5.5	0.5	0.4	143.0	0.01	0.01	0.9
I675813		0.21	7.5	1140	4.4	12.1	0.001	0.06	0.11	16.2	0.8	0.6	359	0.01	0.02	1.4
I675814		0.20	81.2	1960	17.1	16.6	<0.001	1.49	0.44	3.3	1.1	0.3	99.1	<0.01	5.19	0.6
I675815		0.09	103.5	1180	10.1	12.6	<0.001	0.06	0.36	6.1	0.7	0.2	177.0	<0.01	0.12	0.3
I675816		0.20	20.7	1840	2.0	3.8	<0.001	0.12	0.25	5.0	0.5	0.3	108.0	<0.01	0.18	0.4
I675817		0.19	109.5	2040	16.7	30.5	<0.001	1.69	0.42	3.8	1.9	0.3	288	<0.01	1.99	0.7
I675818		0.19	19.3	2260	3.4	22.9	<0.001	0.03	0.09	3.7	0.5	0.4	180.5	<0.01	0.01	1.5
I675819		0.24	16.5	1700	3.0	19.1	0.002	0.03	0.12	5.9	0.6	0.4	150.5	0.01	0.03	1.6
I675820		0.24	13.0	1930	4.0	18.8	0.007	0.04	0.16	5.6	0.5	0.3	148.0	0.01	0.03	1.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12136963

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
I675777		0.200	0.20	0.16	75	0.25	7.75	89	4.4
I675778		0.205	0.10	0.41	137	0.45	5.23	99	12.3
I675779		0.099	<0.02	0.66	121	0.21	5.90	59	11.5
I675780		0.201	0.14	0.17	118	0.26	5.13	76	5.7
I675781		0.196	0.11	0.28	115	0.55	7.02	67	11.1
I675782		0.195	0.11	0.42	127	0.34	6.46	111	10.6
I675783		0.177	0.04	0.65	134	0.40	6.14	98	13.1
I675785		0.215	0.02	0.36	115	0.48	7.09	63	13.7
I675801		0.121	0.02	0.89	114	0.51	10.40	81	9.2
I675802		0.172	0.02	0.24	117	0.22	7.45	19	6.4
I675803		0.202	0.03	0.56	96	0.55	9.40	21	11.5
I675804		0.134	0.02	0.65	155	0.20	6.66	46	8.1
I675805		0.140	<0.02	0.42	104	0.42	10.40	25	12.5
I675806		0.144	<0.02	0.43	130	0.42	10.00	41	9.5
I675807		0.238	0.05	0.28	236	0.30	5.76	44	7.6
I675808		0.113	<0.02	0.34	168	0.10	8.39	12	4.5
I675809		0.257	<0.02	0.46	140	0.53	15.70	40	12.6
I675810		0.187	0.02	0.30	124	0.20	7.30	26	4.4
I675811		0.135	0.02	0.36	218	0.29	9.18	31	5.8
I675812		0.245	<0.02	0.43	235	0.31	10.90	86	16.2
I675813		0.325	0.04	0.76	255	0.18	15.10	82	27.0
I675814		0.173	0.09	0.39	101	0.53	5.11	50	10.7
I675815		0.155	0.06	0.34	88	0.27	6.91	51	5.8
I675816		0.192	<0.02	0.31	109	0.78	8.71	37	7.3
I675817		0.187	0.11	0.40	95	0.59	6.34	55	16.1
I675818		0.255	0.04	0.69	275	0.17	10.50	71	6.7
I675819		0.223	0.03	0.89	209	0.35	10.40	49	8.0
I675820		0.218	0.03	0.60	192	0.18	10.60	46	6.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 22-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12136963

Method	CERTIFICATE COMMENTS
ME-MS41	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 28-JUN-2012
Account: GOFICA

CERTIFICATE VA12143292

Project: RedGold

P.O. No.: RG-2012-003r

This report is for 21 Rock samples submitted to our lab in Vancouver, BC, Canada on 22-JUN-2012.

The following have access to data associated with this certificate:

ELEANOR BLACK	JACQUELINE BLACKWELL	NATE BREWER
MATT ECKFELDT	JULIANNE MADSEN	AMELIA RAINBOW
ROSS SHERLOCK	TWILA SKINNER	TIM STUBLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
SPL-34	Pulp Splitting Charge
CRU-31	Fine crushing - 70% <2mm
LOG-22d	Sample login - Rcd w/o BarCode dup
PUL-31d	Pulverize Split - duplicate
SPL-21d	Split sample - duplicate
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	51 anal. aqua regia ICPMS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 28-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12143292

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
I675821		2.44	0.223	0.78	4.59	25.6	0.2	30	20	0.75	0.02	5.79	0.13	9.12	14.6	265
I675822		2.46	0.001	0.06	3.14	4.5	<0.2	<10	70	0.63	0.01	2.61	0.05	27.0	17.0	27
I675823		2.56	0.002	0.04	2.76	8.7	<0.2	10	170	0.42	0.01	1.98	0.08	18.10	13.2	4
I675824		2.30	0.008	0.09	2.36	11.1	<0.2	10	40	0.40	0.01	3.07	0.03	9.06	14.5	279
I675825		1.92	0.021	0.15	3.56	25.2	<0.2	<10	130	0.34	0.26	1.43	0.14	14.05	15.8	19
I675826		1.94	0.186	0.39	0.84	4.4	0.2	<10	60	0.09	0.60	0.94	0.03	9.17	38.8	94
I675827		2.72	0.028	0.03	0.64	1.7	<0.2	<10	50	0.11	0.12	0.81	0.03	4.49	9.7	91
I675828		1.96	0.005	0.05	1.96	7.4	<0.2	10	50	0.53	0.04	2.55	0.25	11.45	13.8	191
I675829		2.04	0.003	0.04	1.88	5.0	<0.2	10	70	0.48	0.01	3.63	0.08	9.74	12.9	296
I675830		0.86	0.006	0.24	2.44	1.9	<0.2	<10	90	0.25	0.04	2.35	0.13	11.90	23.7	265
I675831		2.18	0.005	0.20	1.96	3.1	<0.2	<10	70	0.38	0.10	2.38	0.06	10.75	18.7	257
I675832		2.84	0.293	1.08	2.11	11.7	0.3	<10	30	0.36	0.03	3.47	0.58	6.57	27.2	118
I675833		2.16	0.004	0.06	2.61	10.1	<0.2	20	80	0.54	0.01	2.69	0.06	8.07	13.5	37
I675834		2.72	0.007	0.02	1.82	6.5	<0.2	10	70	0.36	0.01	1.79	0.03	6.56	7.0	11
I675835		2.12	0.004	0.12	2.74	2.1	<0.2	<10	60	0.40	0.01	2.58	0.36	10.45	27.3	268
I675836		1.04	0.038	0.22	4.99	0.8	<0.2	<10	330	0.12	0.01	2.74	0.09	2.95	50.9	234
I675837		2.14	0.002	0.23	4.60	5.3	<0.2	<10	220	0.45	0.01	2.96	0.36	14.60	24.6	273
I675837_PD		<0.02	0.002	0.22	4.52	5.4	<0.2	<10	220	0.43	0.01	2.92	0.36	14.45	24.4	273
I675838		1.04	0.052	0.20	4.45	4.8	<0.2	<10	180	0.34	0.01	3.94	0.11	9.70	18.2	186
I675838_CD		<0.02	0.080	0.19	4.46	5.1	<0.2	10	180	0.32	0.01	3.98	0.12	10.00	19.4	194
I675784		2.86	0.001	0.07	2.12	3.4	<0.2	<10	40	0.30	0.01	5.01	0.03	13.60	29.3	254

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 28-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12143292

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
I675821		0.08	757	6.54	15.65	0.29	0.42	0.04	0.076	0.03	4.2	12.2	1.45	897	1.25	0.07
I675822		1.30	94.7	4.74	14.75	0.29	0.49	<0.01	0.036	0.18	15.1	16.5	1.96	860	0.51	1.28
I675823		0.38	23.2	5.39	11.70	0.30	0.73	<0.01	0.045	0.24	8.2	8.7	0.65	839	0.71	0.11
I675824		6.63	192.0	3.64	6.81	0.15	0.37	0.05	0.008	0.14	4.0	18.5	1.60	881	0.80	0.28
I675825		1.48	110.0	4.84	10.95	0.18	0.24	0.04	0.023	0.64	5.8	10.9	1.62	313	4.45	0.36
I675826		0.07	66.2	4.08	4.24	0.15	0.24	1.02	0.005	0.10	4.3	2.6	1.14	208	9.20	0.06
I675827		0.10	7.2	1.82	2.43	0.09	0.18	0.10	0.006	0.08	2.0	2.5	0.67	354	7.59	0.03
I675828		0.74	120.5	3.06	6.36	0.16	0.34	0.04	0.009	0.08	5.5	23.2	1.39	984	0.84	0.07
I675829		0.36	56.2	3.52	7.55	0.12	0.35	0.01	0.007	0.16	4.5	12.1	1.02	752	0.36	0.07
I675830		0.33	363	4.60	10.20	0.18	0.51	0.03	0.009	0.10	4.9	14.9	2.87	873	0.67	0.09
I675831		0.30	199.0	4.00	8.08	0.17	0.39	0.03	0.008	0.10	4.6	12.5	2.25	695	0.54	0.09
I675832		<0.05	2090	2.09	5.93	0.18	0.24	0.29	0.008	0.08	3.2	8.0	0.67	468	4.88	0.02
I675833		0.19	37.7	5.06	9.84	0.22	0.49	0.02	0.020	0.13	3.6	15.6	1.84	601	1.43	0.15
I675834		0.64	9.3	4.23	8.64	0.16	0.25	0.33	0.007	0.12	3.2	10.0	0.84	438	0.40	0.10
I675835		0.39	106.5	4.58	10.15	0.18	0.39	0.01	0.007	0.07	4.8	22.3	3.20	941	0.46	0.04
I675836		0.84	950	6.14	10.65	0.16	0.07	0.01	0.016	1.03	1.5	10.6	1.75	347	0.96	0.37
I675837		0.27	123.5	4.88	11.40	0.16	0.22	1.13	0.007	0.12	7.5	16.2	1.56	1270	0.41	0.59
I675837_PD		0.26	121.5	4.84	11.10	0.15	0.22	1.12	0.007	0.12	7.3	16.0	1.54	1290	0.38	0.58
I675838		0.38	181.0	4.07	9.91	0.12	0.27	0.25	0.026	0.14	4.6	3.1	0.25	264	0.25	0.45
I675838_CD		0.38	192.0	4.04	10.00	0.11	0.27	0.25	0.026	0.16	4.8	3.0	0.25	267	0.26	0.46
I675784		1.34	237	4.35	9.12	0.18	0.47	0.05	0.011	0.10	6.0	16.3	2.07	734	0.53	0.09

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 28-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12143292

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
I675821		0.18	91.1	2360	7.7	1.4	<0.001	0.07	0.39	9.4	2.7	0.7	97.4	<0.01	0.03	1.2
I675822		0.33	10.9	1660	4.1	3.8	<0.001	0.06	0.11	14.4	0.6	0.6	67.6	0.01	<0.01	2.2
I675823		0.22	3.0	970	4.3	5.8	<0.001	0.01	0.27	12.2	0.7	0.6	110.5	0.01	0.01	1.4
I675824		0.19	87.2	2010	2.4	6.8	<0.001	0.02	0.48	4.7	0.4	0.3	123.5	<0.01	0.05	0.9
I675825		0.28	15.5	1090	4.8	27.7	0.009	1.68	0.16	12.9	3.5	0.6	115.5	<0.01	0.44	1.6
I675826		0.19	55.6	1270	9.7	2.0	0.023	2.02	0.26	4.8	2.1	0.3	31.0	<0.01	3.69	0.6
I675827		0.21	26.4	770	0.8	3.2	0.007	0.03	0.20	5.3	0.5	0.3	27.8	<0.01	0.82	0.4
I675828		0.24	67.1	2140	32.3	4.0	<0.001	0.02	1.71	3.7	0.4	0.4	140.5	<0.01	0.14	0.8
I675829		0.21	74.9	1970	2.6	7.2	<0.001	0.01	0.27	4.4	0.4	0.3	69.2	<0.01	0.02	0.8
I675830		0.19	108.0	1730	2.9	4.2	<0.001	0.01	0.17	3.9	0.4	0.4	105.0	<0.01	0.01	0.9
I675831		0.19	93.8	1660	2.4	4.5	<0.001	0.01	0.44	3.7	0.4	0.4	88.3	<0.01	<0.01	1.2
I675832		0.18	49.9	2950	22.5	1.6	<0.001	0.24	0.77	3.8	0.7	0.3	251	<0.01	0.06	0.6
I675833		0.18	21.2	1490	5.0	3.2	<0.001	0.03	0.32	13.1	0.6	0.4	71.2	<0.01	0.01	0.7
I675834		0.12	5.2	1030	1.8	4.6	0.001	0.01	0.14	4.1	0.4	0.3	51.4	<0.01	<0.01	0.4
I675835		0.18	118.5	1810	14.8	4.9	<0.001	0.01	0.14	3.7	0.4	0.3	64.6	<0.01	<0.01	0.7
I675836		0.15	75.1	530	4.4	31.8	0.012	0.82	0.05	6.1	2.5	0.3	536	<0.01	0.01	0.3
I675837		0.15	106.0	1950	30.9	4.1	0.002	0.47	0.06	3.9	0.8	0.2	651	<0.01	0.02	1.1
I675837_PD		0.15	106.0	1950	30.3	4.0	0.001	0.46	0.06	3.8	0.8	0.2	644	<0.01	0.03	1.1
I675838		0.13	45.1	2170	2.0	4.2	<0.001	0.05	0.10	4.4	0.4	0.3	482	<0.01	0.04	0.9
I675838_CD		0.14	44.7	2140	2.1	4.6	<0.001	0.05	0.11	4.7	0.4	0.4	485	<0.01	0.04	1.0
I675784		0.21	146.5	1560	2.8	5.5	<0.001	0.01	0.24	5.6	0.4	0.4	84.9	<0.01	0.01	1.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 28-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12143292

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
I675821		0.193	<0.02	1.22	215	0.78	8.39	54	17.3
I675822		0.332	0.02	1.34	236	0.24	12.15	65	27.1
I675823		0.305	0.04	0.78	186	0.12	17.80	79	29.7
I675824		0.207	0.03	0.71	116	0.63	7.13	63	15.9
I675825		0.214	0.60	0.94	163	0.43	14.80	48	6.7
I675826		0.182	<0.02	0.29	72	2.59	7.18	28	6.7
I675827		0.177	0.02	0.22	52	0.81	4.56	24	5.5
I675828		0.165	0.02	0.67	90	0.64	6.49	71	12.1
I675829		0.190	0.02	0.66	129	0.24	6.72	44	12.3
I675830		0.216	<0.02	0.95	172	0.27	8.09	72	21.3
I675831		0.223	<0.02	0.94	144	0.30	8.33	58	19.9
I675832		0.180	<0.02	1.14	83	0.75	5.59	130	9.3
I675833		0.284	<0.02	0.46	155	0.26	11.75	38	16.8
I675834		0.163	0.02	0.30	105	0.23	8.85	24	7.1
I675835		0.213	<0.02	0.65	149	0.18	6.64	151	13.9
I675836		0.312	0.08	0.13	227	0.07	1.95	51	3.6
I675837		0.133	<0.02	0.51	142	0.12	6.17	180	11.1
I675837_PD		0.135	<0.02	0.49	142	0.13	6.06	180	11.2
I675838		0.114	<0.02	0.51	135	0.16	5.71	37	11.3
I675838_CD		0.129	<0.02	0.55	138	0.17	6.13	37	11.2
I675784		0.239	<0.02	1.00	174	0.35	8.03	72	23.1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 28-JUN-2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12143292

Method	CERTIFICATE COMMENTS
ME-MS41	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUL-2012
Account: GOFICA

CERTIFICATE VA12154514

Project: REDGOLD

P.O. No.: RG-2012-004r

This report is for 61 Rock samples submitted to our lab in Vancouver, BC, Canada on 4-JUL-2012.

The following have access to data associated with this certificate:

ELEANOR BLACK	JACQUELINE BLACKWELL	NATE BREWER
MATT ECKFELDT	JULIANNE MADSEN	AMELIA RAINBOW
ROSS SHERLOCK	TWILA SKINNER	TIM STUBLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
SPL-34	Pulp Splitting Charge
CRU-31	Fine crushing - 70% <2mm
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	51 anal. aqua regia ICPMS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUL-2012
Account: GOFICA

Project: REDGOLD

CERTIFICATE OF ANALYSIS VA12154514

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
I675786		2.56	0.067	0.20	1.75	17.6	<0.2	<10	110	0.49	0.07	1.88	0.06	14.80	12.8	9
I675787		2.00	0.029	0.07	1.37	6.5	<0.2	<10	270	0.29	0.04	1.23	0.03	12.25	10.8	112
I675788		1.32	0.042	0.23	1.68	19.2	<0.2	<10	50	0.40	0.02	1.06	0.11	14.15	16.7	150
I675789		1.76	0.019	0.07	2.06	8.4	<0.2	10	80	0.43	0.03	2.07	0.05	13.05	9.5	246
I675790		2.26	0.049	0.09	2.18	5.9	<0.2	10	440	0.26	0.05	1.54	0.12	12.90	23.5	14
I675791		2.14	0.006	0.07	1.68	11.8	<0.2	<10	80	0.31	0.03	1.67	0.09	7.31	3.8	7
I675792		1.08	0.082	0.19	1.94	10.0	0.8	<10	150	0.40	0.05	1.29	0.08	8.60	15.1	10
I675793		1.56	0.104	0.19	1.38	15.6	<0.2	<10	50	0.44	0.03	1.46	0.03	10.80	6.0	12
I675794		2.42	0.090	0.22	1.08	13.7	<0.2	<10	40	0.39	0.03	1.04	0.05	11.10	9.0	8
I675795		1.82	0.037	0.11	1.45	18.6	<0.2	<10	50	0.49	0.03	1.43	0.03	10.85	8.9	9
I675796		1.40	0.069	0.42	3.13	27.1	<0.2	10	110	0.26	0.10	1.77	0.08	10.05	34.5	39
I675797		1.40	0.196	0.31	1.10	11.8	<0.2	<10	360	0.30	0.03	1.23	0.10	12.10	5.1	18
I675798		1.64	0.178	0.24	1.90	6.1	<0.2	<10	50	0.56	0.33	1.25	0.18	11.40	10.7	6
I675799		2.00	0.083	0.21	1.02	5.3	<0.2	<10	60	0.31	0.07	0.54	0.02	11.70	5.4	15
I675800		2.58	0.025	0.27	2.91	4.3	<0.2	<10	110	0.28	0.04	2.57	0.13	5.46	15.7	260
I675839		1.78	0.002	0.02	0.50	1.9	<0.2	<10	20	0.10	0.02	0.75	0.02	6.93	4.0	12
I675840		2.00	0.048	0.15	0.64	2.7	0.2	<10	50	0.29	0.02	0.97	0.08	12.00	3.9	4
I675841		2.60	0.018	0.17	2.82	1.2	<0.2	10	190	0.32	0.03	2.23	0.10	14.00	29.6	45
I675842		1.58	0.007	0.04	1.77	2.4	<0.2	10	50	0.48	0.03	1.54	0.05	12.85	18.4	35
I675843		1.46	0.015	0.09	1.76	1.8	<0.2	<10	80	0.35	0.02	1.52	0.08	17.70	20.8	28
I675844		1.64	0.081	0.04	0.66	2.3	<0.2	<10	40	0.33	0.01	1.12	0.15	14.70	3.9	3
I675845		1.68	0.039	0.04	0.96	2.4	<0.2	<10	60	0.47	0.01	1.05	0.10	13.80	3.9	3
I675846		1.28	0.081	0.08	1.92	3.5	<0.2	<10	80	0.38	0.01	1.80	0.12	21.4	11.2	7
I675847		1.52	0.032	0.11	0.46	1.4	<0.2	<10	60	0.21	0.02	0.40	0.09	6.83	4.7	19
I675848		1.72	0.108	0.13	0.72	3.8	<0.2	<10	50	0.32	0.01	0.78	0.81	15.10	7.3	7
I675849		1.54	0.015	0.13	2.77	8.3	<0.2	<10	80	0.68	0.16	2.20	0.39	20.1	11.3	19
I675901		1.82	0.035	0.07	2.51	6.6	<0.2	10	80	0.29	0.01	1.85	0.15	8.60	18.2	277
I675902		1.22	0.016	0.45	1.59	5.4	<0.2	10	180	0.93	0.09	1.55	0.37	12.65	12.2	4
I675902_PD		<0.02	0.017	0.47	1.62	5.5	<0.2	10	190	0.93	0.09	1.58	0.39	12.90	12.2	3
I675903		1.94	0.126	0.27	1.81	3.6	<0.2	<10	130	0.31	0.04	1.73	0.15	13.05	12.5	50
I675903_CD		<0.02	0.124	0.25	2.06	4.2	<0.2	<10	130	0.35	0.03	1.93	0.16	12.35	10.7	55
I675904		1.62	0.011	0.29	1.69	17.3	<0.2	<10	50	0.28	0.07	1.44	0.67	13.50	6.9	39
I675905		1.30	0.027	0.13	1.34	2.5	<0.2	<10	40	0.39	0.07	1.43	0.12	13.00	7.1	23
I675906		1.32	0.003	0.43	2.78	10.2	<0.2	10	60	0.37	0.01	2.61	0.05	5.24	8.4	275
I675907		1.44	0.014	0.05	2.08	14.5	<0.2	10	40	0.46	0.13	1.82	0.07	8.69	24.2	302
I675908		1.50	0.100	0.09	2.46	3.1	<0.2	10	50	0.45	0.06	2.64	0.11	13.00	9.1	108
I675909		1.40	0.114	0.33	1.90	2.0	<0.2	<10	50	0.21	0.05	1.89	0.16	10.20	46.7	50
I675910		1.48	0.303	1.31	1.70	1.8	0.2	<10	220	0.10	0.07	1.46	0.08	5.20	20.8	443
I675911		2.70	0.096	0.12	1.84	1.7	<0.2	<10	140	0.09	0.01	1.42	0.05	2.60	32.2	242
I675912		1.42	0.178	0.40	4.64	2.7	0.2	<10	140	0.14	0.04	2.75	0.08	5.93	35.0	280

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUL-2012
Account: GOFICA

Project: REDGOLD

CERTIFICATE OF ANALYSIS VA12154514

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
I675786		0.72	451	4.22	8.11	0.13	0.25	0.12	0.017	0.22	7.6	9.3	0.79	422	0.51	0.09
I675787		0.43	186.5	3.16	6.25	0.08	0.12	0.23	0.005	0.16	6.2	6.4	0.78	201	0.31	0.09
I675788		0.81	258	2.86	8.34	0.10	0.25	0.42	0.018	0.15	5.7	9.7	1.28	485	0.55	0.06
I675789		0.55	211	3.14	6.74	0.09	0.22	0.04	0.008	0.17	6.3	9.4	0.97	295	0.45	0.12
I675790		2.01	191.0	6.12	8.76	0.11	0.14	0.07	0.017	0.74	6.9	18.2	1.46	646	0.30	0.08
I675791		0.92	106.5	1.26	5.74	0.08	0.18	0.23	0.006	0.17	3.7	13.4	0.65	318	0.37	0.10
I675792		0.95	497	3.25	7.81	0.11	0.13	0.06	0.012	0.26	4.3	13.9	1.11	397	0.62	0.11
I675793		0.46	522	3.42	7.02	0.09	0.19	0.10	0.009	0.12	6.1	9.9	0.75	231	0.51	0.09
I675794		0.39	854	2.86	4.99	0.07	0.21	0.20	0.014	0.11	5.6	12.9	0.67	216	0.52	0.08
I675795		0.27	438	2.41	7.42	0.13	0.20	0.52	0.010	0.10	6.0	17.2	1.02	262	0.63	0.09
I675796		3.66	1250	4.26	7.90	0.09	0.10	0.49	0.023	0.15	5.5	29.1	1.25	343	0.66	0.45
I675797		0.40	907	1.94	4.43	0.08	0.15	0.31	0.062	0.19	7.2	4.6	0.43	336	0.44	0.06
I675798		0.22	74.5	4.57	9.24	0.13	0.36	2.13	0.010	0.10	5.3	9.2	1.08	424	2.21	0.08
I675799		0.31	187.0	3.11	6.83	0.07	0.39	0.72	<0.005	0.17	5.5	4.0	0.71	132	1.84	0.09
I675800		2.43	154.5	4.10	7.80	0.15	0.33	0.15	0.012	0.83	2.6	23.8	2.85	1020	0.25	0.14
I675839		<0.05	18.6	0.75	3.43	<0.05	0.16	0.03	0.005	0.01	3.2	2.5	0.45	331	0.34	0.14
I675840		0.38	364	2.74	3.91	0.08	0.27	0.02	0.009	0.13	5.8	4.5	0.35	242	0.64	0.07
I675841		3.45	453	6.55	10.45	0.11	0.29	0.14	0.015	0.62	6.7	9.3	1.53	558	0.67	0.22
I675842		0.71	98.2	5.88	8.03	0.12	0.24	0.03	0.010	0.28	6.3	6.0	0.85	458	0.95	0.07
I675843		1.06	163.0	5.39	8.07	0.13	0.21	0.02	0.015	0.34	9.1	6.1	1.10	602	1.03	0.08
I675844		0.40	184.0	2.62	3.87	0.09	0.17	0.01	<0.005	0.11	8.2	2.4	0.16	213	0.75	0.07
I675845		0.51	152.0	2.55	4.47	0.10	0.12	0.02	0.006	0.15	7.5	3.7	0.11	227	0.49	0.12
I675846		0.86	735	4.38	7.51	0.14	0.11	0.02	0.018	0.25	13.4	11.5	0.58	411	1.09	0.21
I675847		0.17	258	1.78	3.22	0.07	0.24	0.04	0.011	0.19	3.2	1.9	0.24	205	0.57	0.05
I675848		0.37	951	3.47	4.82	0.11	0.17	0.38	0.032	0.16	8.1	3.9	0.34	227	1.72	0.06
I675849		0.75	80.2	3.54	12.90	0.22	0.15	0.03	0.031	0.12	10.8	18.2	0.64	290	3.24	0.21
I675901		1.60	71.9	4.24	8.76	0.12	0.25	0.04	0.006	0.36	4.0	29.1	1.80	740	1.10	0.07
I675902		0.14	5.2	2.39	8.63	0.17	0.33	0.34	0.021	0.15	5.9	6.4	0.52	352	0.88	0.05
I675902_PD		0.15	4.5	2.43	8.75	0.16	0.34	0.36	0.022	0.16	6.0	6.5	0.54	359	0.86	0.06
I675903		1.32	487	4.06	6.43	0.10	0.25	0.29	0.020	0.35	6.1	9.7	0.88	415	0.82	0.10
I675903_CD		2.20	442	4.26	6.77	0.11	0.23	0.26	0.018	0.32	5.8	10.4	0.90	469	0.69	0.13
I675904		1.32	97.6	2.85	8.38	0.09	0.16	0.25	0.011	0.19	6.6	9.4	0.62	264	1.16	0.12
I675905		0.33	125.5	2.58	7.15	0.10	0.17	0.25	0.007	0.13	6.3	5.0	0.36	159	1.52	0.09
I675906		1.33	2.3	4.48	8.13	0.14	0.43	0.07	0.092	0.18	2.5	19.2	1.61	1110	3.59	0.19
I675907		0.06	8.9	6.42	6.58	0.18	0.29	0.06	0.012	0.06	4.0	21.6	1.23	1580	0.29	0.04
I675908		0.28	85.6	3.99	9.59	0.15	0.18	0.23	0.015	0.10	6.7	8.0	0.69	294	0.23	0.10
I675909		0.46	1180	3.50	5.01	0.11	0.26	0.02	0.010	0.10	5.3	10.8	0.27	135	1.97	0.08
I675910		1.85	2990	5.40	6.75	0.11	0.11	0.10	0.017	0.34	2.4	6.4	1.09	413	0.67	0.14
I675911		0.57	312	7.96	8.71	0.14	0.12	0.06	0.017	0.33	1.3	5.3	1.17	350	0.42	0.09
I675912		0.90	949	5.70	10.05	0.13	0.08	0.02	0.020	0.83	2.8	8.9	1.34	326	0.91	0.41

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUL-2012
Account: GOFICA

Project: REDGOLD

CERTIFICATE OF ANALYSIS VA12154514

Sample Description	Method / Analyte / Units / LOR	ME-MS41 Nb ppm 0.05	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2
I675786		0.08	10.5	1510	2.4	9.9	<0.001	0.04	0.20	5.0	0.7	0.4	205	<0.01	0.02	1.0
I675787		0.06	45.0	1110	1.6	7.2	<0.001	0.07	0.18	3.7	0.9	0.2	177.0	<0.01	0.03	1.0
I675788		0.10	85.2	1090	45.4	5.5	<0.001	0.04	0.71	8.4	0.3	0.3	33.8	<0.01	<0.01	0.8
I675789		0.09	84.0	1990	2.0	6.8	<0.001	0.10	0.12	3.0	1.3	0.3	118.5	<0.01	<0.01	1.2
I675790		0.09	16.8	2260	2.7	31.2	<0.001	0.02	0.15	5.5	0.2	0.4	52.4	<0.01	0.03	0.5
I675791		0.08	3.5	490	3.7	5.6	<0.001	0.03	0.18	4.1	<0.2	0.2	62.8	<0.01	<0.01	0.5
I675792		0.09	8.9	930	2.8	10.8	<0.001	0.08	0.15	4.8	0.8	0.2	117.0	<0.01	0.02	0.4
I675793		<0.05	6.1	1110	1.5	4.2	<0.001	0.05	0.27	5.5	0.4	0.2	41.8	<0.01	<0.01	0.7
I675794		0.05	4.2	1010	2.4	3.7	<0.001	0.14	0.41	4.5	1.4	0.2	56.4	<0.01	0.02	0.8
I675795		<0.05	5.6	970	2.2	3.6	<0.001	0.08	0.73	5.1	0.5	0.2	36.2	<0.01	<0.01	0.6
I675796		0.07	27.1	1090	2.7	7.2	0.004	0.44	0.14	5.7	1.1	0.2	332	<0.01	0.02	0.5
I675797		0.12	6.7	580	2.9	4.5	<0.001	0.05	0.12	2.1	1.2	0.7	378	<0.01	0.02	0.8
I675798		0.14	6.6	1750	8.8	3.5	0.002	1.43	0.13	6.1	2.0	0.4	80.4	<0.01	1.07	1.1
I675799		0.31	5.0	1110	1.7	4.9	0.003	0.19	0.35	3.6	2.2	0.2	35.9	<0.01	0.24	0.7
I675800		<0.05	95.2	1110	3.2	26.5	0.001	0.04	0.24	10.7	0.7	0.3	43.9	<0.01	0.03	0.3
I675839		<0.05	2.6	370	0.7	0.4	<0.001	0.02	0.10	3.9	<0.2	0.2	9.3	<0.01	<0.01	5.2
I675840		0.15	2.8	1030	3.3	2.8	<0.001	0.04	0.17	1.1	1.0	0.2	37.0	<0.01	0.02	1.5
I675841		0.13	30.4	2040	4.6	27.3	<0.001	0.04	0.05	5.9	0.9	0.4	174.5	<0.01	<0.01	0.7
I675842		0.14	19.9	1430	3.3	13.3	<0.001	0.02	0.11	3.6	<0.2	0.4	58.1	<0.01	<0.01	1.5
I675843		0.22	19.5	2000	7.5	17.6	0.001	0.01	0.08	3.8	0.4	0.4	58.6	<0.01	<0.01	1.6
I675844		0.22	2.1	970	5.4	3.2	0.001	0.01	0.22	0.6	0.3	<0.2	50.3	<0.01	0.01	2.2
I675845		0.26	2.2	1000	4.7	4.2	<0.001	0.01	0.15	1.3	0.4	<0.2	111.5	0.01	0.01	1.8
I675846		0.45	8.1	2300	4.2	12.4	<0.001	0.03	0.12	3.3	0.7	0.3	211	0.01	0.02	2.3
I675847		0.30	3.9	580	4.4	4.8	<0.001	0.01	0.10	1.1	0.4	0.4	20.8	<0.01	0.02	1.7
I675848		0.48	6.7	1700	55.5	6.2	<0.001	0.02	0.29	1.4	1.0	0.2	27.2	<0.01	0.07	2.8
I675849		0.26	18.0	1090	4.4	6.0	0.008	1.39	0.51	4.5	2.8	0.3	115.0	<0.01	0.09	1.7
I675901		0.12	135.0	1810	4.1	22.3	0.001	0.03	0.14	2.4	0.4	0.2	57.9	<0.01	0.05	0.8
I675902		0.37	5.1	1140	6.1	5.2	0.001	0.53	0.14	2.4	0.6	0.4	53.0	<0.01	0.42	0.6
I675902_PD		0.38	5.0	1170	6.3	5.3	0.001	0.55	0.13	2.4	0.7	0.4	54.4	<0.01	0.42	0.6
I675903		0.23	29.1	1880	5.0	15.3	0.001	0.04	0.09	3.5	0.8	0.2	80.1	<0.01	0.08	1.0
I675903_CD		0.21	34.0	1950	6.6	15.1	0.001	0.03	0.09	3.5	0.7	0.2	90.1	<0.01	0.15	0.9
I675904		0.34	21.7	1210	25.5	10.2	0.003	0.41	0.12	2.6	1.6	0.3	84.1	<0.01	0.05	0.8
I675905		0.44	9.2	1010	3.3	5.8	0.006	0.58	0.10	1.7	1.6	0.3	49.7	<0.01	0.03	1.0
I675906		0.15	110.5	1880	2.5	6.1	<0.001	0.01	0.55	8.2	0.4	0.3	118.0	<0.01	0.38	0.7
I675907		0.14	82.2	2030	1.8	2.1	<0.001	0.10	2.95	5.3	0.5	0.4	197.0	<0.01	0.08	0.9
I675908		0.14	54.9	1220	6.1	4.0	<0.001	0.26	0.12	4.5	0.7	0.2	105.5	<0.01	0.05	0.9
I675909		0.14	69.5	1150	2.4	5.5	0.025	2.50	0.05	1.9	6.4	0.4	111.5	<0.01	0.09	0.7
I675910		0.10	55.7	1240	4.3	13.1	<0.001	0.07	0.09	5.9	1.9	0.2	98.1	<0.01	0.11	0.4
I675911		0.12	72.8	330	2.3	11.6	<0.001	0.04	0.07	7.1	0.5	0.3	118.0	<0.01	0.01	0.5
I675912		0.15	106.0	1240	2.7	25.2	0.029	1.00	0.05	5.0	3.3	0.2	583	<0.01	0.03	0.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUL-2012
Account: GOFICA

Project: REDGOLD

CERTIFICATE OF ANALYSIS VA12154514

Sample Description	Method / Analyte / Units / LOR	ME-MS41 Ti % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
I675786		0.188	0.02	0.46	221	0.20	8.67	37	5.9
I675787		0.177	0.02	0.30	136	0.06	4.85	19	3.1
I675788		0.254	0.03	0.34	148	0.30	7.06	43	5.0
I675789		0.204	0.02	0.47	184	0.09	6.33	21	5.8
I675790		0.311	0.09	0.32	309	0.11	8.05	50	3.7
I675791		0.119	<0.02	0.24	55	0.17	5.76	25	4.8
I675792		0.183	0.02	0.17	130	0.19	5.54	27	3.9
I675793		0.110	<0.02	0.36	123	0.20	8.78	11	4.2
I675794		0.098	<0.02	0.27	100	0.17	7.96	14	5.0
I675795		0.125	<0.02	0.35	86	0.24	8.25	16	5.4
I675796		0.112	<0.02	0.45	123	0.12	6.75	20	2.5
I675797		0.099	<0.02	0.28	98	0.09	6.50	24	4.3
I675798		0.204	0.02	0.59	127	1.05	8.04	52	12.4
I675799		0.224	0.03	0.43	131	0.75	7.53	11	10.7
I675800		0.209	0.20	0.33	130	0.37	6.87	100	10.5
I675839		0.011	<0.02	0.64	32	<0.05	6.08	14	3.5
I675840		0.078	<0.02	0.43	127	0.15	6.54	23	6.5
I675841		0.340	0.05	0.34	319	0.11	9.08	70	9.0
I675842		0.208	0.02	0.84	221	0.21	6.75	51	8.9
I675843		0.265	0.03	0.79	253	0.22	8.90	66	7.8
I675844		0.070	<0.02	0.99	113	0.14	7.57	32	4.4
I675845		0.077	<0.02	0.55	118	0.27	7.48	25	3.5
I675846		0.171	0.02	1.09	201	0.26	10.85	37	3.0
I675847		0.076	<0.02	0.44	74	0.19	4.83	33	7.8
I675848		0.128	0.03	0.79	173	0.50	8.63	126	4.5
I675849		0.235	0.11	0.78	142	1.07	9.30	76	5.7
I675901		0.197	0.10	0.39	149	0.61	5.55	64	8.6
I675902		0.110	0.02	0.36	64	0.36	8.92	82	9.9
I675902_PD		0.111	0.02	0.37	64	0.35	9.13	83	10.1
I675903		0.192	0.06	0.43	165	0.55	8.53	40	9.2
I675903_CD		0.183	0.05	0.38	170	0.57	8.18	44	8.3
I675904		0.183	0.07	0.31	99	0.39	7.45	108	4.9
I675905		0.148	0.03	0.38	67	0.35	7.36	18	4.9
I675906		0.188	0.02	0.39	143	0.43	6.66	64	14.6
I675907		0.146	<0.02	0.76	143	0.73	6.29	95	11.9
I675908		0.119	<0.02	0.37	107	0.22	8.53	27	5.9
I675909		0.109	0.04	0.43	44	0.15	6.65	31	8.8
I675910		0.203	0.03	0.24	256	0.18	4.09	41	4.1
I675911		0.252	0.02	0.24	438	0.16	2.54	50	4.7
I675912		0.303	0.08	0.12	219	0.09	4.01	54	3.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUL-2012
Account: GOFICA

Project: REDGOLD

CERTIFICATE OF ANALYSIS VA12154514

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
I675913		1.60	0.048	0.21	2.28	5.2	<0.2	10	40	0.32	0.05	2.51	0.04	7.99	20.5	32
I675914		1.52	0.009	0.09	1.40	2.9	<0.2	<10	30	0.25	0.02	1.44	0.05	12.75	4.7	84
I675915		1.24	0.023	0.12	2.96	4.9	<0.2	10	260	0.67	0.01	2.26	0.06	18.95	22.3	16
I675916		1.90	0.021	0.10	1.90	4.8	<0.2	<10	60	0.65	0.02	1.44	0.05	20.3	20.5	11
I675917		1.84	0.033	0.06	1.89	3.2	<0.2	<10	150	0.32	0.01	1.58	0.08	19.95	12.2	6
I675918		1.56	0.022	0.13	2.05	1.7	<0.2	<10	70	0.19	0.03	1.23	0.04	16.10	21.1	17
I675919		1.06	0.195	0.37	1.95	2.0	0.2	<10	380	0.18	0.08	1.49	0.06	16.60	18.5	11
I675920		0.62	1.930	1.79	1.68	2.3	1.8	<10	90	0.65	0.31	1.53	0.15	19.10	11.9	5
I675921		1.46	0.035	0.04	1.26	2.5	<0.2	<10	50	0.50	0.02	1.08	0.04	14.10	3.8	4
I675922		1.64	0.186	0.20	1.85	3.7	<0.2	<10	140	0.37	0.02	1.86	0.13	17.05	18.3	9
I675923		1.24	0.078	0.19	1.95	1.3	<0.2	<10	80	0.18	0.01	1.12	0.05	15.45	21.4	18
I675924		1.78	0.014	0.06	2.00	2.1	<0.2	<10	80	0.28	0.01	1.46	0.05	15.95	19.0	17
I675925		2.24	0.018	0.09	1.73	4.0	<0.2	<10	160	0.36	0.01	1.54	0.11	19.60	11.9	7
I675926		2.24	0.109	0.06	0.77	2.1	<0.2	<10	100	0.55	0.02	0.98	0.06	12.90	4.0	4
I675927		1.30	0.022	0.04	0.78	1.8	<0.2	<10	90	0.43	0.01	1.11	0.05	13.75	4.0	3
I675928		1.10	0.006	0.03	0.67	1.0	<0.2	<10	70	0.33	0.01	0.79	0.07	10.90	3.8	4
I675929		1.12	0.205	0.12	0.74	1.2	<0.2	<10	150	0.23	0.01	0.74	0.10	13.25	4.9	3
I675929_PD		<0.02	0.207	0.13	0.73	1.4	0.2	<10	150	0.22	0.01	0.74	0.10	13.20	4.9	3
I675930		1.58	0.004	0.04	1.98	1.5	<0.2	10	80	0.67	0.01	1.40	0.06	18.75	16.0	3
I675930_CD		<0.02	0.004	0.04	1.93	1.3	<0.2	<10	80	0.66	0.01	1.37	0.06	18.20	16.5	3
I675931		1.54	0.010	0.13	2.93	3.1	<0.2	10	220	0.65	0.01	2.36	0.05	17.35	22.8	25

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUL-2012
Account: GOFICA

Project: REDGOLD

CERTIFICATE OF ANALYSIS VA12154514

Sample Description	Method / Analyte / Units / LOR	ME-MS41 Cs ppm 0.05	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01
I675913		0.44	871	6.88	7.39	0.19	0.32	0.08	0.013	0.09	4.1	4.0	0.24	237	5.85	0.07
I675914		0.59	160.0	2.08	5.17	0.09	0.21	0.13	0.011	0.16	6.2	7.3	0.48	148	7.56	0.08
I675915		1.47	434	5.66	11.75	0.22	0.32	0.32	0.024	0.36	9.4	11.6	1.34	659	1.01	0.11
I675916		0.82	283	5.29	9.41	0.13	0.38	0.49	0.025	0.35	10.3	15.9	1.29	758	0.53	0.08
I675917		2.59	178.0	4.02	7.43	0.13	0.10	0.07	0.008	0.44	10.6	13.2	0.77	303	0.33	0.19
I675918		3.25	298	5.70	8.48	0.14	0.20	0.01	0.014	0.63	8.0	6.7	0.92	506	1.42	0.35
I675919		0.77	2360	5.50	7.98	0.12	0.13	0.01	0.009	0.71	8.4	15.4	1.18	334	0.39	0.14
I675920		0.56	6420	3.73	8.94	0.19	0.17	0.24	0.115	0.26	9.9	9.2	0.76	297	1.09	0.05
I675921		0.38	89.7	2.47	5.60	0.16	0.14	0.01	0.008	0.15	7.8	4.2	0.18	225	0.23	0.13
I675922		0.57	860	5.52	8.69	0.15	0.11	0.01	0.033	0.35	9.0	12.1	1.32	429	0.72	0.07
I675923		2.30	950	5.74	7.74	0.13	0.19	<0.01	0.016	0.59	7.6	4.5	0.94	585	1.15	0.23
I675924		1.82	248	5.43	8.20	0.14	0.21	0.01	0.016	0.58	8.1	11.0	0.98	542	0.77	0.26
I675925		3.32	232	4.22	6.43	0.12	0.10	0.12	0.009	0.32	10.3	11.7	0.68	504	0.39	0.24
I675926		0.31	212	2.44	4.45	0.09	0.22	0.15	0.009	0.15	7.1	2.4	0.20	228	0.72	0.06
I675927		0.28	106.0	2.55	4.20	0.09	0.14	0.08	<0.005	0.13	7.4	2.0	0.22	322	0.43	0.06
I675928		0.15	44.1	2.60	3.64	0.15	0.17	0.06	<0.005	0.12	4.6	3.3	0.26	335	0.26	0.07
I675929		0.20	445	3.29	3.73	0.16	0.14	0.01	0.008	0.17	5.3	2.5	0.19	311	0.36	0.06
I675929_PD		0.19	447	3.37	3.79	0.17	0.14	0.01	0.009	0.17	5.1	2.4	0.19	310	0.34	0.06
I675930		0.98	30.1	4.99	7.91	0.23	0.33	0.03	0.012	0.49	9.0	9.8	0.84	610	0.77	0.20
I675930_CD		0.95	28.2	4.88	8.02	0.24	0.33	0.04	0.012	0.49	8.7	10.1	0.83	596	0.74	0.20
I675931		3.24	239	5.78	10.20	0.27	0.28	0.08	0.013	0.53	6.8	10.9	1.32	513	0.87	0.26

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUL-2012
Account: GOFICA

Project: REDGOLD

CERTIFICATE OF ANALYSIS VA12154514

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
I675913		0.18	68.1	1200	2.6	3.0	0.075	5.03	0.08	2.9	8.2	0.9	202	<0.01	0.13	0.6
I675914		0.22	24.7	1220	3.4	8.0	0.024	0.51	0.06	2.0	1.3	0.7	61.6	<0.01	0.02	1.0
I675915		0.23	17.5	2080	5.3	20.3	0.001	0.02	0.14	8.5	0.7	0.5	324	0.01	0.01	2.1
I675916		0.19	12.8	2070	5.6	18.5	<0.001	0.02	0.12	8.2	0.6	0.4	95.3	<0.01	0.01	3.0
I675917		0.36	9.4	1930	5.8	20.3	<0.001	0.02	0.13	2.3	0.7	0.3	152.0	0.01	0.02	2.1
I675918		0.30	17.7	2140	2.9	35.3	<0.001	0.02	0.11	3.7	0.5	0.4	137.0	<0.01	0.01	1.9
I675919		0.33	16.0	2330	7.9	29.5	<0.001	0.01	0.12	2.7	0.8	0.3	121.5	<0.01	0.05	1.2
I675920		0.73	8.4	2120	3.9	11.9	<0.001	0.05	0.16	4.2	4.6	0.3	30.4	<0.01	1.01	2.7
I675921		0.34	2.5	970	2.6	3.9	<0.001	0.01	0.06	1.9	0.4	0.2	135.0	0.01	<0.01	1.6
I675922		0.40	14.0	2230	4.4	17.5	0.001	0.06	0.14	2.6	1.0	0.3	126.5	<0.01	0.02	1.8
I675923		0.21	18.0	2240	2.0	31.6	<0.001	0.01	0.08	3.1	0.4	0.4	94.0	<0.01	<0.01	1.5
I675924		0.32	15.9	2020	2.2	30.4	0.001	0.02	0.10	3.5	0.5	0.4	145.0	0.01	0.01	1.6
I675925		0.40	8.0	2000	7.5	16.0	<0.001	0.02	0.33	2.9	0.4	0.3	169.5	0.01	0.01	2.3
I675926		0.30	2.4	900	3.0	4.4	0.001	0.01	0.13	1.4	0.5	0.2	39.5	<0.01	0.02	2.5
I675927		0.25	2.1	930	3.6	4.3	<0.001	0.01	0.10	0.6	0.3	<0.2	35.1	<0.01	0.02	1.8
I675928		0.29	2.3	880	1.8	2.6	<0.001	<0.01	0.08	1.0	0.2	0.2	34.4	<0.01	0.01	1.3
I675929		0.36	2.7	1200	3.2	4.0	<0.001	0.01	0.10	0.9	0.5	0.2	120.5	<0.01	0.03	0.9
I675929_PD		0.38	2.7	1200	3.2	3.8	<0.001	<0.01	0.09	0.9	0.5	0.2	120.0	<0.01	0.04	0.9
I675930		0.49	6.2	2020	3.0	24.2	0.001	<0.01	0.10	3.5	0.5	0.4	158.0	0.01	<0.01	1.8
I675930_CD		0.50	6.2	1960	2.7	25.0	0.001	<0.01	0.10	3.5	0.6	0.4	155.0	0.01	<0.01	1.8
I675931		0.22	16.3	2150	3.0	21.7	<0.001	<0.01	0.08	6.2	0.6	0.5	122.5	0.01	0.01	1.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUL-2012
Account: GOFICA

Project: REDGOLD

CERTIFICATE OF ANALYSIS VA12154514

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
I675913		0.110	<0.02	0.90	44	0.24	6.64	16	12.0
I675914		0.188	0.03	0.79	90	0.20	7.18	15	5.8
I675915		0.265	0.03	0.94	251	0.97	12.35	67	14.4
I675916		0.249	0.04	0.77	228	0.57	13.55	61	11.7
I675917		0.235	0.03	0.66	213	0.24	10.65	34	2.7
I675918		0.266	0.05	0.95	277	0.25	9.43	60	8.6
I675919		0.337	0.05	0.39	292	0.19	10.20	35	4.1
I675920		0.169	0.02	0.99	199	0.34	11.25	76	4.3
I675921		0.076	<0.02	0.53	122	0.11	7.22	19	4.0
I675922		0.272	0.02	0.40	263	0.12	11.20	40	3.2
I675923		0.281	0.04	0.78	261	0.18	8.56	67	8.6
I675924		0.271	0.04	0.73	237	0.26	10.10	53	8.0
I675925		0.200	0.03	0.77	194	0.22	11.15	50	2.5
I675926		0.080	<0.02	0.66	127	0.20	6.84	19	5.1
I675927		0.070	<0.02	0.76	112	0.14	7.64	20	3.3
I675928		0.076	<0.02	0.64	117	0.19	4.98	23	4.1
I675929		0.091	<0.02	0.24	180	0.16	6.30	28	3.2
I675929_PD		0.091	<0.02	0.24	178	0.16	6.16	27	3.2
I675930		0.262	0.04	0.92	193	0.21	12.70	60	8.7
I675930_CD		0.260	0.04	0.92	188	0.21	13.00	58	9.1
I675931		0.299	0.04	0.70	277	0.16	10.40	61	7.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUL-2012
Account: GOFICA

Project: REDGOLD

CERTIFICATE OF ANALYSIS VA12154514

Method	CERTIFICATE COMMENTS
ME-MS41	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 31-JUL-2012
Account: GOFICA

CERTIFICATE VA12167399

Project: REDGOLD

P.O. No.: RG-2012-005r

This report is for 17 Rock samples submitted to our lab in Vancouver, BC, Canada on 18-JUL-2012.

The following have access to data associated with this certificate:

ELEANOR BLACK	JACQUELINE BLACKWELL	NATE BREWER
MATT ECKFELDT	JULIANNE MADSEN	AMELIA RAINBOW
ROSS SHERLOCK	TWILA SKINNER	TIM STUBLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	51 anal. aqua regia ICPMS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 31-JUL-2012
Account: GOFICA

Project: REDGOLD

CERTIFICATE OF ANALYSIS VA12167399

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
I675932		1.24	0.081	0.52	3.30	2.2	<0.2	70	130	0.28	0.03	2.26	0.70	11.10	25.8	21
I675933		1.04	0.251	0.15	0.46	0.6	0.4	20	80	0.17	0.07	0.79	0.05	16.10	5.5	3
I675934		1.08	5.20	0.92	0.39	2.0	1.5	10	60	0.20	0.95	0.42	0.06	9.90	4.1	3
I675935		0.76	0.010	0.04	0.82	3.5	<0.2	10	60	0.50	0.01	0.90	0.11	10.90	3.1	2
I675936		1.60	0.007	0.20	2.24	6.9	<0.2	20	70	0.35	0.02	1.52	0.07	15.40	21.3	27
I675937		1.44	0.007	0.11	2.24	3.5	<0.2	20	70	0.32	0.02	1.53	0.05	16.30	19.9	16
I675938		1.14	0.096	0.12	2.06	1.0	<0.2	10	190	0.27	0.02	1.48	0.08	14.00	16.3	55
I675939		1.12	0.008	0.09	2.15	5.2	<0.2	10	50	0.23	0.04	2.00	0.07	13.35	11.2	175
I675940		0.96	0.010	0.07	2.99	2.3	<0.2	10	40	0.21	0.07	2.20	0.12	5.30	3.7	17
I675941		1.36	0.021	0.11	2.61	2.0	<0.2	<10	220	0.15	0.02	1.41	0.05	8.74	17.1	21
I675942		1.06	0.019	0.13	1.88	3.2	<0.2	<10	150	0.16	0.04	1.26	0.06	7.87	23.1	13
I675943		1.10	0.024	0.10	2.80	3.0	<0.2	10	80	0.74	0.02	2.23	0.08	19.10	18.3	17
I675944		1.08	0.026	0.13	1.76	2.9	<0.2	10	130	0.40	0.02	1.39	0.08	18.35	18.6	22
I675945		1.52	0.029	0.20	4.20	0.3	<0.2	<10	450	0.16	0.01	2.31	0.02	11.30	16.8	72
I675946		0.94	0.006	0.14	1.90	3.7	<0.2	10	90	0.32	0.01	1.18	0.06	15.25	22.5	45
I675947		1.50	0.007	0.05	1.74	1.5	<0.2	<10	150	0.08	0.01	1.17	0.15	3.26	34.5	193
I675948		1.00	0.013	0.16	1.85	2.7	<0.2	10	80	0.18	0.02	1.33	0.04	14.70	20.9	46

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 31-JUL-2012
Account: GOFICA

Project: REDGOLD

CERTIFICATE OF ANALYSIS VA12167399

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
I675932		1.32	969	4.63	7.47	0.12	0.08	0.02	0.019	0.36	5.3	9.8	0.50	192	3.38	0.40
I675933		0.09	647	1.69	3.70	0.10	0.44	0.02	0.017	0.15	7.2	3.2	0.41	602	0.29	0.05
I675934		0.13	923	3.14	3.04	0.13	0.28	0.06	0.068	0.11	4.9	1.4	0.17	276	0.34	0.05
I675935		0.20	30.3	2.48	4.22	0.15	0.08	0.01	<0.005	0.14	5.5	2.4	0.12	338	0.27	0.08
I675936		3.32	250	6.07	8.90	0.19	0.30	0.08	0.015	0.57	7.7	8.2	1.00	704	1.41	0.18
I675937		2.79	177.5	5.90	8.35	0.17	0.26	0.11	0.014	0.49	8.3	7.8	0.98	669	1.29	0.24
I675938		2.00	617	4.82	6.96	0.17	0.10	0.08	0.021	0.40	7.1	5.2	0.82	328	0.53	0.23
I675939		0.45	31.1	4.68	7.72	0.15	0.16	0.01	0.015	0.12	7.1	9.0	0.41	367	0.99	0.16
I675940		0.28	29.4	4.49	7.80	0.09	0.07	0.02	0.007	0.09	2.7	2.0	0.11	202	0.33	0.37
I675941		0.49	74.1	5.00	6.95	0.12	0.06	0.01	0.014	0.48	3.9	10.4	0.88	229	0.85	0.30
I675942		0.37	96.2	5.22	5.98	0.14	0.09	<0.01	0.008	0.28	3.4	10.3	0.69	218	1.18	0.15
I675943		1.63	217	5.35	10.20	0.25	0.28	0.02	0.020	0.36	9.8	8.6	1.01	625	1.09	0.20
I675944		1.84	261	5.35	7.89	0.20	0.24	0.05	0.016	0.43	9.1	7.1	0.87	426	2.08	0.18
I675945		0.40	397	7.10	10.25	0.16	0.08	<0.01	0.014	0.63	5.5	4.9	0.97	220	1.00	0.42
I675946		1.75	140.0	5.96	7.93	0.16	0.27	0.06	0.015	0.44	7.6	7.9	1.11	664	1.12	0.11
I675947		1.23	25.8	9.84	9.38	0.19	0.15	0.06	0.013	0.44	1.6	5.4	1.17	503	0.62	0.14
I675948		1.76	213	5.79	7.25	0.16	0.22	0.04	0.013	0.52	7.6	6.4	1.04	428	1.08	0.16

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 31-JUL-2012
Account: GOFICA

Project: REDGOLD

CERTIFICATE OF ANALYSIS VA12167399

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
I675932		0.25	29.1	1540	12.0	12.6	0.019	1.92	0.12	2.1	5.7	0.2	257	<0.01	0.45	0.6
I675933		0.51	2.2	930	1.1	3.5	<0.001	0.01	0.16	3.1	0.8	0.2	21.1	<0.01	0.14	2.1
I675934		0.67	2.5	840	5.8	2.6	<0.001	0.01	1.39	0.7	3.6	0.2	21.4	<0.01	0.53	1.7
I675935		0.31	2.0	860	5.2	3.8	<0.001	<0.01	0.13	1.3	0.2	<0.2	56.7	<0.01	0.01	1.2
I675936		0.28	20.9	2070	5.3	34.8	<0.001	0.01	0.13	3.4	0.4	0.6	97.1	<0.01	0.01	2.0
I675937		0.27	15.8	2150	3.1	28.0	<0.001	<0.01	0.11	3.0	0.4	0.5	114.5	<0.01	<0.01	1.7
I675938		0.21	23.4	1490	4.4	16.3	<0.001	0.01	0.06	3.0	0.7	0.3	246	<0.01	0.02	0.6
I675939		0.23	52.7	1120	2.9	4.9	0.006	0.33	0.20	2.7	0.5	0.3	101.0	<0.01	0.02	0.8
I675940		0.16	4.5	1090	2.4	3.0	<0.001	0.22	0.08	1.3	0.3	0.3	147.5	<0.01	0.01	0.5
I675941		0.23	8.4	1340	1.8	16.8	0.002	0.95	0.08	3.8	0.5	0.3	158.0	<0.01	0.05	0.6
I675942		0.21	8.3	1060	3.4	9.0	0.023	1.82	0.08	3.1	2.8	0.3	60.0	<0.01	0.09	0.5
I675943		0.28	13.1	1930	6.3	24.5	0.001	<0.01	0.10	5.3	0.4	0.5	238	0.01	0.01	2.4
I675944		0.32	15.1	1990	5.0	30.1	0.001	<0.01	0.13	3.9	0.4	0.4	102.5	<0.01	0.01	2.3
I675945		0.19	18.4	1830	1.0	16.3	0.003	0.45	<0.05	3.5	1.3	0.4	431	<0.01	0.03	0.3
I675946		0.26	24.1	1950	3.3	32.0	0.001	<0.01	0.09	4.0	0.4	0.5	84.5	<0.01	<0.01	1.7
I675947		0.15	65.0	380	1.1	19.3	0.001	0.01	0.05	5.4	0.2	0.3	151.0	<0.01	<0.01	0.3
I675948		0.21	23.4	1900	2.4	27.0	0.001	<0.01	0.08	3.1	0.3	0.4	88.5	<0.01	0.01	1.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 31-JUL-2012
Account: GOFICA

Project: REDGOLD

CERTIFICATE OF ANALYSIS VA12167399

Sample Description	Method / Analyte / Units / LOR	ME-MS41 Ti % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
I675932		0.166	0.07	0.47	169	0.15	8.57	261	1.9
I675933		0.079	<0.02	0.45	85	0.17	10.35	32	10.6
I675934		0.081	<0.02	0.48	147	0.11	5.36	25	6.2
I675935		0.058	<0.02	0.37	123	0.11	5.97	37	2.5
I675936		0.306	0.05	1.05	271	0.35	8.14	71	12.5
I675937		0.281	0.04	0.88	263	0.23	8.67	68	10.7
I675938		0.203	0.03	0.27	221	0.21	6.86	48	3.3
I675939		0.171	0.04	0.43	181	0.12	6.03	20	4.1
I675940		0.081	0.03	0.24	161	0.12	2.73	19	1.9
I675941		0.231	0.11	0.24	184	0.10	5.54	21	1.1
I675942		0.228	0.07	0.23	164	0.16	6.67	17	1.7
I675943		0.237	0.03	1.01	226	0.56	9.17	67	9.0
I675944		0.232	0.04	1.14	247	0.58	8.06	51	6.2
I675945		0.273	0.05	0.21	336	<0.05	4.28	26	2.5
I675946		0.257	0.04	0.84	242	0.23	7.48	70	10.4
I675947		0.316	0.03	0.18	493	0.14	2.80	77	5.0
I675948		0.247	0.04	0.68	245	0.18	7.07	49	8.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 31-JUL-2012
Account: GOFICA

Project: REDGOLD

CERTIFICATE OF ANALYSIS VA12167399

Method	CERTIFICATE COMMENTS
ME-MS41	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUN-2012
Account: GOFICA

CERTIFICATE VA12124027

Project: Red Gold

P.O. No.: RG-2012-001r

This report is for 28 Rock samples submitted to our lab in Vancouver, BC, Canada on 5-JUN-2012.

The following have access to data associated with this certificate:

ELEANOR BLACK	JACQUELINE BLACKWELL	NATE BREWER
AMELIA RAINBOW	ROSS SHERLOCK	TWILA SKINNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
SPL-34	Pulp Splitting Charge
CRU-31	Fine crushing - 70% <2mm
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	51 anal. aqua regia ICPMS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: ELEANOR BLACK
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: ***Corrected copy with sample ID prefix 16 corrected to I6***

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUN-2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12124027

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
I675751		1.06	0.021	0.07	1.84	24.1	<0.2	10	40	0.61	0.02	1.37	0.11	11.15	6.4	39
I675752		1.52	0.034	0.07	1.06	5.6	<0.2	<10	30	0.42	0.03	0.53	0.03	17.95	11.0	44
I675753		1.58	0.171	0.43	1.48	25.8	<0.2	<10	80	0.38	0.06	0.94	0.05	10.15	12.0	26
I675754		1.52	0.056	0.16	1.65	14.4	<0.2	<10	110	0.53	0.05	1.39	0.06	16.00	13.7	9
I675755		1.90	0.183	0.38	2.12	13.4	0.2	10	80	0.59	0.25	1.92	0.09	10.40	12.5	22
I675756		1.82	0.095	0.30	1.29	13.2	<0.2	<10	200	0.40	0.21	1.08	0.07	10.10	8.3	32
I675757		1.24	0.075	0.23	1.87	17.2	<0.2	10	100	0.52	0.11	1.68	0.13	9.92	9.5	22
I675758		2.34	0.009	0.06	2.10	10.9	<0.2	10	90	0.48	0.01	2.01	0.09	9.23	2.8	7
I675759		1.44	0.079	0.40	2.14	17.6	<0.2	10	80	0.36	0.04	1.23	0.08	9.41	14.8	8
I675760		2.04	0.021	0.07	2.05	12.6	<0.2	10	50	0.40	0.01	1.55	0.06	9.66	7.1	6
I675761		1.60	0.848	0.77	1.72	19.5	0.8	10	40	0.26	0.05	1.50	0.09	8.05	9.7	24
I675762		1.92	0.080	0.04	2.89	6.2	<0.2	10	20	0.77	0.02	3.40	0.09	11.90	7.8	71
I675763		1.54	0.002	0.02	2.10	17.3	<0.2	20	20	0.59	0.01	2.45	0.05	7.59	4.8	17
I675764		1.96	0.060	0.15	1.14	6.8	<0.2	<10	90	0.44	0.02	1.25	0.07	12.55	6.9	64
I675765		2.62	0.019	0.05	3.84	8.7	<0.2	10	20	0.87	0.01	4.21	0.07	11.60	7.6	78
I675766		3.76	0.041	0.10	2.78	18.2	<0.2	10	200	0.49	0.02	2.92	0.12	7.77	4.3	190
I675767		1.60	0.007	0.04	1.46	8.2	<0.2	10	40	0.36	0.02	1.81	0.10	8.88	4.6	71
I675768		2.36	0.034	0.05	4.79	11.1	<0.2	10	190	0.67	0.01	3.03	0.06	8.59	9.2	188
I675769		2.24	0.003	0.01	1.80	6.4	<0.2	<10	60	0.26	0.01	1.55	0.08	13.75	12.7	248
I675770		1.54	0.051	0.24	1.82	7.1	<0.2	<10	10	0.41	0.05	1.66	0.06	8.06	15.6	26
I675771		1.58	0.021	0.11	1.66	4.0	<0.2	<10	50	0.36	0.02	1.46	0.04	10.90	15.0	8
I675771_PD		<0.02	0.022	0.11	1.66	4.1	<0.2	<10	50	0.34	0.02	1.46	0.05	11.40	15.1	8
I675772		2.22	0.074	0.13	1.94	4.3	<0.2	10	70	0.34	0.02	1.26	0.06	8.64	7.9	15
I675772_CD		<0.02	0.076	0.13	1.88	4.3	<0.2	10	70	0.28	0.02	1.20	0.06	8.54	7.7	14
I675773		2.32	0.028	0.10	3.07	13.9	<0.2	<10	70	0.37	0.03	2.59	0.08	7.17	9.9	182
I675774		2.38	0.159	0.24	3.08	15.7	1.1	10	30	0.34	0.08	2.73	0.14	6.51	12.9	253
I675775		0.90	0.025	0.05	3.00	9.1	<0.2	10	540	0.38	0.01	1.87	0.11	15.45	30.5	14
I675776		2.58	0.011	0.08	1.28	13.6	<0.2	<10	50	0.35	0.03	0.86	0.05	9.02	9.8	9

Comments: ***Corrected copy with sample ID prefix 16 corrected to I6***

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUN-2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12124027

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
I675751		0.76	170.5	2.65	8.60	0.16	0.22	0.61	0.020	0.09	5.8	14.5	0.95	354	0.29	0.11
I675752		0.20	144.5	3.07	7.61	0.12	0.14	0.04	0.006	0.15	8.8	7.7	1.09	290	0.16	0.09
I675753		0.99	1425	3.23	6.45	0.11	0.14	0.09	0.012	0.24	4.7	12.9	1.03	284	0.30	0.07
I675754		0.84	356	4.27	8.57	0.18	0.27	0.08	0.021	0.27	8.3	11.2	0.90	433	0.45	0.09
I675755		1.00	1085	4.02	9.25	0.17	0.15	0.31	0.023	0.16	5.5	16.9	0.94	427	0.29	0.10
I675756		0.69	594	2.71	6.36	0.10	0.21	0.17	0.015	0.27	5.0	8.5	0.74	339	0.20	0.07
I675757		0.79	729	3.03	8.29	0.12	0.17	0.14	0.024	0.15	5.1	14.1	0.89	461	0.23	0.06
I675758		1.09	99.2	1.11	7.63	0.09	0.18	0.18	0.011	0.15	4.9	10.4	0.60	386	0.30	0.19
I675759		1.27	1015	4.03	7.49	0.14	0.15	0.07	0.011	0.21	4.6	23.5	1.18	461	0.23	0.15
I675760		2.46	218	2.82	6.35	0.09	0.17	0.14	0.011	0.18	5.1	21.6	0.84	269	0.32	0.21
I675761		0.69	3260	3.44	6.23	0.12	0.10	0.71	0.053	0.10	4.2	12.8	0.57	186	0.30	0.13
I675762		0.16	104.5	2.11	10.55	0.14	0.25	0.01	0.032	0.04	5.3	4.4	0.76	412	0.50	0.08
I675763		0.37	11.1	1.49	7.30	0.09	0.27	0.01	0.023	0.08	3.3	7.6	0.79	323	0.32	0.08
I675764		0.33	483	2.88	5.80	0.11	0.24	0.24	0.019	0.12	6.2	3.4	0.47	200	0.34	0.10
I675765		0.23	60.6	3.33	13.10	0.22	0.22	0.02	0.034	0.04	5.7	8.5	1.32	541	1.24	0.05
I675766		0.81	93.6	2.41	7.42	0.08	0.26	0.03	0.016	0.14	3.8	9.1	0.72	336	0.51	0.21
I675767		0.24	39.7	0.92	5.80	0.06	0.24	0.04	0.012	0.05	4.2	7.3	0.45	256	0.34	0.06
I675768		0.95	142.5	2.94	10.65	0.12	0.17	0.36	0.019	0.13	4.8	14.1	1.08	370	0.14	0.63
I675769		0.92	40.3	3.69	7.62	0.15	0.15	<0.01	0.010	0.16	7.1	10.0	1.13	282	0.18	0.11
I675770		0.27	277	6.48	10.80	0.28	0.25	0.24	0.010	0.06	4.4	7.6	0.39	165	11.70	0.05
I675771		0.35	155.5	3.89	5.40	0.14	0.19	0.12	0.006	0.11	5.8	7.6	0.44	143	6.54	0.11
I675771_PD		0.37	155.5	3.95	5.37	0.13	0.21	0.12	0.006	0.11	6.0	8.0	0.43	146	6.11	0.10
I675772		0.72	268	2.73	6.79	0.11	0.13	0.06	0.011	0.18	4.5	16.5	1.07	215	0.84	0.10
I675772_CD		0.72	266	2.67	6.56	0.11	0.12	0.07	0.009	0.17	4.5	18.7	1.06	207	0.72	0.08
I675773		3.54	98.2	4.79	9.05	0.22	0.31	0.06	0.109	0.64	4.6	22.6	1.94	895	1.71	0.33
I675774		12.35	114.0	6.94	8.57	0.38	0.24	0.14	0.229	0.33	4.5	16.4	1.15	728	12.95	0.60
I675775		2.42	261	6.50	9.88	0.22	0.14	0.06	0.023	0.86	8.3	23.9	1.80	565	3.17	0.18
I675776		0.49	132.5	1.99	4.82	0.07	0.19	0.10	0.013	0.10	4.1	16.7	0.72	172	0.97	0.09

Comments: ***Corrected copy with sample ID prefix 16 corrected to I6***

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUN-2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12124027

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
I675751		0.18	15.5	900	2.4	3.4	<0.001	0.01	1.08	5.8	<0.2	0.2	75.4	<0.01	0.01	1.1
I675752		0.41	20.0	1180	2.0	3.4	<0.001	0.01	0.96	3.3	<0.2	0.2	17.8	<0.01	0.01	1.6
I675753		0.16	17.7	870	1.5	11.1	0.001	0.09	0.37	4.3	1.1	0.2	106.5	<0.01	0.02	0.7
I675754		0.21	11.7	1400	2.0	12.4	<0.001	0.02	0.31	5.8	0.3	0.3	114.5	<0.01	0.01	1.3
I675755		0.20	10.3	920	3.1	7.9	<0.001	0.04	0.52	5.9	2.5	0.2	111.0	<0.01	0.05	0.5
I675756		0.38	14.4	980	2.0	11.6	<0.001	0.02	0.32	3.5	1.9	0.3	129.5	<0.01	0.03	1.2
I675757		0.21	8.4	970	3.3	7.3	<0.001	0.02	0.74	5.9	1.2	0.2	58.0	<0.01	0.02	0.8
I675758		0.21	3.3	700	2.7	5.6	<0.001	0.01	0.23	4.0	<0.2	0.2	197.0	<0.01	<0.01	1.2
I675759		0.17	6.1	970	4.7	11.3	<0.001	0.03	0.19	6.6	1.8	0.2	113.0	<0.01	0.02	0.7
I675760		0.12	3.5	880	2.1	8.1	0.001	0.02	0.14	5.6	1.7	0.2	111.5	<0.01	<0.01	0.5
I675761		0.12	12.2	910	2.2	4.0	<0.001	0.30	0.23	3.6	2.8	0.2	81.6	<0.01	0.07	0.5
I675762		0.16	63.6	1260	2.8	1.5	0.001	0.03	0.16	7.8	0.8	0.4	31.4	<0.01	0.01	0.7
I675763		0.19	17.1	1340	2.6	2.8	<0.001	0.02	0.18	7.1	1.6	0.3	58.1	<0.01	<0.01	0.4
I675764		0.25	19.1	1060	2.1	3.9	<0.001	0.04	0.14	3.6	0.5	0.3	86.1	<0.01	0.04	0.7
I675765		0.13	27.9	1180	2.6	1.6	0.006	0.02	0.15	9.7	0.4	0.4	38.6	<0.01	0.01	0.7
I675766		0.20	57.6	1790	3.4	6.5	0.001	0.03	0.13	4.1	1.1	0.4	274	<0.01	0.02	1.0
I675767		0.23	37.3	1120	3.0	1.8	0.001	0.03	0.09	3.7	<0.2	0.3	46.3	<0.01	<0.01	0.6
I675768		0.19	55.8	2230	2.1	5.6	<0.001	0.02	0.14	4.2	1.5	0.3	1425	<0.01	0.01	1.2
I675769		0.24	82.4	1890	1.9	9.7	<0.001	0.03	0.13	2.5	0.5	0.2	78.9	<0.01	0.02	1.0
I675770		0.30	28.7	1120	3.8	1.5	0.020	2.70	0.33	3.0	9.9	0.8	168.5	<0.01	0.33	0.7
I675771		0.25	13.3	1620	1.8	4.7	0.024	1.55	0.05	2.7	4.4	0.4	135.0	<0.01	0.06	0.6
I675771_PD		0.25	12.7	1630	2.0	4.8	0.025	1.55	0.05	2.8	4.5	0.4	137.0	<0.01	0.06	0.6
I675772		0.26	9.4	940	1.9	6.0	0.004	0.17	0.12	4.7	0.9	0.3	69.7	<0.01	0.01	0.5
I675772_CD		0.23	8.8	930	2.0	5.6	0.003	0.18	0.12	4.6	1.5	0.2	64.4	<0.01	0.01	0.5
I675773		0.15	56.4	1190	3.6	29.6	0.004	0.06	0.27	9.5	<0.2	0.4	87.1	<0.01	0.05	0.5
I675774		0.19	43.8	1390	8.1	8.2	0.005	0.10	0.26	13.0	<0.2	1.2	131.5	<0.01	0.04	0.4
I675775		0.25	15.3	2290	5.5	33.3	0.013	0.12	0.07	6.7	1.5	0.4	208	<0.01	0.01	0.5
I675776		0.19	8.9	1000	3.1	3.8	0.011	0.36	0.13	4.4	3.1	0.3	49.8	<0.01	0.01	0.6

Comments: ***Corrected copy with sample ID prefix 16 corrected to I6***

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUN-2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12124027

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
I675751		0.123	<0.02	0.33	125	0.28	7.56	23	5.7
I675752		0.232	<0.02	0.28	221	0.44	10.75	22	3.0
I675753		0.200	0.03	0.24	144	0.14	6.55	18	3.2
I675754		0.215	0.03	0.48	233	0.38	9.54	41	6.9
I675755		0.149	0.02	0.22	174	0.41	7.50	28	3.6
I675756		0.225	0.03	0.32	127	0.16	6.51	24	5.0
I675757		0.141	0.02	0.31	122	0.46	7.01	34	3.8
I675758		0.115	<0.02	0.27	60	0.51	7.56	19	4.8
I675759		0.170	0.03	0.33	158	0.24	7.99	33	3.4
I675760		0.114	0.02	0.35	120	0.23	7.74	17	3.9
I675761		0.100	0.02	0.35	128	0.20	5.27	19	2.6
I675762		0.130	<0.02	0.37	86	0.33	8.18	36	5.5
I675763		0.147	<0.02	0.25	92	0.26	6.94	16	5.8
I675764		0.150	0.02	0.27	118	0.38	8.55	14	5.8
I675765		0.143	<0.02	0.33	137	0.34	8.48	25	6.2
I675766		0.142	0.03	0.64	104	0.20	6.33	26	5.8
I675767		0.132	<0.02	0.25	62	0.25	7.24	25	5.4
I675768		0.109	0.02	0.33	113	0.24	5.77	23	4.7
I675769		0.230	0.03	0.50	196	0.12	6.38	23	3.5
I675770		0.154	0.02	0.80	59	0.32	4.50	13	7.4
I675771		0.194	0.02	0.38	126	0.29	8.31	13	4.7
I675771_PD		0.191	0.02	0.39	126	0.32	8.21	13	4.6
I675772		0.164	0.02	0.28	122	0.10	7.13	17	2.9
I675772_CD		0.154	0.02	0.29	120	0.09	6.62	16	2.6
I675773		0.208	0.10	0.50	162	0.21	9.27	53	9.9
I675774		0.145	0.03	1.11	160	0.20	10.30	48	8.0
I675775		0.367	0.09	0.44	327	0.09	8.91	55	3.3
I675776		0.105	<0.02	0.35	62	0.17	7.52	16	4.1

Comments: ***Corrected copy with sample ID prefix 16 corrected to I6***

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12-JUN-2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12124027

Method	CERTIFICATE COMMENTS
ME-MS41	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).

Name

- Appendix 01 Ah and Ch Sample Description
- Appendix 02 Ah and Ch Sample Certs
- Appendix 03 Rock Sample Description
- Appendix 04 Rock Sample Certs
- Appendix 05 Whole Rock Sample Certs
- Appendix 06 Trench Sample Description
- Appendix 07 Trench Sample Certs
- Appendix 08 Scott Geophysics IP Report
- Appendix 09 DDH Geologic Logs
- Appendix 10 DDH Striplogs

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 15- AUG- 2012
Account: GOFICA

CERTIFICATE VA12179643

Project: Red Gold

P.O. No.: RG- 2012- 006c

This report is for 35 Rock samples submitted to our lab in Vancouver, BC, Canada on 1- AUG- 2012.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL	NATE BREWER	MATT ECKFELDT
JULIANNE MADSEN	AMELIA RAINBOW	ROSS SHERLOCK
TWILA SKINNER	TIM STUBLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
SPL- 34	Pulp Splitting Charge
CRU- 31	Fine crushing - 70% <2mm
LOG- 21d	Sample logging - ClientBarCode Dup
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME- MS41	51 anal. aqua regia ICPMS	
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 15- AUG- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12179643

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
I675949		2.18	0.059	0.26	2.37	2.9	<0.2	10	70	0.34	0.01	1.96	0.09	15.05	20.3	54
I675950		1.28	0.033	0.14	2.19	5.0	<0.2	10	60	0.39	0.08	2.13	0.07	15.45	18.9	149
I675851		1.10	0.322	0.45	6.62	3.1	0.2	10	240	0.12	0.02	5.00	0.06	3.85	17.1	243
I675852		1.50	0.117	0.36	5.74	1.7	<0.2	<10	160	0.13	0.03	4.26	0.11	5.49	44.6	279
I675853		1.40	0.010	0.29	2.27	1.6	<0.2	10	140	0.18	0.03	1.26	0.04	13.05	27.2	101
I675854		1.38	0.005	0.09	1.42	1.5	<0.2	<10	130	0.08	0.01	1.11	0.05	3.05	35.6	223
I675855		1.60	0.126	0.21	3.11	2.3	<0.2	<10	30	0.23	0.05	2.50	0.08	9.05	55.8	111
I675856		1.84	0.048	0.10	2.07	6.4	<0.2	<10	40	0.38	0.03	1.94	0.06	13.45	21.6	24
I675857		1.44	0.003	0.07	2.23	2.2	<0.2	10	70	0.32	0.01	1.84	0.07	19.65	14.8	7
I675858		1.84	0.018	0.15	1.71	8.0	<0.2	10	190	0.33	0.02	1.43	0.09	11.55	12.2	30
I675859		1.04	0.004	0.14	3.86	2.6	<0.2	<10	440	0.36	0.10	2.00	0.94	18.45	22.9	37
I675860		1.68	0.187	0.13	2.36	4.5	<0.2	10	50	0.62	0.03	2.16	0.09	18.15	24.9	19
I675861		0.82	0.061	0.09	2.88	1.9	<0.2	10	100	0.36	0.01	2.58	0.09	15.70	20.1	47
I675862		3.38	0.020	0.21	2.91	4.6	<0.2	10	240	0.53	0.01	2.92	0.12	12.05	19.3	45
I675863		1.44	0.007	0.09	2.60	6.7	<0.2	10	40	0.32	0.06	2.14	0.09	5.92	37.8	5
I675864		1.52	0.013	0.15	2.02	5	<0.2	<10	30	0.44	0.04	10.05	0.09	13.80	22.3	223
I675865		1.10	0.001	0.06	1.81	2.9	<0.2	<10	20	0.44	0.01	4.22	0.05	9.89	18.5	276
I675866		1.34	0.002	0.05	1.87	3.9	<0.2	<10	130	0.40	0.01	0.77	0.03	6.97	14.3	7
I675866_PD		<0.02	0.002	0.05	1.92	3.8	<0.2	<10	130	0.35	0.01	0.80	0.03	7.17	14.3	8
I675867		1.14	0.025	0.17	1.89	6.9	<0.2	<10	100	0.27	0.02	1.17	0.06	5.64	8.1	245
I675867_CD		<0.02	0.010	0.16	1.97	7.1	<0.2	<10	120	0.30	0.02	1.17	0.05	6.39	9.1	251
I675868		1.70	0.394	4.48	1.46	7.7	0.4	<10	260	0.36	0.06	2.52	0.31	3.76	53.6	175
I675869		1.12	0.015	0.04	1.47	8.2	<0.2	<10	360	0.30	0.03	1.78	0.22	3.96	8.7	163
I675870		1.32	0.010	0.44	1.62	8.5	<0.2	<10	70	0.38	0.09	2.87	0.24	4.75	35.8	104
I675871		1.48	0.006	0.08	1.89	8.8	<0.2	<10	40	0.42	0.04	2.37	0.28	4.14	9.5	208
I675872		1.20	0.005	0.13	1.96	7.2	<0.2	<10	50	0.41	0.03	4.48	0.19	4.84	7.3	232
I675873		1.56	0.007	1.56	1.14	7.1	<0.2	<10	60	0.29	0.02	4.02	0.33	5.64	14.0	240
I675874		1.36	0.019	0.15	2.01	6.4	<0.2	<10	210	0.23	0.02	3.67	0.12	4.64	4.8	268
I675875		1.16	0.012	0.26	1.96	7.9	<0.2	10	80	0.44	0.02	2.42	0.21	6.62	9.1	303
I675876		1.46	0.002	0.02	2.12	5.4	<0.2	10	30	0.42	0.01	1.97	0.07	4.33	18.8	254
I675877		0.92	0.003	0.23	2.05	6.7	<0.2	10	50	0.45	0.01	5.38	0.22	5.50	8.2	232
I675878		1.06	0.005	0.03	2.09	4.4	<0.2	10	40	0.49	0.01	2.54	0.21	4.76	15.2	214
I675879		0.98	<0.001	0.07	1.57	2.2	<0.2	<10	50	0.34	0.01	6.22	0.20	6.40	13.2	264
I675880		1.30	0.008	0.11	1.46	3.1	<0.2	<10	20	0.23	0.04	1.02	1.10	6.60	8.4	24
I675881		1.84	0.031	0.37	2.91	3.8	<0.2	10	50	0.27	0.08	2.67	0.23	10.65	17.9	78

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 15- AUG- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12179643

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
I675949		1.19	612	5.39	8.53	0.16	0.21	0.03	0.029	0.30	7.2	7.7	1.21	604	1.02	0.21
I675950		0.49	245	5.00	7.78	0.14	0.17	0.19	0.013	0.20	7.3	7.8	0.64	262	2.76	0.19
I675851		0.81	1125	2.61	8.73	0.09	0.07	5.23	0.042	0.35	1.7	7.6	1.03	262	0.68	0.47
I675852		0.72	1780	4.57	9.33	0.14	0.09	0.09	0.016	0.34	2.4	5.9	0.98	239	0.68	0.42
I675853		2.97	396	5.92	7.46	0.17	0.19	0.06	0.015	0.82	6.3	7.2	1.45	658	1.40	0.31
I675854		0.89	44.6	9.17	8.37	0.19	0.12	0.01	0.011	0.39	1.5	4.0	1.04	343	0.59	0.12
I675855		0.97	224	8.95	7.18	0.22	0.29	0.06	0.006	0.21	4.5	15.3	0.24	275	1.76	0.17
I675856		0.57	152.5	4.14	6.49	0.14	0.23	0.05	0.018	0.13	6.9	9.5	0.62	244	2.03	0.17
I675857		2.38	71.2	4.89	7.72	0.16	0.18	0.01	0.016	0.39	9.0	5.0	0.58	497	0.96	0.29
I675858		0.82	260	4.34	7.14	0.13	0.19	0.04	0.010	0.18	5.2	7.6	0.65	213	2.06	0.12
I675859		2.72	122.5	4.01	9.86	0.16	0.08	0.01	0.021	0.81	8.1	27.9	1.10	434	1.55	0.51
I675860		1.58	241	5.79	9.97	0.23	0.39	0.19	0.024	0.31	8.8	13.5	1.36	711	0.73	0.08
I675861		0.62	245	4.90	7.90	0.17	0.24	0.36	0.027	0.29	7.3	10.4	1.14	460	0.67	0.23
I675862		0.61	167.0	5.92	11.80	0.29	0.16	0.21	0.023	0.23	6.2	18.0	1.06	506	1.33	0.09
I675863		2.50	7.6	3.18	7.59	0.14	0.21	0.52	0.008	0.11	2.6	13.5	1.06	500	0.58	0.16
I675864		0.18	222	4.29	7.91	0.20	0.47	0.02	0.025	0.03	6.4	14.8	2.02	1440	1.56	0.06
I675865		0.12	107.0	3.20	5.32	0.25	0.45	0.02	0.009	0.03	4.3	9.4	1.91	603	0.32	0.05
I675866		0.42	105.0	3.17	6.07	0.10	0.24	0.41	0.006	0.09	3.3	8.5	1.38	720	0.25	0.06
I675866_PD		0.46	106.0	3.23	6.28	0.10	0.24	0.38	0.006	0.09	3.4	8.5	1.40	733	0.26	0.07
I675867		0.71	60.7	4.15	5.69	0.10	0.46	0.04	<0.005	0.20	2.6	16.9	2.28	1200	0.98	0.07
I675867_CD		0.83	62.6	4.30	5.88	0.13	0.46	0.03	0.005	0.24	2.9	16.8	2.31	1180	1.00	0.08
I675868		0.12	3060	3.39	4.39	0.14	0.34	0.15	0.012	0.06	1.6	8.5	1.65	1060	1.38	0.03
I675869		0.20	7.8	2.99	4.92	0.17	0.28	0.01	0.013	0.08	1.7	8.1	1.02	876	0.23	0.05
I675870		0.12	412	2.79	6.11	0.21	0.35	0.08	0.014	0.11	2.0	3.7	0.77	442	0.39	0.05
I675871		0.11	72.2	3.09	5.93	0.17	0.47	0.05	0.011	0.04	1.8	9.9	1.12	756	0.41	0.03
I675872		0.13	105.5	3.47	6.42	0.17	0.35	0.01	0.010	0.07	2.1	15.0	1.42	1150	0.38	0.04
I675873		0.17	1430	2.91	3.60	0.11	0.37	0.05	0.006	0.09	2.5	9.7	1.09	942	0.59	0.04
I675874		0.71	104.5	4.69	6.38	0.15	0.36	0.13	0.007	0.14	2.1	15.3	1.88	1070	0.36	0.04
I675875		3.55	145.0	3.64	6.34	0.17	0.36	0.04	0.006	0.12	3.0	12.1	1.25	745	0.30	0.12
I675876		0.25	6.6	3.36	6.73	0.12	0.43	0.01	0.006	0.05	2.1	20.4	1.82	809	0.27	0.04
I675877		3.43	10.2	2.83	6.25	0.16	0.38	0.11	0.008	0.09	2.5	11.3	1.07	792	0.30	0.13
I675878		0.17	2.7	2.77	7.38	0.16	0.30	0.01	0.005	0.04	2.2	16.2	1.58	917	0.32	0.03
I675879		0.25	49.0	3.01	5.38	0.13	0.21	0.01	0.008	0.07	2.8	5.0	1.38	1440	0.28	0.04
I675880		0.06	23.1	2.46	5.62	0.12	0.21	0.17	0.010	0.04	2.9	13.3	1.15	1520	1.07	0.04
I675881		0.39	639	2.59	7.37	0.14	0.29	0.08	0.009	0.05	5.5	5.0	0.27	344	0.97	0.37

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 15- AUG- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12179643

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
I675949		0.18	30.5	1780	2.8	17.0	0.001	0.02	0.11	5.2	0.7	0.4	102.0	<0.01	0.02	1.5
I675950		0.25	63.8	1170	1.3	8.9	0.021	0.75	0.09	4.8	2.1	0.5	99.5	0.01	0.04	1.0
I675851		0.08	69.0	700	2.2	12.4	0.001	0.14	0.06	6.1	1.2	0.2	1240	<0.01	0.03	<0.2
I675852		0.13	148.5	1150	3.2	10.2	0.018	1.13	0.06	6.8	3.0	0.2	810	<0.01	0.03	0.2
I675853		0.27	39.9	1730	3.2	40.0	0.002	0.04	0.08	4.6	0.6	0.4	147.5	<0.01	0.01	1.2
I675854		0.21	61.6	460	1.2	14.3	<0.001	0.01	0.05	6.7	0.3	0.3	92.6	<0.01	0.01	0.4
I675855		0.41	58.3	1030	4.1	4.4	0.019	6.51	0.08	3.8	3.5	0.4	433	0.01	0.34	0.6
I675856		0.19	27.4	1520	1.4	4.5	0.019	1.69	0.08	5.3	2.4	0.3	75.7	0.01	0.19	1.0
I675857		0.43	7.7	2210	3.3	22.6	0.001	0.02	0.13	3.2	0.6	0.4	174.0	0.01	0.01	1.7
I675858		0.21	19.1	1050	2.3	6.8	0.009	0.15	0.11	4.2	1.0	0.2	37.0	<0.01	0.02	1.8
I675859		0.37	22.2	1500	6.9	38.6	0.001	0.62	0.84	4.1	1.3	0.3	187.5	<0.01	0.05	0.9
I675860		0.25	18.3	1900	5.4	15.5	<0.001	0.02	0.13	6.2	0.7	0.5	48.5	<0.01	0.05	1.9
I675861		0.21	25.6	1930	2.6	12.2	0.001	0.02	0.05	6.0	0.6	0.4	593	<0.01	0.01	1.2
I675862		0.20	17.3	1110	4.1	8.7	0.001	0.30	0.24	6.9	0.7	0.3	49.2	<0.01	0.02	1.0
I675863		0.11	6.6	1000	7.9	5.0	0.001	0.91	0.35	7.2	0.9	0.2	96.7	<0.01	0.24	0.2
I675864		0.23	88.9	1690	1.8	1.1	0.001	0.03	0.15	7.3	0.5	0.4	112.0	<0.01	0.01	0.9
I675865		0.17	91.4	1600	2.3	1.2	<0.001	0.02	0.22	6.0	0.5	0.3	158.0	<0.01	0.01	0.7
I675866		0.06	12.9	880	1.9	3.6	<0.001	<0.01	0.15	4.0	0.5	0.2	100.5	<0.01	0.02	0.3
I675866_PD		0.07	12.8	880	1.9	3.7	<0.001	<0.01	0.15	4.3	0.5	0.2	105.0	<0.01	0.01	0.3
I675867		0.10	147.5	1910	4.5	10.8	<0.001	0.01	0.26	3.5	0.3	0.2	55.8	<0.01	0.05	0.6
I675867_CD		0.11	149.0	1910	4.5	12.7	<0.001	0.01	0.25	3.6	0.3	0.2	63.0	<0.01	0.05	0.7
I675868		0.18	118.5	1810	13.9	2.4	<0.001	0.17	0.73	4.5	0.8	0.2	107.0	<0.01	0.11	0.4
I675869		0.18	78.2	1710	6.2	2.4	<0.001	<0.01	1.05	4.2	0.2	0.2	174.5	<0.01	0.05	0.3
I675870		0.24	40.3	1800	11.7	2.2	<0.001	0.03	0.37	6.3	0.3	0.3	121.5	<0.01	0.14	0.4
I675871		0.17	72.2	1810	4.0	1.1	<0.001	<0.01	0.96	4.2	0.3	0.3	225	<0.01	0.03	0.3
I675872		0.21	87.6	1960	6.8	2.8	<0.001	<0.01	0.80	5.0	0.3	0.3	133.5	<0.01	0.04	0.4
I675873		0.24	92.6	1940	6.5	3.4	<0.001	0.08	0.55	3.9	1.6	0.2	90.9	<0.01	0.05	0.4
I675874		0.13	123.5	1780	4.4	8.3	<0.001	<0.01	0.68	3.8	0.3	0.2	105.5	<0.01	0.05	0.4
I675875		0.27	80.9	2020	4.4	7.6	<0.001	<0.01	0.49	4.7	0.3	0.3	118.5	<0.01	0.04	0.6
I675876		0.10	112.0	1840	7.4	3.1	<0.001	<0.01	0.28	3.6	0.3	0.2	59.3	<0.01	0.01	0.4
I675877		0.18	72.8	1770	5.3	6.1	<0.001	<0.01	0.40	3.9	0.3	0.3	122.0	<0.01	0.04	0.4
I675878		0.11	95.9	1830	25.4	1.9	<0.001	<0.01	0.32	2.9	0.3	0.2	116.5	<0.01	0.02	0.3
I675879		0.23	86.0	1780	8.9	2.8	<0.001	<0.01	0.16	4.2	0.3	0.2	124.0	<0.01	0.02	0.5
I675880		0.05	16.2	1040	42.9	1.2	0.003	0.01	0.34	5.9	0.4	0.2	86.3	<0.01	0.03	0.3
I675881		0.29	29.7	1310	3.3	1.7	0.007	1.18	0.20	3.7	1.9	0.4	208	0.01	0.07	0.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 15- AUG- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12179643

Sample Description	Method Analyte Units LOR	ME-MS41 Ti % 0.005	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
I675949		0.188	0.03	0.69	230	0.22	7.79	59	6.5
I675950		0.187	0.03	0.48	165	0.23	8.96	13	3.7
I675851		0.137	0.03	0.12	137	0.09	3.24	19	2.0
I675852		0.141	0.06	0.13	159	0.06	4.05	23	2.8
I675853		0.314	0.04	0.61	262	0.17	6.22	62	8.3
I675854		0.262	0.03	0.19	493	<0.05	2.20	40	4.2
I675855		0.148	0.03	0.55	99	0.20	6.26	17	7.1
I675856		0.163	0.06	0.45	96	0.26	8.10	15	6.5
I675857		0.212	0.03	0.76	209	0.24	12.05	40	5.1
I675858		0.188	0.02	1.37	189	0.31	5.74	17	5.3
I675859		0.384	1.02	0.25	153	0.24	10.05	109	2.2
I675860		0.275	0.03	0.89	246	0.66	9.97	72	15.7
I675861		0.219	0.02	0.65	233	0.19	8.14	48	9.0
I675862		0.278	0.08	0.54	290	0.41	7.36	46	4.1
I675863		0.138	0.02	0.13	71	0.19	6.29	31	5.7
I675864		0.202	<0.02	0.94	161	0.52	7.12	39	15.4
I675865		0.235	<0.02	0.64	112	0.19	5.82	57	10.9
I675866		0.097	<0.02	0.13	63	0.14	6.41	99	5.5
I675866_PD		0.106	0.02	0.14	66	0.13	6.61	99	5.9
I675867		0.209	0.04	0.38	124	0.46	4.60	74	12.7
I675867_CD		0.216	0.05	0.41	131	0.50	5.14	72	13.1
I675868		0.153	<0.02	0.24	81	0.76	3.42	91	8.9
I675869		0.140	<0.02	0.25	79	0.38	3.40	78	7.3
I675870		0.199	<0.02	0.32	93	0.37	5.19	59	8.7
I675871		0.175	<0.02	0.37	106	0.45	4.26	87	13.2
I675872		0.191	<0.02	0.39	108	0.46	4.90	95	9.7
I675873		0.189	<0.02	0.91	98	0.48	4.41	110	9.1
I675874		0.180	0.03	0.34	117	0.55	3.89	88	9.1
I675875		0.189	0.02	0.51	132	0.45	5.27	70	9.5
I675876		0.176	<0.02	0.34	102	0.46	4.42	81	12.8
I675877		0.196	<0.02	0.59	104	0.64	5.13	79	11.5
I675878		0.150	<0.02	0.36	79	0.47	4.39	107	7.9
I675879		0.162	<0.02	0.53	99	0.26	4.62	94	6.4
I675880		0.161	<0.02	0.19	74	0.34	7.06	335	5.9
I675881		0.140	<0.02	0.46	65	0.30	7.20	55	5.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 15- AUG- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12179643

Method	CERTIFICATE COMMENTS
ME- MS41	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown.
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).

APPENDIX 05: Whole Rock analysis certificates

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 14- SEP- 2012
Account: GOFICA

CERTIFICATE VA12207633

Project: RedGold

P.O. No.: RG- 2012- 008wrcpulp

This report is for 17 Pulp samples submitted to our lab in Vancouver, BC, Canada on 4- SEP- 2012.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL JULIANNE MADSEN TWILA SKINNER	NATE BREWER AMELIA RAINBOW TIM STUBLEY	MATT ECKFELDT ROSS SHERLOCK

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP06	Whole Rock Package - ICP- AES	ICP- AES
OA- GRA05	Loss on Ignition at 1000C	WST- SEQ
ME- MS81	38 element fusion ICP- MS	ICP- MS
TOT- ICP06	Total Calculation for ICP06	ICP- AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 14- SEP- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12207633

Sample Description	Method / Analyte / Units / LOR	ME- MS81 Ag ppm 1	ME- MS81 Ba ppm 0.5	ME- MS81 Ce ppm 0.5	ME- MS81 Co ppm 0.5	ME- MS81 Cr ppm 10	ME- MS81 Cs ppm 0.01	ME- MS81 Cu ppm 5	ME- MS81 Dy ppm 0.05	ME- MS81 Er ppm 0.03	ME- MS81 Eu ppm 0.03	ME- MS81 Ga ppm 0.1	ME- MS81 Gd ppm 0.05	ME- MS81 Hf ppm 0.2	ME- MS81 Ho ppm 0.01	ME- MS81 La ppm 0.5
M994891		<1	1125	23.3	19.9	80	0.93	58	3.42	2.15	1.07	18.9	3.56	2.1	0.75	11.6
M994802		<1	1135	23.8	22.8	130	1.59	141	3.51	2.18	1.10	18.4	3.66	2.5	0.75	11.5
M994767		<1	1055	22.9	27.2	230	1.80	45	3.46	2.14	1.13	18.1	3.51	2.0	0.76	11.4
M994744		<1	627	19.9	13.8	350	0.90	170	3.26	2.05	0.94	17.0	3.31	2.2	0.72	9.5
M994699		<1	980	25.9	18.6	30	1.27	723	3.69	2.25	1.11	19.3	3.64	3.0	0.79	12.8
M994685		<1	909	22.6	27.6	260	1.48	99	3.30	2.04	1.10	18.8	3.38	2.0	0.71	11.2
M994667		<1	974	20.6	18.3	80	0.84	453	3.33	1.99	1.07	19.8	3.43	1.9	0.71	9.9
M994649		<1	1640	18.0	7.3	20	0.66	499	2.24	1.41	0.81	19.2	2.36	2.2	0.48	8.7
M994664		<1	1950	20.1	5.9	20	0.81	278	3.11	1.96	0.94	19.5	3.12	3.0	0.68	8.8
M994902		<1	482	13.2	30.7	520	1.07	<5	3.15	1.95	0.97	13.9	2.91	1.4	0.69	6.0
M994928		<1	1125	19.4	18.5	100	0.58	69	2.98	1.88	0.97	18.2	3.10	2.0	0.63	9.4
M994975		<1	329	10.0	49.7	760	1.25	93	2.29	1.46	0.59	12.5	2.19	1.2	0.49	4.8
M994987		<1	274	11.2	38.0	680	0.79	142	2.42	1.50	0.67	13.9	2.30	1.3	0.52	5.3
M994998		<1	742	16.9	29.6	160	0.39	238	2.69	1.63	0.87	15.4	2.68	1.6	0.58	8.3
M995006		<1	549	10.6	40.4	660	1.08	28	2.48	1.52	0.70	12.6	2.57	1.0	0.53	5.3
M995118		<1	513	16.3	40.9	110	1.96	179	3.05	1.73	1.00	16.8	3.32	1.7	0.62	8.1
M995184		<1	1150	19.5	34.2	80	3.30	133	3.20	1.91	1.09	16.4	3.56	1.6	0.66	10.1

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 14- SEP- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12207633

Sample Description	Method	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81
	Analyte	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tl
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	2	0.2	0.1	5	5	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.5
M994891		0.32	<2	3.3	13.2	32	<5	3.10	74.6	3.27	<1	966	0.2	0.56	2.93	<0.5
M994802		0.33	2	3.2	13.7	54	7	3.15	70.0	3.30	1	1185	0.2	0.58	2.57	<0.5
M994767		0.32	<2	3.0	13.1	95	<5	3.01	64.0	3.32	1	900	0.2	0.57	1.91	<0.5
M994744		0.33	2	2.9	11.6	84	<5	2.67	31.2	2.96	1	914	0.2	0.53	1.81	<0.5
M994699		0.35	<2	5.3	14.1	17	<5	3.35	80.3	3.43	1	619	0.3	0.62	3.35	<0.5
M994685		0.30	2	3.1	12.9	106	<5	2.99	77.0	3.27	1	721	0.2	0.56	1.98	<0.5
M994667		0.31	<2	2.9	12.2	36	<5	2.83	60.7	3.13	1	577	0.2	0.56	2.05	<0.5
M994649		0.24	<2	3.6	9.4	11	<5	2.31	96.9	2.20	1	557	0.3	0.38	3.62	<0.5
M994664		0.31	<2	5.6	11.9	14	5	2.82	143.5	2.89	1	490	0.3	0.51	3.06	<0.5
M994902		0.28	<2	1.7	8.6	182	<5	1.86	66.4	2.44	1	559	0.1	0.51	0.89	<0.5
M994928		0.30	2	2.8	11.2	25	<5	2.64	41.4	2.82	1	838	0.2	0.49	1.72	<0.5
M994975		0.21	<2	1.5	6.5	312	<5	1.40	46.4	1.80	<1	413	0.1	0.36	0.82	<0.5
M994987		0.23	<2	1.6	7.1	271	<5	1.55	40.2	1.92	1	513	0.1	0.38	0.90	<0.5
M994998		0.25	5	2.6	9.7	55	7	2.30	31.7	2.45	1	595	0.2	0.44	1.73	<0.5
M995006		0.25	3	1.5	6.7	273	<5	1.54	43.2	1.89	<1	529	0.1	0.43	0.85	<0.5
M995118		0.25	2	2.0	10.4	45	6	2.40	60.0	2.81	1	865	0.1	0.53	1.83	<0.5
M995184		0.27	2	1.9	11.6	33	<5	2.83	70.2	3.03	<1	1005	0.1	0.57	1.86	<0.5

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 14- SEP- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12207633

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
	Analyte	Tm	U	V	W	Y	Yb	Zn	Zr	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%
	LOR	0.01	0.05	5	1	0.5	0.03	5	2	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M994891		0.33	0.67	307	<1	21.3	2.03	47	74	54.5	16.35	8.01	6.20	3.81	4.75	3.25
M994802		0.33	1.33	307	<1	21.1	2.01	84	89	53.2	16.50	7.92	6.84	4.19	4.17	3.29
M994767		0.32	0.72	315	<1	21.2	1.99	46	73	51.5	15.80	8.42	7.71	5.48	3.96	2.72
M994744		0.32	0.72	266	<1	19.6	2.01	36	72	54.4	15.65	5.93	8.63	5.21	4.95	1.56
M994699		0.35	1.61	337	<1	22.0	2.12	51	101	54.1	15.75	7.05	6.43	3.36	4.14	4.29
M994685		0.30	1.02	316	<1	21.0	1.88	63	77	52.5	15.65	8.32	7.99	5.33	3.62	3.13
M994667		0.31	0.43	356	<1	19.8	1.85	48	68	54.0	16.35	8.00	7.17	3.58	4.68	3.12
M994649		0.23	0.56	275	<1	13.9	1.40	26	74	60.0	16.15	4.68	4.03	1.54	4.36	6.99
M994664		0.31	0.64	218	10	18.1	1.90	28	109	59.9	16.45	3.24	3.03	1.09	3.18	9.15
M994902		0.30	0.46	334	<1	17.5	1.76	42	42	50.0	12.95	8.59	12.10	8.31	2.33	2.09
M994928		0.29	0.88	249	<1	18.6	1.81	33	68	54.5	17.20	6.41	8.57	3.17	4.70	2.13
M994975		0.22	0.47	281	<1	13.8	1.33	44	40	48.3	11.15	8.86	12.80	10.90	1.80	1.72
M994987		0.24	0.56	287	<1	14.0	1.41	39	41	49.4	12.60	9.16	12.65	8.61	2.58	1.41
M994998		0.25	0.90	255	<1	16.1	1.53	47	59	51.7	15.80	8.08	7.58	5.41	4.53	1.73
M995006		0.23	0.52	223	<1	15.0	1.41	49	34	50.0	12.30	9.60	8.53	11.90	2.00	2.04
M995118		0.28	1.08	384	1	17.7	1.63	86	56	46.7	13.60	13.00	11.80	6.59	2.47	2.05
M995184		0.28	1.05	331	<1	18.7	1.77	85	50	50.9	14.55	11.70	10.10	5.44	2.89	3.10

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 14- SEP- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12207633

Sample Description	Method	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
	Analyte	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
	Units	%	%	%	%	%	%	%	%
	LOR	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M994891		0.01	0.76	0.13	0.46	0.11	0.14	3.26	101.74
M994802		0.01	0.80	0.18	0.47	0.14	0.14	2.60	100.45
M994767		0.03	0.83	0.15	0.44	0.11	0.13	3.56	100.84
M994744		0.04	0.70	0.15	0.28	0.11	0.08	3.04	100.73
M994699		<0.01	0.78	0.12	0.40	0.08	0.12	2.92	99.54
M994685		0.03	0.81	0.16	0.43	0.08	0.11	3.25	101.41
M994667		0.01	0.78	0.13	0.46	0.07	0.12	3.31	101.78
M994649		<0.01	0.52	0.06	0.28	0.07	0.21	2.97	101.86
M994664		<0.01	0.45	0.05	0.20	0.06	0.24	3.47	100.51
M994902		0.06	0.66	0.15	0.23	0.07	0.06	3.09	100.69
M994928		0.01	0.67	0.10	0.24	0.10	0.14	3.10	101.04
M994975		0.09	0.57	0.15	0.22	0.05	0.04	3.63	100.28
M994987		0.08	0.59	0.15	0.25	0.06	0.03	3.10	100.67
M994998		0.02	0.69	0.12	0.27	0.07	0.09	3.48	99.57
M995006		0.10	0.56	0.16	0.23	0.07	0.07	3.49	101.05
M995118		0.02	0.82	0.22	0.34	0.11	0.06	1.32	99.10
M995184		0.01	0.75	0.20	0.46	0.12	0.13	1.23	101.58

APPENDIX 06: Trench Sample Descriptions

RedGold Trench Samples
Location and Description

Year Sampled	SampleID	Easting	Northing	Type	Comments	GF Lith Code	Lithology Code
2012	L191805	604534	5813584	ROCK	cpy; shear zone to trench; possible Bo; malachite; mod to strong mag; Teast Zone Trench 1	Not Recorded	Not Recorded
2012	L191806	604535	5813592	ROCK	East Zone Trench 1	Not Recorded	Not Recorded
2012	L191807	604536	5813583	ROCK	East Zone Trench 1	Not Recorded	Not Recorded
2012	L191808	604534	5813581	ROCK	East Zone Trench 1	Not Recorded	Not Recorded
2012	L191809	604537	5813584	ROCK	East Zone Trench 1	Not Recorded	Not Recorded
2012	L191810	604539	5813579	ROCK	East Zone Trench 1	Not Recorded	Not Recorded
2012	L191811	604538	5813575	ROCK	East Zone Trench 1	Not Recorded	Not Recorded
2012	L191812	604546	5813541	ROCK	(sampling random spaced samples along NW wall of trench L191812-L191818) contact zone between intrusive unknown rock , gossonous zone; East Zone Trench 3	Not Recorded	Not Recorded
2012	L191813	604550	5813549	ROCK	more chlorite/ep/gosson; goethite; East Zone Trench 3	Not Recorded	Not Recorded
2012	L191814	604551	5813552	ROCK	sheared-strong- prop alt; East Zone Trench 3	Not Recorded	Not Recorded
2012	L191815	604554	5813558	ROCK	fn gr intrussive, more lewcratic than trech 1; wk-mod mag; possible fn gr cpy; East Zone Trench 3	Not Recorded	Not Recorded
2012	L191816	604551	5813565	ROCK	possible hornsfels; hard; weak to moderate mag; East Zone Trench 3	Not Recorded	Not Recorded
2012	L191817	604548	5813565	ROCK	weak to moderate mag possible cpy; East Zone Trench 3	Not Recorded	Not Recorded
2012	L191818	604545	5813570	ROCK	similar to stuff on trench 1 on other side of road; malachite/ cpy; East Zone Trench 3	Not Recorded	Not Recorded
2012	L191819	603309	5812995	ROCK	cpy/mal/bo intersection of outcrop and trench; Quarry Zone Trench 1	Not Recorded	Not Recorded
2012	L191820	603302	5812996	ROCK	cpy/mal/bo; Quarry Zone Trench 1	Not Recorded	Not Recorded
2012	L191821	603304	5812998	ROCK	cpy/mal/bo; Quarry Zone Trench 1	Not Recorded	Not Recorded
2012	L191822	603303	5812997	ROCK	cpy/mal/bo; Quarry Zone Trench 1	Not Recorded	Not Recorded
2012	L191823	603229	5812997	ROCK	cpy/mal/bo; Quarry Zone Trench 1	Not Recorded	Not Recorded
2012	L191824	603297	5812996	ROCK	cpy/mal/bo; Quarry Zone Trench 1	Not Recorded	Not Recorded
2012	L191825	603300	5812999	ROCK	Quarry Zone Trench 1	Not Recorded	Not Recorded
2012	L191826	603299	5812997	ROCK	Quarry Zone Trench 1	Not Recorded	Not Recorded
2012	L191827	603297	5813000	ROCK	Quarry Zone Trench 1	Not Recorded	Not Recorded
2012	L191828	603296	5813001	ROCK	Quarry Zone Trench 1	Not Recorded	Not Recorded
2012	L191829	603298	5812998	ROCK	Quarry Zone Trench 1	Not Recorded	Not Recorded
2012	L191830	603294	5812999	ROCK	Quarry Zone Trench 1	Not Recorded	Not Recorded

RedGold Trench Samples
Location and Description

Year Sampled	SampleID	Easting	Northing	Type	Comments	GF Lith Code	Lithology Code
2012	L191831	603293	5812999	ROCK	Quarry Zone Trench 1	Not Recorded	Not Recorded
2012	L191832	603293	5812999	ROCK	Quarry Zone Trench 1	Not Recorded	Not Recorded
2012	L191833	603295	5813001	ROCK	Quarry Zone Trench 1	Not Recorded	Not Recorded
2012	L191834	603293	5813001	ROCK	Quarry Zone Trench 1	Not Recorded	Not Recorded
2012	L191835	603291	5813002	ROCK	Quarry Zone Trench 1	Not Recorded	Not Recorded
2012	L191836	603287	5813000	ROCK	Quarry Zone Trench 1	Not Recorded	Not Recorded
2012	L191837	603342	5813006	ROCK	Quarry Zone: top of trech is next to quarry; Quarry Zone Trench 2	Not Recorded	Not Recorded
2012	L191838	603343	5813009	ROCK	Quarry Zone Trench 2	Not Recorded	Not Recorded
2012	L191839	603344	5813012	ROCK	Quarry Zone Trench 2	Not Recorded	Not Recorded
2012	L191840	603346	5813014	ROCK	Quarry Zone Trench 2	Not Recorded	Not Recorded
2012	L191841	603347	5813016	ROCK	Quarry Zone Trench 2	Not Recorded	Not Recorded
2012	L191842	603348	5813018	ROCK	Quarry Zone Trench 2	Not Recorded	Not Recorded
2012	L191843	603349	5813020	ROCK	Quarry Zone Trench 2	Not Recorded	Not Recorded
2012	L191844	603350	5813022	ROCK	Quarry Zone Trench 2	Not Recorded	Not Recorded
2012	L191845	603352	5813026	ROCK	Quarry Zone Trench 2	Not Recorded	Not Recorded
2012	L191846	603352	5813028	ROCK	Quarry Zone Trench 2	Not Recorded	Not Recorded
2012	L191847	603352	5813030	ROCK	Quarry Zone Trench 2	Not Recorded	Not Recorded
2012	L191848	603352	5813031	ROCK	Quarry Zone Trench 2	Not Recorded	Not Recorded
2012	L191849	603352	5813032	ROCK	Quarry Zone Trench 2	Not Recorded	Not Recorded
2012	L191850	603352	5813034	ROCK	Quarry Zone Trench 2	Not Recorded	Not Recorded
2012	L191851	603352	5813036	ROCK	Quarry Zone Trench 2	Not Recorded	Not Recorded
2012	L191852	603352	5813037	ROCK	Quarry Zone Trench 2	Not Recorded	Not Recorded
2012	L191853	603351	5813039	ROCK	Quarry Zone Trench 2	Not Recorded	Not Recorded
2012	L191854	603315	5812970	ROCK	Starts at quarry (L191854-L191861) syenite with visible malachite + cpy; Quarry Zone Trench 3	Not Recorded	Not Recorded
2012	L191855	603313	5812972	ROCK	syenite with visible malachite + cpy; Quarry Zone Trench 3	Not Recorded	Not Recorded
2012	L191856	603311	5812974	ROCK	syenite with visible malachite + cpy; Quarry Zone Trench 3	Not Recorded	Not Recorded
2012	L191857	603309	5812975	ROCK	syenite with visible malachite + cpy; Quarry Zone Trench 3	Not Recorded	Not Recorded
2012	L191858	603308	5812976	ROCK	syenite with visible malachite + cpy; Quarry Zone Trench 3	Not Recorded	Not Recorded
2012	L191859	603307	5812977	ROCK	syenite with visible malachite + cpy; Quarry Zone Trench 3	Not Recorded	Not Recorded
2012	L191860	603306	5812977	ROCK	syenite with visible malachite + cpy; Quarry Zone Trench 3	Not Recorded	Not Recorded
2012	L191861	603305	5812977	ROCK	ends near forest; Quarry Zone Trench 3	Not Recorded	Not Recorded

RedGold Trench Samples
Location and Description

Year Sampled	SampleID	Easting	Northing	Type	Comments	GF Lith Code	Lithology Code
2012	L191862	604615	5813546	ROCK	no visible sulphides, massive, felsic, some possible feldspar/ RG12-M trench was sampled by random spaced grab samples based on geology of trench; RG12-M Trench	Not Recorded	Not Recorded
2012	L191863	604613	5813542	ROCK	no visible sulphides, more matic, igneous rock; RG12-M Trench	Not Recorded	Not Recorded
2012	L191864	604609	5813539	ROCK	mafic, no visible sulphides; RG12-M Trench	Not Recorded	Not Recorded
2012	L191865	604594	5813544	ROCK	ep present, contact zone with matic rock up trench, no visible sulphides; RG12-M Trench	Not Recorded	Not Recorded
2012	L191866	604592	5813547	ROCK	similar felsk rock as 4/5 no visible sx; RG12-M Trench	Not Recorded	Not Recorded
2012	L191867	603856	5813886	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191868	603853	5813885	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191869	603850	5813884	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191870	603847	5813883	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191871	603845	5813882	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191872	603840	5813881	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191873	603835	5813881	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191874	603830	5813881	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191875	603825	5813881	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191876	603820	5813881	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191877	603819	5813881	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191878	603818	5813884	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191879	603816	5813884	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191880	603814	5813884	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191881	603812	5813884	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191882	603810	5813884	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191883	603808	5813884	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191884	603800	5813885	ROCK	North Trench E-W	Not Recorded	Not Recorded
2012	L191885	603805	5813885	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191886	603807	5813887	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191887	603809	5813889	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191888	603811	5813891	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191889	603812	5813893	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191890	603814	5813894	ROCK	North Trench N-S	Not Recorded	Not Recorded

RedGold Trench Samples
Location and Description

Year Sampled	SampleID	Easting	Northing	Type	Comments	GF Lith Code	Lithology Code
2012	L191891	603815	5813894	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191892	603815	5813896	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191893	603815	5813898	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191894	603815	5813900	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191895	603815	5813902	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191896	603815	5813904	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191897	603815	5813906	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191898	603816	5813908	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191899	603814	5813911	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191900	603812	5813914	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191901	603811	5813917	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191902	603809	5813920	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191903	603808	5813923	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191904	603807	5813926	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191905	603806	5813929	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191906	603805	5813932	ROCK	North Trench N-S	Not Recorded	Not Recorded
2012	L191907	603804	5813933	ROCK	end of North trench; North Trench N-S	Not Recorded	Not Recorded
2012	L191908	603569	5813300	ROCK	RG12-F Trench	Not Recorded	Not Recorded
2012	L191909	603566	5813293	ROCK	RG12-F Trench	Not Recorded	Not Recorded
2012	L191910	603555	5813380	ROCK	RG12-F Trench	Not Recorded	Not Recorded
2012	L191911	603552	5813269	ROCK	RG12-F Trench	Not Recorded	Not Recorded
2012	L191912	604134	5813400	ROCK	starts at South end; RG12-P Trench	Not Recorded	Not Recorded
2012	L191913	604136	5813400	ROCK	RG12-P Trench	Not Recorded	Not Recorded
2012	L191914	604138	5813400	ROCK	RG12-P Trench	Not Recorded	Not Recorded
2012	L191915	604140	5813402	ROCK	RG12-P Trench	Not Recorded	Not Recorded
2012	L191916	604142	5813402	ROCK	RG12-P Trench	Not Recorded	Not Recorded
2012	L191917	604144	5813402	ROCK	RG12-P Trench	Not Recorded	Not Recorded
2012	L191918	604146	5813402	ROCK	RG12-P Trench	Not Recorded	Not Recorded
2012	L191919	604149	5813404	ROCK	RG12-P Trench	Not Recorded	Not Recorded
2012	L191920	604151	5813404	ROCK	RG12-P Trench	Not Recorded	Not Recorded
2012	L191921	604153	5813404	ROCK	RG12-P Trench	Not Recorded	Not Recorded
2012	L191922	604155	5813404	ROCK	RG12-P Trench	Not Recorded	Not Recorded
2012	L191923	604157	5813404	ROCK	RG12-P Trench	Not Recorded	Not Recorded

RedGold Trench Samples
Location and Description

Year Sampled	SampleID	Easting	Northing	Type	Comments	GF Lith Code	Lithology Code
2012	L191924	604159	5813404	ROCK	RG12-P Trench	Not Recorded	Not Recorded
2012	L191925	604160	5813405	ROCK	RG12-P Trench	Not Recorded	Not Recorded
2012	L191926	604538	5813591	ROCK	East Zone Trench 2	Not Recorded	Not Recorded
2012	L191927	604538	5813594	ROCK	East Zone Trench 2	Not Recorded	Not Recorded
2012	L191928	604537	5813597	ROCK	East Zone Trench 2	Not Recorded	Not Recorded
2012	L191929	604537	5813600	ROCK	East Zone Trench 2	Not Recorded	Not Recorded
2012	L191930	604536	5813603	ROCK	East Zone Trench 2	Not Recorded	Not Recorded
2012	L191931	604535	5813605	ROCK	East Zone Trench 2	Not Recorded	Not Recorded
2012	L191932	604535	5813607	ROCK	East Zone Trench 2	Not Recorded	Not Recorded
2012	L191933	604536	5813609	ROCK	East Zone Trench 2	Not Recorded	Not Recorded
2012	L191934	604536	5813611	ROCK	East Zone Trench 2	Not Recorded	Not Recorded
2012	L191935	604537	5813613	ROCK	East Zone Trench 2	Not Recorded	Not Recorded
2012	L191936	604538	5813615	ROCK	East Zone Trench 2	Not Recorded	Not Recorded
2012	L191937	604539	5813616	ROCK	East Zone Trench 2	Not Recorded	Not Recorded
2012	L191938	604540	5813616	ROCK	East Zone Trench 2	Not Recorded	Not Recorded

APPENDIX 07: Trench sample assay certificates

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

CERTIFICATE VA12268457

Project: RedGold

P.O. No.: RG- 2012- 009r

This report is for 144 Rock samples submitted to our lab in Vancouver, BC, Canada on 14- NOV- 2012.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL	NATE BREWER	MATT ECKFELDT
JULIANNE MADSEN	AMELIA RAINBOW	ROSS SHERLOCK
TWILA SKINNER	TIM STUBLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
SPL- 34	Pulp Splitting Charge
LOG- 21	Sample logging - ClientBarCode
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85% <75 um
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
LOG- 21d	Sample logging - ClientBarCode Dup

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12268457

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.2	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
L191805		1.50	0.225	0.42	1.93	15.8	0.4	<10	90	0.43	0.15	1.25	0.16	24.5	16.2	18
L191806		1.30	0.265	0.52	1.87	13.0	1.0	<10	100	0.42	0.50	1.12	0.09	20.4	15.4	29
L191807		1.70	0.088	0.22	1.74	12.0	0.2	<10	50	0.45	0.05	1.10	0.06	19.45	13.3	122
L191808		1.94	0.320	0.96	1.55	100.0	0.2	<10	60	0.44	0.32	1.10	0.07	20.5	15.4	69
L191809		2.06	0.167	0.49	1.34	7.8	0.2	<10	40	0.38	0.13	0.75	0.05	17.80	15.4	70
L191810		2.88	0.089	0.28	1.43	13.4	0.2	<10	50	0.53	0.08	0.90	0.05	19.50	17.8	36
L191811		1.48	0.185	0.25	1.06	11.6	0.2	<10	40	0.30	0.09	0.62	0.06	15.75	13.7	34
L191812		1.10	0.061	0.27	1.90	25.6	<0.2	<10	190	0.37	0.04	1.65	0.08	9.75	23.1	11
L191813		0.94	0.187	0.46	3.45	28.2	0.2	<10	390	0.40	0.05	1.87	0.12	10.05	28.0	14
L191814		1.26	0.062	0.32	3.75	8.8	<0.2	10	110	0.30	0.04	2.94	0.18	7.52	4.4	9
L191815		0.58	0.023	0.09	2.18	7.4	<0.2	<10	130	0.32	0.02	1.69	0.07	10.30	11.8	17
L191816		0.76	0.004	0.08	2.25	7.1	<0.2	<10	60	0.32	0.02	2.35	0.07	12.25	11.7	15
L191817		1.86	0.009	0.07	1.61	7.0	<0.2	<10	50	0.30	0.02	1.54	0.04	9.73	9.7	16
L191818		3.12	0.361	0.87	1.48	8.3	0.5	<10	30	0.48	0.16	2.15	0.18	16.90	19.7	28
L191819		0.82	0.250	0.41	0.55	5.6	<0.2	<10	50	0.29	0.06	1.72	0.07	14.40	4.8	3
L191820		0.66	0.584	0.30	0.72	7.6	<0.2	<10	40	0.43	0.05	1.86	0.09	10.50	5.5	4
L191821		0.68	3.74	0.82	0.65	6.6	0.9	<10	60	0.37	0.09	1.97	0.12	11.75	6.3	3
L191822		0.56	0.883	0.46	0.87	10.5	0.6	<10	60	0.47	0.11	2.25	0.11	12.15	6.6	4
L191823		0.66	1.325	0.29	0.88	7.1	0.3	<10	50	0.50	0.08	1.24	0.10	10.95	6.1	5
L191824		0.62	0.321	0.11	0.88	5.5	<0.2	<10	60	0.50	0.03	0.95	0.08	11.75	5.6	5
L191825		0.76	0.041	0.12	0.85	4.7	0.2	<10	60	0.45	0.02	0.75	0.05	11.15	5.4	6
L191826		0.64	0.314	0.08	1.23	6.6	<0.2	<10	50	0.65	0.04	1.24	0.07	12.25	6.1	6
L191827		0.70	0.104	0.07	1.16	5.0	<0.2	<10	40	0.65	0.03	1.08	0.07	12.75	5.5	5
L191828		0.78	0.044	0.05	0.99	4.7	<0.2	<10	50	0.54	0.02	0.78	0.06	12.05	6.1	9
L191829		0.72	0.378	0.32	0.90	5.5	1.1	<10	40	0.48	0.04	0.71	0.05	11.95	5.4	7
L191829_PD		<0.02	0.441	0.11	0.92	5.5	0.2	<10	40	0.47	0.05	0.73	0.06	13.20	5.5	7
L191830		0.80	0.995	0.08	0.94	4.8	<0.2	<10	70	0.44	0.03	0.73	0.05	11.40	6.0	6
L191831		0.62	0.600	1.17	1.77	8.5	0.9	<10	50	0.51	0.35	1.11	0.08	15.10	7.7	9
L191831_CD		<0.02	0.532	1.02	1.71	8.1	0.5	<10	50	0.53	0.34	1.08	0.08	15.20	7.8	9
L191832		1.26	2.01	2.18	1.03	36.6	1.0	<10	50	0.45	0.67	0.70	0.08	12.05	7.3	6
L191833		0.66	4.86	2.25	0.97	5.8	3.0	<10	40	0.58	0.80	0.98	0.07	11.20	6.4	5
L191834		0.62	0.166	0.15	1.11	4.1	<0.2	<10	40	0.50	0.07	1.24	0.05	11.30	7.9	5
L191835		0.50	0.423	0.46	0.80	3.6	0.2	<10	40	0.46	0.25	0.88	0.07	11.15	5.6	6
L191836		0.48	0.031	0.08	0.78	2.8	<0.2	<10	40	0.45	0.03	0.80	0.05	13.35	5.6	4
L191837		0.68	0.481	0.28	1.06	2.2	0.5	<10	50	0.80	0.03	2.04	0.17	13.10	4.8	3
L191838		0.80	0.687	0.31	0.69	3.9	0.7	<10	40	0.54	0.05	0.91	0.16	12.70	5.2	3
L191839		0.70	0.769	0.37	0.52	3.0	1.2	<10	40	0.39	0.03	0.85	0.12	13.50	4.1	3
L191840		0.98	0.238	0.14	0.96	3.2	<0.2	<10	40	0.55	0.02	1.30	0.11	13.05	4.6	4
L191841		0.88	0.055	0.12	1.12	4.4	<0.2	<10	40	0.60	0.02	1.45	0.17	12.85	4.7	3
L191842		0.74	0.087	0.14	0.97	3.7	<0.2	<10	40	0.47	0.02	1.12	0.10	11.20	4.6	3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12268457

Sample Description	Method Analyte Units LOR	ME- MS41 Cs ppm 0.05	ME- MS41 Cu ppm 0.2	ME- MS41 Fe % 0.01	ME- MS41 Ga ppm 0.05	ME- MS41 Ge ppm 0.05	ME- MS41 Hf ppm 0.02	ME- MS41 Hg ppm 0.01	ME- MS41 In ppm 0.005	ME- MS41 K % 0.01	ME- MS41 La ppm 0.2	ME- MS41 Li ppm 0.1	ME- MS41 Mg % 0.01	ME- MS41 Mn ppm 5	ME- MS41 Mo ppm 0.05	ME- MS41 Na % 0.01
L191805		0.95	676	4.78	7.00	0.11	0.16	0.15	0.052	0.18	10.2	9.2	0.98	680	0.41	0.07
L191806		0.76	816	5.18	7.56	0.11	0.16	0.24	0.038	0.16	9.8	10.0	1.11	542	0.36	0.06
L191807		0.71	962	3.83	6.99	0.11	0.17	0.20	0.025	0.13	9.6	13.4	1.40	421	0.33	0.06
L191808		0.77	1715	4.54	7.40	0.13	0.24	0.38	0.023	0.19	10.5	9.6	1.25	458	0.40	0.07
L191809		0.59	1080	3.88	7.47	0.13	0.22	0.14	0.017	0.15	8.8	11.5	1.49	382	0.26	0.06
L191810		0.45	1190	4.31	8.75	0.17	0.20	0.09	0.016	0.15	10.4	11.3	1.46	383	0.30	0.06
L191811		0.25	896	3.48	6.63	0.13	0.16	0.08	0.021	0.12	7.3	8.1	1.13	322	0.28	0.05
L191812		0.72	1450	4.34	6.36	0.10	0.18	0.57	0.018	0.11	5.1	4.9	0.53	402	2.58	0.08
L191813		0.70	2720	6.46	9.33	0.15	0.23	0.83	0.036	0.11	7.3	8.6	0.80	871	2.08	0.08
L191814		0.98	518	1.80	7.05	0.08	0.20	0.24	0.019	0.10	4.0	4.3	0.31	412	1.38	0.40
L191815		0.71	289	3.59	7.44	0.10	0.12	0.21	0.010	0.16	5.6	11.6	0.95	410	0.30	0.07
L191816		0.66	107.5	3.49	7.12	0.10	0.16	0.09	0.016	0.11	6.9	9.4	0.71	493	0.35	0.15
L191817		0.59	162.0	2.56	5.88	0.08	0.12	0.12	0.008	0.11	5.2	8.6	0.72	256	0.36	0.09
L191818		0.26	4700	3.77	8.82	0.23	0.23	0.22	0.052	0.10	10.2	6.0	0.93	418	0.77	0.06
L191819		0.27	1945	1.75	3.42	0.07	0.24	0.14	0.045	0.10	7.2	4.0	0.53	360	1.54	0.06
L191820		0.24	2280	2.28	4.84	0.08	0.24	0.20	0.036	0.09	5.2	6.3	0.71	327	3.48	0.04
L191821		0.20	7880	2.52	5.33	0.12	0.33	0.24	0.118	0.10	5.7	4.3	0.64	300	1.79	0.03
L191822		0.17	4930	2.93	7.52	0.16	0.27	0.17	0.074	0.12	6.0	5.1	0.70	362	1.54	0.03
L191823		0.37	3640	2.91	6.28	0.12	0.28	0.14	0.059	0.12	5.6	5.6	0.59	316	1.22	0.04
L191824		0.30	1440	2.55	5.08	0.09	0.27	0.08	0.035	0.12	5.9	6.3	0.46	317	0.51	0.05
L191825		0.32	723	2.45	4.81	0.08	0.24	0.06	0.020	0.11	5.8	8.4	0.53	337	0.37	0.04
L191826		0.21	1340	2.66	7.51	0.16	0.24	0.06	0.033	0.11	6.6	9.0	0.51	326	1.00	0.05
L191827		0.43	529	2.43	6.40	0.13	0.26	0.07	0.016	0.10	6.8	8.4	0.44	299	0.70	0.04
L191828		0.48	255	2.48	5.70	0.11	0.21	0.04	0.011	0.11	6.6	9.8	0.50	327	0.47	0.05
L191829		0.46	992	2.39	4.82	0.07	0.24	0.06	0.022	0.11	6.3	6.9	0.38	291	0.44	0.06
L191829_PD		0.50	1010	2.44	5.02	0.08	0.28	0.05	0.024	0.11	7.1	7.0	0.39	296	0.44	0.06
L191830		0.56	728	2.77	5.21	0.10	0.21	0.06	0.026	0.13	6.2	8.1	0.46	308	1.07	0.07
L191831		0.74	1280	2.91	7.80	0.12	0.21	0.09	0.019	0.10	8.1	8.3	0.58	481	0.51	0.05
L191831_CD		0.71	1175	2.88	7.93	0.13	0.22	0.09	0.019	0.11	8.1	8.3	0.58	475	0.50	0.05
L191832		0.51	3310	2.78	5.44	0.10	0.26	0.22	0.026	0.13	6.5	6.5	0.47	440	0.49	0.06
L191833		0.38	5540	2.78	5.40	0.13	0.23	0.39	0.032	0.12	6.2	6.3	0.38	378	0.61	0.06
L191834		0.36	349	2.88	5.66	0.09	0.20	0.11	0.011	0.11	6.3	8.1	0.47	442	0.31	0.08
L191835		0.37	1055	2.43	4.08	0.07	0.29	0.15	0.010	0.11	6.1	5.4	0.31	314	0.33	0.06
L191836		0.20	135.0	2.39	5.15	0.12	0.35	0.02	0.009	0.10	6.6	5.5	0.42	290	0.42	0.06
L191837		0.14	498	2.54	8.77	0.25	0.30	0.03	0.016	0.11	6.2	2.8	0.31	386	0.21	0.05
L191838		0.20	758	2.74	5.65	0.14	0.27	0.06	0.020	0.12	6.3	3.9	0.26	341	0.24	0.05
L191839		0.15	626	2.57	4.29	0.09	0.31	0.08	0.017	0.12	6.7	3.3	0.27	268	0.23	0.05
L191840		0.30	229	2.58	5.41	0.13	0.24	0.04	0.009	0.10	6.9	5.3	0.36	309	0.25	0.06
L191841		0.36	157.5	2.56	7.12	0.18	0.29	0.03	0.010	0.11	6.8	5.8	0.37	342	0.24	0.06
L191842		0.44	217	2.52	5.07	0.11	0.26	0.04	0.009	0.11	5.7	6.1	0.31	335	0.22	0.08

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12268457

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
L191805		0.15	15.6	1720	3.1	8.1	<0.001	0.05	0.29	8.6	0.7	0.4	214	<0.01	0.03	1.7
L191806		0.18	19.6	1610	2.7	7.0	<0.001	0.03	0.21	8.6	0.7	0.3	272	<0.01	0.09	1.3
L191807		0.14	38.5	1460	1.7	5.8	0.001	0.05	0.17	7.3	0.9	0.3	52.4	<0.01	0.03	1.3
L191808		0.21	32.0	1570	3.4	8.0	<0.001	0.06	0.68	8.4	2.1	0.3	62.9	<0.01	0.10	1.4
L191809		0.20	34.2	1340	2.0	7.1	<0.001	0.04	0.18	7.9	1.2	0.2	32.3	<0.01	0.03	1.3
L191810		0.19	24.8	1460	2.1	6.9	<0.001	0.06	0.22	8.4	1.4	0.2	37.6	<0.01	0.02	1.3
L191811		0.19	21.9	1340	2.1	4.3	<0.001	0.03	0.18	5.2	1.2	0.2	20.4	<0.01	0.04	1.5
L191812		0.10	10.5	900	2.6	4.3	0.001	0.05	0.40	6.2	1.3	0.2	397	<0.01	0.03	0.8
L191813		0.11	26.8	1160	3.6	3.2	0.001	0.02	0.39	11.0	2.0	0.4	1020	<0.01	0.06	0.7
L191814		0.11	5.8	1140	6.5	3.7	0.003	0.14	0.13	4.4	0.9	0.3	638	<0.01	0.03	0.5
L191815		0.12	11.2	1040	1.8	5.4	0.001	0.05	0.18	5.0	0.4	0.2	135.0	<0.01	<0.01	0.6
L191816		0.09	10.5	1050	1.8	4.1	0.001	0.08	0.12	5.8	0.5	0.2	127.5	<0.01	0.01	0.9
L191817		0.07	12.0	1110	1.8	3.7	0.001	0.13	0.12	4.1	0.7	<0.2	67.2	<0.01	<0.01	0.6
L191818		0.13	21.4	1230	2.4	3.3	0.002	0.46	0.17	6.5	4.7	0.3	36.3	<0.01	0.09	1.2
L191819		0.11	1.9	1070	4.3	2.4	0.006	0.17	0.20	1.9	1.5	0.2	57.7	<0.01	0.06	1.2
L191820		0.14	2.8	920	3.2	2.1	0.006	0.28	0.25	1.9	1.8	0.2	40.2	<0.01	0.05	1.1
L191821		0.20	2.9	1110	4.6	2.3	0.001	0.60	0.35	2.0	6.8	0.2	68.9	<0.01	0.14	1.6
L191822		0.16	3.6	1110	4.3	2.4	0.001	0.48	0.38	2.5	4.1	0.2	56.3	<0.01	0.14	1.4
L191823		0.18	4.0	930	4.9	3.3	0.001	0.24	0.30	2.8	3.0	0.2	36.4	<0.01	0.13	1.4
L191824		0.17	3.9	940	5.1	3.4	<0.001	0.06	0.24	2.3	1.0	0.2	57.1	<0.01	0.04	1.4
L191825		0.19	4.8	880	4.4	3.2	<0.001	0.05	0.18	2.5	0.6	0.2	55.6	<0.01	0.01	1.6
L191826		0.17	4.6	950	5.7	2.9	0.001	0.09	0.26	2.7	2.0	0.2	60.0	<0.01	0.05	1.4
L191827		0.25	5.1	850	6.0	3.1	0.001	0.01	0.22	2.3	0.4	0.2	45.6	0.01	0.03	2.0
L191828		0.21	6.3	940	4.8	3.6	<0.001	0.01	0.22	2.5	0.3	<0.2	57.2	<0.01	0.01	1.9
L191829		0.26	5.3	910	4.9	3.3	<0.001	0.03	0.23	2.4	0.7	0.2	55.8	0.01	0.06	2.3
L191829_PD		0.26	5.6	930	5.3	3.5	<0.001	0.03	0.25	2.4	0.7	0.2	59.6	0.01	0.06	2.5
L191830		0.21	4.5	1010	4.8	4.3	0.001	0.04	0.26	2.3	1.4	0.2	115.0	<0.01	0.03	1.6
L191831		0.36	9.5	920	6.0	4.2	<0.001	0.01	0.49	4.5	2.0	0.2	83.6	0.01	0.12	1.9
L191831_CD		0.33	9.5	880	5.9	4.3	<0.001	0.01	0.49	4.5	2.0	0.2	82.5	0.01	0.11	1.9
L191832		0.29	5.8	900	5.2	5.2	<0.001	0.04	5.15	3.5	5.0	0.2	67.1	0.01	0.31	1.7
L191833		0.28	4.7	930	5.4	4.2	<0.001	0.17	1.46	2.6	10.3	0.2	60.5	0.01	0.49	1.6
L191834		0.19	5.8	980	4.3	4.1	<0.001	0.01	0.43	3.4	0.4	0.2	97.3	<0.01	0.02	1.3
L191835		0.22	4.9	860	4.8	3.5	<0.001	0.02	0.36	2.0	1.2	0.2	48.7	<0.01	0.07	2.4
L191836		0.25	3.8	810	4.2	2.4	<0.001	<0.01	0.31	2.0	0.2	0.2	69.9	0.01	0.01	1.8
L191837		0.20	2.6	780	5.6	2.2	<0.001	0.02	0.21	2.1	0.6	<0.2	61.2	<0.01	0.04	2.0
L191838		0.22	3.1	960	7.7	3.0	<0.001	0.05	0.21	1.6	1.5	<0.2	19.6	<0.01	0.08	1.6
L191839		0.27	2.8	900	5.8	2.3	<0.001	0.04	0.19	1.5	1.2	0.2	26.6	<0.01	0.06	2.2
L191840		0.21	3.0	970	4.8	2.4	<0.001	0.01	0.18	1.9	0.4	0.2	62.5	<0.01	0.05	1.9
L191841		0.26	3.0	900	7.2	2.9	<0.001	0.01	0.22	2.2	0.3	0.2	52.8	0.01	0.02	1.7
L191842		0.25	3.0	900	5.6	2.9	<0.001	0.01	0.20	1.8	0.3	<0.2	92.7	0.01	0.02	1.6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12268457

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
L191805		0.149	0.04	0.46	246	0.12	12.65	45	5.8
L191806		0.184	0.03	0.47	260	0.15	11.80	34	6.1
L191807		0.186	0.02	0.42	160	0.16	10.15	24	4.7
L191808		0.230	0.03	0.40	278	0.26	11.80	33	5.8
L191809		0.275	0.02	0.33	243	0.30	11.00	25	4.4
L191810		0.282	0.02	0.39	269	0.35	13.85	26	4.2
L191811		0.213	<0.02	0.36	230	0.15	10.55	21	3.3
L191812		0.110	0.02	0.38	105	0.18	6.81	18	4.5
L191813		0.098	0.02	1.13	109	0.15	11.25	27	8.0
L191814		0.103	0.02	0.71	56	0.13	6.67	35	6.6
L191815		0.201	0.02	0.20	164	0.21	7.17	19	2.7
L191816		0.146	0.02	0.54	136	0.11	10.75	31	3.9
L191817		0.118	<0.02	0.27	116	0.17	7.72	13	2.7
L191818		0.173	<0.02	0.59	219	0.59	11.80	21	6.0
L191819		0.069	0.02	0.61	94	0.16	8.28	26	5.6
L191820		0.068	0.02	0.50	122	0.22	6.75	25	5.2
L191821		0.076	0.02	0.51	112	0.30	8.10	25	6.9
L191822		0.084	0.03	0.46	149	0.43	8.14	27	6.4
L191823		0.073	0.03	0.47	146	0.29	6.94	25	6.2
L191824		0.074	0.02	0.46	125	0.23	6.77	27	5.6
L191825		0.071	0.02	0.46	119	0.23	6.72	26	6.0
L191826		0.074	<0.02	0.50	126	0.44	7.28	29	6.0
L191827		0.068	0.02	0.64	110	0.36	7.09	27	6.2
L191828		0.071	<0.02	0.64	114	0.34	7.02	25	5.4
L191829		0.068	0.02	0.71	111	0.28	6.45	25	5.8
L191829_PD		0.068	0.02	0.75	114	0.31	6.82	25	5.9
L191830		0.081	0.02	0.67	133	0.38	6.68	23	5.1
L191831		0.101	0.03	0.70	132	0.50	8.49	27	5.9
L191831_CD		0.102	0.03	0.72	132	0.52	8.53	27	6.0
L191832		0.084	0.03	0.70	130	0.28	7.49	27	5.9
L191833		0.079	0.02	0.73	124	0.55	6.89	27	5.4
L191834		0.077	0.02	0.58	127	0.24	6.65	33	5.1
L191835		0.072	0.02	0.66	117	0.21	6.15	29	6.8
L191836		0.076	<0.02	0.59	110	0.29	8.52	23	8.3
L191837		0.079	<0.02	0.47	133	0.49	8.55	33	6.9
L191838		0.077	<0.02	0.53	134	0.29	7.50	38	6.6
L191839		0.079	<0.02	0.65	123	0.27	7.64	33	6.9
L191840		0.076	<0.02	0.70	122	0.24	7.29	30	5.5
L191841		0.081	<0.02	0.65	119	0.30	7.22	38	6.6
L191842		0.077	<0.02	0.48	121	0.22	6.38	33	6.1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12268457

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.2	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
L191843		1.18	0.081	0.16	1.03	4.4	<0.2	<10	40	0.57	0.03	1.24	0.09	12.35	5.2	3
L191844		0.66	0.056	0.20	0.85	4.1	<0.2	<10	40	0.48	0.03	1.18	0.09	11.30	5.2	3
L191845		0.92	0.093	0.10	0.57	5.9	<0.2	<10	20	0.60	0.06	0.61	0.05	14.20	12.2	9
L191846		0.84	0.424	0.06	0.61	8.9	0.3	<10	20	0.49	0.02	1.08	0.07	12.60	5.7	9
L191847		0.90	0.552	0.24	0.61	4.9	0.2	<10	30	0.34	0.05	0.71	0.09	12.30	5.2	4
L191848		1.08	0.025	0.07	0.94	4.5	<0.2	<10	30	0.50	0.02	1.20	0.12	10.55	4.6	3
L191849		1.00	0.142	0.07	0.88	4.2	<0.2	<10	30	0.50	0.04	0.83	0.09	11.05	5.1	3
L191850		1.30	0.886	0.12	0.60	3.4	0.5	<10	30	0.40	0.09	0.55	0.09	11.35	4.8	3
L191851		1.44	0.130	0.14	0.85	3.4	0.3	<10	30	0.48	0.02	0.75	0.09	11.70	4.7	3
L191852		1.06	0.170	0.06	0.75	6.1	<0.2	<10	30	0.62	0.02	0.61	0.07	12.75	5.1	4
L191853		1.22	0.412	0.08	0.51	4.3	0.4	<10	40	0.33	0.04	0.65	0.07	12.30	5.2	5
L191854		1.00	0.048	0.11	0.94	3.6	<0.2	<10	30	0.56	0.03	0.74	0.06	13.40	5.1	3
L191854_PD		<0.02	0.063	0.11	0.91	3.7	<0.2	<10	30	0.58	0.03	0.72	0.05	12.70	5.0	3
L191855		1.20	0.171	0.14	0.92	3.5	<0.2	<10	40	0.65	0.03	0.82	0.05	12.35	4.6	4
L191855_CD		<0.02	0.147	1.17	0.89	3.3	3.7	<10	30	0.57	0.03	0.79	0.06	12.15	4.5	3
L191856		0.86	0.016	0.05	1.02	6.4	<0.2	<10	30	0.63	0.02	0.78	0.06	13.40	5.1	3
L191857		1.08	0.043	0.06	0.88	4.0	<0.2	<10	30	0.63	0.02	0.76	0.05	12.10	4.7	3
L191858		1.76	0.008	0.04	1.12	5.7	<0.2	<10	40	0.76	0.02	1.00	0.05	13.35	5.1	3
L191859		1.22	0.021	0.04	1.09	8.2	<0.2	<10	40	0.63	0.02	0.94	0.06	11.60	5.4	3
L191860		1.34	0.821	1.03	0.90	6.8	0.6	<10	40	0.52	0.54	0.79	0.06	12.00	5.6	3
L191861		1.68	0.358	0.12	1.10	5.8	0.7	<10	50	0.74	0.09	0.93	0.06	11.10	6.2	4
L191862		1.46	0.004	0.04	2.32	7.1	<0.2	10	60	0.89	0.01	4.23	0.13	11.90	3.7	50
L191863		1.48	0.005	0.04	1.59	11.1	<0.2	<10	40	0.45	0.02	1.92	0.04	11.20	8.3	164
L191864		1.40	0.005	0.04	0.98	5.6	<0.2	<10	60	0.21	0.02	1.18	0.01	11.55	6.9	142
L191865		1.40	0.031	0.15	1.14	5.5	<0.2	<10	80	0.34	0.03	2.60	0.03	14.00	7.1	97
L191866		1.94	0.003	0.03	1.83	7.3	<0.2	10	10	1.03	0.02	3.86	0.05	8.11	2.3	4
L191867		1.78	0.024	0.08	1.21	0.9	<0.2	<10	30	0.14	0.03	1.03	0.01	12.60	8.0	156
L191868		1.34	0.092	0.16	1.47	4.7	<0.2	<10	40	0.27	0.04	1.29	0.07	12.70	13.8	108
L191869		1.36	0.092	0.14	1.87	3.4	<0.2	<10	40	0.22	0.03	1.13	0.02	11.05	7.5	145
L191870		1.62	0.129	0.10	1.78	3.0	<0.2	<10	50	0.25	0.03	1.25	0.02	9.90	8.0	284
L191871		1.58	0.052	0.21	1.66	4.2	<0.2	<10	50	0.32	0.07	1.16	0.01	11.20	14.0	48
L191872		2.26	0.105	0.55	2.22	7.3	0.2	<10	20	0.43	0.09	1.98	0.03	7.52	10.8	131
L191873		1.46	0.089	0.36	2.01	5.8	<0.2	<10	20	0.40	0.11	1.69	0.02	10.05	7.4	100
L191874		1.26	0.029	0.19	1.91	3.6	<0.2	<10	50	0.27	0.04	1.39	0.04	10.40	11.8	103
L191875		1.48	0.011	0.07	1.74	3.6	<0.2	<10	20	0.45	0.02	1.49	0.04	11.70	7.4	121
L191876		1.42	0.037	0.32	2.04	6.3	<0.2	<10	20	0.38	0.07	1.35	0.06	8.60	12.2	59
L191877		1.50	0.032	0.24	1.49	5.5	<0.2	<10	20	0.35	0.07	1.43	0.03	8.19	11.3	79
L191878		1.72	0.828	1.19	1.94	4.2	0.7	<10	20	0.47	0.05	1.79	0.11	11.85	17.8	80
L191879		2.14	0.507	1.38	1.89	3.8	1.8	10	10	0.54	0.02	1.96	0.09	10.40	10.5	82
L191879_PD		<0.02	0.417	0.70	1.88	3.8	0.3	<10	10	0.57	0.03	1.96	0.09	10.15	10.4	83

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12268457

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
L191843		0.56	354	2.50	5.70	0.14	0.23	0.06	0.013	0.11	6.3	5.8	0.34	292	0.67	0.06
L191844		0.46	409	2.58	5.01	0.12	0.25	0.04	0.012	0.11	5.8	5.0	0.39	288	1.60	0.05
L191845		0.14	865	1.70	4.19	0.06	0.35	0.05	0.026	0.10	7.3	5.5	0.41	400	0.36	0.04
L191846		0.10	351	2.24	5.00	0.06	0.32	0.06	0.016	0.09	6.2	5.6	0.55	486	0.76	0.04
L191847		0.85	692	2.50	4.06	0.08	0.24	0.07	0.008	0.12	6.4	7.1	0.40	464	1.28	0.04
L191848		0.46	221	2.47	5.22	0.11	0.21	0.03	0.009	0.10	5.5	6.6	0.37	314	0.26	0.06
L191849		0.48	333	2.58	5.60	0.13	0.23	0.05	0.014	0.12	5.7	6.6	0.39	358	0.28	0.05
L191850		0.31	1380	2.72	4.48	0.11	0.30	0.09	0.027	0.11	5.7	4.6	0.30	313	0.26	0.04
L191851		0.56	231	2.68	4.39	0.10	0.22	0.05	0.012	0.13	6.1	6.1	0.33	345	0.26	0.06
L191852		0.48	297	2.68	4.70	0.09	0.31	0.07	0.013	0.10	6.6	5.5	0.45	321	0.25	0.04
L191853		0.19	343	2.75	4.17	0.06	0.33	0.06	0.010	0.11	6.1	3.0	0.39	336	0.27	0.04
L191854		0.33	208	2.86	5.66	0.12	0.27	0.14	0.023	0.10	6.1	3.7	0.50	360	0.41	0.06
L191854_PD		0.33	205	2.83	5.61	0.10	0.27	0.14	0.019	0.09	5.9	3.7	0.50	357	0.41	0.06
L191855		0.44	489	2.60	5.34	0.13	0.29	0.27	0.025	0.12	6.0	3.9	0.33	291	0.50	0.06
L191855_CD		0.42	488	2.51	5.27	0.12	0.30	0.32	0.023	0.11	5.9	3.9	0.32	272	0.40	0.06
L191856		0.89	155.0	2.66	5.72	0.10	0.37	0.13	0.016	0.11	7.7	5.8	0.50	379	0.36	0.06
L191857		0.30	155.5	2.59	5.65	0.11	0.30	0.12	0.014	0.10	6.3	4.4	0.46	296	0.61	0.06
L191858		0.31	108.5	2.86	6.15	0.13	0.25	0.07	0.014	0.12	6.7	6.5	0.44	303	0.26	0.08
L191859		0.24	127.5	2.69	5.97	0.13	0.24	0.08	0.010	0.12	5.5	7.5	0.41	320	0.23	0.08
L191860		0.31	2730	2.49	4.77	0.14	0.25	0.16	0.023	0.12	6.2	7.2	0.31	264	0.38	0.07
L191861		0.36	427	2.58	6.04	0.16	0.21	0.08	0.013	0.12	5.7	7.1	0.36	283	0.25	0.07
L191862		0.43	32.8	0.82	8.57	0.13	0.26	0.38	0.010	0.08	5.5	8.1	0.73	307	0.37	0.07
L191863		0.36	35.9	2.19	6.49	0.10	0.14	0.19	0.011	0.10	5.5	8.5	0.69	291	0.26	0.07
L191864		0.37	65.4	2.97	4.49	0.07	0.12	0.13	0.009	0.07	5.7	5.2	0.38	139	0.24	0.09
L191865		0.39	398	2.58	5.52	0.10	0.25	0.33	0.017	0.09	7.9	4.5	0.58	393	0.51	0.07
L191866		0.20	62.0	0.64	7.99	0.11	0.25	0.14	0.010	0.07	3.5	3.1	0.34	232	0.40	0.08
L191867		0.34	93.4	3.43	5.84	0.10	0.07	0.05	0.012	0.17	6.4	7.4	0.69	142	0.92	0.11
L191868		0.42	680	3.42	7.20	0.11	0.11	0.40	0.016	0.14	6.4	7.9	0.72	175	7.65	0.08
L191869		0.60	421	3.63	8.17	0.14	0.09	0.04	0.012	0.21	5.6	13.6	1.09	217	2.88	0.07
L191870		0.56	331	3.52	7.63	0.13	0.09	0.06	0.013	0.23	5.2	11.7	1.06	238	6.26	0.07
L191871		0.51	348	5.98	9.53	0.17	0.13	0.24	0.019	0.18	5.5	12.2	1.13	316	7.53	0.06
L191872		0.19	867	5.82	9.91	0.23	0.24	0.25	0.022	0.07	3.9	5.5	0.79	308	5.16	0.06
L191873		0.29	428	6.36	11.55	0.21	0.15	0.65	0.022	0.11	4.9	7.7	0.87	256	11.95	0.05
L191874		0.52	524	3.80	7.50	0.14	0.12	0.23	0.011	0.26	4.6	10.9	0.99	239	12.80	0.08
L191875		0.21	336	3.52	8.21	0.15	0.09	0.44	0.007	0.09	5.5	7.4	0.60	163	12.15	0.06
L191876		0.28	976	4.27	7.06	0.15	0.24	0.33	0.011	0.10	4.2	8.3	0.37	185	7.14	0.07
L191877		0.42	640	4.13	5.99	0.11	0.23	0.21	0.009	0.10	4.1	5.6	0.27	144	3.26	0.07
L191878		0.39	2580	2.27	8.00	0.15	0.14	0.30	0.056	0.10	5.4	12.8	0.94	287	6.44	0.07
L191879		0.31	2250	1.80	8.78	0.17	0.15	0.30	0.047	0.07	4.5	12.4	0.85	314	6.01	0.07
L191879_PD		0.31	2270	1.79	8.67	0.17	0.15	0.21	0.047	0.07	4.4	11.9	0.85	316	6.39	0.07

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12268457

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
L191843		0.23	3.2	950	4.9	3.3	0.001	0.01	0.18	1.9	0.4	<0.2	53.3	<0.01	0.04	2.0
L191844		0.18	3.2	940	4.5	2.9	0.002	0.03	0.21	2.1	0.4	<0.2	31.4	<0.01	0.04	1.6
L191845		0.12	3.9	490	2.9	2.2	<0.001	0.08	0.33	4.2	0.7	<0.2	14.1	<0.01	0.05	5.1
L191846		0.10	4.5	610	2.5	2.1	0.002	0.10	0.40	4.2	0.3	<0.2	12.9	<0.01	0.02	4.3
L191847		0.16	4.0	920	5.3	5.3	0.003	0.01	0.41	1.8	0.6	<0.2	25.7	<0.01	0.04	1.8
L191848		0.17	3.1	920	5.4	3.0	<0.001	0.01	0.31	1.9	0.2	<0.2	51.9	<0.01	0.01	1.0
L191849		0.18	3.3	910	5.9	3.1	<0.001	0.01	0.34	2.3	0.8	<0.2	35.4	0.01	0.03	1.1
L191850		0.22	3.3	840	8.9	2.9	<0.001	0.10	0.94	1.7	4.3	0.2	20.1	0.01	0.17	1.5
L191851		0.21	3.4	910	5.1	4.0	<0.001	0.01	0.40	2.1	0.6	<0.2	44.6	0.01	0.04	1.1
L191852		0.25	3.9	900	5.4	3.5	<0.001	0.02	0.47	2.5	0.6	0.2	24.6	0.01	0.03	2.0
L191853		0.24	4.6	630	5.9	2.4	<0.001	0.03	0.60	1.8	0.7	0.2	26.9	<0.01	0.02	2.1
L191854		0.19	3.4	970	4.4	2.8	<0.001	0.02	0.16	2.8	0.6	0.2	22.9	<0.01	0.01	1.3
L191854_PD		0.18	3.2	960	4.1	2.6	<0.001	0.02	0.16	2.7	0.3	0.2	22.2	<0.01	0.01	1.3
L191855		0.24	3.0	920	4.3	3.4	<0.001	0.04	0.15	2.1	1.9	0.2	33.5	<0.01	0.09	1.2
L191855_CD		0.24	2.8	910	4.2	3.1	0.001	0.04	0.15	2.1	1.5	0.2	32.1	0.01	0.05	1.2
L191856		0.21	3.2	960	3.1	4.3	<0.001	0.02	0.20	3.3	0.3	0.2	35.0	<0.01	0.03	1.4
L191857		0.16	2.8	930	3.7	2.7	0.001	0.02	0.16	2.6	0.3	0.2	23.8	<0.01	0.02	1.3
L191858		0.18	3.4	1000	3.9	3.1	<0.001	0.02	0.20	2.5	0.4	0.2	50.3	<0.01	<0.01	1.2
L191859		0.17	3.6	960	4.6	3.5	<0.001	0.02	0.22	2.3	0.3	0.2	61.8	<0.01	<0.01	1.0
L191860		0.26	2.7	960	4.6	3.2	<0.001	0.11	0.19	1.9	6.1	<0.2	66.7	0.01	0.24	1.5
L191861		0.25	3.1	990	4.0	3.6	<0.001	0.01	0.16	2.5	0.7	<0.2	82.1	0.01	0.04	1.4
L191862		0.10	10.4	1020	8.3	3.1	<0.001	0.01	0.09	5.5	0.3	0.2	107.0	<0.01	<0.01	1.1
L191863		0.14	51.2	1170	2.0	3.6	0.001	0.11	0.09	4.4	0.4	0.3	44.9	<0.01	0.01	0.8
L191864		0.15	37.3	1210	1.0	2.4	0.001	0.07	0.07	3.1	0.4	0.2	134.0	<0.01	<0.01	1.0
L191865		0.11	29.5	1220	3.1	3.7	0.001	0.03	0.13	3.8	0.5	0.2	200	<0.01	0.01	1.9
L191866		0.15	6.6	930	1.9	2.6	0.001	0.02	0.14	3.4	0.2	0.2	36.4	<0.01	<0.01	1.4
L191867		0.17	51.0	1170	0.8	6.4	0.002	0.13	0.09	2.6	0.5	0.3	51.4	<0.01	0.01	0.9
L191868		0.18	59.0	1140	1.6	5.5	0.005	0.07	0.16	4.0	1.2	0.4	76.8	<0.01	0.03	1.1
L191869		0.28	54.3	1180	1.2	10.4	0.005	0.17	0.08	2.9	2.0	0.6	78.5	<0.01	0.05	0.9
L191870		0.25	89.1	1200	1.3	11.4	0.012	0.27	0.07	3.2	1.9	0.6	70.4	<0.01	0.06	0.7
L191871		0.21	24.2	1370	1.1	8.0	0.004	0.18	0.14	4.9	2.3	0.9	39.5	<0.01	0.05	0.8
L191872		0.12	38.2	1270	2.7	3.2	0.019	1.82	0.14	6.0	10.8	0.6	86.0	<0.01	0.25	0.5
L191873		0.16	35.4	1280	3.4	4.2	0.040	0.59	0.14	4.6	10.0	0.7	48.1	<0.01	0.15	0.8
L191874		0.19	40.9	1220	2.6	11.2	0.021	0.99	0.07	3.5	2.9	0.6	60.5	<0.01	0.07	0.7
L191875		0.20	32.2	1150	1.8	3.5	0.006	0.14	0.06	2.8	1.5	0.4	46.2	<0.01	0.02	1.1
L191876		0.15	38.5	1270	3.9	3.4	0.018	1.49	0.11	4.2	7.1	0.8	145.5	<0.01	0.13	0.5
L191877		0.18	28.9	1220	3.4	4.1	0.019	1.53	0.09	2.5	5.0	0.7	101.0	<0.01	0.11	0.7
L191878		0.13	52.9	1290	5.9	3.7	0.025	0.59	0.09	4.0	3.2	0.4	27.2	<0.01	0.04	0.9
L191879		0.14	34.1	1190	2.9	2.6	0.024	0.18	0.09	4.5	1.6	0.5	21.9	<0.01	0.02	0.7
L191879_PD		0.13	33.7	1200	2.7	2.5	0.027	0.19	0.09	4.5	1.6	0.5	21.9	<0.01	0.02	0.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12268457

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Tl	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
L191843		0.074	<0.02	0.52	123	0.31	7.35	27	5.7
L191844		0.073	<0.02	0.52	131	0.29	6.66	25	5.6
L191845		0.025	0.02	0.73	78	0.10	9.09	26	7.1
L191846		0.036	0.02	0.68	103	0.11	9.24	29	6.4
L191847		0.072	<0.02	0.48	128	0.32	7.63	27	5.4
L191848		0.068	<0.02	0.37	124	0.26	6.41	26	4.8
L191849		0.071	<0.02	0.35	135	0.35	6.50	27	5.3
L191850		0.065	<0.02	0.38	127	0.26	6.44	29	6.3
L191851		0.071	<0.02	0.44	136	0.27	6.37	27	5.2
L191852		0.072	<0.02	0.64	118	0.22	6.91	24	7.3
L191853		0.076	0.02	0.53	136	0.25	7.87	28	7.7
L191854		0.064	<0.02	0.43	141	0.13	7.05	26	7.1
L191854_PD		0.061	<0.02	0.43	138	0.12	6.90	26	6.9
L191855		0.066	<0.02	0.47	121	0.13	6.21	23	7.5
L191855_CD		0.061	0.02	0.47	117	0.13	6.12	22	7.3
L191856		0.076	0.02	0.65	120	0.15	7.57	21	8.9
L191857		0.066	<0.02	0.61	115	0.13	6.20	25	7.3
L191858		0.070	<0.02	0.52	128	0.16	6.62	23	6.9
L191859		0.076	<0.02	0.41	128	0.19	5.94	26	6.0
L191860		0.075	<0.02	0.48	118	0.27	6.66	21	6.3
L191861		0.081	<0.02	0.43	124	0.25	6.26	22	5.2
L191862		0.137	<0.02	0.45	69	0.26	9.26	22	6.3
L191863		0.150	0.02	0.33	118	0.18	5.86	18	3.0
L191864		0.105	<0.02	0.39	132	0.07	4.79	10	2.7
L191865		0.113	0.02	0.45	111	0.14	8.58	17	5.9
L191866		0.091	0.02	0.40	41	0.21	7.41	15	5.4
L191867		0.195	0.04	0.34	160	0.24	4.61	12	1.4
L191868		0.217	0.06	0.49	154	0.31	6.28	20	2.5
L191869		0.259	0.04	0.43	151	0.18	5.23	18	2.1
L191870		0.265	0.04	0.32	167	0.24	6.38	19	2.1
L191871		0.353	0.03	0.61	223	0.64	7.14	17	3.1
L191872		0.105	0.02	0.51	114	0.44	5.01	28	6.2
L191873		0.191	0.02	0.48	129	0.75	5.42	19	3.4
L191874		0.279	0.04	0.49	141	0.20	5.89	20	2.5
L191875		0.194	0.02	0.45	141	0.22	6.27	17	2.2
L191876		0.127	0.02	0.71	62	0.29	5.37	21	6.2
L191877		0.121	0.02	0.61	68	0.23	4.96	14	5.2
L191878		0.140	0.02	0.53	85	0.33	6.91	37	2.8
L191879		0.145	<0.02	0.63	82	0.42	6.76	37	3.5
L191879_PD		0.143	<0.02	0.61	83	0.41	6.56	35	3.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12268457

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
L191880		1.76	1.495	1.97	1.98	5.6	1.4	10	10	0.70	0.06	1.94	0.10	12.20	9.1	48
L191881		1.72	0.031	0.17	1.92	4.0	<0.2	<10	30	0.74	0.03	1.62	0.05	15.35	12.1	20
L191881_CD		<0.02	0.042	0.18	2.00	4.1	<0.2	<10	30	0.86	0.03	1.71	0.04	16.05	12.3	20
L191882		1.52	0.020	0.07	1.59	2.8	<0.2	<10	50	0.36	0.02	1.37	0.04	13.40	12.2	125
L191883		1.72	0.032	0.17	2.00	4.3	<0.2	<10	70	0.31	0.03	1.66	0.04	10.95	15.0	240
L191884		1.70	0.020	0.12	2.09	4.2	<0.2	<10	70	0.45	0.03	2.02	0.04	12.70	16.1	132
L191885		1.36	0.007	0.05	1.43	2.2	<0.2	<10	100	0.19	0.02	1.18	0.03	12.55	12.8	133
L191886		1.32	0.025	0.18	1.60	4.7	<0.2	<10	50	0.35	0.03	1.40	0.05	14.00	18.5	146
L191887		1.30	0.039	0.24	1.78	5.8	<0.2	10	40	0.49	0.04	1.95	0.05	12.65	24.4	110
L191888		1.98	0.015	0.14	1.76	4.2	<0.2	<10	80	0.37	0.04	1.71	0.07	13.45	17.3	142
L191889		1.46	0.024	0.32	2.11	7.0	<0.2	10	30	0.38	0.05	2.37	0.04	8.68	20.9	82
L191890		1.58	0.072	0.30	1.64	5.4	<0.2	<10	40	0.41	0.08	1.59	0.03	13.15	26.4	100
L191891		1.66	0.045	0.13	1.40	4.0	<0.2	<10	60	0.37	0.02	1.41	0.02	12.80	10.4	87
L191892		1.50	0.013	0.10	1.59	7.3	<0.2	<10	80	0.34	0.02	1.58	0.05	12.95	19.0	163
L191893		1.76	0.028	0.17	1.72	4.7	<0.2	<10	100	0.34	0.05	1.64	0.04	11.55	20.3	125
L191894		1.72	0.281	0.16	1.90	4.3	<0.2	<10	50	0.41	0.03	1.70	0.06	11.60	11.6	91
L191895		1.58	0.026	0.16	1.75	4.1	<0.2	10	40	0.40	0.05	1.83	0.06	8.82	9.8	111
L191896		1.56	0.035	0.27	1.69	5.9	<0.2	<10	20	0.34	0.06	1.78	0.08	7.93	14.2	120
L191897		1.62	0.029	0.13	1.63	2.3	<0.2	<10	90	0.25	0.02	1.53	0.04	9.75	10.8	100
L191898		2.00	0.142	0.45	1.90	5.5	<0.2	10	50	0.36	0.10	1.82	0.05	8.44	25.8	70
L191899		1.42	0.045	0.27	1.84	4.9	<0.2	<10	30	0.32	0.06	1.72	0.07	7.60	18.6	27
L191900		1.82	0.369	0.81	1.91	6.6	0.3	10	30	0.39	0.12	2.09	0.08	7.36	48.8	39
L191901		1.54	0.053	0.32	1.71	5.2	<0.2	10	40	0.34	0.07	1.94	0.06	7.36	27.8	67
L191902		2.00	0.037	0.27	1.71	4.5	<0.2	<10	60	0.36	0.15	1.66	0.05	7.05	19.7	64
L191903		1.90	0.015	0.09	1.87	2.5	<0.2	<10	80	0.39	0.02	1.92	0.04	10.95	10.3	106
L191904		1.38	0.018	0.08	1.45	1.9	<0.2	<10	150	0.16	0.02	1.02	0.04	9.70	10.8	105
L191904_PD		<0.02	0.018	0.09	1.49	2.3	<0.2	<10	160	0.14	0.02	1.06	0.04	10.10	10.9	111
L191905		1.60	0.029	0.13	1.78	4.3	<0.2	<10	100	0.26	0.03	1.59	0.04	9.39	15.6	90
L191905_CD		<0.02	0.028	0.15	1.71	4.2	<0.2	<10	90	0.26	0.03	1.52	0.04	8.96	15.9	87
L191906		1.74	0.029	0.11	1.99	2.6	<0.2	<10	120	0.31	0.01	1.64	0.07	10.30	14.4	119
L191907		1.46	0.026	0.09	1.74	2.7	<0.2	<10	120	0.27	0.02	1.44	0.05	9.75	15.2	103
L191908		1.64	0.014	0.12	1.72	1.7	<0.2	<10	70	0.21	0.02	1.17	0.04	15.55	21.9	16
L191909		1.12	0.010	0.04	2.13	2.4	<0.2	<10	80	0.29	0.03	1.85	0.15	5.70	7.1	13
L191910		1.78	0.054	0.12	2.37	3.5	<0.2	<10	270	0.35	0.03	1.93	0.09	14.00	14.0	76
L191911		2.28	0.025	0.08	2.01	4.9	<0.2	<10	140	0.36	0.02	2.08	0.10	10.80	19.1	135
L191912		1.38	0.030	0.16	2.78	9.1	<0.2	10	80	0.54	0.06	2.93	0.14	14.00	22.1	175
L191913		1.38	0.047	0.19	2.49	8.0	<0.2	10	130	0.45	0.05	2.44	0.07	11.45	21.3	190
L191914		2.06	0.067	0.29	2.78	9.2	<0.2	<10	150	0.41	0.10	2.85	0.09	11.40	31.1	198
L191915		1.50	0.043	0.21	2.59	8.0	<0.2	10	100	0.47	0.07	3.06	0.08	10.60	22.5	197
L191916		2.34	0.034	0.16	2.84	5.6	<0.2	10	140	0.43	0.03	2.85	0.07	10.95	21.3	212

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12268457

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
L191880		0.25	4360	2.17	9.65	0.20	0.19	0.52	0.115	0.07	5.5	11.1	0.71	312	32.0	0.09
L191881		0.34	496	3.33	11.05	0.23	0.11	0.19	0.009	0.15	7.2	9.8	0.92	222	11.35	0.07
L191881_CD		0.35	559	3.39	11.65	0.24	0.12	0.21	0.012	0.14	7.5	10.3	0.93	230	11.95	0.07
L191882		0.33	195.5	4.37	8.87	0.15	0.08	0.46	0.010	0.21	6.4	9.3	0.97	250	5.24	0.07
L191883		0.50	412	4.03	7.46	0.11	0.15	0.24	0.009	0.20	5.1	8.2	0.84	251	3.14	0.09
L191884		0.33	291	3.34	8.40	0.13	0.12	0.22	0.010	0.15	6.2	6.9	0.78	263	3.56	0.07
L191885		0.32	138.0	4.80	7.19	0.11	0.09	0.09	0.009	0.33	5.8	9.1	0.91	227	2.29	0.09
L191886		0.34	485	4.67	8.34	0.15	0.11	0.30	0.009	0.17	7.2	9.3	0.94	208	6.88	0.05
L191887		0.25	660	5.22	7.70	0.16	0.21	0.21	0.012	0.12	7.4	5.1	0.45	235	3.53	0.06
L191888		0.34	296	3.95	8.61	0.11	0.10	0.18	0.012	0.25	7.2	11.1	1.01	249	2.10	0.05
L191889		0.29	777	6.26	7.18	0.14	0.25	0.22	0.013	0.10	5.8	4.1	0.36	267	1.98	0.06
L191890		0.28	649	4.28	7.22	0.14	0.25	0.40	0.016	0.12	7.6	6.3	0.66	241	2.77	0.05
L191891		0.30	495	2.87	6.92	0.11	0.16	0.10	0.015	0.18	5.7	9.9	0.99	292	1.70	0.07
L191892		0.30	373	4.05	7.88	0.13	0.10	0.24	0.010	0.21	6.1	9.4	0.93	206	15.20	0.05
L191893		0.31	523	4.39	7.24	0.11	0.12	0.16	0.010	0.22	5.5	8.0	0.82	211	2.97	0.06
L191894		0.45	393	3.98	7.74	0.14	0.19	0.14	0.011	0.21	5.9	8.0	0.97	225	3.65	0.05
L191895		0.27	368	4.12	7.01	0.13	0.22	0.16	0.011	0.14	4.7	6.4	0.68	246	2.35	0.07
L191896		0.32	531	5.83	7.19	0.14	0.27	0.17	0.014	0.10	4.5	5.4	0.43	252	3.49	0.06
L191897		0.36	360	4.89	6.85	0.11	0.19	0.09	0.009	0.28	5.0	6.3	0.64	208	2.67	0.08
L191898		0.32	1285	5.48	7.15	0.12	0.27	0.18	0.012	0.12	4.9	4.9	0.36	196	4.59	0.08
L191899		0.37	628	5.30	6.05	0.12	0.39	0.13	0.017	0.09	3.9	6.2	0.44	243	4.00	0.08
L191900		0.35	2630	6.39	6.85	0.12	0.30	0.17	0.022	0.10	4.2	5.6	0.38	258	2.92	0.06
L191901		0.23	880	7.11	6.93	0.13	0.25	0.14	0.010	0.10	4.0	4.7	0.33	221	3.85	0.05
L191902		0.29	551	6.10	7.01	0.12	0.20	0.13	0.012	0.14	3.8	4.2	0.40	180	3.71	0.05
L191903		0.26	206	2.97	7.98	0.16	0.13	0.04	0.010	0.22	5.2	7.9	0.82	194	3.76	0.06
L191904		0.35	207	4.11	5.99	0.08	0.09	0.06	0.007	0.40	4.8	6.9	0.89	146	5.67	0.06
L191904_PD		0.38	220	4.30	6.36	0.11	0.08	0.06	0.008	0.43	5.0	7.3	0.93	153	5.85	0.07
L191905		0.35	452	4.65	7.34	0.13	0.13	0.14	0.009	0.22	4.7	8.1	0.76	191	4.51	0.06
L191905_CD		0.36	442	4.53	7.05	0.13	0.12	0.12	0.008	0.21	4.5	7.9	0.73	184	3.72	0.05
L191906		0.41	413	4.26	8.53	0.13	0.10	0.07	0.010	0.37	5.1	9.9	1.11	227	5.27	0.06
L191907		0.34	360	3.63	7.16	0.12	0.10	0.08	0.010	0.34	4.8	8.5	0.97	194	6.66	0.06
L191908		2.58	279	5.41	8.29	0.11	0.21	0.01	0.014	0.60	7.4	6.3	0.96	466	1.35	0.25
L191909		0.43	54.5	3.77	7.84	0.05	0.15	0.01	0.010	0.10	2.8	8.7	0.57	463	0.31	0.14
L191910		2.60	364	4.42	8.35	0.14	0.19	0.07	0.011	0.34	6.8	14.4	1.08	491	0.28	0.28
L191911		1.25	226	4.23	7.55	0.12	0.33	0.15	0.011	0.21	5.4	14.4	1.46	566	0.58	0.11
L191912		0.39	176.5	4.37	9.69	0.12	0.35	0.10	0.024	0.09	6.9	11.3	1.24	715	1.92	0.08
L191913		0.75	221	3.75	7.60	0.10	0.25	0.09	0.012	0.14	6.0	10.5	0.94	410	0.60	0.15
L191914		0.96	332	3.58	7.30	0.10	0.28	0.08	0.013	0.15	5.9	11.0	0.82	480	0.86	0.25
L191915		0.41	203	3.21	7.13	0.10	0.27	0.07	0.012	0.11	5.8	10.0	0.80	464	0.70	0.13
L191916		0.37	146.0	3.63	7.28	0.08	0.20	0.08	0.007	0.11	5.9	7.7	0.55	295	0.41	0.26

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12268457

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
L191880		0.19	54.3	1340	4.6	2.8	0.126	0.50	0.15	4.2	4.8	0.7	30.8	<0.01	0.09	1.1
L191881		0.25	19.5	1360	2.4	5.1	0.040	0.65	0.10	4.1	3.2	0.8	26.5	<0.01	0.05	1.6
L191881_CD		0.26	20.2	1390	2.6	4.9	0.036	0.65	0.10	4.2	3.6	0.8	26.5	<0.01	0.05	1.6
L191882		0.23	38.7	1300	2.2	6.9	0.013	0.12	0.08	3.1	1.0	0.5	39.4	<0.01	0.01	1.3
L191883		0.17	87.1	1410	2.0	6.7	0.011	0.47	0.07	3.1	2.4	0.5	150.5	<0.01	0.04	0.8
L191884		0.15	40.4	1370	2.4	4.8	0.011	0.09	0.06	3.2	1.5	0.4	300	<0.01	0.02	1.0
L191885		0.25	41.0	1320	1.8	9.3	0.005	0.19	0.06	2.8	1.1	0.4	53.7	<0.01	0.02	1.1
L191886		0.25	52.9	1330	3.4	5.8	0.013	1.19	0.07	3.5	3.9	0.8	61.6	<0.01	0.06	1.0
L191887		0.20	52.7	1280	2.7	3.8	0.017	2.23	0.08	2.6	4.5	0.9	122.5	<0.01	0.16	0.8
L191888		0.23	56.0	1300	3.2	6.6	0.012	0.79	0.07	2.8	1.0	0.6	39.2	<0.01	0.06	0.9
L191889		0.14	43.6	1150	3.1	3.3	0.019	2.28	0.10	2.7	4.3	1.1	270	<0.01	0.14	0.6
L191890		0.18	47.5	1360	2.7	3.6	0.010	1.02	0.11	3.8	3.2	1.9	98.2	<0.01	0.10	0.7
L191891		0.22	35.8	1590	1.5	5.0	0.004	0.13	0.07	4.0	0.8	0.6	31.0	<0.01	<0.01	0.8
L191892		0.25	56.9	1300	2.3	5.3	0.032	0.70	0.08	3.0	3.2	0.5	51.2	<0.01	0.03	1.0
L191893		0.19	50.8	1280	2.0	5.6	0.014	1.34	0.07	2.9	4.0	0.5	114.5	<0.01	0.09	0.8
L191894		0.20	38.8	1390	2.4	8.8	0.020	0.76	0.08	4.0	3.4	0.5	58.4	<0.01	0.06	0.9
L191895		0.17	39.3	1250	2.5	4.1	0.010	0.83	0.07	3.3	2.4	0.9	68.3	<0.01	0.05	0.7
L191896		0.17	35.9	1220	3.5	3.4	0.019	1.63	0.06	3.3	4.1	0.9	78.0	<0.01	0.09	0.6
L191897		0.25	45.2	1280	2.2	7.2	0.024	1.47	0.05	2.4	2.2	0.5	70.5	<0.01	0.07	0.9
L191898		0.20	89.0	1200	2.9	3.2	0.026	2.72	0.12	2.8	6.3	0.7	167.0	<0.01	0.17	0.6
L191899		0.19	46.6	1250	3.1	2.4	0.038	3.22	0.12	4.4	5.2	0.6	76.2	<0.01	0.14	0.5
L191900		0.19	105.5	1230	4.3	3.5	0.017	4.17	0.11	2.9	7.9	0.8	70.0	<0.01	0.24	0.6
L191901		0.21	57.8	1130	3.6	3.1	0.025	4.42	0.09	2.5	6.9	0.7	99.5	<0.01	0.25	0.6
L191902		0.19	44.9	1170	3.4	3.2	0.028	3.19	0.10	3.1	6.5	0.6	149.5	<0.01	0.24	0.8
L191903		0.21	43.2	1320	2.2	6.4	0.014	0.52	0.06	3.0	1.5	0.4	41.7	<0.01	0.04	1.0
L191904		0.26	34.8	1220	2.0	9.5	0.012	0.72	0.05	2.8	2.0	0.4	93.7	<0.01	0.05	0.9
L191904_PD		0.33	36.6	1280	2.1	10.2	0.014	0.76	0.05	2.9	2.3	0.4	97.7	<0.01	0.03	1.0
L191905		0.25	37.6	1270	2.5	5.5	0.020	1.64	0.05	2.8	2.8	0.6	186.0	<0.01	0.12	0.8
L191905_CD		0.23	38.3	1210	2.4	5.4	0.021	1.64	0.06	2.7	3.2	0.5	176.0	<0.01	0.08	0.7
L191906		0.25	45.6	1250	2.8	11.0	0.032	1.32	0.06	3.3	2.8	0.5	45.0	<0.01	0.07	0.8
L191907		0.27	46.5	1230	2.9	9.4	0.036	0.92	0.05	3.0	2.4	0.4	50.3	<0.01	0.06	0.8
L191908		0.29	17.2	2120	3.2	34.1	0.001	0.02	0.15	2.8	0.2	0.5	84.3	<0.01	0.02	1.5
L191909		0.19	8.1	910	2.0	5.7	0.001	0.03	0.11	2.5	0.2	0.2	96.9	<0.01	0.01	0.4
L191910		0.25	29.6	2010	7.2	16.3	<0.001	0.01	0.15	4.0	0.3	0.3	158.5	<0.01	0.01	1.0
L191911		0.22	61.7	1880	4.9	10.1	0.002	0.02	0.18	4.3	0.4	0.3	109.5	<0.01	0.03	0.9
L191912		0.16	93.3	1800	5.0	4.2	0.002	0.33	0.22	7.7	0.8	0.3	141.5	<0.01	0.07	1.2
L191913		0.23	110.5	1790	3.8	5.8	0.004	0.32	0.12	3.5	0.8	0.2	242	<0.01	0.06	1.2
L191914		0.23	125.0	1900	3.6	5.7	0.011	0.78	0.12	3.4	1.5	0.2	369	<0.01	0.12	1.2
L191915		0.22	105.0	1790	3.3	4.5	0.002	0.34	0.12	3.6	0.9	0.2	219	<0.01	0.08	1.2
L191916		0.20	99.8	1850	4.7	4.3	0.005	0.32	0.10	2.5	1.0	0.2	430	<0.01	0.05	1.1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12268457

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Tl	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
L191880		0.141	<0.02	0.83	81	0.48	8.61	37	4.1
L191881		0.199	0.02	1.00	137	0.48	10.60	18	2.5
L191881_CD		0.199	0.02	1.01	137	0.50	11.20	18	2.6
L191882		0.267	0.03	0.48	179	0.30	6.18	22	1.5
L191883		0.198	0.03	0.53	137	0.22	5.95	18	4.0
L191884		0.173	0.02	0.55	138	0.23	6.20	19	2.5
L191885		0.282	0.04	0.43	194	0.19	5.83	19	1.7
L191886		0.265	0.02	0.75	164	0.25	5.72	20	2.1
L191887		0.143	0.02	0.99	122	0.20	6.00	20	4.9
L191888		0.277	0.02	0.45	163	0.22	5.96	24	1.7
L191889		0.094	<0.02	1.15	120	0.17	4.53	19	7.2
L191890		0.172	0.02	1.51	108	0.38	5.62	19	6.9
L191891		0.259	0.02	0.49	149	0.22	7.66	19	3.1
L191892		0.259	0.03	0.49	166	0.14	6.92	20	1.7
L191893		0.217	0.02	0.49	132	0.18	5.59	17	2.6
L191894		0.228	0.03	0.56	116	0.18	6.17	21	4.3
L191895		0.161	0.02	0.75	135	0.23	5.43	24	5.2
L191896		0.127	0.02	0.89	154	0.20	4.77	20	6.5
L191897		0.215	0.03	0.60	132	0.10	5.51	18	4.7
L191898		0.137	<0.02	0.68	72	0.23	4.53	19	7.2
L191899		0.137	0.04	0.68	46	0.16	7.01	26	9.8
L191900		0.118	0.02	0.81	61	0.21	5.14	24	7.6
L191901		0.121	<0.02	0.72	71	0.21	4.72	20	5.8
L191902		0.131	0.02	0.56	72	0.28	4.44	22	4.5
L191903		0.224	0.03	0.46	136	0.21	6.50	18	2.4
L191904		0.284	0.05	0.32	156	0.14	5.04	12	1.4
L191904_PD		0.297	0.06	0.32	164	0.13	5.21	14	1.4
L191905		0.240	0.03	0.44	131	0.15	5.04	18	3.4
L191905_CD		0.230	0.02	0.41	125	0.15	4.79	16	3.1
L191906		0.311	0.04	0.34	166	0.13	5.99	21	1.9
L191907		0.271	0.04	0.38	134	0.11	5.55	16	1.9
L191908		0.250	0.05	0.85	262	0.16	8.30	61	7.1
L191909		0.153	0.02	0.38	126	0.08	5.88	31	3.2
L191910		0.232	0.04	0.42	195	0.33	7.91	49	5.3
L191911		0.214	0.02	0.51	161	0.16	7.43	52	10.1
L191912		0.157	0.04	0.59	158	0.13	7.38	59	11.8
L191913		0.173	0.03	0.57	146	0.11	5.90	36	8.2
L191914		0.170	0.04	0.57	132	0.12	6.02	38	9.8
L191915		0.149	0.02	0.62	127	0.16	5.86	41	10.1
L191916		0.134	0.03	0.60	131	0.07	5.59	30	7.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12268457

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.2	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
L191917		2.20	0.056	0.16	2.45	4.9	<0.2	10	150	0.45	0.04	2.48	0.05	13.85	31.5	232
L191918		2.00	0.052	0.17	2.32	3.9	<0.2	<10	140	0.37	0.04	2.35	0.07	13.80	26.5	274
L191919		1.40	0.039	0.12	3.03	7.1	<0.2	10	110	0.42	0.04	2.66	0.09	10.75	22.5	130
L191920		1.70	0.035	0.10	2.03	3.7	<0.2	<10	140	0.26	0.02	2.10	0.04	12.70	15.7	243
L191921		1.34	0.040	0.13	2.98	6.2	<0.2	10	80	0.39	0.03	3.32	0.08	10.70	23.0	203
L191922		2.04	0.006	0.13	3.14	6.9	<0.2	10	110	0.36	0.03	3.32	0.28	9.51	17.0	130
L191923		1.18	0.012	0.16	2.79	5.9	<0.2	10	140	0.35	0.05	2.80	0.14	8.10	19.7	61
L191924		2.04	0.005	0.18	2.87	5.3	<0.2	<10	130	0.29	0.09	2.38	0.13	8.20	31.3	83
L191925		1.14	0.006	0.07	3.30	6.1	<0.2	10	40	0.53	0.03	3.32	0.15	9.70	20.5	168
L191926		1.22	0.160	0.14	1.70	7.8	<0.2	<10	90	0.39	0.04	1.33	0.05	16.25	14.6	13
L191927		1.46	0.158	0.15	1.55	8.8	<0.2	<10	90	0.38	0.04	1.33	0.04	13.55	13.8	13
L191928		0.96	0.081	0.08	1.64	12.0	<0.2	10	60	0.52	0.07	1.45	0.05	14.40	10.5	9
L191929		1.10	0.089	0.11	1.71	9.5	<0.2	<10	90	0.42	0.03	1.45	0.06	14.05	12.8	9
L191929_PD		<0.02	0.102	0.11	1.72	10.1	<0.2	<10	90	0.50	0.03	1.45	0.04	14.10	13.3	9
L191930		1.32	0.038	0.09	1.39	8.2	<0.2	<10	80	0.32	0.02	1.30	0.04	13.05	11.5	8
L191931		1.22	0.088	0.15	1.56	13.0	0.2	10	20	0.56	0.02	1.60	0.04	12.80	5.6	6
L191931_CD		<0.02	0.088	0.08	1.53	12.2	<0.2	10	20	0.51	0.02	1.58	0.04	12.25	5.2	5
L191932		1.74	0.058	0.10	1.44	11.8	<0.2	10	40	0.54	0.02	1.38	0.05	12.70	7.0	5
L191933		1.32	0.235	0.12	1.57	10.8	0.2	10	70	0.48	0.03	1.39	0.06	14.15	10.8	9
L191934		1.48	0.506	0.24	1.21	10.0	0.2	<10	50	0.40	0.04	1.01	0.05	15.00	13.5	7
L191935		1.74	0.053	0.09	1.39	7.8	<0.2	<10	30	0.60	0.02	1.31	0.05	12.50	7.6	9
L191936		1.74	0.121	0.12	1.69	8.1	<0.2	<10	50	0.57	0.08	1.36	0.05	13.90	9.0	7
L191937		2.04	0.088	0.16	1.66	8.0	<0.2	<10	80	0.53	0.02	1.48	0.05	14.05	13.3	11
L191938		1.68	0.115	0.11	1.49	9.3	<0.2	<10	70	0.49	0.02	1.35	0.04	16.20	11.5	19

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12268457

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
L191917		0.68	250	3.92	7.82	0.09	0.24	0.03	0.007	0.17	7.0	11.2	1.00	406	0.66	0.15
L191918		0.89	268	3.94	7.74	0.08	0.26	0.03	0.006	0.19	7.0	11.9	0.88	330	0.83	0.12
L191919		0.53	158.0	3.97	9.18	0.15	0.30	0.06	0.019	0.21	5.8	8.7	0.97	455	0.67	0.14
L191920		1.22	128.0	3.40	7.06	0.14	0.24	0.03	0.009	0.38	6.8	13.2	1.04	336	0.51	0.10
L191921		0.53	146.5	3.23	7.43	0.13	0.33	0.04	0.012	0.10	6.3	11.8	0.95	448	0.26	0.15
L191922		1.05	86.8	3.13	7.89	0.15	0.29	0.09	0.014	0.12	4.8	11.4	0.77	430	0.41	0.21
L191923		0.78	141.5	3.28	7.46	0.14	0.24	0.10	0.012	0.16	4.3	13.4	0.83	382	0.40	0.14
L191924		1.10	211	4.65	9.01	0.19	0.22	0.09	0.010	0.29	4.2	20.6	1.83	552	0.80	0.06
L191925		0.29	79.0	3.94	8.89	0.20	0.32	0.03	0.026	0.06	5.0	18.8	2.19	880	0.30	0.03
L191926		0.74	648	4.58	8.10	0.18	0.25	0.19	0.049	0.20	8.2	11.5	1.01	465	0.58	0.05
L191927		0.78	648	4.37	7.78	0.19	0.23	0.13	0.028	0.21	7.0	10.5	0.88	436	0.30	0.05
L191928		0.72	238	2.94	7.45	0.17	0.31	0.08	0.022	0.15	7.5	14.8	0.97	387	0.41	0.07
L191929		0.77	329	3.75	6.80	0.16	0.26	0.13	0.028	0.19	7.5	12.6	0.90	407	0.46	0.07
L191929_PD		0.75	331	3.80	7.08	0.15	0.26	0.14	0.027	0.19	7.4	13.2	0.92	409	0.43	0.07
L191930		0.90	211	3.72	6.83	0.14	0.25	0.07	0.019	0.21	7.1	16.2	0.98	342	0.42	0.06
L191931		0.43	393	1.41	6.23	0.13	0.34	0.08	0.026	0.09	7.0	17.5	1.06	396	0.35	0.05
L191931_CD		0.40	413	1.40	5.91	0.12	0.31	0.07	0.027	0.09	6.5	15.9	1.06	403	0.37	0.05
L191932		0.46	226	1.93	6.41	0.14	0.30	0.11	0.022	0.11	6.8	10.9	0.75	358	0.38	0.06
L191933		0.57	602	3.20	7.35	0.15	0.30	0.11	0.039	0.15	7.3	11.8	0.94	443	0.40	0.05
L191934		0.43	965	3.06	6.41	0.16	0.24	0.12	0.040	0.14	7.4	7.9	0.81	534	0.47	0.04
L191935		0.50	353	2.31	6.72	0.14	0.25	0.08	0.016	0.12	6.5	11.2	0.89	315	0.44	0.06
L191936		0.59	604	2.67	7.20	0.17	0.27	0.14	0.029	0.13	6.7	13.0	1.06	410	0.37	0.07
L191937		0.65	657	3.78	8.47	0.18	0.20	0.12	0.029	0.20	7.0	9.4	0.87	468	0.43	0.05
L191938		0.86	322	3.21	7.19	0.17	0.25	0.10	0.026	0.17	8.1	11.6	0.91	446	0.32	0.06

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12268457

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
L191917		0.24	127.5	1870	2.7	6.9	0.011	0.43	0.14	2.7	1.1	0.2	206	<0.01	0.04	1.1
L191918		0.24	161.0	1810	3.4	8.3	0.005	0.30	0.12	2.3	0.7	0.2	196.0	<0.01	0.02	1.2
L191919		0.21	93.2	1310	3.3	5.5	0.002	0.24	0.25	6.1	0.9	0.3	269	<0.01	0.04	0.9
L191920		0.20	118.5	1750	2.1	17.2	0.002	0.17	0.12	2.3	0.7	0.2	133.0	<0.01	0.04	1.4
L191921		0.15	128.0	1870	3.2	4.6	0.002	0.21	0.17	4.4	0.8	0.2	232	<0.01	0.03	1.3
L191922		0.20	80.5	1690	9.3	5.3	0.005	0.38	0.12	4.2	0.8	0.3	388	<0.01	0.02	1.1
L191923		0.17	58.0	1540	7.1	6.2	0.006	0.70	0.12	4.7	1.6	0.3	275	<0.01	0.04	0.8
L191924		0.14	69.6	1440	6.3	11.4	0.011	1.46	0.09	5.0	3.0	0.2	94.2	<0.01	0.05	0.7
L191925		0.11	158.0	1570	3.4	3.2	0.002	0.18	0.17	6.8	0.6	0.3	115.0	<0.01	0.02	0.8
L191926		0.19	15.1	1610	2.5	9.3	0.001	0.03	0.15	5.8	1.1	0.4	121.5	<0.01	0.01	1.1
L191927		0.19	13.9	1400	2.1	10.4	<0.001	0.04	0.16	5.0	1.1	0.3	96.4	<0.01	0.02	1.0
L191928		0.19	9.7	1620	2.1	8.1	<0.001	0.01	0.17	7.0	0.6	0.3	106.0	<0.01	0.01	1.1
L191929		0.18	10.4	1570	2.1	9.1	<0.001	0.02	0.13	5.4	0.7	0.3	144.0	<0.01	0.01	1.1
L191929_PD		0.18	11.1	1620	2.2	9.2	<0.001	0.02	0.12	5.6	0.6	0.3	146.0	<0.01	0.01	1.1
L191930		0.15	9.4	1620	2.2	11.7	<0.001	0.02	0.12	5.0	0.5	0.3	64.3	<0.01	0.01	1.0
L191931		0.11	6.0	1460	3.6	3.7	<0.001	0.03	0.16	7.0	0.7	0.3	48.7	<0.01	0.02	1.1
L191931_CD		0.12	5.5	1440	3.1	3.7	<0.001	0.04	0.15	6.6	0.7	0.3	47.6	<0.01	0.01	1.0
L191932		0.16	6.6	1400	2.5	5.3	<0.001	0.02	0.15	5.9	0.6	0.3	77.0	<0.01	0.01	1.1
L191933		0.16	10.1	1630	3.2	7.4	<0.001	0.03	0.14	6.7	0.9	0.3	100.5	<0.01	0.02	1.1
L191934		0.17	10.1	1070	2.3	5.7	<0.001	0.07	0.15	5.2	1.1	0.3	58.2	<0.01	0.02	1.1
L191935		0.14	7.6	1420	2.6	5.8	<0.001	0.02	0.15	6.0	0.7	0.3	32.4	<0.01	0.01	0.8
L191936		0.15	8.6	1630	2.5	5.7	<0.001	0.02	0.14	7.5	0.9	0.3	115.0	<0.01	0.02	0.9
L191937		0.19	12.3	1510	1.8	9.5	0.001	0.02	0.12	6.8	0.8	0.3	74.3	<0.01	0.02	1.2
L191938		0.18	13.3	1650	2.4	8.2	<0.001	0.02	0.14	5.6	0.7	0.3	98.3	<0.01	0.01	1.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12268457

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Tl	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
L191917		0.185	0.03	0.62	152	0.10	5.77	30	8.6
L191918		0.187	0.04	0.68	157	0.16	5.64	32	8.3
L191919		0.183	0.04	0.43	137	0.12	7.83	40	9.6
L191920		0.173	0.07	0.70	148	0.38	5.72	27	8.2
L191921		0.131	0.03	0.62	110	0.25	7.07	28	12.4
L191922		0.168	0.03	0.60	121	0.37	6.81	69	11.6
L191923		0.189	0.04	0.49	120	0.18	6.25	41	8.8
L191924		0.274	0.05	0.32	164	0.22	6.42	53	7.9
L191925		0.148	0.02	0.52	124	0.35	5.76	52	12.6
L191926		0.187	0.03	0.40	238	0.23	10.90	33	6.3
L191927		0.182	0.03	0.39	216	0.24	9.27	36	5.6
L191928		0.177	0.02	0.50	156	0.18	11.25	33	8.3
L191929		0.168	0.02	0.42	193	0.15	9.50	36	6.4
L191929_PD		0.163	0.02	0.42	194	0.15	9.42	37	6.3
L191930		0.167	0.02	0.53	200	0.13	9.74	35	6.2
L191931		0.128	<0.02	0.59	88	0.15	9.78	22	8.6
L191931_CD		0.132	<0.02	0.56	87	0.14	9.79	21	8.8
L191932		0.124	<0.02	0.44	111	0.15	9.90	24	8.0
L191933		0.159	0.02	0.46	170	0.14	10.15	34	7.0
L191934		0.138	<0.02	0.35	165	0.12	8.53	29	5.6
L191935		0.143	<0.02	0.41	132	0.15	10.05	20	6.2
L191936		0.151	<0.02	0.43	154	0.81	10.15	23	6.1
L191937		0.153	0.02	0.37	199	0.15	10.10	32	5.3
L191938		0.159	0.02	0.45	195	0.12	11.20	28	6.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 26- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12268457

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).

APPENDIX 08: Scott geophysics IP report

LOGISTICAL REPORT

INDUCED POLARIZATION SURVEY

REDGOLD PROPERTY
HORSEFLY AREA, BC

on behalf of

GOLDFIELDS HORSEFLY EXPLORATION CORP.
501 – 1155 Robson Street
Vancouver, BC V6E 1B5

Survey performed:
May 15-June 24, 2012

by

Brad Scott, Geologist (GIT)
SCOTT GEOPHYSICS LTD.
4013 West 14th Avenue
Vancouver, BC V6R 2X3

July 25, 2012

Table of Contents

	Page
1. Introduction	1
2. Survey coverage and procedures	1
3. Personnel	2
4. Instrumentation	2

Appendix

1. Statement of Qualifications — Rear of Report
2. Accompanying Maps — Map roll and CD
    - Reconnaissance Grid (1:10,000 scale)
        - Chargeability/resistivity pseudosections:
            - Lines 10000N, 10400N, 10800N, 11200N, 11600N, 12000N, 12400N
        - Chargeability contour plan – Triangular-Filtered Values (UTM coordinates)
        - Resistivity contour plan – Triangular-Filtered Values (UTM coordinates)
    - 3D Grid (1:5,000 scale)
        - Chargeability/resistivity pseudosections:
            - Inline PD line 13600N
            - Offset PD lines C12800N/P12700N, C12800N/P12900N, C13000N/P12800N, C13000N/P12900N, C13000N/P13100N, C13000N/P13200N, C13200N/P13000N, C13200N/P13100N, C13200N/P13300N, C13200N/P13400N, C13600N/P13400N, C13600N/P13500N, C13600N/P13700N, C13600N/P13800N
        - Station location plan

Accompanying Data Files

One (1) CD-ROM with all survey data and plots in Surfer 9 and pdf formats — Rear of Report

1. INTRODUCTION

An induced polarization (IP) survey was performed at the Redgold property, Horsefly area, BC within the period May 15-June 24, 2012 on two grids. In addition, non-differential GPS readings were taken at each station and at all remote ("infinite") current locations.

The survey was performed by Scott Geophysics Ltd. on behalf of Goldfields Horsefly Exploration Corp. This report describes the instrumentation and procedures, and presents the results of the survey.

2. SURVEY COVERAGE AND PROCEDURES

Southern (Reconnaissance) Grid
The pole-dipole array was used. Readings were taken at with an "a" spacing of 100 metres at "n" separations of 1 to 10. The on line current electrode was located to the east of the potential electrodes.

A total of 26.1 kilometres of IP survey were performed on the Reconnaissance grid.

Northern (3D) Grid
A combination of inline pole-dipole and offset pole-dipole arrays were used.

For the inline pole-dipole survey, readings were taken at with an "a" spacing of 100 metres at "n" separations of 1 to 10. The on line current electrode was located to the east of the potential electrodes.

For the offset pole-dipole survey, readings were taken with an "a" spacing of 50 metres at 8 "n" levels. Current electrodes were located on lines from 100-200 metres to the north and south of the potential electrode lines, approximately 50 metres to the east and west of the potential electrode spread.

A total of 3.4 kilometres of inline pole-dipole and 41.35 kilometres of offset pole-dipole IP survey were performed on the 3D grid.

GPS readings were taken at each station and at the remote ("infinite") electrode locations, subject to satellite reception. Elevation measurements are barometric altimeter readings, calibrated to GPS altitude at the beginning of each line.

The chargeability and resistivity results are presented on the accompanying pseudosections and plans. All survey data are archived to the accompanying CD-ROM.

3. PERSONNEL

Lise Gagnon was the crew chief on the survey on behalf of Scott Geophysics Ltd. Twila Skinner was the representative on behalf of Goldfields Horsefly Exploration Corp.

4. INSTRUMENTATION

A GDD GRx8 receiver and two GDD TxII transmitter (8600 watts total) were used for the IP survey. Readings were taken in the time domain using a 2 second on/2 second off alternating square wave. The chargeability values plotted on the accompanying pseudosections and plan maps are for the interval 690 to 1050 msec after shutoff.

GPS readings were taken with a Garmin GPSMap 62St GPS receiver.

Respectfully Submitted,

Brad Scott

Statement of Qualifications

for

Brad Scott, Geologist (GIT)

of

1230 Harrison Way,
Gabriola, B.C. V0R 1X2

I, Brad Scott, hereby certify the following statements regarding my qualifications and involvement in the program of work on behalf of Goldfields Horsefly Exploration Corp. at the Rand Project, Horsefly area, BC as presented in this report.

The work was performed by individuals trained and qualified for its performance.

I have no material interest in the property under consideration in this report.

I graduated from the University of British Columbia with a Bachelor of Science degree (Geology) in 2000.

I have been practising my profession in the field of Mineral Exploration since 2000.

Respectfully Submitted,

Brad Scott

Goldfields Horsefly Exploration Corp.

Redgold Project, Horsefly area, BC

Line: 13800N (Rx), 13600N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
July 2012

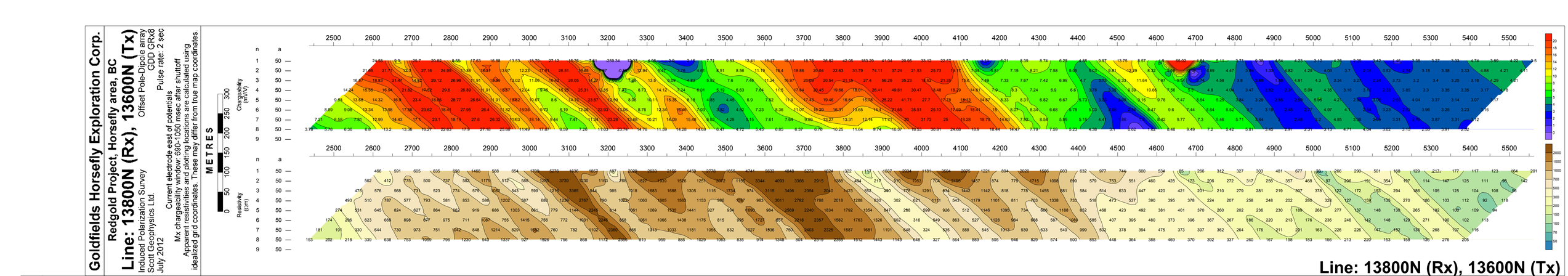
Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.

METRES

Chargeability (mV/V)

Resistivity (Ωm)



Goldfields Horsefly Exploration Corp.

Redgold Project, Horsefly area, BC

Line: 13800N (Rx), 13600N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
July 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode west of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.

METRES

Chargeability (mV/V)

Resistivity (Ωm)

Goldfields Horsefly Exploration Corp.

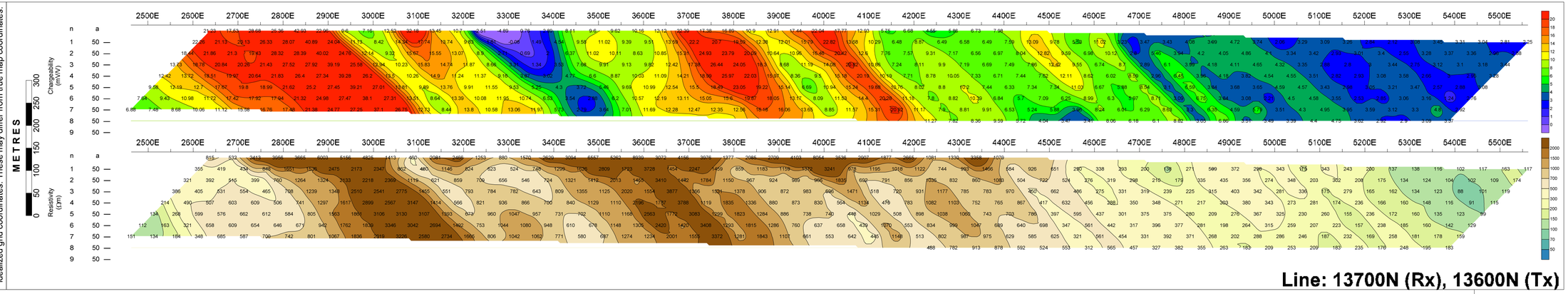
Redgold Project, Horsefly area, BC

Line: 13700N (Rx), 13600N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
June 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 13700N (Rx), 13600N (Tx)

Goldfields Horsefly Exploration Corp.

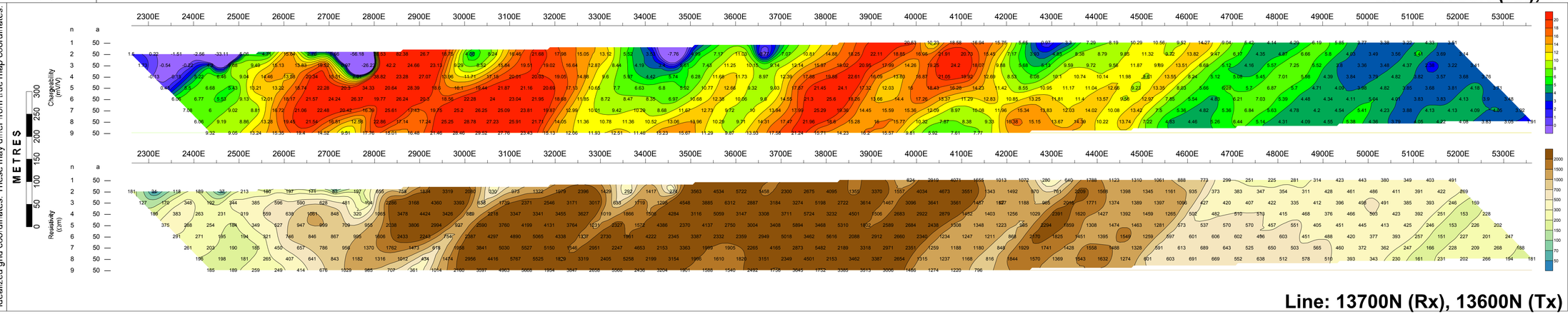
Redgold Project, Horsefly area, BC

Line: 13700N (Rx), 13600N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
June 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode west of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 13700N (Rx), 13600N (Tx)

Goldfields Horsefly Exploration Corp.

Redgold Project, Horsefly area, BC

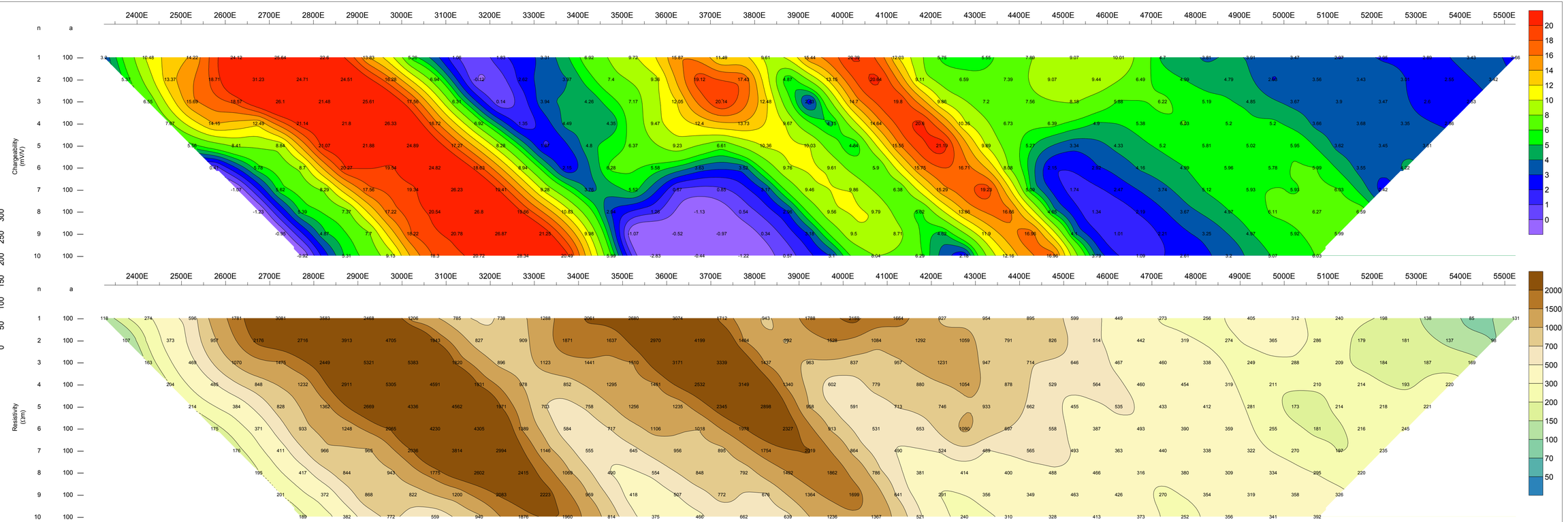
Line: 13600N

Induced Polarization Survey
Scott Geophysics Ltd.
June 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrodes east of potentials
Mx chargeability window: 120-1020 msec after shutoff

METRES
0 50 100 150 200 250 300



Line: 13600N

Goldfields Horsefly Exploration Corp.

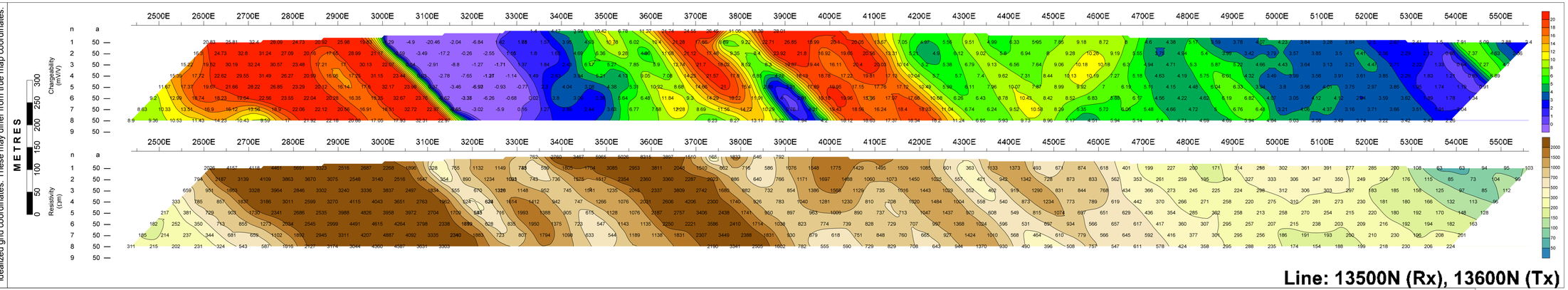
Redgold Project, Horsefly area, BC

Line: 13500N (Rx), 13600N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
June 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 13500N (Rx), 13600N (Tx)

Goldfields Horsefly Exploration Corp.

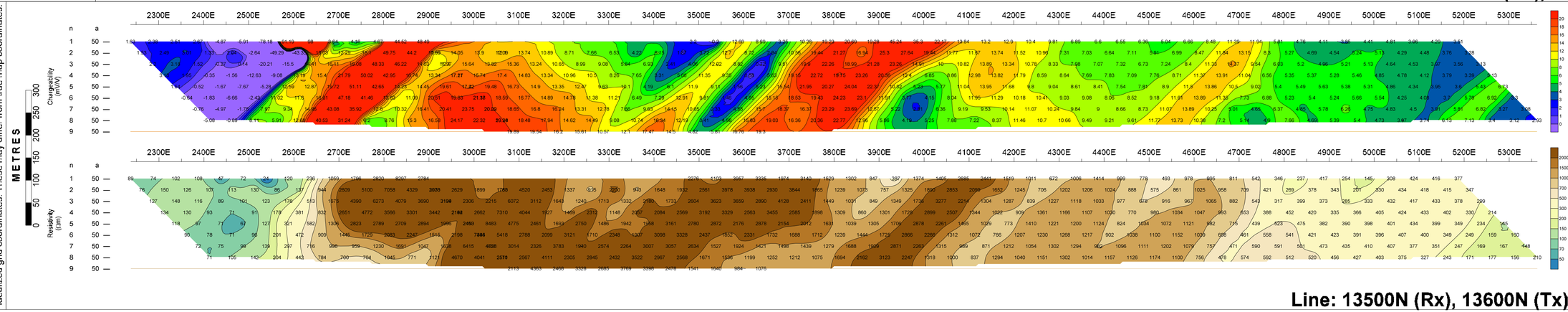
Redgold Project, Horsefly area, BC

Line: 13500N (Rx), 13600N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
June 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode west of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 13500N (Rx), 13600N (Tx)

Goldfields Horsefly Exploration Corp.

Redgold Project, Horsefly area, BC

Line: 13400N (Rx), 13600N (Tx)

Induced Polarization Survey

Scott Geophysics Ltd.

June 2012

Offset Pole-Dipole array

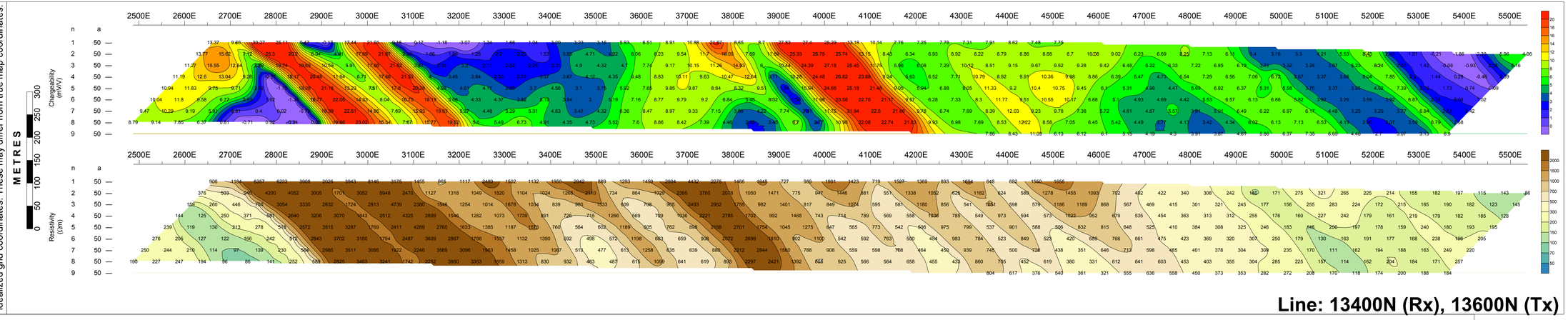
GDD GRx8

Pulse rate: 2 sec

Current electrode east of potentials

Mx chargeability window: 690-1050 msec after shutoff

Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 13400N (Rx), 13600N (Tx)

Goldfields Horsefly Exploration Corp.

Redgold Project, Horsefly area, BC

Line: 13400N (Rx), 13600N (Tx)

Induced Polarization Survey

Scott Geophysics Ltd.

June 2012

Offset Pole-Dipole array

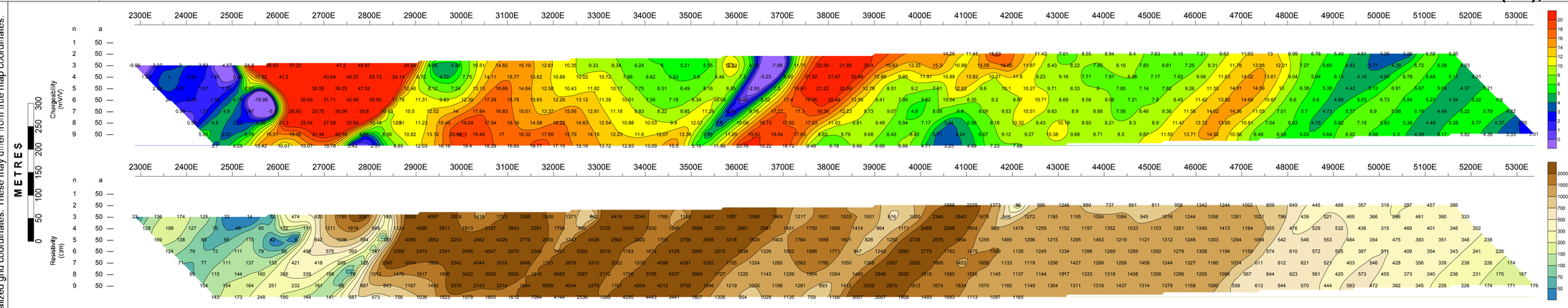
GDD GRx8

Pulse rate: 2 sec

Current electrode west of potentials

Mx chargeability window: 690-1050 msec after shutoff

Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 13400N (Rx), 13600N (Tx)

Goldfields Horsefly Exploration Corp.

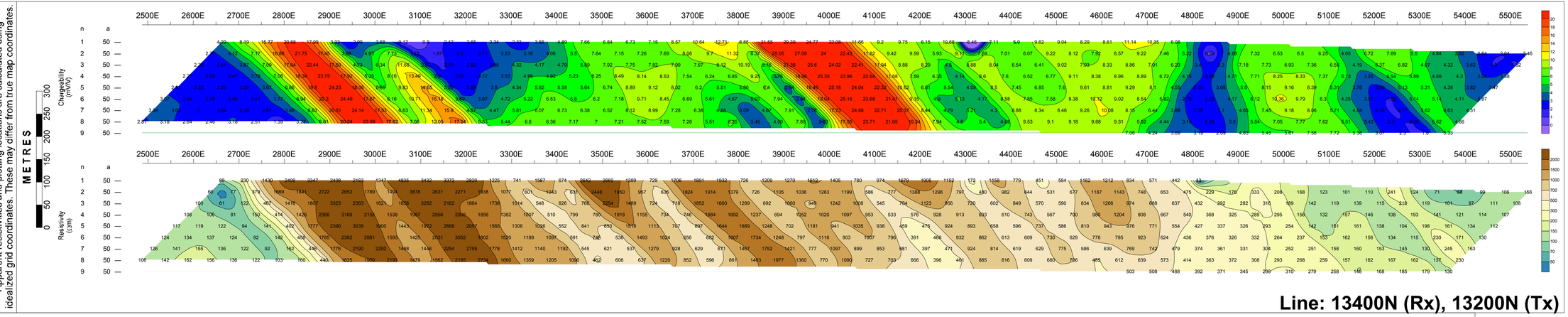
Redgold Project, Horsefly area, BC

Line: 13400N (Rx), 13200N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
June 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 13400N (Rx), 13200N (Tx)

Goldfields Horsefly Exploration Corp.

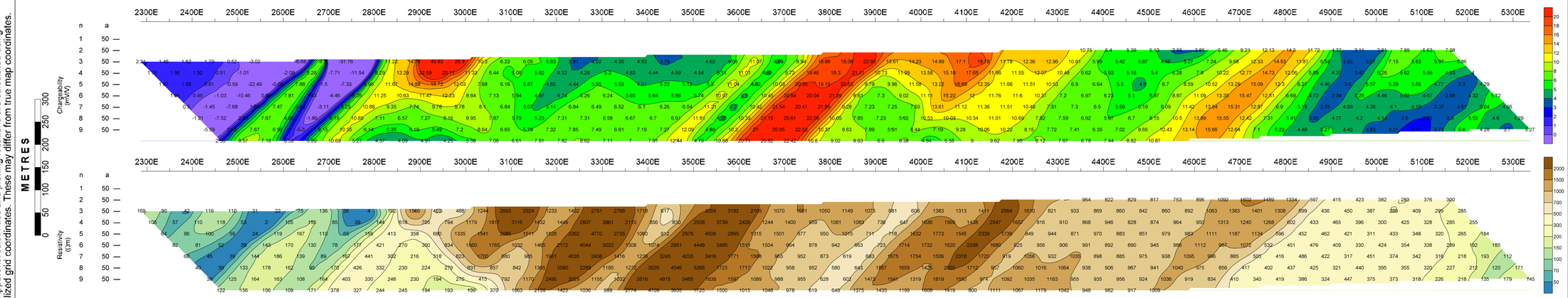
Redgold Project, Horsefly area, BC

Line: 13400N (Rx), 13200N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
June 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode west of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 13400N (Rx), 13200N (Tx)

Goldfields Horsefly Exploration Corp.

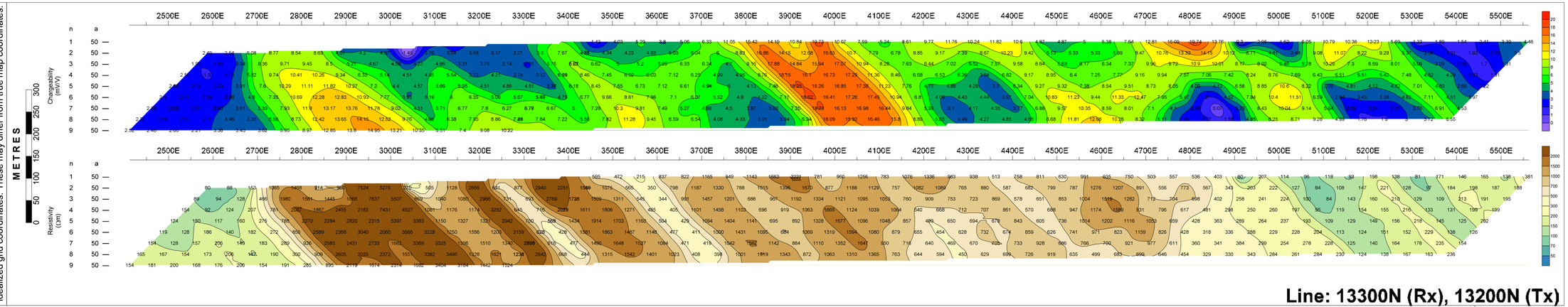
Redgold Project, Horsefly area, BC

Line: 13300N (Rx), 13200N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
June 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 13300N (Rx), 13200N (Tx)

Goldfields Horsefly Exploration Corp.

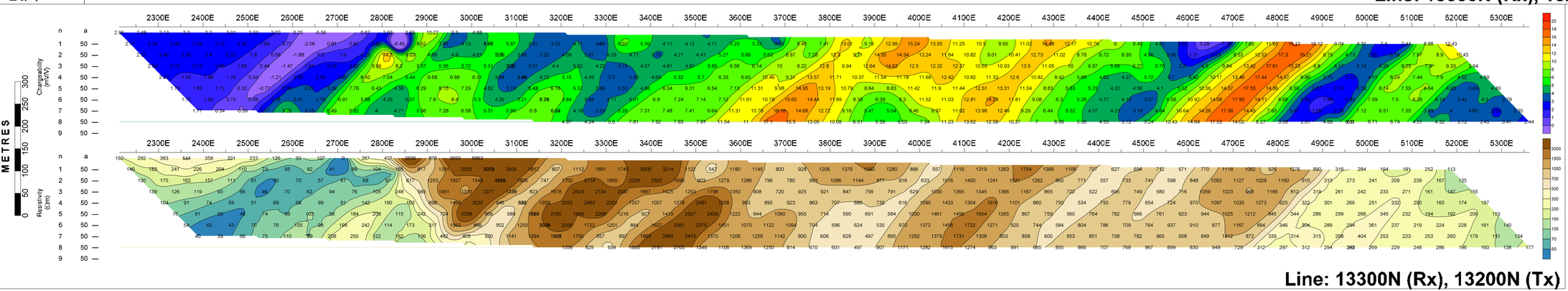
Redgold Project, Horsefly area, BC

Line: 13300N (Rx), 13200N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
June 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode west of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 13300N (Rx), 13200N (Tx)

Goldfields Horsefly Exploration Corp.

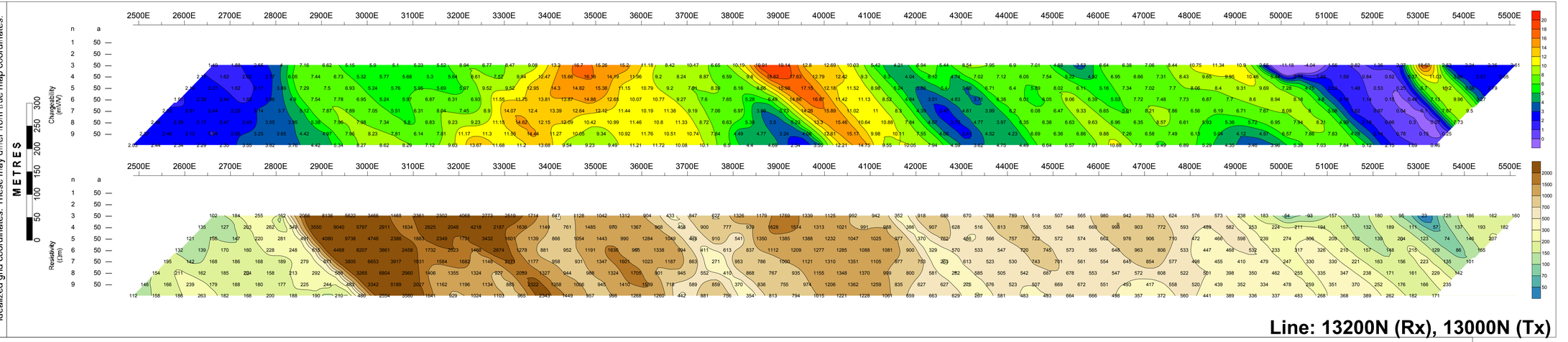
Redgold Project, Horsefly area, BC

Line: 13200N (Rx), 13000N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
June 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 13200N (Rx), 13000N (Tx)

Goldfields Horsefly Exploration Corp.

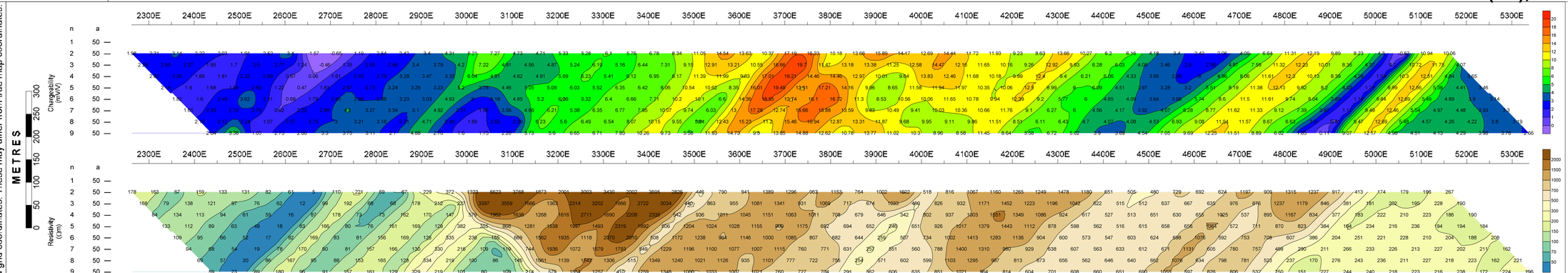
Redgold Project, Horsefly area, BC

Line: 13200N (Rx), 13000N (Tx)

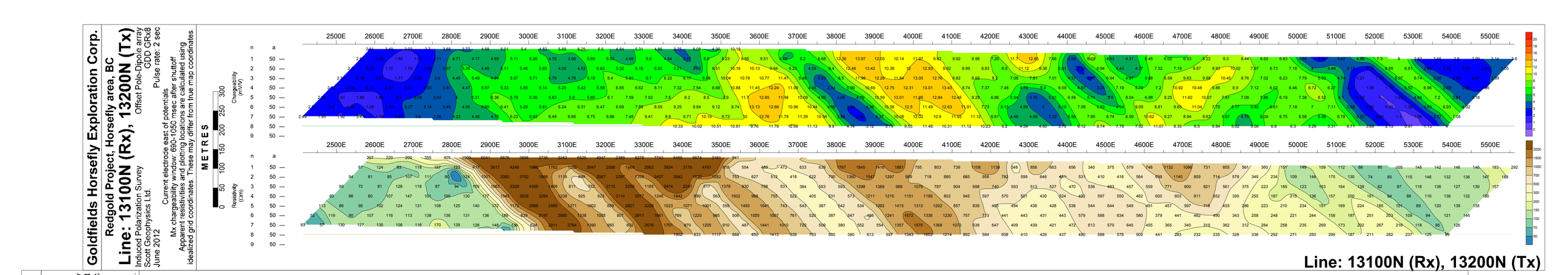
Induced Polarization Survey
Scott Geophysics Ltd.
June 2012

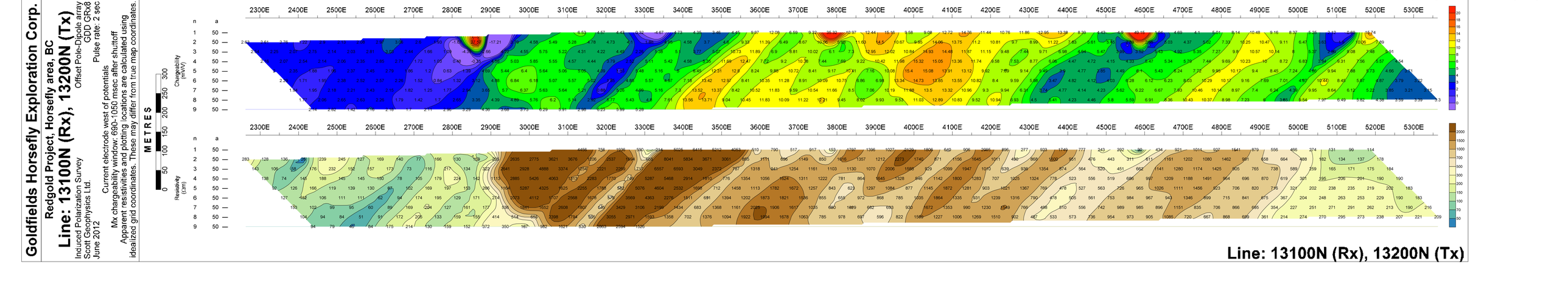
Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode west of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 13200N (Rx), 13000N (Tx)


Goldfields Horsefly Exploration Corp.
Redgold Project, Horsefly area, BC
Line: 13100N (Rx), 13200N (Tx)
Induced Polarization Survey
Scott Geophysics Ltd.
June 2012
Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec
Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.
METRES
0 50 100 150 200 250 300
Chargeability (mV/V)
Resistivity (Ωm)
n a
1 50
2 50
3 50
4 50
5 50
6 50
7 50
8 50
9 50
2500E 2600E 2700E 2800E 2900E 3000E 3100E 3200E 3300E 3400E 3500E 3600E 3700E 3800E 3900E 4000E 4100E 4200E 4300E 4400E 4500E 4600E 4700E 4800E 4900E 5000E 5100E 5200E 5300E 5400E 5500E
Line: 13100N (Rx), 13200N (Tx)


Goldfields Horsefly Exploration Corp.
Redgold Project, Horsefly area, BC
Line: 13100N (Rx), 13200N (Tx)
Induced Polarization Survey
Scott Geophysics Ltd.
June 2012
Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec
Current electrode west of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.
METRES
0 50 100 150 200 250 300
Chargeability (mV/V)
Resistivity (Ωm)
n a
1 50
2 50
3 50
4 50
5 50
6 50
7 50
8 50
9 50
2300E 2400E 2500E 2600E 2700E 2800E 2900E 3000E 3100E 3200E 3300E 3400E 3500E 3600E 3700E 3800E 3900E 4000E 4100E 4200E 4300E 4400E 4500E 4600E 4700E 4800E 4900E 5000E 5100E 5200E 5300E
Line: 13100N (Rx), 13200N (Tx)

Goldfields Horsefly Exploration Corp.

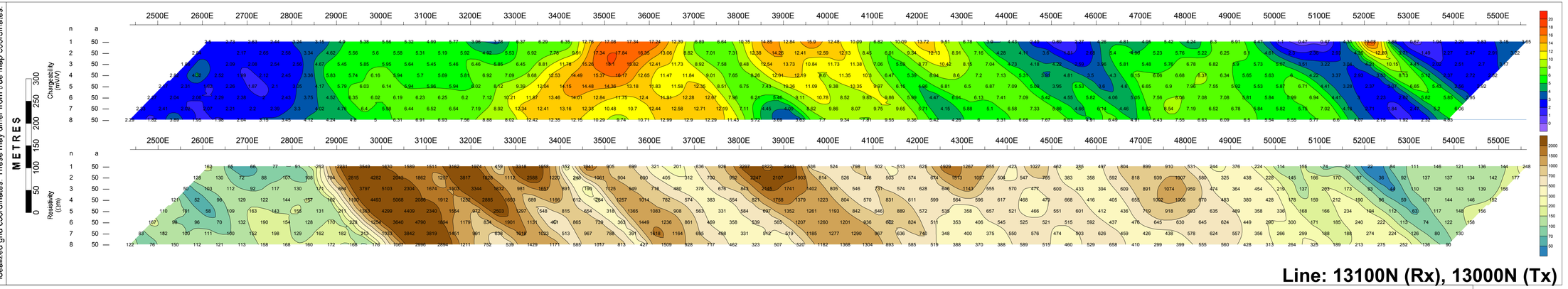
Redgold Project, Horsefly area, BC

Line: 13100N (Rx), 13000N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
May 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 13100N (Rx), 13000N (Tx)

Goldfields Horsefly Exploration Corp.

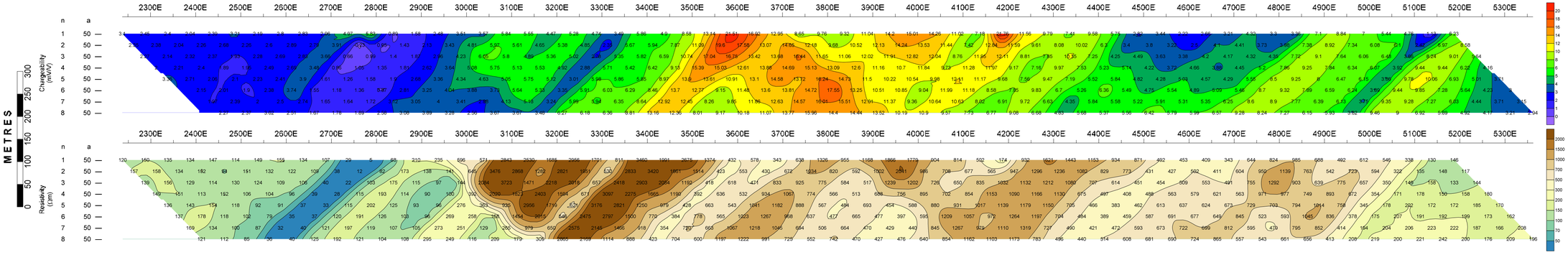
Redgold Project, Horsefly area, BC

Line: 13100N (Rx), 13000N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
May 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode west of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 13100N (Rx), 13000N (Tx)

Goldfields Horsefly Exploration Corp.

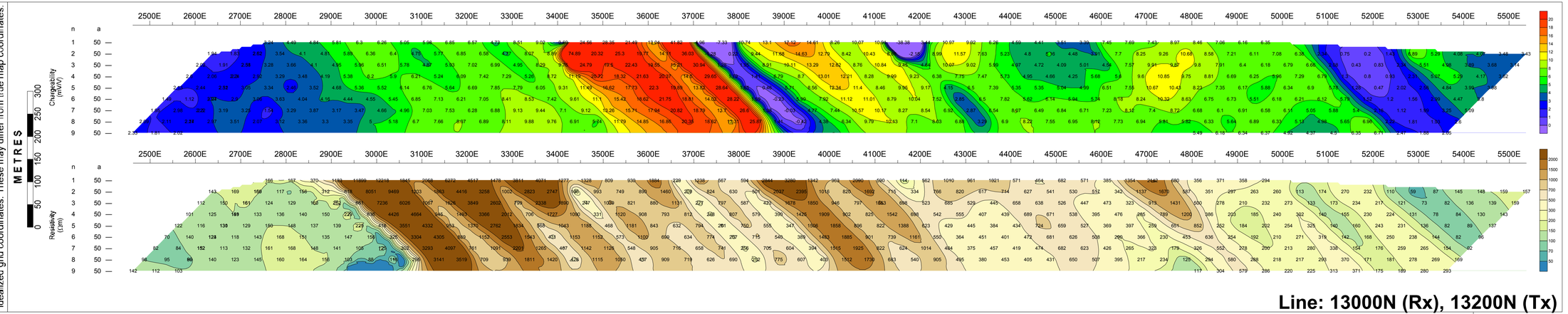
Redgold Project, Horsefly area, BC

Line: 13000N (Rx), 13200N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
June 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 13000N (Rx), 13200N (Tx)

Goldfields Horsefly Exploration Corp.

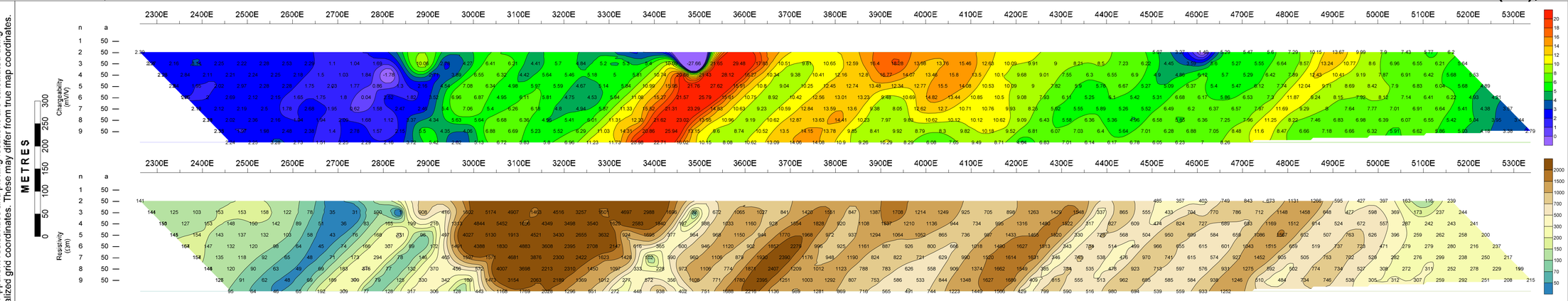
Redgold Project, Horsefly area, BC

Line: 13000N (Rx), 13200N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
June 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode west of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 13000N (Rx), 13200N (Tx)

Goldfields Horsefly Exploration Corp.

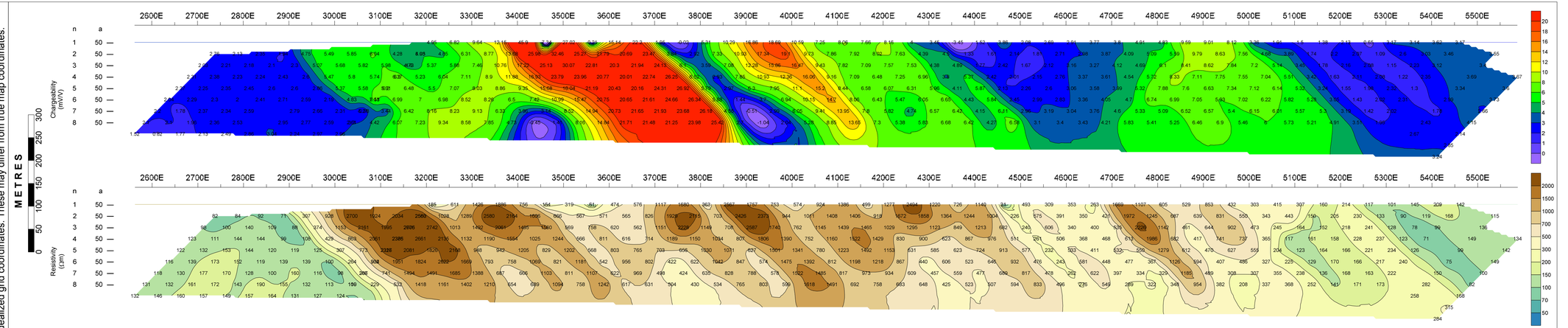
Redgold Project, Horsefly area, BC

Line: 12900N (Rx), 13000N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
May 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 12900N (Rx), 13000N (Tx)

Goldfields Horsefly Exploration Corp.

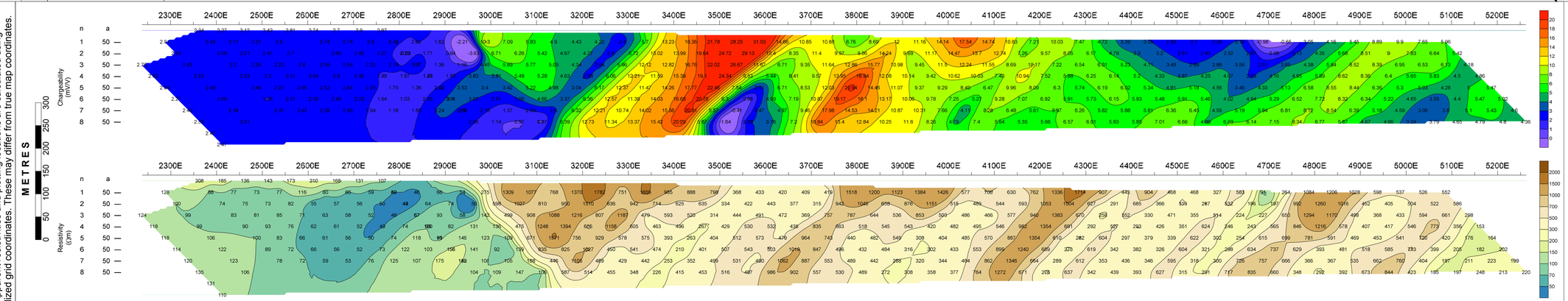
Redgold Project, Horsefly area, BC

Line: 12900N (Rx), 13000N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
May 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode west of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 12900N (Rx), 13000N (Tx)

Goldfields Horsefly Exploration Corp.

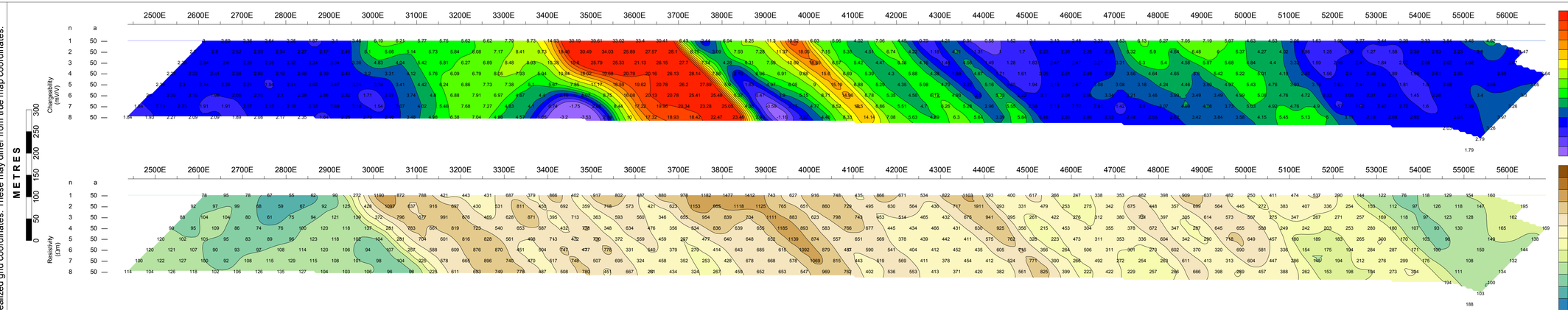
Redgold Project, Horsefly area, BC

Line: 12900N (Rx), 12800N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
May 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using
idealized grid coordinates. These may differ from true map coordinates.



Line: 12900N (Rx), 12800N (Tx)

Goldfields Horsefly Exploration Corp.

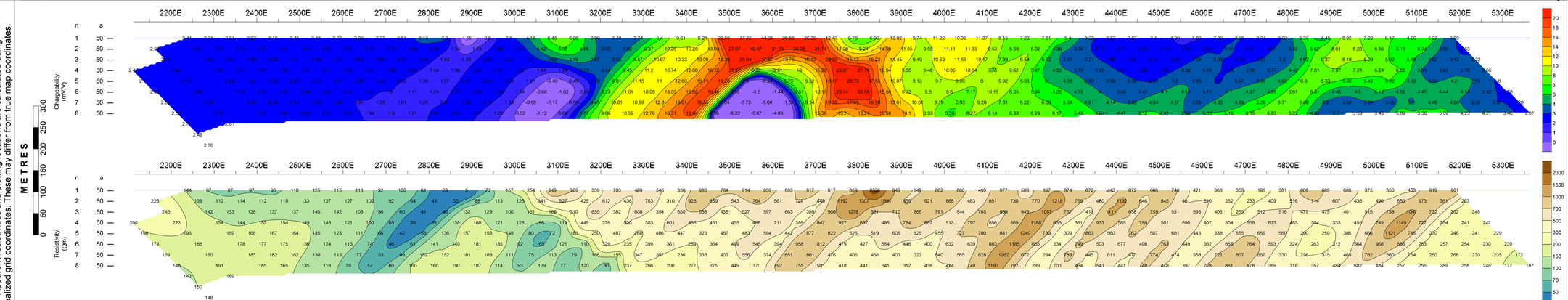
Redgold Project, Horsefly area, BC

Line: 12900N (Rx), 12800N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
May 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode west of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using
idealized grid coordinates. These may differ from true map coordinates.



Line: 12900N (Rx), 12800N (Tx)

Goldfields Horsefly Exploration Corp.

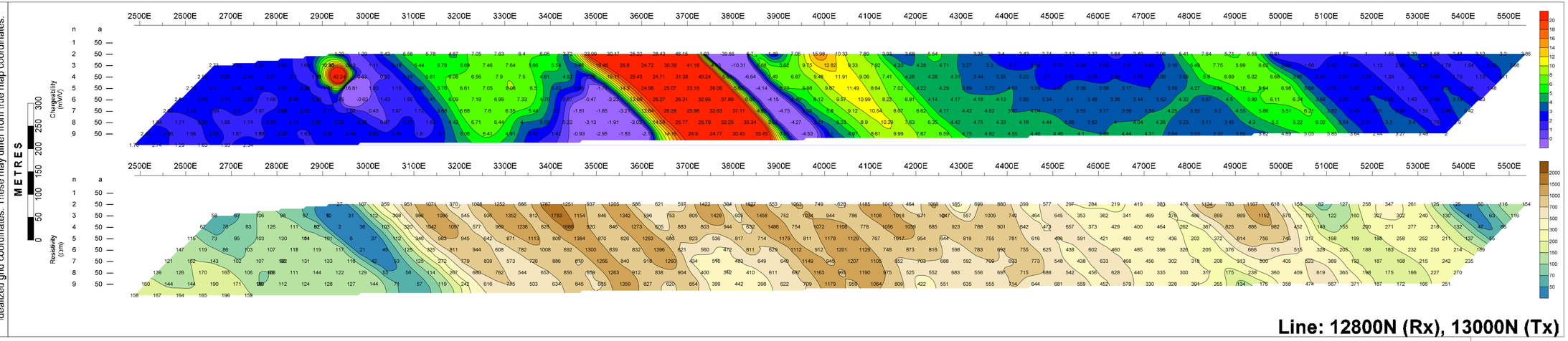
Redgold Project, Horsefly area, BC

Line: 12800N (Rx), 13000N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
May 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 12800N (Rx), 13000N (Tx)

Goldfields Horsefly Exploration Corp.

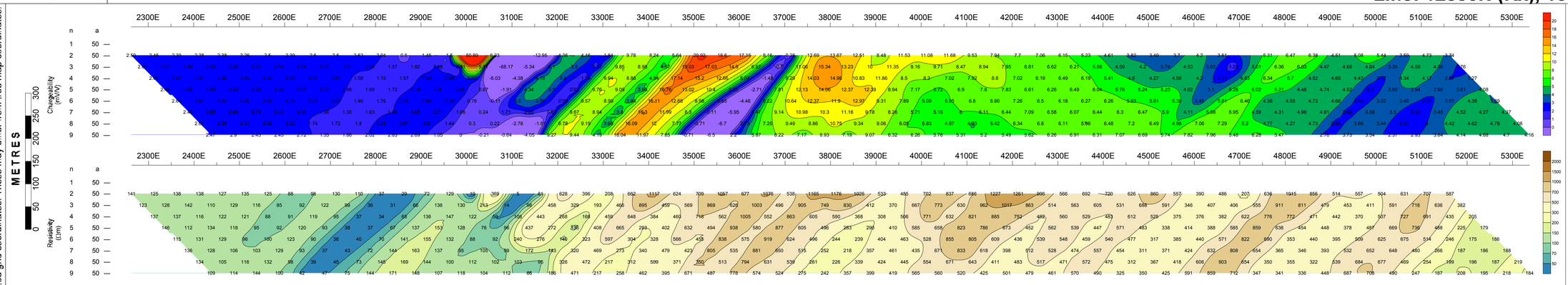
Redgold Project, Horsefly area, BC

Line: 12800N (Rx), 13000N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
May 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode west of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.



Line: 12800N (Rx), 13000N (Tx)

Goldfields Horsefly Exploration Corp.

Redgold Project, Horsefly area, BC

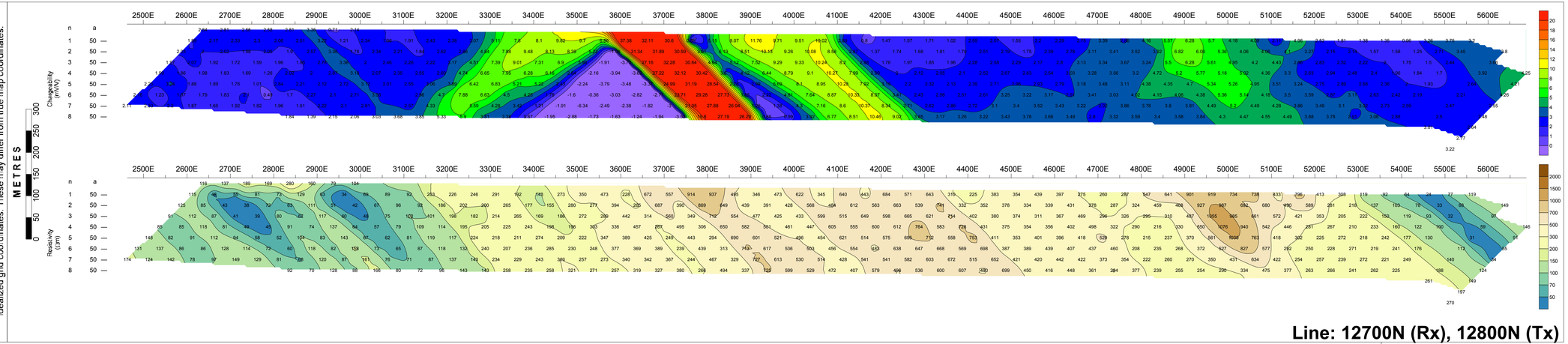
Line: 12700N (Rx), 12800N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
May 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.

METRES
0 50 100 150 200 250 300



Line: 12700N (Rx), 12800N (Tx)

Goldfields Horsefly Exploration Corp.

Redgold Project, Horsefly area, BC

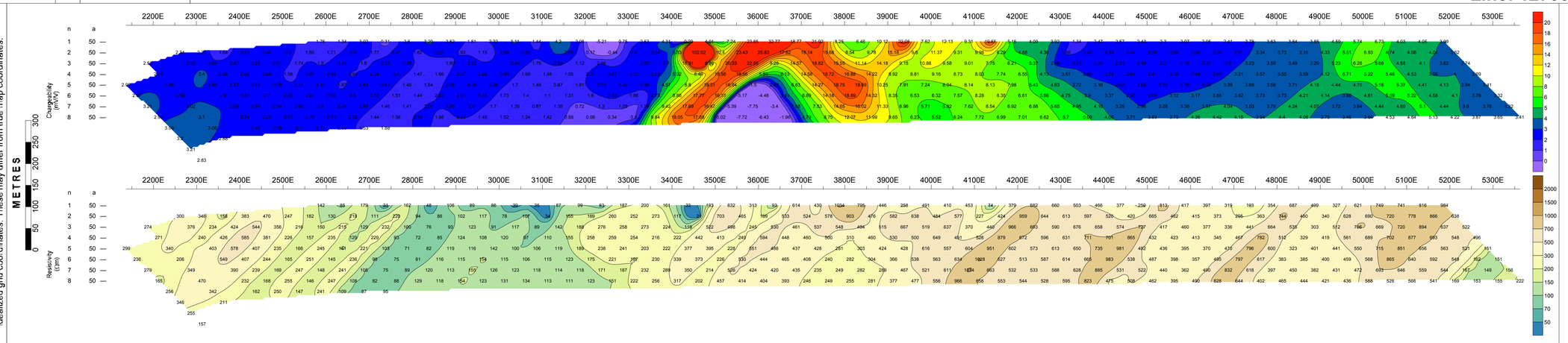
Line: 12700N (Rx), 12800N (Tx)

Induced Polarization Survey
Scott Geophysics Ltd.
May 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode west of potentials
Mx chargeability window: 690-1050 msec after shutoff
Apparent resistivities and plotting locations are calculated using idealized grid coordinates. These may differ from true map coordinates.

METRES
0 50 100 150 200 250 300



Line: 12700N (Rx), 12800N (Tx)

Goldfields Horsefly Exploration Corp.

Redgold Project, Horsefly area, BC

Line: 12400N

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Induced Polarization Survey
Scott Geophysics Ltd.
July 2012

Current electrodes east of potentials
Mx chargeability window: 690-1050 msec after shutoff

METRES

Chargeability (mV/V)

Resistivity (Ωm)

Line: 12400N

Goldfields Horsefly Exploration Corp.

Redgold Project, Horsefly area, BC

Line: 12000N

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Induced Polarization Survey
Scott Geophysics Ltd.
July 2012

Current electrodes east of potentials
Mx chargeability window: 690-1050 msec after shutoff

METRES

Chargeability (mV/V)

Resistivity (Ωm)

Line: 12000N

Goldfields Horsefly Exploration Corp.

Redgold Project, Horsefly area, BC

Line: 11600N

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Induced Polarization Survey
Scott Geophysics Ltd.
July 2012

Current electrodes east of potentials
Mx chargeability window: 690-1050 msec after shutoff

METRES

Chargeability (mV/V)

Resistivity (Ωm)

Line: 11600N

Goldfields Horsefly Exploration Corp.

Redgold Project, Horsefly area, BC

Line: 11200N

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Induced Polarization Survey
Scott Geophysics Ltd.
July 2012

Current electrodes east of potentials
Mx chargeability window: 690-1050 msec after shutoff

METRES

Chargeability (mV/V)

Resistivity (Ωm)

Line: 11200N

Goldfields Horsefly Exploration Corp.

Redgold Project, Horsefly area, BC

Line: 10800N

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Induced Polarization Survey
Scott Geophysics Ltd.
July 2012

Current electrodes east of potentials
Mx chargeability window: 690-1050 msec after shutoff

METRES

Chargeability (mV/V)

Resistivity (Ωm)

Line: 10800N

Goldfields Horsefly Exploration Corp.

Redgold Project, Horsefly area, BC

Line: 10400N

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Induced Polarization Survey
Scott Geophysics Ltd.
July 2012

Current electrodes east of potentials
Mx chargeability window: 690-1050 msec after shutoff

METRES

Chargeability (mV/V)

Resistivity (Ωm)

Line: 10400N

Goldfields Horsefly Exploration Corp.

Redgold Project, Horsefly area, BC

Line: 10000N

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Induced Polarization Survey
Scott Geophysics Ltd.
July 2012

Current electrodes east of potentials
Mx chargeability window: 690-1050 msec after shutoff

METRES

Chargeability (mV/V)

Resistivity (Ωm)

Line: 10000N

APPENDIX 09: Drill Logs

GeoSpark Logger Print Logs ~ Collars

DataSet: **RG_GF**

Depth (m)	Hole Type	Core Diamete	Grid ID	East	North	Elevation	Survey Method	Survey Date	Survey By	Date Started	Date Completed	Logged By	Prospect	Validated By
Hole: RG12-08														
303.28 m	DD	NQ	UTM10N_NAD83	604386.1386	5813584.41	987.292	DGPS	24/11/2012	SL	09/11/2012	13/11/2012	JV	East Zone	JV

GeoSpark Logger Print Logs ~ DH Surveys

DataSet: RG_GF

Hole ID: RG12-08

Depth (m)	Survey Method	Grid ID	Dip	Orig Azimuth	Surv. Tool Azimuth	Magnetic Declination	Corrected Azimuth	Magnetics	Date Surveyed	Survey Instrument	Bad Reading	Comments
0	COLL	UTM10N_NAD83	-60	115			115		14/11/2012	CMP	☐	
21.34	EZ Shot	UTM10N_NAD83	-59.2	115	109.1	18	127.1		14/11/2012	EZ	☐	
83.82	EZ Shot	UTM10N_NAD83	-59.4	115	105	18	123		14/11/2012	EZ	☐	
144.78	EZ Shot	UTM10N_NAD83	-59.9	115	105.4	18	123.4		14/11/2012	EZ	☐	
205.74	EZ Shot	UTM10N_NAD83	-60.5	115	105.5	18	123.5		14/11/2012	EZ	☐	
266.7	EZ Shot	UTM10N_NAD83	-60.8	115	111.9	18	129.9		14/11/2012	EZ	☐	
303.28	EZ Shot	UTM10N_NAD83	-60.9	115	105.6	18	123.6		14/11/2012	EZ	☐	

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-08

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	0	5.79	Overburden	Overburden (OB)	

Alteration:	From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments

Minerals:	From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments

Veining:	From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:	From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	5.79	9	Fine Grained Basalt	RG Hornblende Basalt Dyke (IFBA)	Dark grey, black, fine grained hornblende basalt. Strong potassic alteration. Moderate propylitic overprint. Moderately to strongly magnetic. Rare fingers of red syenite (1-2mm in size, unmineralized). No visible chalcopyrite mineralization.

Alteration:	From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
	5.79	9	Pot	Primary	S	Propy	OvPrnt	M							Strong pervasive potassic alteration with magnetite, biotite. Moderate pervasive propylitic alteration with chlorite and patchy epidote, as well as carbonate veining. Moderate, selective fracture controlled and vein envelope hematite alteration.

Minerals:	From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
	5.79	9	Py	0.1	DIS										Pyrite weakly disseminated throughout. No visible chalcopyrite mineralization. Pyrite 0.1%

Veining:	From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
	5.79	9	Vcarb	±hem	0.5	VQtz									Carbonate veining throughout, some (40%) hematite stained. Rare quartz veining.

Structure:	From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	9	13.92	Porphyritic Andesite	RG Medium plag-phyric andesite monomictic breccia (IFAN)	Dk, gry-grn, fg plag and bx with chl, crystal rich matrix and chaotic, subangular clasts. Mod pot alt, strong chl alt, moderate hematite alteration. Weakly magnetic. No visible cpy mineralization.

DataSet: RG_GF

Hole ID: RG12-08

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
9	13.92	Pot	Primary	M	Chlor	OvPrnt	S	Hem	OvPrnt	M				Moderate pervasive potassic alteration with magnetite and biotite, strong pervasive chlorite alteration. Moderate selective, fracture controlled hematite alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
9	13.92	Py	0.1	DIS										Pyrite weakly disseminated in select areas. Pyrite 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
9	13.92	Vcarb	±hem	1										Stockwork carbonate veining, some (~30%) hematite stained.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	13.92	34.38	Medium Grained Syenite	RG Medium Syenite Crackle Breccia (IMSY)	Mg, clast dom, poly syen cem int bx. Clasts are subang,rot-jigsaw fit. Clasts volss or fg plag and. Was bx prev to syenite int. Syen is salmon pink, mg, elongate plag xtals. Wkly to mod mag clasts. Min excl to syen cement, +a few strs.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
13.92	34.38	Pot	Primary	M	Propy	OvPrnt	M							Moderate pervasive potassic alteration with magnetite and biotite. Moderate pervasive propylitic alteration with pervasive and veined chlorite, veined carbonate.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
13.92	34.38	Py	0.1	DIS	Cpy	0.01	AGG							Py within strg and very weakly diss in some areas. Cpy found within 2 stringers within clasts of andesite. Cpyr also within small agg (1-3mm) within syen. Py 0.1, Cpy trace.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
13.92	34.38	Vcpy	±py	0.1										Common chlorite-carbonate veins. Carbonate stockwork veining. Hematite stained carbonate veins. Very rare chalcopyrite and pyrite stringers.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
14.4	14.77	BRX	M	
29.92	30.15	FLT	W	60

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	34.38	68.48	Medium Grained Syenite	Medium-grained syenite intrusive breccia (IMSY)	Clast dom, syen cem int bx. Clasts are subang, and rotated-jig fit. Clasts are of either volss or fg plag and. Vol clasts are cg w plag and hbl phenos up to 2mm in size. Small areas (0.3m) displaying lam txts. Weakly magnetic within clasts.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
34.38	68.48	Pot	Primary	M	Propy	OvPrnt	VW							Mod perv pot alt with magnetite and biotite, rare k feldspar. Very weak propylitic alteration with chlorite-carbonate veining.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
34.38	68.48	Py	0.1	DIS	Cpy	0.01								Chalcopyrite limited to aggregates (1-3mm) within syenite. Pyrite within stringers and weakly disseminated in select areas. Chalcopyrite trace, Pyrite 0.1

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
34.38	68.48	Vchl	±carb±hem	0.5	VQtz		0.2							Chlorite-carbonate veining. Common carbonate veins, some of which (~25%) hematite stained. Rare smoky quartz veins. Rare hematite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
40.62	40.71	FLT	W	65

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	68.48	71.17	Porphyritic Diorite	RG Medium plag-phyric diorite (IPD)	Mg reddish-grey plag-phyric dio. Has a sharp contact with upper and lower units. Mod pot alt. Moderate propylitic alteration. Weakly magnetic. No visible chalcopyrite mineralization.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
68.48	71.17	Pot	Primary	M	Propy	OvPrnt	M							Moderate pervasive potassic alteration with magnetite, k feldspar. Moderate propylitic overprint with chlorite-carbonate veining.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
68.48	71.17	UnMin	0											No visible sulphide mineralization.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
68.48	71.17	Vcarb	±chl±hem	0.5										Carbonate-chlorite veins. Rare hematite stained carbonate veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
68.48	71.17	CI	S	70

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	71.17	103.35	Andesitic Sandstone	RG Fine Pyroxene Andesite (VANSS)	Drk gry-blk to red-gry, fg px and with aph groundmass. Px phenos up to 3mm, rare crowding of plag phenos 1-2mm in size. Str to int pot alt. Sel hem alt. Rare small (0.5-1cm) sy ints. Strongly mag. No visible cpy min.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
71.17	103.35	Pot	Primary	S										Strong to intense pervasive potassic alteration with magnetite and selective k feldspar flooding as well as k feldspar vein haloes.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
71.17	103.35	Py	0.1	DIS										No visible chalcopyrite mineralization. Pyrite weakly disseminated. Pyrite 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
71.17	103.35	Vcarb	±chl	1										Carbonate ± chlorite veining. Rare hematite stained carbonate veins. Rare quartz veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	103.35	112.15	Porphyritic Andesite	Fine plagioclase-phyric andesite (IPAN)	Plag phenos up to 2mm. Rare (~0.1%) px phenos up to 2mm in size. Blocky kpar and diss bio. Mod to str pot alt. Mod to str hem alt. small (0.4m) vs hem alt flt zone. Wkly to mod mag. Rare patchy salmon-pink syen (1-2cm, ~0.1%) No vis cpy min.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
103.35	112.15	Pot	Primary	M	Hem	OvPrnt	VS							Moderate to strong potassic alteration with magnetite, k feldspar, and biotite. Strong fracture controlled hematite alteration, fault zone has intense pervasive hematite alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
103.35	112.15	UnMin	0											No visible sulphide mineralization.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
103.35	112.15	Vcarb	±hem±kspar	0.5	Vhem		0.2							Carbonate veining. Hematite veining. Carbonate veins ± k feldspar vein haloes.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
105.36	105.88	FLT	S	50

DataSet: RG_GF

Hole ID: RG12-08

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	112.15	127.47	Fine Grained Andesite	Fine plag-phyric andesite polymictic breccia (IFAN)	Kspar and plag xstal rich matrix. Clasts are chaotic to rot with either similar comp to the matrix, or consisting of mag volss. Wkly to mod mag matrix, clasts of volss are str magnetic. No visible cpy min.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
112.15	127.47	Pot	Primary	S	Hem	OvPrnt	W							Strong potassic alteration with k feldspar, magnetite and biotite. Weak selective, fracture controlled hematite alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
112.15	127.47	Py	0.1	DIS										No visible chalcopyrite mineralization. Pyrite weakly disseminated. Pyrite trace.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
112.15	127.47	Vcarb	±hem±chl	0.5										Carbonate ± hematite veins. Rare carbonate ± chlorite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	127.47	142.6	Coarse Grained Syenite	RG Coarse Syenite (ICSY)	Dom by elongate, euh kspar (up to 6mm), interstitial plag and hbl (both 1-3mm in size). Str to int pot alt throughout. Some fracture surfaces coated with chl. Wkly mag. Cpy diss throughout.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
127.47	142.6	Pot	Primary	S	Chlor	OvPrnt	M							Strong pervasive potassic alteration with k feldspar and magnetite. Moderate fracture controlled chlorite alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
127.47	142.6	Cpy	0.5	DIS	Py	0.25	DIS							Chalcopyrite disseminated. Pyrite disseminated. Chalcopyrite 0.5%, Pyrite 0.25-0.5%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
127.47	142.6	Vcarb	n/a	0.2	Vchl		0.5							Rare carbonate veins. Chlorite veining.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

DataSet: RG_GF

Hole ID: RG12-08

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	142.6	146.2	Porphyritic Andesite	Fine plagioclase-phyric andesite (IPAN)	Plag phenos up to 2mm. Rare (~0.1%) px phenos up to 2mm in size. Contains blocky kspar and diss biot. Mod to str pot alt. Mod to str hem alt. Inter-fingering of syen throughout. Upper contact contains 2 med sized (2-5cm) veins of cpy.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
142.6	146.2	Pot	Primary	S	Hem	OvPrnt	S							Moderate to strong potassic alteration with magnetite, k feldspar, and biotite. Strong fracture controlled hematite alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
142.6	146.2	Cpy	1	VEN	Py	0.25	DIS							Chalcopyrite within veins. Pyrite weakly disseminated. Chalcopyrite 1%, Pyrite 0.25%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
142.6	146.2	Vcpy	±carb±kspar	0.2										Chalcopyrite ± k feldspar ± carbonate veins. Carbonate ± hematite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	146.2	149.37	Coarse Grained Syenite	RG Coarse Syenite (ICSY)	Dom by elongate, euh kspar (up to 6mm), interstitial plag and hbl (both 1-3mm in size). Str to vs pot alt throughout. Some frac surfaces coated with chl. Wkly mag. Cpy disseminated throughout.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
146.2	149.37	Pot	Primary	VS	Chlor	OvPrnt	M							Strong pervasive potassic alteration with k feldspar and magnetite. Moderate fracture controlled chlorite alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
146.2	149.37	Cpy	0.5	DIS	Py	0.25	DIS							Chalcopyrite disseminated and within small aggregates (up to 1mm). Pyrite disseminated. Chalcopyrite 0.5%, Pyrite 0.25-0.5%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
146.2	149.37	Vchl	n/a	0.5										Rare carbonate veins. Chlorite veining.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
148.88	148.9	FLTG	S	

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-08

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	149.37	158	Porphyritic Andesite	Fine plagioclase-phyric andesite (IPAN)	Plag phenos up to 2mm. Disc brwn-gry bleach ints. Rare (~0.1%) px phenos up to 2mm in size. Blocky kspar. Mod to str pot alt. Mod to str hem alt. Rare patchy salmon-pink syen fingers (1-2cm,~0.1%) No vis cpy min.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
149.37	158	Pot	Primary	S	Hem	OvPrnt	M							Strong pervasive potassic alteration with k feldspar, magnetite. Select intervals with pervasive moderate hematite alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
149.37	158	Py	0.1	DIS										No visible chalcopyrite mineralization. Pyrite very weakly disseminated. Pyrite trace

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	158	171.94	Andesitic Sandstone	RG Fine Pyroxene Andesite (VANSS)	Subh px phenos, 1-3mm. Mod pot alt. Strong propyl ovrpnt. Frac cont hem alt. Rare hem-chl alt amygdules. Weakly magnetic. No vis cpy mineralization.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
158	174.94	Propy	OvPrnt	S	Pot	Primary	M							Weak to moderate pervasive potassic alteration with magnetite and rare k feldspar flooding. Strong pervasive propylitic overprint with carbonate and chlorite. Moderate fracture controlled hematite alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
158	171.94	UnMin	0											No visible sulphides.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
149.37	171.94	Vcarb	±chl	2	VQtz	±chl	0.1							Common carbonate veining. Carbonate-chlorite veining. Quartz-chlorite veining.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
166.7	166.8	FLTG	M	80

DataSet: RG_GF

Hole ID: RG12-08

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	171.94	179.35	Porphyritic Andesite	Fine plagioclase-phyric andesite (IPAN)	Plag phenos up to 2mm. Rare (~0.1%) px phenos up to 2mm in size. Kspar and diss bio. Mod to str pot alt. Mod to strong hem alt. Inter-fingering of syen. Wkly magn. Cpy present in qtz veins within syenite fingers.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
174.94	179.35	Pot	Primary	S	Propy	OvPrnt	M							Strong pervasive potassic alteration with biotite, k feldspar. Moderate pervasive propylitic alteration with carbonate-chlorite.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
171.94	179.35	Cpy	0.25	VEN	Py	0.1	DIS							Chalcopyrite within sandstone interval and within veins. Pyrite very weakly disseminated in select areas. Chalcopyrite 0.1-0.25%, Pyrite 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
171.94	179.35	VQtz	±cpy	0.2	Vcarb		1							Common carbonate veining. Rare quartz-chalcopyrite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	179.35	196.33	Porphyritic Andesite	Fine plagioclase-phyric andesite (IPAN)	Andesite has strong propylitic alteration. Moderate potassic alteration. Bleached. Non magnetic. No visible chalcopyrite mineralization.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
179.35	196.33	Propy	OvPrnt	S	Pot	Primary	M	Hem	OvPrnt	W				Strong pervasive propylitic alteration with calcite, chlorite. Moderate patchy potassic alteration with rare k feldspar flooding. Weak to moderate fracture controlled hematite alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
179.35	196.33	UnMin	0											No visible sulphide mineralization.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
179.35	196.33	Vcarb	±chl	2	Vhem		0.2							Common carbonate-chlorite veins. Hematite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
183.44	183.51	RUB	M	
185.4	187.55	BRX	S	

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	196.33	214.25	Porphyritic Andesite	Fine plag-phyric andesite polymictic breccia (IFAN)	Rotated to chaotic clasts. Clasts are andesite, syenite and some sediments. Discrete intervals of intensified potassic alteration with increased magnetite. Overall, weak to moderately magnetic. Near the lower contact of unit is a fault breccia.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
196.33	214.25	Propy	OvPrnt	S	Pot	Primary	S							Strong pervasive propylitic alteration with chlorite, carbonate. Strong to intense patchy potassic alteration with magnetite and rare k feldspar.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
196.33	214.25	UnMin	0											No visible sulphides.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
196.33	214.25	Vcarb	±chl	3										Extremely common carbonate ± chlorite veining.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
209.85	210.57	FLTBX	M	

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	214.25	239.83	Medium Grained Syenite	Medium-grained syenite intrusive breccia (IMSY)	Clasts are subangular, and rot to jigsaw fit. Clasts are of either volss or fg plag and. Unit appears to have been bx'd previous to syen. Strong pot alt, mod propyl ovrprt. Mod to str mag. Cpy in rare aggs (1-2mm) within syen cem.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
214.25	239.83	Pot	Primary	S	Propy	OvPrnt	M							Strong pervasive potassic alteration with magnetite, biotite and k feldspar. Moderate propylitic alteration with veined and fracture controlled chlorite, carbonate veining. Moderate fracture controlled hematite alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
214.25	239.83	Cpy	0.1	AGG										Chalcopyrite found in rare aggregates within syenite cement. Chalcopyrite trace.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
214.25	239.83	Vchl	±carb	1										Common wispy carbonate veins. Chlorite-carbonate veins. Hematite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

DataSet: RG_GF

Hole ID: RG12-08

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	239.83	248.4	Porphyritic Andesite	Fine plag-phyric andesite polymictic breccia (IFAN)	Mottled, brown-grey, fine grained polymictic andesite breccia with rotated to chaotic clasts. Clasts are andesite, syenite and some sediments. Strong potassic alteration. Moderately to strongly magnetic. No visible sulphides.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
239.83	248.4	Pot	Primary	S	Propy	OvPrnt	M							Strong pervasive potassic alteration with magnetite and k feldspar. Moderate pervasive propylitic alteration with chlorite-carbonate veining, pervasive chlorite.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
239.83	248.4	UnMin	0											No visible sulphides

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
239.83	248.4	Vcarb	±chl	0.5										Carbonate-chlorite veins. Rare hematite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	248.4	257.74	Medium Grained Syenite	RG Medium-grained syenite (IMSY)	Contains euhedral, elongate k feldspar phenocrysts (3-4mm). Strong potassic alteration. Hematite alteration. Clay altered phenocrysts throughout (1-2mm). Moderately to strongly magnetic. No visible sulphides.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
248.4	257.74	Pot	Primary	S	Hem	OvPrnt	M	Cly	OvPrnt	M				Strong pervasive potassic alteration with magnetite, k feldspar. Moderate fracture controlled hematite alteration. Pervasive moderate clay alteration with clay replaced subhedral phenocrysts, as well as clay veining.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
248.4	257.74	UnMin	0											No visible sulphides.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
248.4	257.74	Vcarb	n/a	1										Common wispy carbonate veins, hematite veins. Carbonate-clay veining.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-08

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	257.74	289.76	Porphyritic Andesite	Fine plag-phyric andesite polymictic breccia (IFAN)	Feldspar and plag xstal rich matrix. Clasts are cha-rot with either similar comp to the matrix, or consisting of salmon-pnk syen. Clasts range from 2-7cm. Mod to str magnetic matrix. Trace cpy min.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
257.74	289.76	Pot	Primary	S	Propy	OvPrnt	M	Hem	OvPrnt	W				Strong potassic alteration with k feldspar, magnetite and biotite. Moderate to strong pervasive propylitic alteration with chlorite and carbonate. Weak selective, fracture controlled hematite alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
257.74	289.76	Cpy	0.1	AGG	Py	0.1	DIS							Rare aggregates of chalcopyrite within matrix. Pyrite weakly disseminated in select areas. Chalcopyrite trace, pyrite trace.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
257.74	289.76	Vcarb	±hem±chl	0.5										Carbonate ± hematite veins, single 2cm wide carbonate vein runs along core axis for 0.3m. Rare carbonate ± chlorite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
257.74	276.32	RUB	S	

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	289.76	291.8	Porphyritic Andesite	Coarse Plagioclase-phyric Andesite Dyke (IPAN)	Plagioclase phenocrysts are elongate, 3-5mm in size. Aphanitic groundmass. Occasional salmon-pink syenite intrusions (less than 1/m, 2cm). Moderately to strongly magnetic in select areas. Mineralized.

DataSet: RG_GF

Hole ID: RG12-08

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
289.76	291.8	Pot	Primary	S	Propy	OvPrnt	M							Strong pervasive potassic alteration with magnetite and k feldspar. Moderate patchy propylitic alteration with chlorite replacing some plagioclase phenocrysts, rare (less than 1%) patchy epidote.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
289.76	291.8	Cpy	0.1	AGG	Py	0.1	DIS							Chalcopyrite in rare aggregates in groundmass. Pyrite aggregated and weakly disseminated. Chalcopyrite 0.1%, Pyrite 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
289.76	291.8	Vcarb	±kspar	0.2										Carbonate veins with occasional (~40%) k feldspar haloes.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
289.76	291.8	CI	S	

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	291.8	303.28	Fine Grained Andesite	Fine plag-phyric andesite polymictic breccia (IFAN)	Feldspar and plag xstal rich matrix. Clasts are cha-rot with either similar comp to the matrix, or consisting of salmon-pink syen. Clasts range from 2-7cm. Mod to str mag matrix.Trace cpy min replacing matrix close to upper contact.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
291.8	303.28	Pot	Primary	S	Propy	OvPrnt	S							Strong potassic alteration with k feldspar, magnetite and biotite. Moderate to strong pervasive propylitic alteration with chlorite and carbonate.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
291.8	303.28	Cpy	0.1	AGG	Py	0.1	AGG							Rare agg of cpy replacing matrix close to upper contact, this int (0.3m) has ~0.5% cpy. After this interval, cpy min disappears. Py wkly dis in select areas.Cpy trace, py trace.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
291.8	303.28	Vcarb	±kspar±chl	0.3										Carbonate veins, some (~10%) with k feldspar haloes. Chlorite-carbonate veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

DataSet: RG_GF

Hole ID: RG12-08

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	Comments
5.79	7.01	1.22	0.88	72.13	
7.01	10.06	3.05	2.95	96.72	
10.06	13.11	3.05	2.97	97.38	
13.11	16.15	3.04	3	98.68	
16.15	16.76	0.61	0.61	100	
16.76	19.81	3.05	2.91	95.41	
19.81	22.86	3.05	3.04	99.67	
22.86	25.91	3.05	3.07	100.66	
25.91	28.96	3.05	3.04	99.67	
28.96	32	3.04	2.96	97.37	
32	35.05	3.05	3.04	99.67	
35.05	38.1	3.05	3.07	100.66	
38.1	41.15	3.05	3.02	99.02	
41.15	44.2	3.05	3	98.36	
44.2	47.24	3.04	3.07	100.99	
47.24	50.29	3.05	3.02	99.02	
50.29	53.34	3.05	3.05	100	
53.34	56.39	3.05	3.02	99.02	
56.39	59.44	3.05	3.05	100	
59.44	62.48	3.04	3	98.68	
62.48	65.53	3.05	2.89	94.75	
65.53	68.58	3.05	3.09	101.31	
68.58	71.63	3.05	2.92	95.74	
71.63	74.68	3.05	2.95	96.72	
74.68	77.72	3.04	3.05	100.33	
77.72	80.77	3.05	3.04	99.67	
80.77	83.82	3.05	3.05	100	
83.82	86.87	3.05	3	98.36	
86.87	88.7	1.83	1.81	98.91	
88.7	89.92	1.22	1.12	91.8	
89.92	92.96	3.04	3.02	99.34	
92.96	96.01	3.05	2.98	97.7	
96.01	99.06	3.05	2.96	97.05	
99.06	102.11	3.05	2.98	97.7	
102.11	105.16	3.05	3.01	98.69	
105.16	106.98	1.82	1.8	98.9	
106.98	108.2	1.22	1.16	95.08	
108.2	109.73	1.53	1.47	96.08	
109.73	111.25	1.52	1.36	89.47	
111.25	114.3	3.05	2.86	93.77	
114.3	115.52	1.22	1.2	98.36	
115.52	117.35	1.83	1.73	94.54	
117.35	120.4	3.05	3.05	100	
120.4	123.44	3.04	2.98	98.03	
123.44	124.05	0.61	0.4	65.57	
124.05	126.49	2.44	2.46	100.82	
126.49	129.54	3.05	3.01	98.69	
129.54	132.59	3.05	2.95	96.72	
132.59	135.64	3.05	3.05	100	
135.64	138.68	3.04	2.93	96.38	
138.68	141.73	3.05	2.97	97.38	
141.73	144.78	3.05	3.04	99.67	
144.78	147.83	3.05	2.96	97.05	
147.83	150.88	3.05	2.97	97.38	
150.88	153.01	2.13	2.01	94.37	
153.01	156.06	3.05	3.01	98.69	
156.06	159.11	3.05	3.03	99.34	
159.11	162.15	3.04	3.06	100.66	
162.15	163.07	0.92	0.81	88.04	

Hole ID: **RG12-08**

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	Comments
163.07	166.12	3.05	2.93	96.07	
166.12	169.16	3.04	2.98	98.03	
169.16	172.21	3.05	3.05	100	
172.21	175.26	3.05	2.98	97.7	
175.26	178.31	3.05	3.01	98.69	
178.31	181.36	3.05	2.94	96.39	
181.36	184.4	3.04	2.91	95.72	
184.4	187.45	3.05	3.04	99.67	
187.45	190.5	3.05	3	98.36	
190.5	193.55	3.05	3.06	100.33	
193.55	196.6	3.05	3.01	98.69	
196.6	199.03	2.43	2.5	102.88	
199.03	199.64	0.61	0.48	78.69	
199.64	202.69	3.05	3	98.36	
202.69	205.74	3.05	3.06	100.33	
205.74	208.79	3.05	3.03	99.34	
208.79	211.84	3.05	3.03	99.34	
211.84	214.88	3.04	3.03	99.67	
214.88	217.63	2.75	2.49	90.55	
217.63	220.68	3.05	2.86	93.77	
220.68	223.72	3.04	2.76	90.79	
223.72	226.77	3.05	2.74	89.84	
226.77	229.82	3.05	2.71	88.85	
229.82	232.87	3.05	2.88	94.43	
232.87	233.17	0.3	0.25	83.33	
233.17	236.22	3.05	2.77	90.82	
236.22	239.27	3.05	2.94	96.39	
239.27	242.32	3.05	2.96	97.05	
242.32	245.36	3.04	2.93	96.38	
245.36	248.41	3.05	2.91	95.41	
248.41	251.46	3.05	3.01	98.69	
251.46	254.51	3.05	3.04	99.67	
254.51	257.56	3.05	3	98.36	
257.56	260.6	3.04	2.43	79.93	
260.6	261.52	0.92	0.59	64.13	
261.52	262.43	0.91	0.68	74.73	
262.43	263.04	0.61	0.64	104.92	
263.04	263.65	0.61	0.41	67.21	
263.65	264.87	1.22	1.22	100	
264.87	266.09	1.22	0.87	71.31	
266.09	267	0.91	0.76	83.52	
267	268.22	1.22	1.21	99.18	
268.22	269.14	0.92	0.66	71.74	
269.14	269.75	0.61	0.37	60.66	
269.75	270.97	1.22	1.01	82.79	
270.97	272.8	1.83	1.71	93.44	
272.8	273.41	0.61	0.36	59.02	
273.41	274.32	0.91	0.53	58.24	
274.32	275.23	0.91	0.61	67.03	
275.23	275.84	0.61	0.47	77.05	
275.84	278.28	2.44	2.31	94.67	
278.28	281.33	3.05	3.01	98.69	
281.33	283.77	2.44	1.68	68.85	
283.77	286.82	3.05	2.88	94.43	
286.82	289.86	3.04	2.93	96.38	
289.86	291.08	1.22	1.24	101.64	
291.08	294.13	3.05	2.92	95.74	
294.13	297.18	3.05	2.97	97.38	
297.18	300.23	3.05	3.03	99.34	
300.23	303.28	3.05	2.97	97.38	EOH

GeoSpark Logger Print Logs ~ Geotech Domains

DataSet: RG_GF

Hole ID: RG12-08

From (m)	To (m)	Interval Length	Natural Break Count	RQD (m)	RQD %	Domain Type	Rock Strength	Discont. Type 1	Discont. CA	Rough	Infill Type	Infill Thicknes	Discont. Type 2	Discont. CA	Rough	Infill Type	Infill Thicknes	Comments
5.79	9	3.21	45	1.06	33.02	LithChg	MS	dis	55	rau	mode	t<1						
9	13.92	4.92	11	2.75	55.89	LithChg	MS	joi	70	rau	non	none	joi	0	rau	mode	t<1	
13.92	19.82	5.9	33	2.63	44.58	LithChg	S	joi	25	smu	sof	t<1						
19.82	34.38	14.56	32	2.82	19.37	LithAltChg	MS	joi	55	rau	mode	t<1	joi	0	rau	mode	t<1	
34.38	43.14	8.76	18	6.9	78.77	LithChg	MS	joi	80	smu	sli	t<1	dis	35	gpu	sof	nwc	
43.14	68.48	25.34	98	23.18	91.48	LithChg	MS	vei	45	rau	mode	t<1	vei	60	rad	non	t>5	
68.48	71.17	2.69	14	1.65	61.34	LithChg	S	vei	70	rad	una	t<1	dis	75	gpu	sof	t>5	
71.17	103.35	32.18	137	21.95	68.21	LithChg	MS	vei	55	rau	sli	t<1	dis	40	gpu	sof	nwc	
103.35	112.15	8.8	78	3.24	36.82	LithChg	MS	vei	50	rau	sli	t<1	vei	65	smp	sof	t>5	
112.15	127.47	15.32	84	6.51	42.49	LithChg	S	vei	40	rau	sli	t<1						
127.47	142.6	15.13	102	9.05	59.81	LithChg	MS	vei	70	ssp	sli	t<1	dis	65	gpu	sof	t>5	
142.6	146.2	3.6	55	1.32	36.67	LithChg	W	dis	30	smp	sli	t<1	dis	60	gpu	sof	t>5	
146.2	149.37	3.17	60	0.77	24.29	LithChg	MS	dis	60	smp	sof	t<1	dis	55	gpu	sof	nwc	
149.37	158	8.63	88	3.68	42.64	LithChg	MS	vei	60	smp	non	t<5	dis	50	gpu	sof	nwc	
158	171.94	13.94	83	10.26	73.6	AltChg	MS	joi	30	smu	sof	t<5	dis	70	smu	sof	nwc	
171.94	179.35	7.41	38	5.42	73.14	AltChg	S	joi	35	smu	sof	t<1						
179.35	196.33	16.98	77	13.23	77.92	AltChg	S	vei	40	rau	non	t<1	dis	30	rau	sof	t>5	
196.33	209.85	13.52	38	11.28	83.43	LithChg	S	vei	50	rap	sli	t<1						
209.85	210.57	0.72	3	0.63	87.5	StrucChg	S	joi	60	rad	una	t<1						
210.57	214.23	3.66	10	3.37	92.08	StrucChg	S	dis	60	smu	sli	t<1						
214.23	239.83	25.6	235	10.09	39.41	LithChg	MS	dis	55	smu	sli	t<1	dis	60	gpu	sof	nwc	
239.83	248.4	8.57	67	4.09	47.72	LithChg	S	vei	40	smp	sof	t<1	dis	40	smu	sof	t<5	
248.4	257.74	9.34	82	4.1	43.9	LithChg	MS	dis	30	smu	sof	t<1	dis	25	smu	sof	t>5	
257.74	276.32	18.58	371	1.66	8.93	LithStruChg	S	vei	45	smp	non	t<1	dis	55	gpu	sof	nwc	
276.32	289.76	13.44	112	6.22	46.28	StrucChg	S	vei	45	smd	non	t<1	dis	35	smu	mode	t<5	
289.76	291.8	2.04	15	1.2	58.82	LithChg	S	joi	60	rau	una	t<1						
291.8	303.28	11.48	62	6.87	59.84	LithChg	S	vei	60	smp	sli	t<1	dis	50	smu	mode	t<5	EOH

GeoSpark Logger Print Logs ~ Mag Susceptibility

DataSet: RG_GF

Hole ID: RG12-08

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
5.79	7	1.21	38.84	40.16	75.64	51.547		DBigg	11/11/2012	
7	9	2	77.18	72.21	52.03	67.14		DBigg	11/11/2012	
9	11	2	37.06	45.83	51.51	44.8		DBigg	11/11/2012	
11	12	1	35.97	18.58	17.42	23.99		DBigg	11/11/2012	
12	13.92	1.92	20.8	34.02	65.19	40.003		DBigg	11/11/2012	
13.92	15	1.08	32.25	11.21	27.47	23.643		DBigg	11/11/2012	
15	17	2	65.37	54.34	48.27	55.993		DBigg	11/11/2012	
17	18	1	42.16	61.36	58.15	53.89		DBigg	11/11/2012	
18	19.82	1.82	48.09	56.72	38.95	47.92		DBigg	11/11/2012	
19.82	21	1.18	42.72	32.84	35.38	36.98		DBigg	11/11/2012	
21	23	2	6.587	31.03	6.406	14.674		DBigg	11/11/2012	
23	24.2	1.2	18.95	24.86	10.08	17.963		DBigg	11/11/2012	
24.2	26	1.8	17.21	37.72	51.68	35.537		DBigg	11/11/2012	
26	28	2	61.53	44.65	44.53	50.237		DBigg	11/11/2012	
28	30	2	37.34	46.55	4.84	29.577		DBigg	11/11/2012	
30	32	2	4.708	37.57	3.243	15.174		DBigg	11/11/2012	
32	33	1	15.48	68.58	65.37	49.81		DBigg	11/11/2012	
33	34.38	1.38	59.45	63.6	66.4	63.15		DBigg	11/11/2012	
34.38	36	1.62	68.69	74.4	39.18	60.757		DBigg	11/11/2012	
36	38	2	34.95	38.77	45.39	39.703		DBigg	11/11/2012	
38	40	2	70.32	80.39	67.63	72.78		DBigg	11/11/2012	
40	42	2	19.92	54.95	57.82	44.23		DBigg	11/11/2012	
42	43.14	1.14	38.37	41.89	50.25	43.503		DBigg	11/11/2012	
43.14	45	1.86	47.93	53.95	142.3	81.393		BG	12/11/2012	
45	47	2	81.55	99.9	120.6	100.683		BG	12/11/2012	
47	49	2	118.9	126.8	19.1	88.267		BG	12/11/2012	
49	51	2	25.7	95.76	32.72	51.393		BG	12/11/2012	
51	53	2	37.08	60.7	41.53	46.437		BG	12/11/2012	
53	55	2	90.67	101.2	81.47	91.113		BG	12/11/2012	
55	57	2	63.39	83.88	63.11	70.127		BG	12/11/2012	
57	59	2	15.28	79.84	13.53	36.217		BG	12/11/2012	
59	61	2	76.74	7.15	54.79	46.227		BG	12/11/2012	
61	63	2	58.96	87.39	80.29	75.547		BG	12/11/2012	
63	65	2	96.57	76.44	78.55	83.853		BG	12/11/2012	
65	67	2	51.74	79.63	58.39	63.253		BG	12/11/2012	
67	68.48	1.48	145.3	114.6	103.6	121.167		BG	12/11/2012	
68.48	70	1.52	68.39	66.1	77.51	70.667		BG	12/11/2012	

Hole ID: **RG12-08**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
70	71.17	1.17	85.51	85.61	92.91	88.01		BG	12/11/2012	
71.17	73	1.83	96.28	89.65	83.52	89.817		BG	12/11/2012	
73	75	2	85.87	76.11	81.83	81.27		BG	12/11/2012	
75	77	2	86.83	88.85	100.1	91.927		BG	12/11/2012	
77	79	2	92.01	74.14	98.89	88.347		BG	12/11/2012	
79	81	2	84.99	84.02	85.79	84.933		BG	12/11/2012	
81	83	2	87.07	69.94	92.94	83.317		BG	12/11/2012	
83	85	2	82.45	86.22	86.55	85.073		BG	12/11/2012	
85	87	2	96.74	83.12	82.26	87.373		BG	12/11/2012	
87	89	2	69.5	78.55	89.19	79.08		BG	12/11/2012	
89	91	2	89.07	79.96	72.25	80.427		BG	12/11/2012	
91	93	2	78.49	71.92	87.09	79.167		BG	12/11/2012	
93	95	2	85.29	83.47	67.45	78.737		BG	12/11/2012	
95	97	2	75.77	60.31	69.41	68.497		BG	12/11/2012	
97	99	2	90.01	103.2	73.26	88.823		BG	12/11/2012	
99	101	2	93.97	90.49	91.42	91.96		BG	12/11/2012	
101	102	1	98.9	92.28	88.11	93.097		BG	12/11/2012	
102	103.35	1.35	81.61	89.18	80.79	83.86		BG	12/11/2012	
103.35	105	1.65	79.48	71.47	79.08	76.677		BG	12/11/2012	
105	107	2	55.77	64.02	89.02	69.603		BG	12/11/2012	
107	109	2	83.43	89.81	101	91.413		BG	12/11/2012	
109	111	2	99.9	63.74	80.49	81.377		BG	12/11/2012	
111	112.15	1.15	86.93	95.19	88.09	90.07		BG	12/11/2012	
112.15	114	1.85	99.1	100	103.4	100.833		BG	12/11/2012	
114	116	2	81.93	100.7	80.79	87.807		BG	12/11/2012	
116	118	2	78.27	93.85	92.67	88.263		BG	12/11/2012	
118	120	2	64.75	78.26	78.86	73.957		BG	12/11/2012	
120	122	2	12.19	67.56	50.55	43.433		BG	12/11/2012	
122	124	2	87.9	66.4	92.06	82.12		BG	12/11/2012	
124	126	2	58.79	43.2	84.7	62.23		BG	12/11/2012	
126	127.47	1.47	77.4	44.26	56.1	59.253		BG	12/11/2012	
127.47	129	1.53	66.35	8.36	69.95	48.22		BG	12/11/2012	
129	131	2	86.41	47.46	60.96	64.943		BG	12/11/2012	
131	133	2	47.19	60.84	51.21	53.08		BG	12/11/2012	
133	135	2	67.12	60.98	93.51	73.87		BG	12/11/2012	
135	137	2	57.33	37.68	87.56	60.857		BG	12/11/2012	
137	139	2	77.44	66.43	34.12	59.33		BG	12/11/2012	
139	141	2	54.77	56.51	22.63	44.637		BG	12/11/2012	
141	142.6	1.6	53.08	40.54	12.15	35.257		BG	12/11/2012	

Hole ID: **RG12-08**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
142.6	144	1.4	11.41	73.63	98.64	61.227		BG	12/11/2012	
144	145	1	27.32	90.33	81.65	66.433		BG	12/11/2012	
145	146.2	1.2	85.15	51.05	105.2	80.467		BG	12/11/2012	
146.2	148	1.8	3.63	12.31	51.05	22.33		BG	12/11/2012	
148	149.37	1.37	1.48	26.16	1.65	9.763		BG	12/11/2012	
149.37	151	1.63	2.79	3.53	1.66	2.66		BG	12/11/2012	
151	153	2	1.77	3.16	2.85	2.593		BG	12/11/2012	
153	155	2	15.32	4.33	74.99	31.547		BG	12/11/2012	
155	157	2	51.83	2.98	47.32	34.043		BG	12/11/2012	
157	158	1	1.31	1.88	1.38	1.523		BG	12/11/2012	
158	160	2	5.83	1.33	1.11	2.757		BG	12/11/2012	
160	162	2	1.86	0.9	1.13	1.297		BG	12/11/2012	
162	164	2	2.63	2.69	30	11.773		BG	12/11/2012	
164	166	2	1.59	1.05	1	1.213		BG	12/11/2012	
166	168	2	1.31	0.6	0.81	0.907		BG	12/11/2012	
168	170	2	0.6	1.82	0.99	1.137		BG	12/11/2012	
170	171.94	1.94	1.86	5.92	17.41	8.397		BG	12/11/2012	
171.94	174	2.06	2.8	1.48	5.29	3.19		BG	12/11/2012	
174	176	2	1.46	0.85	6.41	2.907		BG	12/11/2012	
176	178	2	6.5	12.77	256.7	91.99		BG	12/11/2012	
178	179.35	1.35	64.06	48.44	5.37	39.29		BG	12/11/2012	
179.35	181	1.65	0.75	1.31	1	1.02		JM	13/11/2012	
181	183	2	1.25	1.94	0.96	1.383		JM	13/11/2012	
183	185	2	1.32	0.69	0.98	0.997		JM	13/11/2012	
185	187	2	0.6	0.66	0.56	0.607		JM	13/11/2012	
187	189	2	0.64	0.77	0.69	0.7		JM	13/11/2012	
189	191	2	0.59	17.79	1.13	6.503		JM	13/11/2012	
191	193	2	0.77	0.89	0.69	0.783		JM	13/11/2012	
193	195	2	0.6	1.32		0.96		JM	13/11/2012	
195	196.33	1.33	0.58	0.53	1.02	0.71		JM	13/11/2012	
196.33	198	1.67	0.74	1.07	0.97	0.927		JM	13/11/2012	
198	200	2	1.15	2.1	1.55	1.6		JM	13/11/2012	
200	202	2	1.26	2.34	24.32	9.307		JM	13/11/2012	
202	204	2	33.79	49.92	1.89	28.533		JM	13/11/2012	
204	206	2	0.83	1.24	1.11	1.06		JM	13/11/2012	
206	208	2	0.76	0.52	0.86	0.713		JM	13/11/2012	
208	209.85	1.85	0.72	1.29	0.77	0.927		JM	13/11/2012	
209.85	210.57	0.72	1.21	0.48	0.62	0.77		JM	13/11/2012	
210.57	212	1.43	0.5	0.49	1.19	0.727		JM	13/11/2012	

Hole ID: **RG12-08**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
212	213	1	1.4	0.97	1.48	1.283		JM	13/11/2012	
213	214.23	1.23	1.68	1.5	2.04	1.74		JM	13/11/2012	
214.23	216	1.77	38.81	51.02	4.27	31.367		JM	13/11/2012	
216	218	2	46.43	92.35	80.5	73.093		JM	13/11/2012	
218	220	2	54.72	58.86	73.13	62.237		JM	13/11/2012	
220	222	2	93.03	32.17	42.54	55.913		JM	13/11/2012	
222	224	2	52.33	45.44	45.69	47.82		JM	13/11/2012	
224	226	2	39.54	42.82	40.63	40.997		JM	13/11/2012	
226	228	2	48.45	2.18	42.38	31.003		JM	13/11/2012	
228	230	2	71.94	66.47	44.65	61.02		JM	13/11/2012	
230	232	2	72.63	55	74	67.21		JM	13/11/2012	
232	234	2	80.03	95.64	52.92	76.197		JM	13/11/2012	
234	236	2	54.57	70.02	62.13	62.24		JM	13/11/2012	
236	238	2	77.82	63.65	81.06	74.177		JM	13/11/2012	
238	239.83	1.83	51.63	42.66	81.22	58.503		JM	13/11/2012	
239.83	241	1.17	1.95	3.92	2.71	2.86		JM	13/11/2012	
241	243	2	1.71	28.4	2.25	10.787		JM	13/11/2012	
243	245	2	68.92	57.76	39.39	55.357		JM	13/11/2012	
245	247	2	37.31	54.79	16.49	36.197		JM	13/11/2012	
247	248.4	1.4	13.11	19.5	63.06	31.89		JM	13/11/2012	
248.4	250	1.6	1.88	30.67	17.55	16.7		JM	13/11/2012	
250	252	2	1.23	1.52	0.61	1.12		JM	13/11/2012	
252	254	2	0.7	6.54	4.58	3.94		JM	13/11/2012	
254	256	2	1.25	1.36	7.87	3.493		JM	13/11/2012	
256	257.74	1.74	28.92	13.28	21.45	21.217		JM	13/11/2012	
257.74	259	1.26	15.09	61.12	31.8	36.003		BG	14/11/2012	
259	261	2	48.16	28.8	60.46	45.807		BG	14/11/2012	
261	263	2	31.59	63.5	77.82	57.637		BG	14/11/2012	
263	265	2	51.17	50.71	81.81	61.23		BG	14/11/2012	
265	267	2	77.94	81.63	62.1	73.89		BG	14/11/2012	
267	269	2	80.87	100.2	76.61	85.893		BG	14/11/2012	
269	271	2	57.41	55.34	82.37	65.04		BG	14/11/2012	
271	273	2	78.74	75.18	43.81	65.91		BG	14/11/2012	
273	275	2	62.45	68.94	42.99	58.127		BG	14/11/2012	
275	276.32	1.32	48.93	23.72	98.14	56.93		BG	14/11/2012	
276.32	278	1.68	74.21	89.19	132.9	98.767		BG	14/11/2012	
278	280	2	79.95	86.66	33.67	66.76		BG	14/11/2012	
280	282	2	81.1	26.2	75.08	60.793		BG	14/11/2012	
282	284	2	78.8	71.09	38.61	62.833		BG	14/11/2012	

GeoSpark Logger Print Logs ~ Mag Susceptibility

Hole ID: **RG12-08**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
284	286	2	57.82	103.4	106.5	89.24		BG	14/11/2012	
286	288	2	153.8	61.47	50.63	88.633		BG	14/11/2012	
288	289.76	1.76	64.62	73.39	71.51	69.84		BG	14/11/2012	
289.76	291.8	2.04	68.31	49.9	51.63	56.613		BG	14/11/2012	
291.8	293	1.2	119	131.7	41.4	97.367		BG	14/11/2012	
293	295	2	157	73.47	41.65	90.707		BG	14/11/2012	
295	297	2	23.55	48.07	54.28	41.967		BG	14/11/2012	
297	299	2	54.05	103.2	60.4	72.55		BG	14/11/2012	
299	301	2	69.33	79.06	69.67	72.687		BG	14/11/2012	
301	302	1	292.6	66.01	40.35	132.987		BG	14/11/2012	
302	303.28	1.28	67.68	40.78	76.29	61.583		BG	14/11/2012	EOH

GeoSpark Logger Print Logs ~ Specific Gravity

DataSet: RG_GF

Hole ID: RG12-08

From (m)	To (m)	Sample ID	Sample Type	SG Method	Weight Dry (g)	Weight Wet (g)	Bulk Density	Lithology GF Code	Local Lith Code	Alt 1 Code	Alt Interp	Alt Int	Sulph. %	Date Sampled	Sampled By	Comments
30.43	30.55	P385055	WC	MEAS	601	375.1	2.66	IMSY	MedSyen_BX	Pot	Primary	M	0.1	11/11/2012	DBigg	
55.56	55.7	P385072	WC	MEAS	751	475	2.72	IMSY	MedSyen_IBX	Pot	Primary	M	0.1	11/11/2012	DBigg	
79.77	79.88	P385086	WC	MEAS	582	372.7	2.78	VANSS	FnPxAnd	Pot	Primary	S	0.1	12/11/2012	BG	
105.04	105.16	P385103	WC	MEAS	636.1	406.1	2.77	IPAN	FnPlagAnd	Pot	Primary	M	0	12/11/2012	BG	
130.3	130.41	P385117	WC	MEAS	582.9	367.1	2.7	IPAN	FnPlagAnd	Pot	Primary	M	0.5	12/11/2012	BG	
155.1	155.25	P385135	WC	MEAS	736.2	466.6	2.73	IPAN	FnPxAnd	Pot	Primary	S	0.1	12/11/2012	BG	
181	181.12	P385152	WC	MEAS	719.6	450.2	2.67	IPAN	FnPlagAnd	Propy	OvPrnt	S	0	12/11/2012	BG	
206.55	206.69	P385166	WC	MEAS	693.2	437.3	2.71	IPAN	FnPlagAnd	Propy	OvPrnt	S	0	13/11/2012	BG	
231.26	231.38	P385183	WC	MEAS	628.6	392.1	2.66	IMSY	MedSyen_BX	Pot	Primary	S	0.1	13/11/2012	BG	
256.84	256.96	P385198	WC	MEAS	528.8	327.6	2.63	IMSY	MedSyen	Pot	Primary	S	0	13/11/2012	BG	
281.33	281.43	P385214	WC	MEAS	572.4	368.9	2.81	IPAN	FnPlagAnd	Pot	Primary	S	0.1	14/11/2012	BG	EOH

GeoSpark Logger Print Logs ~ Specterra Data

DataSet: RG_GF

Hole ID: RG12-08

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
5.79	7	P385038	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1915	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2330	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret mineral from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
7	9	P385039	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1913	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret mineral from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
9	11	P385041	1	WALT	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2252	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
11	12	P385042	1	WALT	OH+H20 (1400nm)	1	1408	2		3					
					H20 (1900nm)	1	1911	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2252	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
12	13.92	P385043	0	WALT	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1907	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2251	2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
13.92	15	P385044	2	bxcmt	OH+H20 (1400nm)	1	1454	2		3					
					H20 (1900nm)	1	1941	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
15	17	P385045	2	WALT	OH+H20 (1400nm)	1	1410	2		3						
					H20 (1900nm)	1	1910	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						
Collection Comments:																
Interp Comments:																
Doublet/Triplet Comments																
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite			
17	18	P385046	1	WALT	OH+H20 (1400nm)	1	1410	2		3						
					H20 (1900nm)	1	1910	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2352	2		3						
					Other (nm)	1		2		3						
Collection Comments:																
Interp Comments:																
Doublet/Triplet Comments																
					☐ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite			

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
18	19.82	P385047	2	WALT	OH+H20 (1400nm)	1	1430	2		3						
					H20 (1900nm)	1	1920	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite			
19.82	21	P385048	2	WALT	OH+H20 (1400nm)	1	1414	2	1476	3						
					H20 (1900nm)	1	1910	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1	2237	2	2284	3						
					Mg-OH (2350nm)	1	2358	2		3						
					Other (nm)	1		2		3						
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite			

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
21	23	P385049	1	WALT	OH+H20 (1400nm)	1	1407	2		3						
					H20 (1900nm)	1	1908	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1	2258	2		3						
					Mg-OH (2350nm)	1	2337	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
23	24.2	P385051	0	WALT	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1	1910	2		3						
					Al-OH (2200nm)	1	2215	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:
Unable to interpret mineral from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
24.2	26	P385052	1	WALT	OH+H20 (1400nm)	1	1414	2		3					
					H20 (1900nm)	1	1911	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2249	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
Collection Comments:					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
Interp Comments:															
Doublet/Triplet Comments															
26	28	P385053	1	WALT	OH+H20 (1400nm)	1	1408	2		3					
					H20 (1900nm)	1	1911	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2359	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
Collection Comments:					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		
Interp Comments:															
Doublet/Triplet Comments															

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
28	30	P385054	1	bxcmt	OH+H20 (1400nm)	1	1428	2		3					
Collection Comments:					H20 (1900nm)	1	1917	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1	2249	2		3					
					Mg-OH (2350nm)	1		2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
30	32	P385055	2	WALT	OH+H20 (1400nm)	1	1414	2		3					
Collection Comments:					H20 (1900nm)	1	1911	2		3					
					Al-OH (2200nm)	1	2217	2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
32	33	P385056	1	WALT	OH+H20 (1400nm)	1	1428	2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
Collection Comments:					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
Interp Comments:															
Doublet/Triplet Comments															
33	34.38	P385057	2	WALT	OH+H20 (1400nm)	1	1404	2		3					
					H20 (1900nm)	1	1911	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
Collection Comments:					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
Interp Comments:															
Doublet/Triplet Comments															

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
34.38	36	P385058	1	WALT	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2251	2		3					
					Mg-OH (2350nm)	1	2334	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
36	38	P385059	0	WALT	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1957	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
38	40	P385061	2	vn	OH+H20 (1400nm)	1	1479	2		3	
					H20 (1900nm)	1	1914	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
40	42	P385062	2	WALT	OH+H20 (1400nm)	1	1476	2		3	
					H20 (1900nm)	1	1916	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2242	2		3	
					Mg-OH (2350nm)	1	2355	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
42	43.14	P385064	1	BxClast	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☑ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
43.14	45	P385065	0	WALT	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
45	47	P385066	1	WALT	OH+H20 (1400nm)	1	1412	2		3						
					H20 (1900nm)	1	1916	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1	2247	2		3						
					Mg-OH (2350nm)	1	2357	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
47	49	P385067	0	WALT	OH+H20 (1400nm)	1	1412	2		3						
					H20 (1900nm)	1	1916	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
49	51	P385068	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
51	53	P385069	1	WALT	OH+H20 (1400nm)	1	1477	2		3				
					H20 (1900nm)	1	1915	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2357	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
53	55	P385071	1	WALT	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
55	57	P385072	0	WALT	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1		2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
57	59	P385073	1	WALT	OH+H20 (1400nm)	1	1397	2		3	
					H20 (1900nm)	1	1916	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2256	2		3	
					Mg-OH (2350nm)	1	2330	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
59	61	P385074	1	WALT	OH+H20 (1400nm)	1	1477	2		3	
					H20 (1900nm)	1	1916	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2237	2	2294	3	
					Mg-OH (2350nm)	1	2358	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
61	63	P385075	1	WALT	OH+H20 (1400nm)	1	1478	2		3				
					H20 (1900nm)	1	1938	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2358	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
63	65	P385076	1	vn	OH+H20 (1400nm)	1	1478	2		3				
					H20 (1900nm)	1	1918	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2235	2	2290	3				
					Mg-OH (2350nm)	1	2358	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
65	67	P385077	1	WALT	OH+H20 (1400nm)	1	1409	2		3					
					H20 (1900nm)	1	1940	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2250	2		3					
					Mg-OH (2350nm)	1	2340	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
67	68.48	P385078	2	WALT	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2244	2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
68.48	70	P385079	1	WALT	OH+H20 (1400nm)	1	1410	2		3	
					H20 (1900nm)	1	1913	2		3	
					Al-OH (2200nm)	1	2209	2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2330	2		3	
					Other (nm)	1	1827	2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
70	71.17	P385081	0	WALT	OH+H20 (1400nm)	1	1412	2		3	
					H20 (1900nm)	1	1910	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2330	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
71.17	73	P385082	2	WALT	OH+H20 (1400nm)	1	1479	2		3	
					H20 (1900nm)	1	1914	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2236	2	2283	3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☑ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
73	75	P385083	1	vn	OH+H20 (1400nm)	1	1400	2		3	
					H20 (1900nm)	1	1913	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
75	77	P385084	0	WALT	OH+H20 (1400nm)	1	1409	2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
77	79	P385085	0	WALT	OH+H20 (1400nm)	1	1409	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
79	81	P385086	0	WALT	OH+H20 (1400nm)	1	1409	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
81	83	P385087	1	WALT	OH+H20 (1400nm)	1	1413	2	1477	3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
83	85	P385088	1	WALT	OH+H20 (1400nm)	1	1412	2	1478	3	
					H20 (1900nm)	1	1914	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2357	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
85	87	P385089	0	WALT	OH+H20 (1400nm)	1	1408	2		3	
					H20 (1900nm)	1	1914	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2245	2		3	
					Mg-OH (2350nm)	1	2330	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
87	89	P385092	1	WALT	OH+H20 (1400nm)	1	1397	2		3	
					H20 (1900nm)	1	1915	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2358	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
89	91	P385093	0	WALT	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1	1933	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
91	93	P385094	0	WALT	OH+H20 (1400nm)	1	1401	2		3					
					H20 (1900nm)	1	1905	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
93	95	P385095	1	WALT	OH+H20 (1400nm)	1	1402	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2330	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
95	97	P385096	1	WALT	OH+H20 (1400nm)	1	1479	2		3					
					H20 (1900nm)	1	1913	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		
97	99	P385097	1	WALT	OH+H20 (1400nm)	1	1476	2		3					
					H20 (1900nm)	1	1921	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2359	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
99	101	P385098	0	WALT	OH+H20 (1400nm)	1	1409	2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2343	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
101	102	P385099	0	WALT	OH+H20 (1400nm)	1	1403	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
102	103.35	P385101	2	WALT	OH+H20 (1400nm)	1	1475	2		3					
					H20 (1900nm)	1	1921	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					

Collection Comments: wet

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
103.35	105	P385102	1	WALT	OH+H20 (1400nm)	1	1400	2		3					
					H20 (1900nm)	1	1907	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2253	2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
105	107	P385103	1	vn	OH+H20 (1400nm)	1	1399	2		3	
					H20 (1900nm)	1	1915	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
107	109	P385104	1	WALT	OH+H20 (1400nm)	1	1412	2		3	
					H20 (1900nm)	1	1915	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2339	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
109	111	P385105	1	WALT	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2341	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
111	112.15	P385106	1	WALT	OH+H20 (1400nm)	1	1411	2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
112.15	114	P385107	1	WALT	OH+H20 (1400nm)	1	1413	2		3	
					H20 (1900nm)	1	1916	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2358	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
114	116	P385108	1	WALT	OH+H20 (1400nm)	1	1410	2		3	
					H20 (1900nm)	1	1957	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2357	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
116	118	P385109	1	WALT	OH+H20 (1400nm)	1	1478	2		3					
					H20 (1900nm)	1	1957	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
118	120	P385111	1	WALT	OH+H20 (1400nm)	1	1409	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2353	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
120	122	P385112	1	BxClast	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1941	2		3					
					Al-OH (2200nm)	1	2207	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
Collection Comments:															
Interp Comments:															
Doublet/Triplet Comments															
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
122	124	P385113	1	WALT	OH+H20 (1400nm)	1	1410	2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2256	2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					
Collection Comments:															
Interp Comments:															
Doublet/Triplet Comments															
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
124	126	P385114	1	WALT	OH+H20 (1400nm)	1	1411	2		3						
					H20 (1900nm)	1	1911	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1	2251	2		3						
					Mg-OH (2350nm)	1	2339	2		3						
					Other (nm)	1		2		3						
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite			
126	127.47	P385115	1	WALT	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1	1910	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2330	2		3						
					Other (nm)	1		2		3						
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite			

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
127.47	129	P385116	1	WALT	OH+H20 (1400nm)	1	1411	2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2245	2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					
Collection Comments:															
Interp Comments:															
Doublet/Triplet Comments															
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		
129	131	P385117	1	WALT	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2243	2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					
Collection Comments:															
Interp Comments:															
Doublet/Triplet Comments															
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
131	133	P385119	1	WALT	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2248	2		3					
					Mg-OH (2350nm)	1	2330	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
133	135	P385121	1	WALT	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2251	2		3					
					Mg-OH (2350nm)	1	2336	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
135	137	P385122	1	WALT	OH+H20 (1400nm)	1	1413	2		3						
					H20 (1900nm)	1	1915	2		3						
					Al-OH (2200nm)	1	2207	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						
					☑ Chlorite	☐ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite			
137	139	P385123	1	WALT	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1		2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite			

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
139	141	P385124	1	WALT	OH+H20 (1400nm)	1	1412	2		3						
					H20 (1900nm)	1	1911	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2337	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
141	142.6	P385125	1	WALT	OH+H20 (1400nm)	1	1413	2		3						
					H20 (1900nm)	1	1913	2		3						
					Al-OH (2200nm)	1	2208	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
142.6	144	P385126	1	WALT	OH+H20 (1400nm)	1	1410	2		3						
					H20 (1900nm)	1	1915	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1	2251	2		3						
					Mg-OH (2350nm)	1	2351	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
144	145	P385127		WALT	OH+H20 (1400nm)	1	1413	2		3						
					H20 (1900nm)	1	1913	2		3						
					Al-OH (2200nm)	1	2216	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2343	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
145	146.2	P385128	1	WALT	OH+H20 (1400nm)	1	1412	2		3	
					H20 (1900nm)	1	1913	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2252	2		3	
					Mg-OH (2350nm)	1	2358	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
146.2	148	P385129	1	WALT	OH+H20 (1400nm)	1	1413	2		3	
					H20 (1900nm)	1	1915	2		3	
					Al-OH (2200nm)	1	2209	2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
148	149.37	P385131	2	WALT	OH+H20 (1400nm)	1	1414	2		3						
					H20 (1900nm)	1	1911	2		3						
					Al-OH (2200nm)	1	2208	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
149.37	151	P385132	1	WALT	OH+H20 (1400nm)	1	1413	2		3						
					H20 (1900nm)	1	1911	2		3						
					Al-OH (2200nm)	1	2208	2		3						
					Fe-OH (2250nm)	1	2256	2		3						
					Mg-OH (2350nm)	1	2344	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
151	153	P385133	2	WALT	OH+H20 (1400nm)	1	1413	2		3						
					H20 (1900nm)	1	1912	2		3						
					Al-OH (2200nm)	1	2208	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
153	155	P385134	1	WALT	OH+H20 (1400nm)	1	1411	2		3						
					H20 (1900nm)	1	1909	2		3						
					Al-OH (2200nm)	1	2211	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2350	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
155	157	P385135	0	WALT	OH+H20 (1400nm)	1	1411	2		3						
					H20 (1900nm)	1	1908	2		3						
					Al-OH (2200nm)	1	2209	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
157	158	P385136	2	WALT	OH+H20 (1400nm)	1	1413	2		3						
					H20 (1900nm)	1	1911	2		3						
					Al-OH (2200nm)	1	2208	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
158	160	P385137	3	WALT	OH+H20 (1400nm)	1	1414	2		3						
					H20 (1900nm)	1	1908	2		3						
					Al-OH (2200nm)	1	2209	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
160	162	P385138	1	WALT	OH+H20 (1400nm)	1	1414	2		3						
					H20 (1900nm)	1	1908	2		3						
					Al-OH (2200nm)	1	2208	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:															
162	164	P385139	2	WALT	OH+H20 (1400nm)	1	1413	2		3										
Collection Comments:					H20 (1900nm)	1	1914	2		3										
					Al-OH (2200nm)	1	2208	2		3										
Interp Comments:					Fe-OH (2250nm)	1		2		3										
					Mg-OH (2350nm)	1	2336	2		3										
Doublet/Triplet Comments					Other (nm)	1		2		3										
					☐ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite							
164	166	P385141	1	WALT	OH+H20 (1400nm)	1	1413	2		3										
Collection Comments:					H20 (1900nm)	1	1909	2		3										
					Al-OH (2200nm)	1	2208	2		3										
Interp Comments:					Fe-OH (2250nm)	1	2248	2		3										
					Mg-OH (2350nm)	1		2		3										
Doublet/Triplet Comments					Other (nm)	1		2		3										
					☐ Chlorite	☑ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite							

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
166	168	P385142	1	WALT	OH+H20 (1400nm)	1	1413	2		3	
					H20 (1900nm)	1	1916	2		3	
					Al-OH (2200nm)	1	2207	2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
168	170	P385143	2	WALT	OH+H20 (1400nm)	1	1360	2	1398	3	
					H20 (1900nm)	1	1915	2		3	
					Al-OH (2200nm)	1	2208	2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: RG12-08

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
170	171.94	P385144	2	WALT	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1908	2		3					
					Al-OH (2200nm)	1	2209	2		3					
					Fe-OH (2250nm)	1	2253	2		3					
					Mg-OH (2350nm)	1	2347	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
171.94	174	P385145	2	WALT	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1907	2		3					
					Al-OH (2200nm)	1	2208	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
174	176	P385147	1	WALT	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1908	2		3					
					Al-OH (2200nm)	1	2208	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
176	178	P385148	0	WALT	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1903	2		3					
					Al-OH (2200nm)	1	2207	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
178	179.35	P385149	0	WALT	OH+H20 (1400nm)	1	1412	2		3						
					H20 (1900nm)	1	1908	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1	2243	2		3						
					Mg-OH (2350nm)	1	2343	2		3						
					Other (nm)	1		2		3						
Collection Comments:					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite			
Interp Comments:																
Doublet/Triplet Comments																
179.35	181	P385151	2	VN	OH+H20 (1400nm)	1	1413	2		3						
					H20 (1900nm)	1	1914	2		3						
					Al-OH (2200nm)	1	2208	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2339	2		3						
					Other (nm)	1		2		3						
Collection Comments:					☐ Chlorite	☑ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite			
Interp Comments:																
Doublet/Triplet Comments																

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
181	183	P385152	2	WALT	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1	2208	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
183	185	P385153	2	VN	OH+H20 (1400nm)	1	1414	2		3					
					H20 (1900nm)	1	1911	2		3					
					Al-OH (2200nm)	1	2208	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
185	187	P385154	2	BXCMT	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1933	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
187	189	P385155	2	WALT	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1908	2		3					
					Al-OH (2200nm)	1	2208	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
189	191	P385156	1	WALT	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1909	2		3					
					Al-OH (2200nm)	1	2208	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
191	193	P385157	3	Fault	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1	2208	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2347	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
193	195	P385158	2	WALT	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1	2208	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2339	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☑ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
195	196.33	P385159	2	VN	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1923	2		3					
					Al-OH (2200nm)	1	2208	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2330	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
196.33	198	P385161	2	WALT	OH+H20 (1400nm)	1	1413	2		3						
Collection Comments:					H20 (1900nm)	1	1909	2		3						
					Al-OH (2200nm)	1	2208	2		3						
Interp Comments:					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
Doublet/Triplet Comments					Other (nm)	1		2		3						
					☐ Chlorite	☑ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite			
198	200	P385162	2	WALT	OH+H20 (1400nm)	1	1413	2		3						
Collection Comments:					H20 (1900nm)	1	1908	2		3						
					Al-OH (2200nm)	1	2207	2		3						
Interp Comments:					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
Doublet/Triplet Comments					Other (nm)	1		2		3						
					☑ Chlorite	☑ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite			

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
200	202	P385163	2	WALT	OH+H20 (1400nm)	1	1414	2		3						
					H20 (1900nm)	1	1908	2		3						
					Al-OH (2200nm)	1	2208	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
202	204	P385164	0	WALT	OH+H20 (1400nm)	1	1411	2		3						
					H20 (1900nm)	1	1907	2		3						
					Al-OH (2200nm)	1	2207	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
204	206	P385165	2	WALT	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1911	2		3					
					Al-OH (2200nm)	1	2208	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
206	208	P385166	2	BxClast	OH+H20 (1400nm)	1	1414	2		3					
					H20 (1900nm)	1	1908	2		3					
					Al-OH (2200nm)	1	2208	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
208	209.85	P385167	3	VN	OH+H20 (1400nm)	1		2		3					
Collection Comments:					H20 (1900nm)	1	1933	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
Doublet/Triplet Comments					Other (nm)	1	1331	2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
209.85	210.57	P385168	2	Fault	OH+H20 (1400nm)	1	1413	2		3					
Collection Comments:					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1	2209	2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☐ Chlorite	☑ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
210.57	212	P385169	2	WALT	OH+H20 (1400nm)	1	1414	2		3					
					H20 (1900nm)	1	1908	2		3					
					Al-OH (2200nm)	1	2208	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
212	213	P385171	2	WALT	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1908	2		3					
					Al-OH (2200nm)	1	2207	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
213	214.23	P385172	1	WALT	OH+H20 (1400nm)	1	1413	2		3						
Collection Comments:					H20 (1900nm)	1	1908	2		3						
					Al-OH (2200nm)	1	2208	2		3						
Interp Comments:					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
Doublet/Triplet Comments					Other (nm)	1		2		3						
					☐ Chlorite	☑ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite			
214.23	216	P385173	0	WALT	OH+H20 (1400nm)	1	1412	2		3						
Collection Comments:					H20 (1900nm)	1	1909	2		3						
					Al-OH (2200nm)	1	2207	2		3						
Interp Comments:					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
Doublet/Triplet Comments					Other (nm)	1		2		3						
					☐ Chlorite	☑ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite			

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
216	218	P385175	1	WALT	OH+H20 (1400nm)	1	1409	2		3						
					H20 (1900nm)	1	1908	2		3						
					Al-OH (2200nm)	1	2207	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
218	220	P385176		WALT	OH+H20 (1400nm)	1	1411	2		3						
					H20 (1900nm)	1	1915	2		3						
					Al-OH (2200nm)	1	2207	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2357	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☑ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
220	222	P385177	2	WALT	OH+H20 (1400nm)	1	1413	2	1476	3				
					H20 (1900nm)	1	1910	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2358	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
222	224	P385178	1	WALT	OH+H20 (1400nm)	1	1409	2		3				
					H20 (1900nm)	1	1908	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2246	2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
224	226	P385179	2	WALT	OH+H20 (1400nm)	1	1411	2		3					
					H20 (1900nm)	1	1909	2		3					
					Al-OH (2200nm)	1	2214	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
226	228	P385181	1	WALT	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1908	2		3					
					Al-OH (2200nm)	1	2213	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2341	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
228	230	P385182	1	WALT	OH+H20 (1400nm)	1	1411	2		3						
					H20 (1900nm)	1	1909	2		3						
					Al-OH (2200nm)	1	2205	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2343	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
230	232	P385183	1	WALT	OH+H20 (1400nm)	1	1412	2		3						
					H20 (1900nm)	1	1908	2		3						
					Al-OH (2200nm)	1	2214	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2330	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:
Very Noisy

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
232	234	P385184	0	WALT	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
234	236	P385185	1	WALT	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1909	2		3					
					Al-OH (2200nm)	1	2214	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
236	238	P385186	1	WALT	OH+H20 (1400nm)	1	1413	2		3						
					H20 (1900nm)	1	1909	2		3						
					Al-OH (2200nm)	1	2210	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
238	239.83	P385187	1	WALT	OH+H20 (1400nm)	1	1413	2		3						
					H20 (1900nm)	1	1908	2		3						
					Al-OH (2200nm)	1	2213	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
239.83	241	P385188	0	WALT	OH+H20 (1400nm)	1	1413	2		3						
					H20 (1900nm)	1	1911	2		3						
					Al-OH (2200nm)	1	2208	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
241	243	P385189	1	WALT	OH+H20 (1400nm)	1	1413	2		3						
					H20 (1900nm)	1	1910	2		3						
					Al-OH (2200nm)	1	2208	2		3						
					Fe-OH (2250nm)	1	2252	2		3						
					Mg-OH (2350nm)	1	2357	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☑ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
243	245	P385191	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1907	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Very Noisy

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
245	247	P385192	2	VN	OH+H20 (1400nm)	1	1413	2		3				
					H20 (1900nm)	1	1909	2		3				
					Al-OH (2200nm)	1	2213	2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
247	248.4	P385193	1	WALT	OH+H20 (1400nm)	1	1411	2		3						
					H20 (1900nm)	1	1911	2		3						
					Al-OH (2200nm)	1	2206	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2357	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
248.4	250	P385194	1	WALT	OH+H20 (1400nm)	1	1412	2		3						
					H20 (1900nm)	1	1909	2		3						
					Al-OH (2200nm)	1	2214	2		3						
					Fe-OH (2250nm)	1	2243	2		3						
					Mg-OH (2350nm)	1	2348	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
250	252	P385195	2	WALT	OH+H20 (1400nm)	1	1410	2		3						
					H20 (1900nm)	1	1914	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1	2248	2		3						
					Mg-OH (2350nm)	1	2342	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
252	254	P385196	2	WALT	OH+H20 (1400nm)	1	1413	2		3						
					H20 (1900nm)	1	1915	2		3						
					Al-OH (2200nm)	1	2209	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2341	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
254	256	P385197	1	VN	OH+H20 (1400nm)	1	1422	2		3					
					H20 (1900nm)	1	1911	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
256	257.74	P385198	1	WALT	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1	2214	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
257.74	259	P385199	1	WALT	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1	2213	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2343	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
259	261	P385201	0	WALT	OH+H20 (1400nm)	1	1410	2		3					
					H20 (1900nm)	1	1908	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
261	263	P385203	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1909	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	
263	265	P385204	1	WALT	OH+H20 (1400nm)	1	1412	2		3				
					H20 (1900nm)	1	1911	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2356	2		3				
					Other (nm)	1		2		3				
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
265	267	P385205	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1912	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
267	269	P385206	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
269	271	P385207	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
271	273	P385208	1	WALT	OH+H20 (1400nm)	1	1412	2		3				
					H20 (1900nm)	1	1907	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: RG12-08

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
273	275	P385209	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
275	276.32	P385211	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1915	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
276.32	278	P385212	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
278	280	P385213	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:
280	282	P385214	0	WALT	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

	1	2	3
OH+H20 (1400nm)			
H20 (1900nm)			
Al-OH (2200nm)			
Fe-OH (2250nm)			
Mg-OH (2350nm)			
Other (nm)			

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:
282	284	P385215	0	WALT	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

	1	2	3
OH+H20 (1400nm)			
H20 (1900nm)			
Al-OH (2200nm)			
Fe-OH (2250nm)			
Mg-OH (2350nm)			
Other (nm)			

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
284	286	P385216	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
286	288	P385217	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
288	289.76	P385218	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
289.76	291.8	P385219	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1924	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
291.8	293	P385221	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
293	295	P385222	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:
295	297	P385223	0	WALT	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

OH+H20 (1400nm)	1	2	3	
H20 (1900nm)	1	2	3	
Al-OH (2200nm)	1	2	3	
Fe-OH (2250nm)	1	2	3	
Mg-OH (2350nm)	1	2	3	
Other (nm)	1	2	3	

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:
297	299	P385224	0	WALT	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

OH+H20 (1400nm)	1	2	3	
H20 (1900nm)	1	2	3	
Al-OH (2200nm)	1	2	3	
Fe-OH (2250nm)	1	2	3	
Mg-OH (2350nm)	1	2	3	
Other (nm)	1	2	3	

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
299	301	P385225	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
301	302	P385226	0	WALT	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-08**

From (m)	To (m)	Sample	Spectra Quality	Sample Material
302	303.28	P385227	1	vn

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Features:

OH+H20 (1400nm)	1	1421	2		3	
H20 (1900nm)	1	1915	2		3	
Al-OH (2200nm)	1		2		3	
Fe-OH (2250nm)	1		2		3	
Mg-OH (2350nm)	1		2		3	
Other (nm)	1		2		3	

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

GeoSpark Logger Print Logs ~ DH Samples

DataSet: RG_GF

Hole ID: RG12-08

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
5.79	7	P385038	HC	JV	☐	
7	9	P385039	HC	JV	☐	
9	11	P385041	HC	JV	☐	
11	12	P385042	HC	JV	☐	
12	13.92	P385043	HC	JV	☐	
13.92	15	P385044	HC	JV	☐	
15	17	P385045	HC	JV	☐	
17	18	P385046	HC	JV	☐	
18	19.82	P385047	HC	JV	☐	
19.82	21	P385048	HC	JV	☑	
21	23	P385049	HC	JV	☐	
23	24.2	P385051	HC	JV	☐	
24.2	26	P385052	HC	JV	☐	
26	28	P385053	HC	JV	☐	
28	30	P385054	HC	JV	☐	
30	32	P385055	HC	JV	☐	
32	33	P385056	HC	JV	☐	
33	34.38	P385057	HC	JV	☐	
34.38	36	P385058	HC	JV	☐	
36	38	P385059	HC	JV	☐	
38	40	P385061	HC	JV	☑	
40	42	P385062	HC	JV	☑	
42	43.14	P385064	HC	JV	☑	
43.14	45	P385065	HC	JV	☑	
45	47	P385066	HC	JV	☐	
47	49	P385067	HC	JV	☐	
49	51	P385068	HC	JV	☐	
51	53	P385069	HC	JV	☐	
53	55	P385071	HC	JV	☐	
55	57	P385072	HC	JV	☐	
57	59	P385073	HC	JV	☐	
59	61	P385074	HC	JV	☐	
61	63	P385075	HC	JV	☐	
63	65	P385076	HC	JV	☐	
65	67	P385077	HC	JV	☐	
67	68.48	P385078	HC	JV	☐	
68.48	70	P385079	HC	JV	☑	

GeoSpark Logger Print Logs ~ DH Samples

Hole ID: **RG12-08**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
70	71.17	P385081	HC	JV	☐	
71.17	73	P385082	HC	JV	☑	
73	75	P385083	HC	JV	☐	
75	77	P385084	HC	JV	☐	
77	79	P385085	HC	JV	☐	
79	81	P385086	HC	JV	☐	
81	83	P385087	HC	JV	☐	
83	85	P385088	HC	JV	☑	
85	87	P385089	HC	JV	☑	
87	89	P385092	HC	JV	☐	
89	91	P385093	HC	JV	☐	
91	93	P385094	HC	JV	☐	
93	95	P385095	HC	JV	☐	
95	97	P385096	HC	JV	☐	
97	99	P385097	HC	JV	☑	
99	101	P385098	HC	JV	☐	
101	102	P385099	HC	JV	☐	
102	103.35	P385101	HC	JV	☐	
103.35	105	P385102	HC	JV	☐	
105	107	P385103	HC	JV	☐	
107	109	P385104	HC	JV	☐	
109	111	P385105	HC	JV	☐	
111	112.15	P385106	HC	JV	☐	
112.15	114	P385107	HC	JV	☐	
114	116	P385108	HC	JV	☐	
116	118	P385109	HC	JV	☐	
118	120	P385111	HC	JV	☐	
120	122	P385112	HC	JV	☐	
122	124	P385113	HC	JV	☐	
124	126	P385114	HC	JV	☑	
126	127.47	P385115	HC	JV	☑	
127.47	129	P385116	HC	JV	☐	
129	131	P385117	HC	JV	☑	
131	133	P385119	HC	JV	☐	
133	135	P385121	HC	JV	☐	
135	137	P385122	HC	JV	☐	
137	139	P385123	HC	JV	☐	
139	141	P385124	HC	JV	☐	
141	142.6	P385125	HC	JV	☐	

GeoSpark Logger Print Logs ~ DH Samples

Hole ID: **RG12-08**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
142.6	144	P385126	HC	JV	☐	
144	145	P385127	HC	JV	☐	
145	146.2	P385128	HC	JV	☐	
146.2	148	P385129	HC	JV	☐	
148	149.37	P385131	HC	JV	☐	
149.37	151	P385132	HC	JV	☑	
151	153	P385133	HC	JV	☐	
153	155	P385134	HC	JV	☐	
155	157	P385135	HC	JV	☐	
157	158	P385136	HC	JV	☐	
158	160	P385137	HC	JV	☐	
160	162	P385138	HC	JV	☐	
162	164	P385139	HC	JV	☑	
164	166	P385141	HC	JV	☑	
166	168	P385142	HC	JV	☐	
168	170	P385143	HC	JV	☐	
170	171.94	P385144	HC	JV	☐	
171.94	174	P385145	HC	JV	☑	
174	176	P385147	HC	JV	☐	
176	178	P385148	HC	JV	☑	
178	179.35	P385149	HC	JV	☐	
179.35	181	P385151	HC	JV	☐	
181	183	P385152	HC	JV	☐	
183	185	P385153	HC	JV	☐	
185	187	P385154	HC	JV	☐	
187	189	P385155	HC	JV	☐	
189	191	P385156	HC	JV	☐	
191	193	P385157	HC	JV	☐	
193	195	P385158	HC	JV	☐	
195	196.33	P385159	HC	JV	☐	
196.33	198	P385161	HC	JV	☐	
198	200	P385162	HC	JV	☐	
200	202	P385163	HC	JV	☐	
202	204	P385164	HC	JV	☑	
204	206	P385165	HC	JV	☑	
206	208	P385166	HC	JV	☐	
208	209.85	P385167	HC	JV	☐	
209.85	210.57	P385168	HC	JV	☑	
210.57	212	P385169	HC	JV	☐	

GeoSpark Logger Print Logs ~ DH Samples

Hole ID: **RG12-08**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
212	213	P385171	HC	JV	☐	
213	214.23	P385172	HC	JV	☐	
214.23	216	P385173	HC	JV	☑	
216	218	P385175	HC	JV	☐	
218	220	P385176	HC	JV	☐	
220	222	P385177	HC	JV	☐	
222	224	P385178	HC	JV	☐	
224	226	P385179	HC	JV	☐	
226	228	P385181	HC	JV	☐	
228	230	P385182	HC	JV	☑	
230	232	P385183	HC	JV	☐	
232	234	P385184	HC	JV	☐	
234	236	P385185	HC	JV	☐	
236	238	P385186	HC	JV	☐	
238	239.83	P385187	HC	JV	☐	
239.83	241	P385188	HC	JV	☐	
241	243	P385189	HC	JV	☑	
243	245	P385191	HC	JV	☑	
245	247	P385192	HC	JV	☐	
247	248.4	P385193	HC	JV	☐	
248.4	250	P385194	HC	JV	☐	
250	252	P385195	HC	JV	☐	
252	254	P385196	HC	JV	☐	
254	256	P385197	HC	JV	☐	
256	257.74	P385198	HC	JV	☐	
257.74	259	P385199	HC	BG	☐	
259	261	P385201	HC	BG	☑	
261	263	P385203	HC	BG	☑	
263	265	P385204	HC	BG	☐	
265	267	P385205	HC	BG	☐	
267	269	P385206	HC	BG	☐	
269	271	P385207	HC	BG	☐	
271	273	P385208	HC	BG	☐	
273	275	P385209	HC	BG	☐	
275	276.32	P385211	HC	BG	☐	
276.32	278	P385212	HC	BG	☐	
278	280	P385213	HC	BG	☐	
280	282	P385214	HC	BG	☑	
282	284	P385215	HC	BG	☑	

GeoSpark Logger Print Logs ~ DH Samples

Hole ID: **RG12-08**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
284	286	P385216	HC	BG	☐	
286	288	P385217	HC	BG	☐	
288	289.76	P385218	HC	BG	☐	
289.76	291.8	P385219	HC	BG	☐	
291.8	293	P385221	HC	BG	☑	
293	295	P385222	HC	BG	☐	
295	297	P385223	HC	BG	☐	
297	299	P385224	HC	BG	☐	
299	301	P385225	HC	BG	☐	
301	302	P385226	HC	BG	☐	
302	303.28	P385227	HC	BG	☐	EOH

GeoSpark Logger Print Logs ~ Duplicate Samples

DataSet: RG_GF

Hole ID: RG12-08

From (m)	To (m)	Sample ID	Original Sample ID	QC Category	Comments
19.82	21	Ch:P385048	P385048	LABCHCK	
38	40	Ch:P385061	P385061	LABCHCK	
40	42	P385063	P385062	FD	
42	43.14	P385064_PD	P385064	PD	
43.14	45	P385065_CD	P385065	CD	
68.48	70	Ch:P385079	P385079	LABCHCK	
71.17	73	Ch:P385082	P385082	LABCHCK	
83	85	P385088_PD	P385088	PD	
85	87	P385091	P385089	FD	
85	87	P385089_CD	P385089	CD	
97	99	Ch:P385097	P385097	LABCHCK	
124	126	P385114_PD	P385114	PD	
126	127.47	P385115_CD	P385115	CD	
126	127.47	Ch:P385115	P385115	LABCHCK	
129	131	P385118	P385117	FD	
149.37	151	Ch:P385132	P385132	LABCHCK	
162	164	P385139_PD	P385139	PD	
164	166	P385141_CD	P385141	CD	
171.94	174	P385146	P385145	FD	
176	178	Ch:P385148	P385148	LABCHCK	
202	204	P385164_PD	P385164	PD	
204	206	P385165_CD	P385165	CD	
209.85	210.57	Ch:P385168	P385168	LABCHCK	
214.23	216	P385174	P385173	FD	
228	230	Ch:P385182	P385182	LABCHCK	
241	243	P385189_PD	P385189	PD	
243	245	P385191_CD	P385191	CD	
259	261	P385202	P385201	FD	EOH
261	263	Ch:P385203	P385203	LABCHCK	
280	282	P385214_PD	P385214	PD	
282	284	Ch:P385215	P385215	LABCHCK	
282	284	P385215_CD	P385215	CD	
291.8	293	Ch:P385221	P385221	LABCHCK	

GeoSpark Logger Print Logs ~ Standards / Blanks

DataSet: RG_GF

Hole ID: RG12-08

Sample ID	Standard ID	Comments
P385040	WJN-STD1	
P385050	FB	
P385060	WJN-STD2	
P385070	FB	
P385080	WJN-STD1	
P385090	FB	
P385100	WJN-STD2	
P385110	FB	
P385120	WJN-STD1	
P385130	FB	
P385140	WJN-STD2	
P385150	FB	
P385160	WJN-STD1	
P385170	FB	
P385180	WJN-STD2	
P385190	FB	
P385200	WJN-STD1	
P385210	FB	
P385220	WJN-STD2	EOH

GeoSpark Logger Print Logs ~ Collars

DataSet: RG_GF

Depth (m)	Hole Type	Core Diamete	Grid ID	East	North	Elevation	Survey Method	Survey Date	Survey By	Date Started	Date Completed	Logged By	Prospect	Validated By
Hole: RG12-09														
291.08 m	DD	NQ	UTM10N_NAD83	604603.3035	5813544.70	963.725	DGPS	24/11/2012	SL	11/11/2012	15/11/2012	JV	East Zone	

GeoSpark Logger Print Logs ~ DH Surveys

DataSet: RG_GF

Hole ID: RG12-09

Depth (m)	Survey Method	Grid ID	Dip	Orig Azimuth	Surv. Tool Azimuth	Magnetic Declination	Corrected Azimuth	Magnetics	Date Surveyed	Survey Instrument	Bad Reading	Comments
0	COLL	UTM10N_NAD83	-55	115			115		17/11/2012	CMP	☐	
25.91	EZ Shot	UTM10N_NAD83	-54.3	115	100.5	18	118.5		17/11/2012	EZ	☐	
86.87	EZ Shot	UTM10N_NAD83	-52.8	115	98.8	18	116.8		17/11/2012	EZ	☐	
147.83	EZ Shot	UTM10N_NAD83	-52.7	115	101.4	18	119.4		17/11/2012	EZ	☐	
208.79	EZ Shot	UTM10N_NAD83	-52.4	115	100.8	18	118.8		17/11/2012	EZ	☐	

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-09

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	0	9.14	Overburden	Overburden (OB)	

Alteration:	From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments

Minerals:	From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments

Veining:	From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:	From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	9.14	21.81	Porphyritic Andesite	Fine plag-phyric andesite polymictic breccia (IFAN)	Weathered medium grey-brown polymictic plagioclase andesite breccia, strong fracturing and common rubble intervals. Discrete syenite.

Alteration:	From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
	9.14	21.81	Pot	Primary	M	Lim/Goe	OvPrnt	W							Pervasive weak to moderate magnetism, local k-feldspar-hematite alteration envelopes. Weak to moderate goethite-chlorite overprint, hematite on fractures.

Minerals:	From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
	9.14	21.81	Py	0.5	VEN										Finely disseminated pyrite, locally in veins also.

Veining:	From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
	9.14	21.81	Vcarb	±clays											Veining is weak; dominantly carbonate-clay stringers.

Structure:	From (m)	To (m)	Type	Intensity	CA Angle
	9.14	21.81	RUB	S	

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	21.81	76.21	Porphyritic Andesite	Fine plag-phyric andesite polymictic breccia (IFAN)	Medium-dark grey polymictic andesite breccia, weak fracturing. Mottled alteration and breccia texture.

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-09

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
21.81	76.21	Pot	Primary	M	Propy	OvPrnt	W							Pervasive weak to moderate magnetism, local k-feldspar-hematite alteration envelopes. Weak pervasive chlorite overprint, rare patchy epidote alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
21.81	76.21	Py	0.5	DIS										Finely disseminated pyrite, locally in later carbonate-calcite veins.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
21.81	76.21	Vcarb	n/a	1										Veining is weak to moderate; dominantly carbonate-calcite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	76.21	77.85	Andesitic Sandstone	Volcanic sandstone (< 2mm) (VANSS)	Dark grey, fine grained, massive volcanic sandstone. Moderate potassic alteration. Moderate propylitic alteration. Weakly to moderately magnetic. No visible chalcopyrite mineralization.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
76.21	77.85	Pot	Primary	M	Propy	OvPrnt	M							Moderate pervasive potassic alteration with magnetite. Moderate pervasive propylitic overprint with pervasive chlorite and veined carbonate.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
76.21	77.85	UnMin	0											No visible sulphides.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
76.21	77.85	Vcarb	±chl	0.2										wispy Carbonate-chlorite veins

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	77.85	131.5	Andesitic Autoclastic Breccia	Coarse pyroxene-phyric andesite (VANAB)	Cobble sized clasts w subh px phenos 2-5mm. Interst chl, plag and feldspar. Sel ints w 10% diss py. Disc ints of mod to str mag. Mod pot alt. Str to int propyl alt. Cpy found in agg near lower contact.

DataSet: RG_GF

Hole ID: RG12-09

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
77.85	131.5	Propy	OvPrnt	S	Pot	Primary	M	Hem	OvPrnt	W				Str to int propy alt with diss chl and carb. Select ints with int patchy ep, some px phenos chl alt (~25%). Mod patchy pot alt with loc kspar flooding and vein env. Wk frac controlled hem alt.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
77.85	131.5	Py	2	DIS	Cpy	0.1	DIS							Small (1mm) agg cpy near lower contact of unit. Py dis throughout, some ints with up to 10% py locally. Cpy 0.1%, Py 2%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
77.85	131.5	Vcarb	n/a	1	Vep	±chl	0.2							Carbonate veining common. Epidote-chlorite veining. Clay veining (illite-smectite).

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	131.5	152.39	Andesitic Autoclastic Breccia	Coarse pyroxene-phyric andesite (VANAB)	Chl, xstal rich matrix. Px phens up to 5mm. Clasts are cobble sized and are of the same comp as matrix. Pot alt inc. Str propy alt.Mag rep px clasts. Mass mag in agg throughout, some with cpy. Ints (0.2m), have sheared txt w str hem alt.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
131.5	152.39	Pot	Primary	S	Propy	OvPrnt	S	Hem	OvPrnt	M				Strong potassic alteration with pervasive and massive magnetite, k feldspar and biotite. Strong patchy propylitic alteration with chloritized matrix and clasts, patchy epidote and carbonate veining. Selective fracture controlled hematite alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
131.5	152.39	Cpy	0.5	AGG	Py	1	DIS							Cpy found within syen and mass mag in agg. Also found diss in sel ints. Py diss and agg throughout. Cpy 0.5%, Py 1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
131.5	159.39	Vcarb	±chl	1	Vhem		0.5							Carbonate veins. Hematite veins. Chlorite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
142.97	143	FLTG	M	65

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-09

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	152.39	198.65	Andesitic Autoclastic Breccia	Coarse pyroxene-phyric andesite (VANAB)	Matrix is highly chl, comp of plag, px and chl. Clasts same comp (2-5cm). Subh px phenos 2-5mm. Pat ep ovrprt, up to 10% in some areas. Wkly to mod mag. Sel ints contain pat kspar flooding.Cpy wkly dis in sel areas and in rare qtz veins.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
152.39	198.65	Propy	OvPrnt	S	Pot	Primary	M							Strong propylitic alteration with chlorite-rich matrix, chlorite replacing pyroxenes (~30%) and intense patchy epidote. Moderate potassic alteration with magnetite, k feldspar flooding.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
152.39	198.65	Cpy	0.1	DIS	Py	0.25	DIS							Chalcopyrite weakly disseminated, as well as found within syenite fingers and single quartz vein. Pyrite disseminated. Chalcopyrite 0.1%, Pyrite 0.25%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
159.39	198.65	VQtz	±cpy	0.1	Vcarb	±kspar	1							Rare quartz veins (less than 1/m), one of which contains chalcopyrite. Common carbonate veining ± k feldspar haloes.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	198.65	218.84	Andesitic Autoclastic Breccia	Coarse pyroxene-phyric andesite (VANAB)	Matrix is highly chl, comp of plag, px and chl. Clasts same comp as matrix, averaging 2-5cm. Subh px phenos throughout 2-5mm in size. Mag veining throughout (less than 1%). Chalcopyrite weakly disseminated.

DataSet: RG_GF

Hole ID: RG12-09

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
198.65	218.84	Pot	Primary	S	Propy	OvPrnt	M	Hem	OvPrnt	W				Strong pervasive potassic alteration with k feldspar, magnetite. Moderate propylitic overprint with pervasive chlorite. Weak selective fracture controlled hematite alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
198.65	218.84	Cpy	0.1	DIS	Py	0.25	DIS							Chalcopyrite within select magnetite veins, weakly disseminated. Pyrite disseminated. Chalcopyrite 0.1%, Pyrite 0.25%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
198.65	218.84	Vmag	±cpy±qtz	0.1										Carbonate ± epidote ± chlorite veining. Magnetite ± quartz ± chalcopyrite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	218.84	270.5	Andesitic Autoclastic Breccia	Coarse pyroxene-phyric andesite (VANAB)	Matrix is highly chl, plag, px and chl. Clasts of the same comp as matrix,2-5cm. Sub px phenos 2-5mm in size. Mag repl px phenos (up to 30%). Mag veining. Strgly mag throughout.Cpy is dis, found in rare veins with mag.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
218.84	270.5	Pot	Primary	S	Propy	OvPrnt	M	Hem	OvPrnt	W				Strong potassic alteration with pervasive and veined magnetite, k feldspar vein haloes. Moderate to strong pervasive propylitic alteration with carbonate, chlorite and patchy epidote. Weak fracture controlled hematite alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
218.84	270.5	Cpy	0.25	DIS	Py	0.5	DIS							Chalcopyrite veined (rare), found in aggregates and disseminated. Pyrite disseminated and along fracture surfaces. Chalcopyrite 0.25%, Pyrite 0.5%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
218.84	270.5	Vmag	±cpy	0.2										Two chalcopyrite-magnetite veins. Magnetite veining. Carbonate-chlorite veining. Rare epidote veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-09

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	270.5	276.79	Andesitic Sandstone	Volcanic sandstone (< 2mm) (VANSS)	Start of interval is fg, carb rich fltg with frags of volsst within (2-5cm). Disc ints w int chl alt, changing color from gry-blk to dark olive green. Mod magnetic. No visible sulphide mineralization.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
270.5	276.79	Pot	Primary	M	Propy	OvPrnt	VS							Moderate potassic alteration with magnetite. Strong to intense propylitic overprint with chlorite and carbonate.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
270.5	276.79	UnMin	0											No visible sulphides.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
270.5	276.79	Vcarb	n/a	2										Wispy carbonate veins throughout (up to 3% in some areas.) Rare epidote veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
270.7	272.4	RUB	S	

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	276.79	291.08	Andesitic Autoclastic Breccia	Coarse pyroxene-phyric andesite (VANAB)	Matrix is highly chl, comp of plag, px and chl. Clasts same comp as matrix, 2-5cm. Sub px phens 2-5mm in size. Mag repl some px(~10%).Mod mag throughout.Incr in carb veining.Aggs of cpy near upper cont, the rest of the int has no visible cpy min.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
276.79	291.08	Pot	Primary	S	Propy	OvPrnt	S							Strong pervasive potassic alteration with magnetite and rare k feldspar. Strong pervasive propylitic overprint with chlorite, epidote and carbonate.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
276.79	291.08	Cpy	0.1	VEN	Py	0.25	DIS							Chalcopyrite in aggregates and single vein near upper contact. Pyrite disseminated. Chalcopyrite 0.1%, Pyrite 0.25%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
276.79	291.08	Vcpy	n/a	0.1	Vcarb		2							Common wispy and stockwork carbonate veining. Rare magnetite veins. Single chalcopyrite vein near upper contact. Carbonate-chlorite-epidote veining.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

DataSet: RG_GF

Hole ID: RG12-09

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	Comments
9.14	10.67	1.53	0.7	45.75	
10.67	11.89	1.22	0.45	36.89	
11.89	12.8	0.91	0.28	30.77	
12.8	13.72	0.92	0.8	86.96	
13.72	15.24	1.52	1.13	74.34	
15.24	16.76	1.52	1.3	85.53	
16.76	19.81	3.05	2.77	90.82	
19.81	22.86	3.05	2.91	95.41	
22.86	25.91	3.05	2.92	95.74	
25.91	28.96	3.05	3.02	99.02	
28.96	32	3.04	3.06	100.66	
32	35.05	3.05	3.01	98.69	
35.05	38.1	3.05	3.04	99.67	
38.1	41.15	3.05	2.93	96.07	
41.15	44.2	3.05	2.94	96.39	
44.2	47.24	3.04	2.99	98.36	
47.24	50.29	3.05	3.05	100	
50.29	53.34	3.05	3.03	99.34	
53.34	56.39	3.05	2.98	97.7	
56.39	59.44	3.05	2.99	98.03	
59.44	62.48	3.04	3	98.68	
62.48	65.53	3.05	3.06	100.33	
65.53	68.58	3.05	2.97	97.38	
68.58	71.63	3.05	3.07	100.66	
71.63	74.68	3.05	2.98	97.7	
74.68	77.72	3.04	2.96	97.37	
77.72	80.77	3.05	3.04	99.67	
80.77	83.82	3.05	2.93	96.07	
83.82	86.87	3.05	2.98	97.7	
86.87	89.92	3.05	3.01	98.69	
89.92	92.96	3.04	3.01	99.01	
92.96	96.01	3.05	2.97	97.38	
96.01	99.06	3.05	3.03	99.34	
99.06	102.11	3.05	2.99	98.03	
102.11	105.16	3.05	2.89	94.75	
105.16	108.2	3.04	2.99	98.36	
108.2	111.25	3.05	2.92	95.74	
111.25	114.3	3.05	3.04	99.67	
114.3	117.35	3.05	2.92	95.74	
117.35	120.4	3.05	3.01	98.69	
120.4	123.44	3.04	2.95	97.04	
123.44	126.49	3.05	3.04	99.67	
126.49	129.54	3.05	2.87	94.1	
129.54	132.59	3.05	2.94	96.39	
132.59	135.64	3.05	2.97	97.38	
135.64	138.68	3.04	2.77	91.12	
138.68	140.82	2.14	1.52	71.03	
140.82	141.73	0.91	0.88	96.7	
141.73	143.56	1.83	0.86	46.99	
143.56	146.61	3.05	2.88	94.43	
146.61	147.83	1.22	1.26	103.28	
147.83	150.88	3.05	2.96	97.05	
150.88	153.92	3.04	2.81	92.43	
153.92	155.45	1.53	0.83	54.25	
155.45	156.97	1.52	1.44	94.74	
156.97	160.02	3.05	2.89	94.75	
160.02	163.07	3.05	2.97	97.38	
163.07	166.12	3.05	3.01	98.69	
166.12	169.16	3.04	2.94	96.71	

Hole ID: **RG12-09**

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	Comments
169.16	172.21	3.05	2.98	97.7	
172.21	175.26	3.05	3.05	100	
175.26	178.31	3.05	3.02	99.02	
178.31	181.36	3.05	2.73	89.51	
181.36	184.4	3.04	3.04	100	
184.4	187.45	3.05	2.9	95.08	
187.45	189.28	1.83	1.52	83.06	
189.28	190.5	1.22	1.2	98.36	
190.5	193.55	3.05	2.93	96.07	
193.55	196.6	3.05	1.91	62.62	
196.6	199.64	3.04	2.92	96.05	
199.64	202.69	3.05	2.95	96.72	
202.69	205.74	3.05	2.94	96.39	
205.74	208.79	3.05	3	98.36	
208.79	211.84	3.05	2.98	97.7	
211.84	214.88	3.04	2.93	96.38	
214.88	217.93	3.05	3.04	99.67	
217.93	220.98	3.05	3	98.36	
220.98	224.03	3.05	3	98.36	
224.03	227.08	3.05	2.97	97.38	
227.08	230.12	3.04	2.97	97.7	
230.12	233.17	3.05	2.95	96.72	
233.17	236.22	3.05	2.97	97.38	
236.22	239.27	3.05	3.05	100	
239.27	242.32	3.05	2.98	97.7	
242.32	245.36	3.04	2.94	96.71	
245.36	248.41	3.05	3.04	99.67	
248.41	251.46	3.05	2.97	97.38	
251.46	254.51	3.05	2.99	98.03	
254.51	257.56	3.05	2.97	97.38	
257.56	260.6	3.04	3	98.68	
260.6	263.65	3.05	2.96	97.05	
263.65	266.7	3.05	3.08	100.98	
266.7	269.75	3.05	3.02	99.02	
269.75	272.8	3.05	2.55	83.61	
272.8	273.71	0.91	0.7	76.92	
273.71	276.76	3.05	2.88	94.43	
276.76	278.89	2.13	2.11	99.06	
278.89	281.94	3.05	2.88	94.43	
281.94	284.99	3.05	2.92	95.74	
284.99	288.04	3.05	2.99	98.03	
288.04	291.08	3.04	2.96	97.37	EOH

GeoSpark Logger Print Logs ~ Geotech Domains

DataSet: RG_GF

Hole ID: RG12-09

From (m)	To (m)	Interval Length	Natural Break Count	RQD (m)	RQD %	Domain Type	Rock Strength	Discont. Type 1	Discont. CA	Rough	Infill Type	Infill Thicknes	Discont. Type 2	Discont. CA	Rough	Infill Type	Infill Thicknes	Comments
9.14	21.81	12.67	253	1.77	13.97	LithChg	MS	dis	40	smp	sof	t<1	vei	55	smp	mode	t<1	
21.81	53	31.19	149	18.75	60.12	AltStrucChg	MS	vei	40	rap	non	t<1	dis	45	smu	sof	t<5	
53	76.21	23.21	98	4.13	17.79	MaxDomain	MS	vei	60	smd	non	t<5	vei	65	rad	non	t>5	
76.21	77.85	1.64	3	1.43	87.2	LithChg	S	dis	60	smp	sli	t<1						
77.85	102.19	24.34	93	14.63	60.11	LithChg	MS	vei	55	smp	non	t<1	vei	40	smu	sof	t>5	
102.19	131.5	29.31	123	17.28	58.96	LithAltChg	S	vei	55	smu	sli	t<1	vei	30	smu	sof	t>5	
131.5	143	11.5	73	4.5	39.13	LithChg	MS	vei	50	smu	non	t<1	dis	70	smp	sof	t<5	
143	152.39	9.39	56	4.62	49.2	MinChg	S	vei	50	rad	non	t<1						
152.39	198.65	46.26	403	33.49	72.4	AltChg	MS	vei	20	smp	non	t<1	dis	40	rau	sof	t>5	
198.65	218.84	20.19	81	13.84	68.55	AltChg	MS	vei	10	smu	non	t<5	vei	65	smu	sli	t<1	
218.84	270.5	51.66	371	40.56	78.51	MinAlt	S	vei	30	smu	non	t<1	vei	0	smu	sli	t<1	
270.5	276.79	6.29	377	1.28	20.35	LithStruChg	S	dis	55	gpu	sof	nwc	vei	15	smp	mode	t<1	
276.79	279.9	3.11	30	1.98	63.67	LithChg	MS	vei	15	smu	sli	t<1						
279.9	291.08	11.18	110	6.47	57.87	MinChg	MS	vei	25	smu	non	t<1						EOH

GeoSpark Logger Print Logs ~ Mag Susceptibility

DataSet: RG_GF

Hole ID: RG12-09

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
9.14	11	1.86	5.9	3.91	3.99	4.6		BG	14/11/2012	
11	13	2	5.07	7.64	4.71	5.807		BG	14/11/2012	
13	15	2	0.96	0.25	0.59	0.6		BG	14/11/2012	
15	17	2	0.79	17.01	1.24	6.347		BG	14/11/2012	
17	19	2	30.12	8.55	19.74	19.47		BG	14/11/2012	
19	20	1	9.18	5.26	7.57	7.337		BG	14/11/2012	
20	21.81	1.81	25.23	13.26	0.71	13.067		BG	14/11/2012	
21.81	23	1.19	66.37	26.19	42.82	45.127		BG	14/11/2012	
23	25	2	61.02	69.15	37.76	55.977		BG	14/11/2012	
25	27	2	41.37	21.52	37.02	33.303		BG	14/11/2012	
27	29	2	43.44	31.24	22.47	32.383		BG	14/11/2012	
29	31	2	5.28	20.2	21.14	15.54		BG	14/11/2012	
31	33	2	57.46	7.13	2.71	22.433		BG	14/11/2012	
33	35	2	2.28	42.32	55.6	33.4		BG	14/11/2012	
35	37	2	49.34	49.75	29.88	42.99		BG	14/11/2012	
37	39	2	30.39	54.07	18.18	34.213		BG	14/11/2012	
39	41	2	41.49	32.19	50.33	41.337		BG	14/11/2012	
41	43	2	19.54	60.82	242.8	107.72		BG	14/11/2012	
43	45	2	55.29	70.56	23.3	49.717		BG	14/11/2012	
45	47	2	267.3	26.41	105.6	133.103		BG	14/11/2012	
47	49	2	28.42	210.3	331.7	190.14		BG	14/11/2012	
49	51	2	69.3	48.08	55.52	57.633		BG	14/11/2012	
51	53	2	69.39	158.9	52.34	93.543		BG	14/11/2012	
53	55	2	16.2	25.29	6.53	16.007		BG	15/11/2012	
55	57	2	7.9	25.54	58.8	30.747		BG	15/11/2012	
57	59	2	29.98	57.53	33.96	40.49		BG	15/11/2012	
59	61	2	39.17	63.48		51.325		BG	15/11/2012	
61	63	2	59.47	44.52	45.07	49.687		BG	15/11/2012	
63	65	2	60.63	22.87	98.47	60.657		BG	15/11/2012	
65	67	2	110.5	104.5	4.99	73.33		BG	15/11/2012	
67	69	2	12.07	44.22	45.98	34.09		BG	15/11/2012	
69	71	2	32.88	11.09	26.47	23.48		BG	15/11/2012	
71	73	2	38.43	27.21	42.45	36.03		BG	15/11/2012	
73	75	2	16.69	44.24	63.19	41.373		BG	15/11/2012	
75	76.21	1.21	43.68	55.86	52.85	50.797		BG	15/11/2012	
76.21	77.85	1.64	20.65	48.38	18.29	29.107		BG	15/11/2012	
77.85	80	2.15	47.4	55.74	19.45	40.863		BG	15/11/2012	

Hole ID: **RG12-09**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
80	82	2	29.8	50.92	48.63	43.117		BG	15/11/2012	
82	84	2	28.58	56.46	36.93	40.657		BG	15/11/2012	
84	86	2	62.12	37.75	30.21	43.36		BG	15/11/2012	
86	88	2	43.3	37	42.73	41.01		BG	15/11/2012	
88	90	2	48.75	45	77.48	57.077		BG	15/11/2012	
90	92	2	100.6	70.69	41.06	70.783		BG	15/11/2012	
92	94	2	68.06	29.1	50.46	49.207		BG	15/11/2012	
94	96	2	43.98	35.99	23.04	34.337		BG	15/11/2012	
96	98	2	10.8	51.1	18.36	26.753		BG	15/11/2012	
98	100	2	34.97	11.77	25.57	24.103		BG	15/11/2012	
100	101	1	58.89	15.18	37.25	37.107		BG	15/11/2012	
101	102.19	1.19	79.03	30.62	20.06	43.237		BG	15/11/2012	
102.19	104	1.81	25.52	37.32	11.06	24.633		BG	15/11/2012	
104	106	2	50.52	39.92	49.59	46.677		BG	15/11/2012	
106	108	2	23.79	25.35	39.21	29.45		BG	15/11/2012	
108	110	2	14.25	32.43	49.69	32.123		BG	15/11/2012	
110	112	2	39.09	52.11	40.21	43.803		BG	15/11/2012	
112	114	2	34.93	19.28	35.74	29.983		BG	15/11/2012	
114	116	2	57.05	30.93	55.16	47.713		BG	15/11/2012	
116	118	2	19.99	12.39	11.73	14.703		BG	15/11/2012	
118	120	2	8.428	32.17	26.75	22.449		BG	15/11/2012	
120	122	2	32.32	27.33	35.3	31.65		BG	15/11/2012	
122	124	2	18.04	16.87	19.54	18.15		BG	15/11/2012	
124	126	2	12.03	20.46	17.32	16.603		BG	15/11/2012	
126	128	2	30.4	11.22	2.099	14.573		BG	15/11/2012	
128	130	2	6.168	56.6	47.1	36.623		BG	15/11/2012	
130	131.5	1.5	25.67	25.2	32.63	27.833		BG	15/11/2012	
131.5	133	1.5	38.19	24.57	50.39	37.717		BG	15/11/2012	
133	135	2	43.12	30.7	28.11	33.977		BG	15/11/2012	
135	137	2	31.81	30.75	28.37	30.31		BG	15/11/2012	
137	139	2	72.83	31.07	7.83	37.243		BG	15/11/2012	
139	141	2	14.11	46.12	70	43.41		BG	15/11/2012	
141	143	2	31.83	28.19	21.34	27.12		BG	15/11/2012	
143	145	2	33.29	25.39	40.62	33.1		BG	15/11/2012	
145	147	2	554.9	38.23	28.91	207.347		BG	15/11/2012	
147	149	2	15.68	20.65	21.41	19.247		BG	15/11/2012	
149	151	2	38.95	7.43	23.44	23.273		BG	15/11/2012	
151	152.39	1.39	29.53	34.57	17.04	27.047		BG	15/11/2012	
152.39	154	1.61	41.68	24.79	24.74	30.403		DJ	16/11/2012	

Hole ID: **RG12-09**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
154	156	2	40.43	81.62	54.87	58.973		DJ	16/11/2012	
156	158	2	25.31	78.7	51.2	51.737		DJ	16/11/2012	
158	160	2	59.4	43.3	67.3	56.667		DJ	16/11/2012	
160	162	2	65.57	62.05	53.46	60.36		DJ	16/11/2012	
162	164	2	58.09	47.76	59.32	55.057		DJ	16/11/2012	
164	166	2	58.47	74.69	30.41	54.523		DJ	16/11/2012	
166	168	2	44.38	50.13	59.96	51.49		DJ	16/11/2012	
168	170	2	52.16	33.44	25.1	36.9		DJ	16/11/2012	
170	172	2	33.91	78.99	34.69	49.197		DJ	16/11/2012	
172	174	2	24.57	38.53	103.7	55.6		DJ	16/11/2012	
174	176	2	27.65	83.87	58.34	56.62		DJ	16/11/2012	
176	178	2	33.86	25.57	48.33	35.92		DJ	16/11/2012	
178	180	2	62.11	84.74	47.1	64.65		DJ	16/11/2012	
180	182	2	65.3	65.24	65.62	65.387		DJ	16/11/2012	
182	184	2	51.92	56.8	48.39	52.37		DJ	16/11/2012	
184	186	2	53.23	38.66	71.8	54.563		DJ	16/11/2012	
186	188	2	32.04	37.53	50.9	40.157		DJ	16/11/2012	
188	190	2	55.72	42.49	38.26	45.49		DJ	16/11/2012	
190	192	2	37.49	43.07	31.86	37.473		DJ	16/11/2012	
192	194	2	34.39	89.53	37.99	53.97		DJ	16/11/2012	
194	196	2	23.78	7.689	8.887	13.452		DJ	16/11/2012	
196	197	1	3.469	21.83	20.73	15.343		DJ	16/11/2012	
197	198.65	1.65	28.73	31.76	22.29	27.593		DJ	16/11/2012	
198.65	200	1.35	91.6	14.59	30.13	45.44		DJ	16/11/2012	
200	202	2	49.22	62.2	79.41	63.61		DJ	16/11/2012	
202	204	2	133.4	93.16	357	194.52		DJ	16/11/2012	
204	206	2	172.9	263	269	234.967		DJ	16/11/2012	
206	208	2	138.3	73.13	77.04	96.157		DJ	16/11/2012	
208	210	2	187.6	95.32	87.01	123.31		DJ	16/11/2012	
210	212	2	106.9	28.71	50.9	62.17		DJ	16/11/2012	
212	214	2	109.3	18.6	29.71	52.537		DJ	16/11/2012	
214	216	2	12.98	14	22.54	16.507		DJ	16/11/2012	
216	217	1	7.829	33.36	3.4	14.863		DJ	16/11/2012	
217	218.84	1.84	11.84	9.986	17.47	13.099		DJ	16/11/2012	
218.84	220	1.16	40.92	19.61	15.72	25.417		DJ	16/11/2012	
220	222	2	56.51	64.11	178.4	99.673		DJ	16/11/2012	
222	224	2	103.3	85	47.52	78.607		DJ	16/11/2012	
224	226	2	43.64	111.9	59.2	71.58		DJ	16/11/2012	
226	228	2	137.4	75.54	53.58	88.84		DJ	16/11/2012	

Hole ID: **RG12-09**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
228	230	2	149.9	92.96	110.3	117.72		DJ	16/11/2012	
230	232	2	118.4	194.6	135.7	149.567		DJ	16/11/2012	
232	234	2	123.1	56.47	146.7	108.757		DJ	16/11/2012	
234	236	2	154.9	112.6	261.6	176.367		DJ	16/11/2012	
236	238	2	174.1	142.6	160.4	159.033		DJ	16/11/2012	
238	240	2	137.3	166.2	155.4	152.967		DJ	16/11/2012	
240	242	2	136.9	170.8	144.8	150.833		DJ	16/11/2012	
242	244	2	102.7	184.7	123.7	137.033		DJ	16/11/2012	
244	246	2	79.02	120.8	48.88	82.9		DJ	16/11/2012	
246	248	2	62.16	24.88	46.81	44.617		DJ	16/11/2012	
248	250	2	57.99	9.715	23.44	30.382		DJ	16/11/2012	
250	252	2	77.45	22.58	47.71	49.247		DJ	16/11/2012	
252	254	2	68.72	18.83	87.52	58.357		DJ	16/11/2012	
254	256	2	78.11	110	27.09	71.733		DJ	16/11/2012	
256	258	2	50.53	65.26	67.36	61.05		DJ	16/11/2012	
258	260	2	48.49	57.1	37.31	47.633		DJ	16/11/2012	
260	262	2	38.09	33.44	85.45	52.327		DJ	16/11/2012	
262	264	2	99.01	42.98	76.1	72.697		DJ	16/11/2012	
264	266	2	42.8	96.38	113.7	84.293		DJ	16/11/2012	
266	268	2	111.6	71.63	36.54	73.257		DJ	16/11/2012	
268	269	1	82.01	89.65	42.15	71.27		DJ	16/11/2012	
269	270.5	1.5	77.19	81.01	53.52	70.573		DJ	16/11/2012	
270.5	272	1.5	48.78	47.96	71.96	56.233		DJ	16/11/2012	
272	274	2	65.41	92.78	186.8	114.997		DJ	16/11/2012	
274	275	1	72.29	80.26	90.03	80.86		DJ	16/11/2012	
275	276.79	1.79	17.33	77.52	84.35	59.733		DJ	16/11/2012	
276.79	278	1.21	110.5	75.8	152.7	113		DJ	16/11/2012	
278	279.9	1.9	35.09	58.59	117.4	70.36		DJ	16/11/2012	
279.9	282	2.1	22.68	65.89	65.83	51.467		DJ	16/11/2012	
282	284	2	24.03	6.214	11.16	13.801		DJ	16/11/2012	
284	286	2	16.21	57.39	45.7	39.767		DJ	16/11/2012	
286	288	2	50.52	61.21	55.42	55.717		DJ	16/11/2012	
288	290	2	38.04	45.9	61.31	48.417		DJ	16/11/2012	
290	291.08	1.08	21.28	21.57	15.57	19.473		DJ	16/11/2012	EOH

GeoSpark Logger Print Logs ~ Specific Gravity

DataSet: RG_GF

Hole ID: RG12-09

From (m)	To (m)	Sample ID	Sample Type	SG Method	Weight Dry (g)	Weight Wet (g)	Bulk Density	Lithology GF Code	Local Lith Code	Alt 1 Code	Alt Interp	Alt Int	Sulph. %	Date Sampled	Sampled By	Comments
35.06	35.18	P385244	WC	MEAS	660.3	419.3	2.74	IPAN	FnPlagAnd_PBX	Pot	Primary	M	0.25	14/11/2012	BG	
59.9	60.02	P385258	WC	MEAS	563.3	366.1	2.86	IPAN	FnPlagAnd_PBX	Pot	Primary	M	0.25	15/11/2012	BG	
85.37	85.48	P385273	WC	MEAS	594.1	386.9	2.87	VANAB	CrsPxAnd_BX	Propy	OvPrnt	S	0.25	15/11/2012	BG	
110.3	110.48	P385289	WC	MEAS	952.6	616.9	2.84	VANAB	CrsPxAnd_BX	Propy	OvPrnt	S	0.25	15/11/2012	BG	
135.64	135.76	P385304	WC	MEAS	665.7	431.2	2.84	VANAB	CrsPxAnd_BX	Pot	Primary	S	0.5	15/11/2012	BG	
160.1	160.24	P385319	WC	MEAS	792.7	511.7	2.82	VANAB	CrsPxAnd_BX	Propy	OvPrnt	S	0.1	15/11/2012	BG	
185.13	185.25	P385333	WC	MEAS	646	406.9	2.7	VANAB	CrsPxAnd_BX	Pot	Primary	S	0.1	16/11/2012	DJ	
210.15	210.28	P385349	WC	MEAS	703.9	460.2	2.89	VANAB	CrsPxAnd_BX	Pot	Primary	S	0.25	16/11/2012	DJ	
233.72	233.87	P385363	WC	MEAS	800.1	517.1	2.83	VANAB	CrsPxAnd_BX	Pot	Primary	S	0.25	16/11/2012	DJ	
259.8	259.95	P385378	WC	MEAS	767.8	494.6	2.81	VANAB	CrsPxAnd_BX	Pot	Primary	S	0.5	16/11/2012	DJ	
284.97	285.11	P385396	WC	MEAS	687.1	453.2	2.94	VANAB	CrsPxAnd_BX	Pot	OvPrnt	S	0.1	16/11/2012	DJ	EOH

GeoSpark Logger Print Logs ~ Specterra Data

DataSet: RG_GF

Hole ID: RG12-09

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
9.14	11	P385228	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Very noisy

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
11	13	P385229	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1906	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
13	15	P385231		walt	OH+H20 (1400nm)	1	1413	2		3					
Collection Comments:					H20 (1900nm)	1	1907	2		3					
					Al-OH (2200nm)	1	2207	2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
15	17	P385232		walt	OH+H20 (1400nm)	1	1414	2		3					
Collection Comments:					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1	2215	2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
17	19	P385233	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1908	2		3					
					Al-OH (2200nm)	1	2207	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
19	20	P385234	1	walt	OH+H20 (1400nm)	1	1416	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
20	21.81	P385235	1	walt	OH+H20 (1400nm)	1	1414	2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
21.81	23	P385236	1	walt	OH+H20 (1400nm)	1	1410	2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2330	2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:
23	25	P385237	0	walt	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

	1	2	3
OH+H20 (1400nm)			
H20 (1900nm)			
Al-OH (2200nm)			
Fe-OH (2250nm)			
Mg-OH (2350nm)			
Other (nm)			

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:
25	27	P385238	0	walt	

Collection Comments:

Interp Comments:
Specmin unable to pick up features

Doublet/Triplet Comments

	1	2	3
OH+H20 (1400nm)			
H20 (1900nm)			
Al-OH (2200nm)			
Fe-OH (2250nm)			
Mg-OH (2350nm)			
Other (nm)			

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
27	29	P385239		walt	OH+H20 (1400nm)	1		2		3				
Collection Comments:					H20 (1900nm)	1	1907	2		3				
					Al-OH (2200nm)	1		2		3				
Interp Comments:					Fe-OH (2250nm)	1	2258	2		3				
					Mg-OH (2350nm)	1		2		3				
Doublet/Triplet Comments					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	
29	31	P385241	0	walt	OH+H20 (1400nm)	1	1428	2		3				
Collection Comments: wet					H20 (1900nm)	1	1915	2		3				
					Al-OH (2200nm)	1		2		3				
Interp Comments:					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2351	2		3				
Doublet/Triplet Comments					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
31	33	P385242	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1910	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
33	35	P385243	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1914	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
35	37	P385244	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1908	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2244	2		3				
					Mg-OH (2350nm)	1	2358	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
37	39	P385245	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1912	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
39	41	P385246	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1909	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
41	43	P385247	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:
43	45	P385248	0	walt	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

	1	2	3
OH+H20 (1400nm)			
H20 (1900nm)			
Al-OH (2200nm)			
Fe-OH (2250nm)			
Mg-OH (2350nm)			
Other (nm)			

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:
45	47	P385249	0	walt	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

	1	2	3
OH+H20 (1400nm)			
H20 (1900nm)			
Al-OH (2200nm)			
Fe-OH (2250nm)			
Mg-OH (2350nm)			
Other (nm)			

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
47	49	P385251	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1940	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2350	2		3				
					Other (nm)	1		2		3				
49	51	P385252	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
51	53	P385253	2	vn	OH+H20 (1400nm)	1	1476	2		3	
					H20 (1900nm)	1	1916	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2359	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
53	55	P385254	2	walt	OH+H20 (1400nm)	1	1411	2		3	
					H20 (1900nm)	1	1913	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2251	2		3	
					Mg-OH (2350nm)	1	2339	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
55	57	P385256	1	walt	OH+H20 (1400nm)	1	1399	2		3				
					H20 (1900nm)	1	1910	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
57	59	P385257	1	walt	OH+H20 (1400nm)	1	1399	2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
59	61	P385258	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1914	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite	
61	63	P385259	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1914	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2357	2		3				
					Other (nm)	1		2		3				
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
63	65	P385261	1	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1913	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
65	67	P385262	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1918	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:
wet

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☑ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
67	69	P385263	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☑ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
69	71	P385264	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1		2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
71	73	P385265	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
73	75	P385266	0	walt	OH+H20 (1400nm)	1	1399	2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
75	76.21	P385267	0	walt	OH+H20 (1400nm)	1	1408	2		3					
					H20 (1900nm)	1	1911	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2252	2		3					
					Mg-OH (2350nm)	1	2338	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
76.21	77.85	P385268	0	walt	OH+H20 (1400nm)	1	1397	2		3					
					H20 (1900nm)	1	1966	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
77.85	80	P385269	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1957	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
80	82	P385271	0	walt	OH+H20 (1400nm)	1	1400	2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2249	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
82	84	P385272		walt	OH+H20 (1400nm)	1	1408	2		3	
					H20 (1900nm)	1	1915	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2339	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
84	86	P385273	1	walt	OH+H20 (1400nm)	1	1397	2	1477	3	
					H20 (1900nm)	1	1913	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2358	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
86	88	P385274	1	walt	OH+H20 (1400nm)	1	1396	2	1477	3	
					H20 (1900nm)	1	1914	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2237	2	2287	3	
					Mg-OH (2350nm)	1	2357	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
88	90	P385275	0	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1		2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
90	92	P385276	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
92	94	P385277	0	walt	OH+H20 (1400nm)	1	1479	2		3				
					H20 (1900nm)	1	1911	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2245	2		3				
					Mg-OH (2350nm)	1	2339	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
94	96	P385278	1	walt	OH+H20 (1400nm)	1	1409	2		3	
					H20 (1900nm)	1	1916	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2248	2		3	
					Mg-OH (2350nm)	1	2334	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
96	98	P385279	1	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1	1908	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2258	2		3	
					Mg-OH (2350nm)	1	2334	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
98	100	P385281	1	walt	OH+H20 (1400nm)	1	1396	2	1476	3				
					H20 (1900nm)	1	1913	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2334	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
100	101	P385282		walt	OH+H20 (1400nm)	1	1430	2		3				
					H20 (1900nm)	1	1923	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2257	2		3				
					Mg-OH (2350nm)	1	2341	2		3				
					Other (nm)	1		2		3				

Collection Comments:
wet

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
101	102.19	P385284	1	walt	OH+H20 (1400nm)	1	1430	2		3					
					H20 (1900nm)	1	1920	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		
102.19	104	P385285	1	walt	OH+H20 (1400nm)	1	1430	2		3					
					H20 (1900nm)	1	1921	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Collection Comments:
wet

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
104	106	P385286	1	walt	OH+H20 (1400nm)	1	1430	2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
106	108	P385287	1	walt	OH+H20 (1400nm)	1	1414	2		3					
					H20 (1900nm)	1	1938	2		3					
					Al-OH (2200nm)	1	2204	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:
wet

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
108	110	P385288	1	walt	OH+H20 (1400nm)	1	1413	2		3	
					H20 (1900nm)	1	1924	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2341	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
110	112	P385289	2	walt	OH+H20 (1400nm)	1	1417	2		3	
					H20 (1900nm)	1	1931	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2235	2	2286	3	
					Mg-OH (2350nm)	1	2357	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
112	114	P385291	0	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2258	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
114	116	P385292	0	walt	OH+H20 (1400nm)	1	1429	2		3					
					H20 (1900nm)	1	1946	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2237	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:
wet?

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
116	118	P385293	1	walt	OH+H20 (1400nm)	1	1413	2		3	
					H20 (1900nm)	1	1924	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2243	2		3	
					Mg-OH (2350nm)	1	2337	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
118	120	P385294	2	walt	OH+H20 (1400nm)	1	1454	2		3	
					H20 (1900nm)	1	1931	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2253	2		3	
					Mg-OH (2350nm)	1	2337	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
120	122	P385295	2	walt	OH+H20 (1400nm)	1	1451	2		3						
					H20 (1900nm)	1	1927	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2343	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
122	124	P385296	1	walt	OH+H20 (1400nm)	1	1412	2		3						
					H20 (1900nm)	1	1957	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1	2251	2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
124	126	P385297	2	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2258	2		3					
					Mg-OH (2350nm)	1	2336	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☑ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
126	128	P385298	2	walt	OH+H20 (1400nm)	1	1444	2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
128	130	P385299	1	walt	OH+H20 (1400nm)	1	1444	2		3				
Collection Comments: wet					H20 (1900nm)	1	1940	2		3				
					Al-OH (2200nm)	1	2199	2		3				
Interp Comments:					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
Doublet/Triplet Comments					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite	
130	131.5	P385301	1	walt	OH+H20 (1400nm)	1	1411	2		3				
Collection Comments:					H20 (1900nm)	1	1914	2		3				
					Al-OH (2200nm)	1	2215	2		3				
Interp Comments:					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2342	2		3				
Doublet/Triplet Comments					Other (nm)	1		2		3				
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
131.5	133	P385302	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1966	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2252	2		3				
					Mg-OH (2350nm)	1	2335	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
133	135	P385303	0	walt	OH+H20 (1400nm)	1	1413	2		3				
					H20 (1900nm)	1	1916	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2351	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
135	137	P385304	0	walt	OH+H20 (1400nm)	1	1412	2		3	
					H20 (1900nm)	1	1916	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2258	2		3	
					Mg-OH (2350nm)	1	2330	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
137	139	P385305	0	walt	OH+H20 (1400nm)	1	1412	2		3	
					H20 (1900nm)	1	1916	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2246	2		3	
					Mg-OH (2350nm)	1	2334	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
139	141	P385306	2	walt	OH+H20 (1400nm)	1	1412	2		3					
Collection Comments: wet					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2334	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
141	143	P385307	2	walt	OH+H20 (1400nm)	1	1428	2		3					
Collection Comments:					H20 (1900nm)	1	1923	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2336	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
143	145	P385308	2	walt	OH+H20 (1400nm)	1	1414	2		3	
					H20 (1900nm)	1	1918	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2251	2		3	
					Mg-OH (2350nm)	1	2335	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
145	147	P385309	0	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1	1923	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
147	149	P385312	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2258	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
149	151	P385313	2	walt	OH+H20 (1400nm)	1	1428	2		3					
					H20 (1900nm)	1	1922	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2330	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
151	152.39	P385314	0	walt	OH+H20 (1400nm)	1		2		3					
Collection Comments:					H20 (1900nm)	1	1976	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
Unable to interpret minerals from this spectra					Mg-OH (2350nm)	1		2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
152.39	154	P385315	2	VN	OH+H20 (1400nm)	1	1399	2		3					
Collection Comments:					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1	2236	2		3					
					Mg-OH (2350nm)	1	2334	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
154	156	P385316	2	walt	OH+H20 (1400nm)	1	1429	2		3				
					H20 (1900nm)	1	1924	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2357	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
156	158	P385317	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
158	160	P385318	1	walt	OH+H20 (1400nm)	1	1414	2		3	
					H20 (1900nm)	1	1924	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2236	2		3	
					Mg-OH (2350nm)	1	2356	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
160	162	P385319	0	walt	OH+H20 (1400nm)	1	1410	2		3	
					H20 (1900nm)	1		2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2251	2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
162	164	P385321	1	BXCMT	OH+H20 (1400nm)	1	1478	2		3	
					H20 (1900nm)	1	1932	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2236	2	2278	3	
					Mg-OH (2350nm)	1	2360	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
164	166	P385322	1	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1	1910	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2244	2		3	
					Mg-OH (2350nm)	1	2339	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☑ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
166	168	P385323	1	walt	OH+H20 (1400nm)	1	1428	2		3					
					H20 (1900nm)	1	1923	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
168	170	P385324	1	walt	OH+H20 (1400nm)	1	1430	2		3					
					H20 (1900nm)	1	1941	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2248	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:
wet

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
170	172	P385325	1	walt	OH+H20 (1400nm)	1	1417	2		3					
Collection Comments:					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1	2244	2		3					
					Mg-OH (2350nm)	1		2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
172	174	P385326	1	walt	OH+H20 (1400nm)	1	1476	2		3					
Collection Comments:					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1	2250	2		3					
					Mg-OH (2350nm)	1	2351	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: RG12-09

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
174	176	P385327	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2251	2		3					
					Mg-OH (2350nm)	1	2340	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
176	178	P385328	1	walt	OH+H20 (1400nm)	1	1414	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2250	2		3					
					Mg-OH (2350nm)	1	2359	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
178	180	P385329	1	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
180	182	P385331	1	BxClast	OH+H20 (1400nm)	1	1414	2		3					
					H20 (1900nm)	1	1940	2		3					
					Al-OH (2200nm)	1	2207	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
182	184	P385332	2	VN	OH+H20 (1400nm)	1	1478	2		3	
					H20 (1900nm)	1	1932	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2235	2	2280	3	
					Mg-OH (2350nm)	1	2358	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
184	186	P385333	0	walt	OH+H20 (1400nm)	1	1411	2		3	
					H20 (1900nm)	1		2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
186	188	P385334	1	walt	OH+H20 (1400nm)	1	1478	2		3	
					H20 (1900nm)	1	1909	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2243	2		3	
					Mg-OH (2350nm)	1	2356	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
188	190	P385335	2	BxClast	OH+H20 (1400nm)	1	1414	2		3	
					H20 (1900nm)	1	1942	2		3	
					Al-OH (2200nm)	1	2199	2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
190	192	P385336	2	walt	OH+H20 (1400nm)	1	1426	2		3						
					H20 (1900nm)	1	1915	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2358	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
192	194	P385337	1	walt	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1	1924	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1	2251	2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
194	196	P385339	2	VN	OH+H20 (1400nm)	1	1476	2		3					
					H20 (1900nm)	1	1931	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2254	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
196	197	P385341	1	walt	OH+H20 (1400nm)	1	1411	2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2258	2		3					
					Mg-OH (2350nm)	1	2336	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☑ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
197	198.65	P385342	1	BxClast	OH+H20 (1400nm)	1	1414	2		3				
					H20 (1900nm)	1	1915	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2244	2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
Collection Comments:														
Interp Comments:														
Doublet/Triplet Comments														
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite	
198.65	200	P385343	2	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1914	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2246	2		3				
					Mg-OH (2350nm)	1	2352	2		3				
					Other (nm)	1		2		3				
Collection Comments:														
Interp Comments:														
Doublet/Triplet Comments														
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite	

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
200	202	P385344	1	walt	OH+H20 (1400nm)	1	1478	2		3	
					H20 (1900nm)	1	1925	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2235	2	2285	3	
					Mg-OH (2350nm)	1	2358	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
202	204	P385345	1	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1	1948	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2253	2		3	
					Mg-OH (2350nm)	1	2340	2		3	
					Other (nm)	1	1542	2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
204	206	P385346	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2256	2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
206	208	P385347	1	walt	OH+H20 (1400nm)	1	1428	2		3				
					H20 (1900nm)	1	1916	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
208	210	P385348	1	BxClast	OH+H20 (1400nm)	1	1478	2		3						
					H20 (1900nm)	1	1917	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1	2235	2	2282	3						
					Mg-OH (2350nm)	1	2358	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
210	212	P385349	0	walt	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1	1966	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1	2245	2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
212	214	P385351	1	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1	2215	2		3					
					Fe-OH (2250nm)	1	2351	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
214	216	P385352	1	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1956	2		3					
					Al-OH (2200nm)	1	2209	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
216	217	P385353	1	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2258	2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
217	218.84	P385354	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1913	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
218.84	220	P385355	1	walt	OH+H20 (1400nm)	1		2		3				
Collection Comments: wet?					H20 (1900nm)	1	1947	2		3				
					Al-OH (2200nm)	1	2200	2		3				
Interp Comments:					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
Doublet/Triplet Comments					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	
220	222	P385356	1	walt	OH+H20 (1400nm)	1		2		3				
Collection Comments:					H20 (1900nm)	1	1907	2		3				
					Al-OH (2200nm)	1		2		3				
Interp Comments:					Fe-OH (2250nm)	1	2244	2		3				
					Mg-OH (2350nm)	1	2330	2		3				
Doublet/Triplet Comments					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☑ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
222	224	P385357	1	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1947	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
224	226	P385358	2	BXCMT	OH+H20 (1400nm)	1	1429	2		3				
					H20 (1900nm)	1	1923	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2344	2		3				
					Other (nm)	1		2		3				

Collection Comments:
wet?

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material
226	228	P385359	1	VN

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Features:

OH+H20 (1400nm)	1	1428	2	1478	3			
H20 (1900nm)	1	1924	2		3			
Al-OH (2200nm)	1		2		3			
Fe-OH (2250nm)	1	2237	2		3			
Mg-OH (2350nm)	1	2358	2		3			
Other (nm)	1		2		3			

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material
228	230	P385361	0	walt

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Features:

OH+H20 (1400nm)	1		2		3			
H20 (1900nm)	1	1964	2		3			
Al-OH (2200nm)	1	2207	2		3			
Fe-OH (2250nm)	1		2		3			
Mg-OH (2350nm)	1		2		3			
Other (nm)	1		2		3			

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
230	232	P385362	0	BxClast	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1964	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2249	2		3				
					Mg-OH (2350nm)	1	2358	2		3				
					Other (nm)	1		2		3				
232	234	P385363	1	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1911	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2257	2		3				
					Mg-OH (2350nm)	1	2337	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
234	236	P385364	1	walt	OH+H20 (1400nm)	1		2		3					
Collection Comments:					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1	2337	2		3					
					Mg-OH (2350nm)	1		2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
236	238	P385365	1	BXCMT	OH+H20 (1400nm)	1		2		3					
Collection Comments:					H20 (1900nm)	1	1903	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1	2253	2		3					
					Mg-OH (2350nm)	1	2337	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
238	240	P385367	1	walt	OH+H20 (1400nm)	1	1412	2		3					
Collection Comments: wet					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
240	242	P385368	1	VN	OH+H20 (1400nm)	1	1452	2		3					
Collection Comments:					H20 (1900nm)	1	1932	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1	2254	2		3					
					Mg-OH (2350nm)	1	2339	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
242	244	P385369	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1902	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2241	2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
244	246	P385371	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1948	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
246	248	P385372	1	walt	OH+H20 (1400nm)	1	1477	2		3				
Collection Comments:					H20 (1900nm)	1	1957	2		3				
					Al-OH (2200nm)	1		2		3				
Interp Comments:					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2358	2		3				
Doublet/Triplet Comments					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite	
248	250	P385373	1	walt	OH+H20 (1400nm)	1	1428	2		3				
Collection Comments:					H20 (1900nm)	1	1923	2		3				
					Al-OH (2200nm)	1		2		3				
Interp Comments:					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2357	2		3				
Doublet/Triplet Comments					Other (nm)	1		2		3				
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
250	252	P385374	0	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1935	2		3					
					Al-OH (2200nm)	1	2204	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
252	254	P385375	1	vn	OH+H20 (1400nm)	1	1477	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2353	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
254	256	P385376	0	BxClast	OH+H20 (1400nm)	1	1412	2		3	
					H20 (1900nm)	1	1965	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2252	2		3	
					Mg-OH (2350nm)	1	2357	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
256	258	P385377	2	walt	OH+H20 (1400nm)	1	1477	2		3	
					H20 (1900nm)	1	1924	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2238	2	2285	3	
					Mg-OH (2350nm)	1	2360	2		3	
					Other (nm)	1		2		3	

Collection Comments:
wet?

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
258	260	P385378	0	walt	OH+H20 (1400nm)	1	1411	2		3	
					H20 (1900nm)	1	1964	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2245	2		3	
					Mg-OH (2350nm)	1	2359	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
260	262	P385379	1	walt	OH+H20 (1400nm)	1	1479	2		3	
					H20 (1900nm)	1	1911	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2236	2		3	
					Mg-OH (2350nm)	1	2359	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: RG12-09

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
262	264	P385381	1	BxClast	OH+H20 (1400nm)	1		2		3					
Collection Comments:					H20 (1900nm)	1	1904	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1	2253	2		3					
					Mg-OH (2350nm)	1	2338	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
264	266	P385382	0	walt	OH+H20 (1400nm)	1		2		3					
Collection Comments:					H20 (1900nm)	1	1966	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1	2248	2		3					
					Mg-OH (2350nm)	1	2359	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
266	268	P385383	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1957	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2236	2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					
268	269	P385384	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1912	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2253	2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
269	270.5	P385385	0	walt	OH+H20 (1400nm)	1	1411	2		3					
					H20 (1900nm)	1	1956	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2249	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
270.5	272	P385386	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1		2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material
272	274	P385387	0	walt

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Features:

	1	2	3
OH+H20 (1400nm)			
H20 (1900nm)			
Al-OH (2200nm)			
Fe-OH (2250nm)			
Mg-OH (2350nm)			
Other (nm)			

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material
274	275	P385388	2	vn

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Features:

	1	2	3
OH+H20 (1400nm)	1478		
H20 (1900nm)	1915		
Al-OH (2200nm)			
Fe-OH (2250nm)	2237	2281	
Mg-OH (2350nm)	2357		
Other (nm)			

☐ Chlorite ☑ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
275	276.79	P385389	2	walt	OH+H20 (1400nm)	1	1409	2		3					
					H20 (1900nm)	1	1907	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
276.79	278	P385391	2	vn	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1908	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2249	2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
278	279.9	P385392	2	walt	OH+H20 (1400nm)	1	1427	2	1472	3	
					H20 (1900nm)	1	1908	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2342	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
279.9	282	P385393	0	walt	OH+H20 (1400nm)	1	1412	2		3	
					H20 (1900nm)	1	1964	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2252	2		3	
					Mg-OH (2350nm)	1	2338	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
282	284	P385394	2	walt	OH+H20 (1400nm)	1	1395	2	1477	3				
					H20 (1900nm)	1	1910	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2243	2		3				
					Mg-OH (2350nm)	1	2357	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
284	286	P385396	1	walt	OH+H20 (1400nm)	1	1396	2		3				
					H20 (1900nm)	1	1905	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2251	2		3				
					Mg-OH (2350nm)	1	2337	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
286	288	P385397	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1967	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
288	290	P385398	2	walt	OH+H20 (1400nm)	1	1478	2		3					
					H20 (1900nm)	1	1925	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2236	2	2289	3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☑ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-09**

From (m)	To (m)	Sample	Spectra Quality	Sample Material
290	291.08	P385399		walt

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Features:

OH+H20 (1400nm)	1		2		3	
H20 (1900nm)	1	1981	2		3	
Al-OH (2200nm)	1		2		3	
Fe-OH (2250nm)	1	2244	2		3	
Mg-OH (2350nm)	1	2352	2		3	
Other (nm)	1		2		3	

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

GeoSpark Logger Print Logs ~ DH Samples

DataSet: RG_GF

Hole ID: RG12-09

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
9.14	11	P385228	HC	BG	☐	
11	13	P385229	HC	BG	☐	
13	15	P385231	HC	BG	☐	
15	17	P385232	HC	BG	☐	
17	19	P385233	HC	BG	☐	
19	20	P385234	HC	BG	☐	
20	21.81	P385235	HC	BG	☐	
21.81	23	P385236	HC	BG	☐	
23	25	P385237	HC	BG	☐	
25	27	P385238	HC	BG	☐	
27	29	P385239	HC	BG	☐	
29	31	P385241	HC	BG	☐	
31	33	P385242	HC	BG	☐	
33	35	P385243	HC	BG	☐	
35	37	P385244	HC	BG	☑	
37	39	P385245	HC	BG	☐	
39	41	P385246	HC	BG	☐	
41	43	P385247	HC	BG	☐	
43	45	P385248	HC	BG	☐	
45	47	P385249	HC	BG	☐	
47	49	P385251	HC	BG	☐	
49	51	P385252	HC	BG	☐	
51	53	P385253	HC	BG	☐	
53	55	P385254	HC	BG	☑	
55	57	P385256	HC	BG	☑	
57	59	P385257	HC	BG	☐	
59	61	P385258	HC	BG	☐	
61	63	P385259	HC	BG	☐	
63	65	P385261	HC	BG	☐	
65	67	P385262	HC	BG	☑	
67	69	P385263	HC	BG	☑	
69	71	P385264	HC	BG	☐	
71	73	P385265	HC	BG	☐	
73	75	P385266	HC	BG	☐	
75	76.21	P385267	HC	BG	☐	
76.21	77.85	P385268	HC	BG	☐	
77.85	80	P385269	HC	BG	☐	

GeoSpark Logger Print Logs ~ DH Samples

Hole ID: **RG12-09**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
80	82	P385271	HC	BG	☐	
82	84	P385272	HC	BG	☐	
84	86	P385273	HC	BG	☐	
86	88	P385274	HC	BG	☐	
88	90	P385275	HC	BG	☐	
90	92	P385276	HC	BG	☐	
92	94	P385277	HC	BG	☑	
94	96	P385278	HC	BG	☐	
96	98	P385279	HC	BG	☐	
98	100	P385281	HC	BG	☑	
100	101	P385282	HC	BG	☑	
101	102.19	P385284	HC	BG	☐	
102.19	104	P385285	HC	BG	☐	
104	106	P385286	HC	BG	☐	
106	108	P385287	HC	BG	☐	
108	110	P385288	HC	BG	☐	
110	112	P385289	HC	BG	☐	
112	114	P385291	HC	BG	☐	
114	116	P385292	HC	BG	☐	
116	118	P385293	HC	BG	☐	
118	120	P385294	HC	BG	☑	
120	122	P385295	HC	BG	☑	
122	124	P385296	HC	BG	☐	
124	126	P385297	HC	BG	☐	
126	128	P385298	HC	BG	☐	
128	130	P385299	HC	BG	☐	
130	131.5	P385301	HC	BG	☐	
131.5	133	P385302	HC	BG	☐	
133	135	P385303	HC	BG	☐	
135	137	P385304	HC	BG	☐	
137	139	P385305	HC	BG	☐	
139	141	P385306	HC	BG	☐	
141	143	P385307	HC	BG	☑	
143	145	P385308	HC	BG	☑	
145	147	P385309	HC	BG	☑	
147	149	P385312	HC	BG	☐	
149	151	P385313	HC	BG	☐	
151	152.39	P385314	HC	BG	☐	
152.39	154	P385315	HC	JV	☐	

GeoSpark Logger Print Logs ~ DH Samples

Hole ID: **RG12-09**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
154	156	P385316	HC	JV	☐	
156	158	P385317	HC	JV	☐	
158	160	P385318	HC	JV	☐	
160	162	P385319	HC	JV	☐	
162	164	P385321	HC	JV	☑	
164	166	P385322	HC	JV	☐	
166	168	P385323	HC	JV	☐	
168	170	P385324	HC	JV	☐	
170	172	P385325	HC	JV	☐	
172	174	P385326	HC	JV	☐	
174	176	P385327	HC	JV	☑	
176	178	P385328	HC	JV	☐	
178	180	P385329	HC	JV	☐	
180	182	P385331	HC	JV	☐	
182	184	P385332	HC	JV	☐	
184	186	P385333	HC	JV	☑	
186	188	P385334	HC	JV	☑	
188	190	P385335	HC	JV	☐	
190	192	P385336	HC	JV	☐	
192	194	P385337	HC	JV	☑	
194	196	P385339	HC	JV	☐	
196	197	P385341	HC	JV	☐	
197	198.65	P385342	HC	JV	☐	
198.65	200	P385343	HC	JV	☐	
200	202	P385344	HC	JV	☐	
202	204	P385345	HC	JV	☑	
204	206	P385346	HC	JV	☐	
206	208	P385347	HC	JV	☐	
208	210	P385348	HC	JV	☐	
210	212	P385349	HC	JV	☐	
212	214	P385351	HC	JV	☐	
214	216	P385352	HC	JV	☐	
216	217	P385353	HC	JV	☐	
217	218.84	P385354	HC	JV	☐	
218.84	220	P385355	HC	JV	☐	
220	222	P385356	HC	JV	☐	
222	224	P385357	HC	JV	☐	
224	226	P385358	HC	JV	☐	
226	228	P385359	HC	JV	☐	

GeoSpark Logger Print Logs ~ DH Samples

Hole ID: **RG12-09**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
228	230	P385361	HC	JV	☑	
230	232	P385362	HC	JV	☑	
232	234	P385363	HC	JV	☑	
234	236	P385364	HC	JV	☐	
236	238	P385365	HC	JV	☑	
238	240	P385367	HC	JV	☐	
240	242	P385368	HC	JV	☐	
242	244	P385369	HC	JV	☐	
244	246	P385371	HC	JV	☐	
246	248	P385372	HC	JV	☐	
248	250	P385373	HC	JV	☐	
250	252	P385374	HC	JV	☐	
252	254	P385375	HC	JV	☐	
254	256	P385376	HC	JV	☐	
256	258	P385377	HC	JV	☐	
258	260	P385378	HC	JV	☐	
260	262	P385379	HC	JV	☐	
262	264	P385381	HC	JV	☐	
264	266	P385382	HC	JV	☐	
266	268	P385383	HC	JV	☑	
268	269	P385384	HC	JV	☐	
269	270.5	P385385	HC	JV	☑	
270.5	272	P385386	HC	JV	☑	
272	274	P385387	HC	JV	☐	
274	275	P385388	HC	JV	☐	
275	276.79	P385389	HC	JV	☐	
276.79	278	P385391	HC	JV	☐	
278	279.9	P385392	HC	JV	☐	
279.9	282	P385393	HC	JV	☑	
282	284	P385394	HC	JV	☑	
284	286	P385396	HC	JV	☐	
286	288	P385397	HC	JV	☐	
288	290	P385398	HC	JV	☐	
290	291.08	P385399	HC	JV	☐	

GeoSpark Logger Print Logs ~ Duplicate Samples

DataSet: RG_GF

Hole ID: RG12-09

From (m)	To (m)	Sample ID	Original Sample ID	QC Category	Comments
35	37	Ch:P385244	P385244	LABCHCK	
53	55	P385255_PD	P385255	PD	
53	55	P385255	P385254	FD	
55	57	P385256_CD	P385256	CD	
65	67	Ch:P385262	P385262	LABCHCK	
67	69	Ch:P385263	P385263	LABCHCK	
92	94	Ch:P385277	P385277	LABCHCK	
98	100	P385281_PD	P385281	PD	
100	101	P385283	P385282	FD	
100	101	P385282_CD	P385282	CD	
118	120	Ch:P385294	P385294	LABCHCK	
120	122	Ch:P385295	P385295	LABCHCK	
141	143	P385307_PD	P385307	PD	
143	145	P385308_CD	P385308	CD	
145	147	P385311	P385309	FD	
162	164	Ch:P385321	P385321	LABCHCK	
174	176	Ch:P385327	P385327	LABCHCK	
184	186	P385333_PD	P385333	PD	
186	188	P385334_CD	P385334	CD	
192	194	P385338	P385337	FD	
202	204	Ch:P385345	P385345	LABCHCK	
228	230	P385361_PD	P385361	PD	
228	230	Ch:P385361	P385361	LABCHCK	
230	232	P385362_CD	P385362	CD	
232	234	Ch:P385363	P385363	LABCHCK	
236	238	P385366	P385365	FD	
266	268	Ch:P385383	P385383	LABCHCK	
269	270.5	P385385_PD	P385385	PD	
270.5	272	P385386_CD	P385386	CD	
279.9	282	Ch:P385393	P385393	LABCHCK	
282	284	P385395	P385394	FD	

GeoSpark Logger Print Logs ~ Standards / Blanks

DataSet: RG_GF

Hole ID: RG12-09

Sample ID	Standard ID	Comments
P385230	FB	
P385240	WJN-STD1	
P385250	FB	
P385260	WJN-STD2	
P385270	FB	
P385280	WJN-STD1	
P385290	FB	
P385300	WJN-STD2	
P385310	FB	
P385320	WJN-STD1	
P385330	FB	
P385340	WJN-STD2	
P385350	FB	
P385360	WJN-STD1	
P385370	FB	
P385380	WJN-STD2	
P385390	FB	
P385400	WJN-STD1	

GeoSpark Logger Print Logs ~ Collars

DataSet: **RG_GF**

Depth (m)	Hole Type	Core Diamete	Grid ID	East	North	Elevation	Survey Method	Survey Date	Survey By	Date Started	Date Completed	Logged By	Prospect	Validated By
Hole: RG12-10														
202.69 m	DD	NQ	UTM10N_NAD83	604490.3817	5813558.90	980.219	DGPS	24/11/2012	SL	13/11/2012	18/11/2012	JV	East Zone	JV

GeoSpark Logger Print Logs ~ DH Surveys

DataSet: RG_GF

Hole ID: RG12-10

Depth (m)	Survey Method	Grid ID	Dip	Orig Azimuth	Surv. Tool Azimuth	Magnetic Declination	Corrected Azimuth	Magnetics	Date Surveyed	Survey Instrument	Bad Reading	Comments
0	COLL	UTM10N_NAD83	-55	115			115		19/11/2012	CMP	☐	
83.82	EZ Shot	UTM10N_NAD83	-57.5	115	94.9	18	112.9		19/11/2012	EZ	☐	
144.78	EZ Shot	UTM10N_NAD83	-58	115	88.8	18	106.8		19/11/2012	EZ	☐	

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-10

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	0	6.1	Overburden	Overburden (OB)	

Alteration:	From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments

Minerals:	From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments

Veining:	From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:	From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	6.1	56.36	Medium Grained Syenite	Medium-grained syenite intrusive breccia (IMSY)	PlagAndBX that has been intr by later syen.Cem by mg sal-pnk syen with blocky kspar and diss bio.Clasts, CrsPx and, PlagAnd, or volss, 2cm to 20cm in size.Clasts are strg mag.Syen cem is wkly to mod mag.Cpy min found within syen.

Alteration:	From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
	6.1	56.36	Pot	Primary	S	Lim/Goe	OvPrnt	M	Hem	OvPrnt	M				Strong pervasive potassic alteration with blocky k feldspar, magnetite and disseminated biotite (within clasts). Moderate, fracture controlled goethite alteration. Moderate, fracture controlled hematite alteration.

Minerals:	From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
	6.1	56.36	Cpy	0.1	DIS	Py	0.1	DIS							Chalcopyrite disseminated within syenite cement. Pyrite disseminated and along fracture surfaces. Chalcopyrite 0.1%, Pyrite 0.1%

Veining:	From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
	6.1	56.36	Vcarb	n/a	0.5										Veining generally weak, comprised of carbonate veining.

Structure:	From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	56.36	69.72	Fine Grained Andesite	RG Fine Pyroxene Andesite Breccia clast-supp (VANAB)	Matrix is dominantly plag,feldspar. Clasts same comp. Matrix contains aggs of mass mag. Rare fingers of syen (less than 1/m, 2-3cm). Overall moderately magnetic. No visible chalcopyrite mineralization.

DataSet: RG_GF

Hole ID: RG12-10

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
56.36	69.72	Pot	Primary	M	Propy	OvPrnt	S							Moderate to strong potassic alteration with k feldspar flooding in select areas, pervasive and massive mag. Strong propylitic overprint with pervasive chloritized matrix, carbonate-chlorite veining.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
56.36	69.72	Py	0.25	DIS										No visible chalcopyrite mineralization. Pyrite weakly disseminated throughout and found on some fracture surfaces.Pyrite 0.25%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
56.36	69.72	Vcarb	±chl±kspar	0.5										Carbonate-chlorite veining. Rare carbonate veins with k feldspar haloes.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	69.72	79.04	Porphyritic Andesite	RG Hornblende-phyric andesite (IPAN)	Elongate, euh hbl phenos, 1-2mm, aph groundmass. Lower contact contains 0.2m of flt gouge. Single finger of syenite, 4cm. Weakly to moderately magnetic. No visible chalcopyrite mineralization.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
69.72	79.04	Pot	Primary	M	Propy	OvPrnt	W							Moderate potassic alteration with pervasive magnetite. Weak propylitic alteration with carbonate-chlorite veining.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
69.72	79.04	Py	0.1	DIS										No visible chalcopyrite mineralization. Pyrite weakly disseminated in select intervals. Pyrite 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
69.72	79.04	Vcarb	±chl	1										Carbonate-chlorite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
73.8	74	FLTG	M	60

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	79.04	82.3	Porphyritic Andesite	Fine plag-phyric andesite polymictic breccia (IFAN)	Select ints contain str alb alt. Silicified. Weakly magnetic in discreet intervals. Single finger of red-salmon syenite, 10cm, unmineralized. No visible chalcopyrite.

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-10

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
79.04	82.3	Propy	OvPrnt	VS	Alb	OvPrnt	VS							Intense pervasive propylitic alteration with pervasive chlorite and carbonate. Select intervals of intense albite alteration. Rare k feldspar flooding.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
79.04	82.3	Py	0.1	DIS										Pyrite weakly disseminated. Pyrite 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
79.04	82.3	Vcarb	n/a	1										Carbonate veining.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	82.3	93.61	Porphyritic Andesite	Fine plag-phyric andesite polymictic breccia (IFAN)	Clast supported, (over 30% clasts) plag-phyric and bx.Matrix is comp of plag, feldspar and chl. Clasts same comp w varying alt or of salm-pk syen. Upper cont has a sheared appearance. Mod mag. No visible cpy min.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
82.3	93.61	Pot	Primary	S	Propy	OvPrnt	M							Strong potassic alteration with magnetite, biotite and k feldspar. Moderate to strong propylitic alteration with pervasive chlorite and veined carbonate.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
82.3	93.61	Py	0.25	DIS										No visible chalcopyrite mineralization. Pyrite in rare aggregates and weakly disseminated. Pyrite 0.25%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
82.3	93.61	Vcarb	±chl±kspar											Carbonate-chlorite veining common. Carbonate veins with k feldspar haloes.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	93.61	106.39	Porphyritic Andesite	Fine plag-phyric andesite polymictic breccia (IFAN)	Matrix is plag, with rare vis 1mm phenos. Otherwise matrix is mass. Clasts are of same comp. Mod to str mag. Percentage of clasts increases towards lower contact, from ~10% to ~25%. No visible chalcopyrite mineralization.

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-10

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
93.61	106.39	Pot	Primary	S	Propy	OvPrnt	M							Strong pervasive potassic alteration with magnetite, biotite, and k feldspar flooding and vein haloes. Moderate pervasive propylitic alteration with chlorite and carbonate.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
93.61	106.39	Py	0.1	DIS										No visible chalcopyrite mineralization. Pyrite within some veins and weakly disseminated at select intervals. Pyrite 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
93.61	106.39	Vcarb	±chl±kspar	0.2	Vmag	±kspar±py	0.1							Carbonate-chlorite veining. Carbonate veins with k feldspar haloes. Rare magnetite-k feldspar ± pyrite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	106.39	109.23	Medium Grained Syenite	Medium-grained syenite intrusive breccia (IMSY)	Polymictic, unit appears to have been a PlagAndBx that has been intruded by later syen. Cem by med grained salm-pnk syen with blocky kspar and diss biot.Clasts are of plag and or volss. Str mag.No visible sulphides.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
106.39	109.23	Pot	Primary	VS	Propy	OvPrnt	W							Strong to intense potassic alteration with k feldspar and magnetite. Weak propylitic alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
106.39	109.23	Vcarb	n/an/a	1										Common carbonate veining.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	109.23	115.87	Porphyritic Andesite	Fine plag-phyric andesite polymictic breccia (IFAN)	Matrix supported. Matrix is plag, with rare visible 1mm phenos. Otherwise matrix is mass. Clasts are of same comp. Mod to str mag. Percentage of clasts incr towards lower contact, from ~10% to ~25%. No visible cpy mineralization.

DataSet: RG_GF

Hole ID: RG12-10

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
109.23	115.87	Pot	Primary	S	Propy	OvPrnt	M							Strong pervasive potassic alteration with magnetite, biotite, and k feldspar flooding and vein haloes. Moderate pervasive propylitic alteration with chlorite and carbonate.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
106.39	115.87	Py	0.1	DIS										No visible chalcopyrite mineralization. Pyrite within some veins and weakly disseminated at select intervals. Pyrite 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
109.23	115.87	Vcarb	±chl±kspar	0.5	Vmag	±py±kspar	0.1							Carbonate-chlorite veining. Carbonate veins with k feldspar haloes. Rare magnetite-k feldspar ± pyrite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	115.87	119.26	Porphyritic Andesite	RG Hornblende-phyric andesite (IPAN)	Elongate, euh hbl phenos, 1-2mm, aph groundmass. Lower contact contains 0.2m of fault gouge. Single finger of syenite, 4cm. Weakly to moderately magnetic. No visible chalcopyrite mineralization.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
115.87	119.26	Pot	Primary	M	Propy	OvPrnt	W							Moderate potassic alteration with pervasive magnetite. Weak propylitic alteration with carbonate-chlorite veining.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
115.87	119.26	Py	0.1	DIS										No visible chalcopyrite mineralization. Pyrite weakly disseminated in select intervals. Pyrite 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
115.87	119.26	Vcarb	±chl	0.5										Carbonate-chlorite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	119.26	134	Porphyritic Andesite	Fine plag-phyric andesite polymictic breccia (IFAN)	Matrix comp of plag, feldspar and chl. Plag phens up to 1mm. Clasts are comp of plag and, px and, hbl and or syen. Clasts 2cm to 10cm. Mag veined and in agg 1cm in size. Str pot alt with patchy propy alt. No visible cpy.

DataSet: RG_GF

Hole ID: RG12-10

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
119.26	134	Pot	Primary	S	Propy	OvPrnt	M							Strong pervasive potassic alteration with k feldspar and magnetite. Moderate patchy propylitic overprint with epidote, chlorite.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
119.26	134	Py	0.1	DIS										No visible chalcopyrite mineralization. Pyrite weakly disseminated in select intervals. Pyrite 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
119.26	134	Vep	±chl±py	0.5	Vmag	n/a	0.2							Epidote-chlorite±pyrite veins. Magnetite veins. Carbonate ± k feldspar veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	134	142.94	Porphyritic Andesite	Fine plag-phyric andesite polymictic breccia (IFAN)	Matrix composed of plag, feldspar and chl. Plag phenos up to 1mm in size. Clasts plag and, px and, hbl and or syen. Clasts 2cm to 10cm. Mod pot alt with strong patchy propy alteration. No visible chalcopyrite mineralization.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
134	142.94	Propy	OvPrnt	S	Pot	Primary	M							Strong patchy propylitic overprint with epidote, chlorite and pyrite. Moderate pervasive potassic alteration with k feldspar and magnetite.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
134	142.94	Py	0.25	DIS										No visible chalcopyrite mineralization. Pyrite disseminated. Pyrite 0.25%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
134	142.94	Vep	±chl	0.5	Vmag		0.2							Epidote-chlorite veins. Magnetite veins. Carbonate ± k feldspar veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	142.94	146.94	Porphyritic Andesite	Fine plag-phyric andesite polymictic breccia (IFAN)	Matrix plag, feldsp and chl.Plag phenos up to 1mm in size. Clasts are comp of plag and, px and, hbl and or syen. Clasts 2cm to 10cm in size. Mod magnetic. Single visible aggregate of chalcopyrite within carbonate-k feldspar vein.

DataSet: RG_GF

Hole ID: RG12-10

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
142.94	146.65	Pot	Primary	S	Propy	OvPrnt	M							Strong pervasive potassic alteration with k feldspar flooding and veins; disseminated magnetite. Moderate patchy propylitic overprint with epidote, chlorite.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
142.94	146.65	Cpy	0.1	AGG	Py	0.1	DIS							Chalcopyrite in single visible aggregate, 5mm. Pyrite weakly disseminated throughout. Chalcopyrite 0.1%, Pyrite 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
142.94	149.65	Vcarb	±cpy±kspar	0.1										Epidote-chlorite ± carbonate veins. Carbonate ± k feldspar veins, one of which contains chalcopyrite.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	146.94	179.4	Porphyritic Andesite	Fine plag-phyric andesite polymictic breccia (IFAN)	Matrix composed of plag, feld and chl. Plag pheno 1mm. Clasts are comp of plag and, px and, hbl and or syen. Clasts 2cm to 10cm. Mass mag in patches up to 2cm. Mod to str mag throughout. No vis cpy mineralization.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
146.65	179.4	Pot	Primary	S	Propy	OvPrnt	M							Strong potassic alteration with k feldspar and magnetite. Moderate to strong patchy propylitic alteration with chlorite, epidote, carbonate and pyrite.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
146.65	179.4	Py	0.25	DIS										Pyrite 0.25%, disseminated

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
149.65	179.4	Vep	±chl	1	Vmag		0.2							Epidote-chlorite veins. Magnetite veins. Carbonate ± k feldspar

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	179.4	192.56	Medium Grained Syenite	Medium-grained syenite intrusive breccia (IMSY)	Polymictic. Cem by mg salm-pnk syen with blcky kspar and dis biot. Clasts plag and or volss. Strongly magnetic, contains both massive and veined magnetite. Mineralized.

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-10

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
179.4	192.56	Pot	Primary	S	Propy	OvPrnt	S							Strong pervasive potassic alteration with k feldspar, magnetite and biotite. Strong patchy propylitic overprint that increases to intense in select intervals with epidote, chlorite, carbonate and pyrite.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
179.4	192.56	Cpy	0.25	AGG	Py	0.25	DIS							Chalcopyrite in small (1-2mm) aggregates throughout as well as weakly disseminated. Pyrite disseminated. Chalcopyrite 0.25%, Pyrite 0.25

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
179.4	192.56	Vcarb	n/a	1	Vmag		0.1							Carbonate veining common. Chlorite-clay veining. Minor magnetite veins (less than 1/m)

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	192.56	202.69	Porphyritic Andesite	Coarse Plagioclase-phyric Andesite Dyke (IPAN)	Subrounded kspar phenos 2-5mm. Groundmass is fg, dark pnk-red, aph. Alt dominantly pot to str propylitic. Contacts between alteration zones are sharp. Very weakly magnetic in select intervals. Unmineralized.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
192.56	202.69	Pot	Primary	S	Propy	OvPrnt	S							Strong potassic alteration with k feldspar and minor magnetite. Strong propylitic alteration in select intervals with chlorite, epidote and carbonate.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
192.56	202.69	UnMin	0											No sulphide mineralization

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
192.56	202.69	Vcarb	n/a	0.2										Minor carbonate veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

DataSet: RG_GF

Hole ID: RG12-10

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	Comments
6.1	7.62	1.52	1.27	83.55	
7.62	10.67	3.05	2.91	95.41	
10.67	13.72	3.05	2.99	98.03	
13.72	16.76	3.04	3	98.68	
16.76	19.81	3.05	2.73	89.51	
19.81	22.86	3.05	3.14	102.95	
22.86	25.91	3.05	2.87	94.1	
25.91	28.96	3.05	2.92	95.74	
28.96	32	3.04	2.96	97.37	
32	35.05	3.05	1.9	62.3	
35.05	38.1	3.05	2.92	95.74	
38.1	41.15	3.05	2.78	91.15	
41.15	44.2	3.05	2.68	87.87	
44.2	47.24	3.04	2.8	92.11	
47.24	50.29	3.05	2.98	97.7	
50.29	52.43	2.14	2.21	103.27	
52.43	54.86	2.43	2.07	85.19	
54.86	56.39	1.53	1.61	105.23	
56.39	58.52	2.13	1.99	93.43	
58.52	59.44	0.92	0.99	107.61	
59.44	62.48	3.04	2.98	98.03	
62.48	65.53	3.05	3.01	98.69	
65.53	68.58	3.05	3.03	99.34	
68.58	71.63	3.05	3.05	100	
71.63	74.68	3.05	2.83	92.79	
74.68	77.72	3.04	3	98.68	
77.72	80.77	3.05	3.02	99.02	
80.77	83.82	3.05	2.96	97.05	
83.82	86.87	3.05	2.98	97.7	
86.87	89.92	3.05	3.07	100.66	
89.92	92.96	3.04	3.02	99.34	
92.96	96.01	3.05	3.01	98.69	
96.01	99.06	3.05	2.94	96.39	
99.06	102.11	3.05	3.04	99.67	
102.11	105.16	3.05	2.98	97.7	
105.16	108.2	3.04	2.99	98.36	
108.2	110.03	1.83	1.8	98.36	
110.03	111.25	1.22	1.17	95.9	
111.25	114.3	3.05	2.98	97.7	
114.3	117.35	3.05	3.05	100	
117.35	120.4	3.05	2.98	97.7	
120.4	121.92	1.52	1.5	98.68	
121.92	123.44	1.52	1.5	98.68	
123.44	126.49	3.05	2.89	94.75	
126.49	129.54	3.05	3.08	100.98	
129.54	132.59	3.05	2.94	96.39	
132.59	135.64	3.05	2.98	97.7	
135.64	138.68	3.04	2.92	96.05	
138.68	141.73	3.05	2.9	95.08	
141.73	144.78	3.05	2.98	97.7	
144.78	147.83	3.05	3	98.36	
147.83	150.88	3.05	3.1	101.64	
150.88	153.92	3.04	2.91	95.72	
153.92	156.97	3.05	2.92	95.74	
156.97	160.02	3.05	2.96	97.05	
160.02	163.07	3.05	3.06	100.33	
163.07	166.12	3.05	3.03	99.34	
166.12	167.34	1.22	1.06	86.89	
167.34	169.16	1.82	1.9	104.4	

Hole ID: **RG12-10**

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	Comments
169.16	172.21	3.05	3.05	100	
172.21	175.26	3.05	2.91	95.41	
175.26	178.31	3.05	3.06	100.33	
178.31	180.83	2.52	2.23	88.49	
180.83	181.36	0.53	0.47	88.68	
181.36	182.58	1.22	0.97	79.51	
182.58	183.79	1.21	1.25	103.31	
183.79	184.4	0.61	0.56	91.8	
184.4	187.45	3.05	2.97	97.38	
187.45	190.5	3.05	3.12	102.3	
190.5	193.55	3.05	3.05	100	
193.55	196.6	3.05	2.93	96.07	
196.6	199.64	3.04	3.03	99.67	
199.64	202.69	3.05	3.02	99.02	EOH

GeoSpark Logger Print Logs ~ Geotech Domains

DataSet: RG_GF

Hole ID: RG12-10

From (m)	To (m)	Interval Length	Natural Break Count	RQD (m)	RQD %	Domain Type	Rock Strength	Discont. Type 1	Discont. CA	Rough	Infill Type	Infill Thicknes	Discont. Type 2	Discont. CA	Rough	Infill Type	Infill Thicknes	Comments
6.1	56.36	50.26	564	26.84	53.4	LithChg	MS	vei	55	rap	sof	t<1						
56.36	69.72	13.36	56	7.67	57.41	LithChg	S	vei	52	smp	sof	t<1						
69.72	74.04	4.32	73	1.41	32.64	LithChg	MS	joi	72	rap	non	t<1						
74.04	82.3	8.26	57	6.25	75.67	LithChg	VS	vei	79	smp	non	t<1						
82.3	93.61	11.31	86	5.16	45.62	AltChg	S	vei	30	rap	non	t<5						
93.61	106.39	12.78	128	9.06	70.89	LithChg	S	vei	35	rap	sli	t<5						
106.39	109.23	2.84	39	1.13	39.79	LithChg	MS	joi	50	rau	sli	t<1						
109.23	115.87	6.64	64	4.14	62.35	LithChg	S	vei	50	smp	non	t<5						
115.87	119.26	3.39	30	2.13	62.83	LithChg	MS	vei	51	rap	non	t<1						
119.26	134	14.74	103	10.84	73.54	LithChg	S	vei	55	smp	non	t<1						
134	142.94	8.94	169	4.36	48.77	AltChg	VS	vei	50	rap	non	t<1						
142.94	146.65	3.71	30	2.35	63.34	LithAltChg	VS	vei	46	smp	non	t<1						
146.65	172.4	25.75	233	17.19	66.76	AltChg	S	vei	50	rap	non	t<1						
172.4	183.14	10.74	172	4.9	45.62	AltChg	S	vei	32	rap	non	t<1						
183.14	192.56	9.42	101	6.34	67.3	LithChg	S	vei	50	rap	non	t<1						
192.56	202.69	10.13	112	6.83	67.42	LithChg	S	vei	53	rap	non	t<1						

GeoSpark Logger Print Logs ~ Mag Susceptibility

DataSet: RG_GF

Hole ID: RG12-10

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
6.1	8	1.9	87.21	14.6	73.51	58.44		DJ	17/11/2012	
8	10	2	26.21	58.47	70.84	51.84		DJ	17/11/2012	
10	12	2	28.43	21.29	80.12	43.28		DJ	17/11/2012	
12	14	2	61.67	2.884	10.08	24.878		DJ	17/11/2012	
14	16	2	7.038	23.66	21.96	17.553		DJ	17/11/2012	
16	18	2	28.74	84.83	58.85	57.473		DJ	17/11/2012	
18	20	2	77.86	69.86	72.35	73.357		DJ	17/11/2012	
20	22	2	67.61	91.44	76.12	78.39		DJ	17/11/2012	
22	24	2	78.24	13.49	85.1	58.943		DJ	17/11/2012	
24	26	2	106.8	56.7	46.01	69.837		DJ	17/11/2012	
26	28	2	52.57	72.7	65.25	63.507		DJ	17/11/2012	
28	30	2	46.41	55.88	66.15	56.147		DJ	17/11/2012	
30	32	2	100.2	55.91	32.46	62.857		DJ	17/11/2012	
32	34	2	30.14	15.08	77.1	40.773		DJ	17/11/2012	
34	36	2	10.11	15.34	7.01	10.82		DJ	17/11/2012	
36	38	2	22.44	40.25	32	31.563		DJ	17/11/2012	
38	40	2	65.96	52.01	56.9	58.29		DJ	17/11/2012	
40	42	2	18.57	106.9	3.71	43.06		DJ	17/11/2012	
42	44	2	1.32	42.45	100.8	48.19		DJ	17/11/2012	
44	46	2	74.02	67.4	15.76	52.393		DJ	17/11/2012	
46	48	2	78.43	67.98	34.88	60.43		DJ	17/11/2012	
48	50	2	16.44	23.36	2.45	14.083		DJ	17/11/2012	
50	52	2	32.6	39.61	0.98	24.397		DJ	17/11/2012	
52	54	2	9.08	37.49	2.29	16.287		DJ	17/11/2012	
54	55	1	4.48	6.05	3.25	4.593		DJ	17/11/2012	
55	56.36	1.36	41.25	62.68	46.99	50.307		DJ	17/11/2012	
56.36	58	1.64	90.56	7.71	16.99	38.42		DJ	17/11/2012	
58	60	2	45.98	67.08	23.44	45.5		DJ	17/11/2012	
60	62	2	66.45	16.87	13.22	32.18		DJ	17/11/2012	
62	64	2	74.66	40.92	84.44	66.673		DJ	17/11/2012	
64	66	2	24.7	50.22	5.53	26.817		DJ	17/11/2012	
66	68	2	36.11	27.64	25.29	29.68		DJ	17/11/2012	
68	69.72	1.72	38.12	41.42	80.81	53.45		DJ	17/11/2012	
69.72	72	2.28	61.37	48.23	20.56	43.387				
72	74.09	2.09	56.96	50.07	48.88	51.97		DJ	17/11/2012	
74.09	76	1.91	7.91	12.24	9.88	10.01		DJ	17/11/2012	
76	78	2	49.16	1.33	7.24	19.243		DJ	17/11/2012	

Hole ID: **RG12-10**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
78	80	2	2.33	15.76	9.56	9.217		DJ	17/11/2012	
80	82.3	2.3	0.38	1.34	28.55	10.09		DJ	17/11/2012	
82.3	84	1.7	7.44	11.6	29.16	16.067		DJ	17/11/2012	
84	86	2	56.72	44.4	53.05	51.39		DJ	17/11/2012	
86	88	2	88.44	87.95	115.4	97.263		DJ	17/11/2012	
88	90	2	45.12	26.81	84.93	52.287		DJ	17/11/2012	
90	92	2	47.77	79.33	52.65	59.917		DJ	17/11/2012	
92	93.51	1.51	73.82	89	65.87	76.23		DJ	17/11/2012	
93.51	95	1.49	78.3	74.36	86.98	79.88		DJ	17/11/2012	
95	97	2	75.36	79.43	47.79	67.527		DJ	17/11/2012	
97	99	2	58.51	65.88	23.89	49.427		DJ	17/11/2012	
99	101	2	65.46	23.99	98.78	62.743		DJ	17/11/2012	
101	103	2	86.24	41.35	56.05	61.213		DJ	17/11/2012	
103	105	2	51.31	45.88	68.87	55.353		DJ	17/11/2012	
105	106.39	1.39	48.35	26.59	56.9	43.947		DJ	17/11/2012	
106.39	108	1.61	36.79	78.55	21.98	45.773		DJ	17/11/2012	
108	109.23	1.23	39.27	72.41	24.09	45.257		DJ	17/11/2012	
109.23	111	1.77	104.2	115.6	103.44	107.747		DJ	17/11/2012	
111	113	2	94.18	105.3	93.55	97.677		DJ	17/11/2012	
113	114	1	103.2	119.9	87.5	103.533		DJ	17/11/2012	
114	115.87	1.87	83.81	87.98	91.22	87.67		DJ	17/11/2012	
115.87	118	2.13	50.35	39.73	30.6	40.227		DJ	18/11/2012	
118	119.26	1.26	42.54	11.31	37.26	30.37		DJ	18/11/2012	
119.26	121	1.74	25.3	22.16	27.37	24.943		DJ	18/11/2012	
121	123	2	31.38	48.18	49.57	43.043		DJ	18/11/2012	
123	125	2	43.89	41.43	50.33	45.217		DJ	18/11/2012	
125	127	2	61.09	32.43	45.83	46.45		DJ	18/11/2012	
127	129	2	44.18	27.14	53.81	41.71		DJ	18/11/2012	
129	131	2	32.75	45	36.83	38.193		DJ	18/11/2012	
131	133	2	33.48	30.08	44.47	36.01		DJ	18/11/2012	
133	134	1	15.69	28.22	18.49	20.8		DJ	18/11/2012	
134	136	2	180.9	82.47	64.72	109.363		DJ	18/11/2012	
136	138	2	88.69	64.1	10.9	54.563		DJ	18/11/2012	
138	140	2	10.05	20.71	11.22	13.993		DJ	18/11/2012	
140	142	2	30.26	22.86	15.6	22.907		DJ	18/11/2012	
142	143	1	24.73	10.72	9.495	14.982		DJ	18/11/2012	
143	145	2	13.08	4.025	4.715	7.273		DJ	18/11/2012	
145	146.65	1.65	29.85	41.39	12.45	27.897		DJ	18/11/2012	
146.65	148	1.35	63.69	37.86	38.49	46.68		DJ	18/11/2012	

Hole ID: **RG12-10**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
148	150	2	20.5	20.69	22.1	21.097		DJ	18/11/2012	
150	152	2	15.24	7.128	56.16	26.176		DJ	18/11/2012	
152	154	2	10.81	7.258	21.31	13.126		DJ	18/11/2012	
154	156	2	28.6	36.36	22.25	29.07		DJ	18/11/2012	
156	158	2	22.9	28.71	32.06	27.89		DJ	18/11/2012	
158	160	2	25.32	45.52	29.28	33.373		DJ	18/11/2012	
160	162	2	15.28	23.54	27.27	22.03		DJ	18/11/2012	
162	164	2	21.39	19.43	14.94	18.587		DJ	18/11/2012	
164	166	2	14.85	4.435	27.26	15.515		DJ	18/11/2012	
166	168	2	14.85	2.947	68.22	28.672		DJ	18/11/2012	
168	170	2	81.55	88.9	20.8	63.75		DJ	18/11/2012	
170	171	1	26.65	30.52	34.24	30.47		DJ	18/11/2012	
171	172.4	1.4	24.65	38.18	26.09	29.64		DJ	18/11/2012	
172.4	174	1.6	40.13	25.67	172	79.267		DJ	18/11/2012	
174	176	2	52.6	170.3	14.17	79.023		DJ	18/11/2012	
176	178	2	6.966	59.35	88.52	51.612		DJ	18/11/2012	
178	180	2	7.067	50.22	2.299	19.862		DJ	18/11/2012	
180	182	2	3.581	1.146	8.665	4.464		DJ	18/11/2012	
182	183.14	1.14	15.62	20.51	29.42	21.85		DJ	18/11/2012	
183.14	185	1.86	13.7	46.12	4.691	21.504		DJ	18/11/2012	
185	187	2	13.37	8.74	21.17	14.427		DJ	18/11/2012	
187	189	2	24.28	45.38	77.99	49.217		DJ	18/11/2012	
189	191	2	48.72	23.48	5.828	26.009		DJ	18/11/2012	
191	192.56	1.56	8.207	10.86	2.507	7.191		DJ	18/11/2012	
192.56	194	1.44	28.67	26.28	29.98	28.31		DJ	18/11/2012	
194	196	2	26.79	17.48	23.44	22.57		DJ	18/11/2012	
196	198	2	28.07	28.61	23.76	26.813		DJ	18/11/2012	
198	200	2	21.98	18.6	13.93	18.17		DJ	18/11/2012	
200	201	1	12.31	0.656	12.03	8.332		DJ	18/11/2012	
201	202.69	1.69	16.91	13.03	0.486	10.142		DJ	18/11/2012	EOH

GeoSpark Logger Print Logs ~ Specific Gravity

DataSet: RG_GF

Hole ID: RG12-10

From (m)	To (m)	Sample ID	Sample Type	SG Method	Weight Dry (g)	Weight Wet (g)	Bulk Density	Lithology GF Code	Local Lith Code	Alt 1 Code	Alt Interp	Alt Int	Sulph. %	Date Sampled	Sampled By	Comments
31.85	31.97	P385414	WC	MEAS	571.9	360.8	2.71	IMSY	MedSyen_IBX	Pot	Primary	S	0.1	17/11/2012	DJ	
55.7	55.85	P385429	WC	MEAS	654.6	402.4	2.6	IMSY	MedSyen_IBX	Pot	Primary	S	0.1	17/11/2012	DJ	
81.39	81.59	P385444	WC	MEAS	973.5	606.9	2.66	IPAN	FnPlagAnd_PBX	Propy	OvPrnt	VS	0.1	17/11/2012	DJ	
106.63	106.75	P385461	WC	MEAS	551.4	342.9	2.64	IMSY	MedSyen_IBX	Pot	Primary	VS	0	17/11/2012	DJ	
131.04	131.2	P385476	WC	MEAS	860.1	553.3	2.8	IPAN	FnPlagAnd_PBX	Pot	Primary	S	0.1	18/11/2012	DJ	
156.51	156.66	P385493	WC	MEAS	781.9	499.2	2.77	IPAN	FnPlagAnd_PBX	Pot	Primary	S	0	18/11/2012	DJ	
181.14	181.28	P377507	WC	MEAS	805.5	517.5	2.8	IPAN	FnPlagAnd_PBX	Propy	OvPrnt	VS	0.25	18/11/2012	DJ	EOH

GeoSpark Logger Print Logs ~ Specterra Data

DataSet: RG_GF

Hole ID: RG12-10

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
6.1	8	P385401	2	walt	OH+H20 (1400nm)	1	1418	2		3					
					H20 (1900nm)	1	1912	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2251	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
Collection Comments:															
Interp Comments:															
Doublet/Triplet Comments															
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
8	10	P385402	1	walt	OH+H20 (1400nm)	1	1414	2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2255	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
Collection Comments:															
Interp Comments:															
Doublet/Triplet Comments															
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
10	12	P385403	1	bxcmt	OH+H20 (1400nm)	1	1427	2		3						
					H20 (1900nm)	1	1915	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2324	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
12	14	P385404	1	walt	OH+H20 (1400nm)	1	1428	2		3						
					H20 (1900nm)	1	1915	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
14	16	P385405	2	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1909	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2253	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
16	18	P385406	1	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1909	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2251	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
18	20	P385407	1	walt	OH+H20 (1400nm)	1	1428	2		3	
					H20 (1900nm)	1	1915	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
20	22	P385408	0	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1	1914	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:
syenite

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
22	24	P385409	1	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					

Collection Comments: syenite

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
24	26	P385411	1	walt	OH+H20 (1400nm)	1	1396	2		3					
					H20 (1900nm)	1	1908	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
26	28	P385412	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1914	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
28	30	P385413	3	frac	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1909	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Lots of Fe

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
30	32	P385414	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1916	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	
32	34	P385415	1	walt	OH+H20 (1400nm)	1	1396	2		3				
					H20 (1900nm)	1	1916	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	

Collection Comments:
dark colored rocks

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
34	36	P385416	1	walt	OH+H20 (1400nm)	1	1396	2		3					
					H20 (1900nm)	1	1908	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
36	38	P385417	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
38	40	P385418	0	walt	OH+H20 (1400nm)	1	1411	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
40	42	P385419	1	walt	OH+H20 (1400nm)	1	1399	2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
42	44	P385421	1	walt	OH+H20 (1400nm)	1	1411	2		3					
					H20 (1900nm)	1	1912	2		3					
					Al-OH (2200nm)	1	2207	2		3					
					Fe-OH (2250nm)	1	2252	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
44	46	P385422	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1		2		3					
					Al-OH (2200nm)	1	2207	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
46	48	P385423	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1915	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	
48	50	P385424	1	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
50	52	P385425	1	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☑ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
52	54	P385426	0	walt	OH+H20 (1400nm)	1	1410	2		3					
					H20 (1900nm)	1	1909	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
54	55	P385428	1	walt	OH+H20 (1400nm)	1	1396	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2350	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☑ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
55	56.36	P385429	1	walt	OH+H20 (1400nm)	1	1409	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☑ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
56.36	58	P385431	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1915	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
58	60	P385432	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1915	2		3				
					Al-OH (2200nm)	1	2214	2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:
wet?

Interp Comments:
Very noisy

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
60	62	P385433	1	walt	OH+H20 (1400nm)	1	1426	2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
62	64	P385434	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
64	66	P385435	1	walt	OH+H20 (1400nm)	1	1478	2		3	
					H20 (1900nm)	1	1915	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2236	2	2286	3	
					Mg-OH (2350nm)	1	2351	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
66	68	P385436	1	walt	OH+H20 (1400nm)	1	1415	2		3	
					H20 (1900nm)	1	1913	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2350	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
68	69.72	P385437	1	walt	OH+H20 (1400nm)	1	1413	2		3	
					H20 (1900nm)	1	1916	2		3	
					Al-OH (2200nm)	1	2207	2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2343	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
69.72	72	P385438	1	walt	OH+H20 (1400nm)	1	1476	2		3	
					H20 (1900nm)	1	1914	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2357	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
72	74.09	P385439	1	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1906	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
74.09	76	P385441	1	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1910	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
76	78	P385442	1	walt	OH+H20 (1400nm)	1	1414	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
78	80	P385443	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1		2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
80	82.3	P385444	1	walt	OH+H20 (1400nm)	1	1411	2		3				
					H20 (1900nm)	1	1923	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2350	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
82.3	84	P385445	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1915	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
84	86	P385446	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1924	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
86	88	P385447	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1916	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
88	90	P385448	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
90	92	P385449	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
92	93.61	P385451	0	walt	OH+H20 (1400nm)	1	1416	2		3						
					H20 (1900nm)	1	1923	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
93.61	95	P385452	0	walt	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1	1923	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
95	97	P385453	0	walt	OH+H20 (1400nm)	1	1409	2		3					
					H20 (1900nm)	1	1923	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
97	99	P385454	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1		2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:
No data

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
99	101	P385456	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1932	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2244	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
101	103	P385457	1	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1	2206	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2349	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
103	105	P385458	1	walt	OH+H20 (1400nm)	1	1414	2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2336	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
105	106.39	P385459	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
106.39	108	P385461	1	walt	OH+H20 (1400nm)	1	1428	2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2343	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
108	109.23	P385462	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1		2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:
109.23	111	P385463	0	walt	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

	1	2	3
OH+H20 (1400nm)			
H20 (1900nm)			
Al-OH (2200nm)			
Fe-OH (2250nm)			
Mg-OH (2350nm)			
Other (nm)			

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:
111	113	P385464	0	walt	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

	1	2	3
OH+H20 (1400nm)			
H20 (1900nm)			
Al-OH (2200nm)			
Fe-OH (2250nm)			
Mg-OH (2350nm)			
Other (nm)			

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
113	114	P385465	0	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1	1915	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
114	115.87	P385466	0	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1		2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:
no data

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
115.87	118	P385467	1	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1915	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
118	119.26	P385468	2	walt	OH+H20 (1400nm)	1	1477	2		3				
					H20 (1900nm)	1	1910	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2237	2	2283	3				
					Mg-OH (2350nm)	1	2358	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
119.26	121	P385469	0	vn	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1964	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
121	123	P385471	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
123	125	P385472	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
125	127	P385473	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
127	129	P385474	0	walt	OH+H20 (1400nm)	1	1477	2		3				
					H20 (1900nm)	1	1924	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
129	131	P385475	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
131	133	P385476	1	BxClast	OH+H20 (1400nm)	1	1472	2	1930	3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2344	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
133	134	P385477	1	walt	OH+H20 (1400nm)	1	1412	2	1478	3				
					H20 (1900nm)	1	1915	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2357	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
134	136	P385478	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1938	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2250	2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
136	138	P385479	0	walt	OH+H20 (1400nm)	1	1410	2		3				
					H20 (1900nm)	1	1957	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2349	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
138	140	P385481	1	walt	OH+H20 (1400nm)	1	1478	2		3						
					H20 (1900nm)	1	1924	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2357	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
140	142	P385482	2	walt	OH+H20 (1400nm)	1	1451	2		3						
					H20 (1900nm)	1	1932	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
142	143	P385484	1	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1	2219	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
143	145	P385485	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
145	146.65	P385486	1	bxcmt	OH+H20 (1400nm)	1	1411	2		3					
Collection Comments:					H20 (1900nm)	1	1913	2		3					
					Al-OH (2200nm)	1	2206	2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2349	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☑ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
146.65	148	P385487	2	walt	OH+H20 (1400nm)	1	1411	2		3					
Collection Comments:					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
148	150	P385488	0	walt	OH+H20 (1400nm)	1	1399	2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
150	152	P385489	1	walt	OH+H20 (1400nm)	1	1410	2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1	2206	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
152	154	P385491	1	walt	OH+H20 (1400nm)	1	1397	2		3					
					H20 (1900nm)	1	1923	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2330	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
154	156	P385492	1	walt	OH+H20 (1400nm)	1	1399	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2330	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
156	158	P385493	0	walt	OH+H20 (1400nm)	1	1406	2		3					
					H20 (1900nm)	1		2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2330	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
158	160	P385494	0	walt	OH+H20 (1400nm)	1	1397	2		3					
					H20 (1900nm)	1		2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
160	162	P385495	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
162	164	P385496	1	walt	OH+H20 (1400nm)	1	1397	2		3				
					H20 (1900nm)	1	1923	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
164	166	P385497	0	walt	OH+H20 (1400nm)	1	1409	2		3				
					H20 (1900nm)	1	1940	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
166	168	P385498	2	walt	OH+H20 (1400nm)	1	1476	2		3				
					H20 (1900nm)	1	1924	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
168	170	P385499	1	walt	OH+H20 (1400nm)	1	1411	2		3	
					H20 (1900nm)	1	1915	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2230	2		3	
					Mg-OH (2350nm)	1	2351	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
170	171	P377501	0	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1		2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
171	172.4	P377502	1	walt	OH+H20 (1400nm)	1	1410	2		3					
Collection Comments:					H20 (1900nm)	1	1957	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2342	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
172.4	174	P377503	1	walt	OH+H20 (1400nm)	1	1413	2		3					
Collection Comments:					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
174	176	P377504	1	walt	OH+H20 (1400nm)	1		2		3					
Collection Comments:					H20 (1900nm)	1	1913	2		3					
					Al-OH (2200nm)	1	2200	2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2343	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
176	178	P377505	1	walt	OH+H20 (1400nm)	1		2		3					
Collection Comments:					H20 (1900nm)	1	1923	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
178	180	P377506	1	walt	OH+H20 (1400nm)	1		2		3					
Collection Comments:					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2339	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☑ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
180	182	P377507	2	walt	OH+H20 (1400nm)	1	1409	2		3					
Collection Comments:					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1	2256	2		3					
					Mg-OH (2350nm)	1	2351	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
182	183.14	P377508	1	walt	OH+H20 (1400nm)	1	1408	2		3	
					H20 (1900nm)	1	1910	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2330	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
183.14	185	P377509		walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1		2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:
no data

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
185	187	P377512	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2251	2		3					
					Mg-OH (2350nm)	1	2344	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
187	189	P377513	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2352	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
189	191	P377514	1	walt	OH+H20 (1400nm)	1	1429	2		3	
					H20 (1900nm)	1	1921	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2236	2		3	
					Mg-OH (2350nm)	1	2357	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
191	192.56	P377515	1	walt	OH+H20 (1400nm)	1	1428	2		3	
					H20 (1900nm)	1	1917	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
192.56	194	P377516	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
194	196	P377517	3	walt	OH+H20 (1400nm)	1	1400	2		3				
					H20 (1900nm)	1	1921	2		3				
					Al-OH (2200nm)	1	2206	2		3				
					Fe-OH (2250nm)	1	2252	2		3				
					Mg-OH (2350nm)	1	2329	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
196	198	P377518	1	walt	OH+H20 (1400nm)	1	1401	2		3	
					H20 (1900nm)	1	1923	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2252	2		3	
					Mg-OH (2350nm)	1	2339	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
198	200	P377519	0	walt	OH+H20 (1400nm)	1	1412	2		3	
					H20 (1900nm)	1	1924	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2343	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-10**

From (m)	To (m)	Sample	Spectra Quality	Sample Material
200	202.69	P377521	1	walt

Features:

OH+H20 (1400nm)	1	1398	2		3	
H20 (1900nm)	1	1923	2		3	
Al-OH (2200nm)	1	2208	2		3	
Fe-OH (2250nm)	1	2250	2		3	
Mg-OH (2350nm)	1	2325	2		3	
Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

GeoSpark Logger Print Logs ~ DH Samples

DataSet: RG_GF

Hole ID: RG12-10

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
6.1	8	P385401	HC	DJ	☐	
8	10	P385402	HC	DJ	☐	
10	12	P385403	HC	DJ	☐	
12	14	P385404	HC	DJ	☐	
14	16	P385405	HC	DJ	☐	
16	18	P385406	HC	DJ	☐	
18	20	P385407	HC	DJ	☐	
20	22	P385408	HC	DJ	☐	
22	24	P385409	HC	DJ	☐	
24	26	P385411	HC	DJ	☐	
26	28	P385412	HC	DJ	☐	
28	30	P385413	HC	DJ	☐	
30	32	P385414	HC	DJ	☐	
32	34	P385415	HC	DJ	☐	
34	36	P385416	HC	DJ	☐	
36	38	P385417	HC	DJ	☐	
38	40	P385418	HC	DJ	☐	
40	42	P385419	HC	DJ	☐	
42	44	P385421	HC	DJ	☐	
44	46	P385422	HC	DJ	☐	
46	48	P385423	HC	DJ	☐	
48	50	P385424	HC	DJ	☐	
50	52	P385425	HC	DJ	☐	
52	54	P385426	HC	DJ	☑	
54	55	P385428	HC	DJ	☐	
55	56.36	P385429	HC	DJ	☐	
56.36	58	P385431	HC	DJ	☐	
58	60	P385432	HC	DJ	☐	
60	62	P385433	HC	DJ	☐	
62	64	P385434	HC	DJ	☐	
64	66	P385435	HC	DJ	☐	
66	68	P385436	HC	DJ	☐	
68	69.72	P385437	HC	DJ	☐	
69.72	72	P385438	HC	DJ	☐	
72	74.09	P385439	HC	DJ	☐	
74.09	76	P385441	HC	DJ	☐	
76	78	P385442	HC	DJ	☐	

GeoSpark Logger Print Logs ~ DH Samples

Hole ID: **RG12-10**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
78	80	P385443	HC	DJ	☐	
80	82.3	P385444	HC	DJ	☐	
82.3	84	P385445	HC	DJ	☐	
84	86	P385446	HC	DJ	☐	
86	88	P385447	HC	DJ	☐	
88	90	P385448	HC	DJ	☐	
90	92	P385449	HC	DJ	☐	
92	93.61	P385451	HC	DJ	☐	
93.61	95	P385452	HC	DJ	☐	
95	97	P385453	HC	DJ	☐	
97	99	P385454	HC	DJ	☑	
99	101	P385456	HC	DJ	☐	
101	103	P385457	HC	DJ	☐	
103	105	P385458	HC	DJ	☐	
105	106.39	P385459	HC	DJ	☐	
106.39	108	P385461	HC	DJ	☐	
108	109.23	P385462	HC	DJ	☐	
109.23	111	P385463	HC	DJ	☐	
111	113	P385464	HC	DJ	☐	
113	114	P385465	HC	DJ	☐	
114	115.87	P385466	HC	DJ	☐	
115.87	118	P385467	HC	DJ	☐	
118	119.26	P385468	HC	DJ	☐	
119.26	121	P385469	HC	DJ	☐	
121	123	P385471	HC	DJ	☐	
123	125	P385472	HC	DJ	☐	
125	127	P385473	HC	DJ	☐	
127	129	P385474	HC	DJ	☐	
129	131	P385475	HC	DJ	☐	
131	133	P385476	HC	DJ	☐	
133	134	P385477	HC	DJ	☐	
134	136	P385478	HC	DJ	☐	
136	138	P385479	HC	DJ	☐	
138	140	P385481	HC	DJ	☐	
140	142	P385482	HC	DJ	☑	
142	143	P385484	HC	DJ	☐	
143	145	P385485	HC	DJ	☐	
145	146.65	P385486	HC	DJ	☐	
146.65	148	P385487	HC	DJ	☐	

GeoSpark Logger Print Logs ~ DH Samples

Hole ID: **RG12-10**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
148	150	P385488	HC	DJ	☐	
150	152	P385489	HC	DJ	☐	
152	154	P385491	HC	DJ	☐	
154	156	P385492	HC	DJ	☐	
156	158	P385493	HC	DJ	☐	
158	160	P385494	HC	DJ	☐	
160	162	P385495	HC	DJ	☐	
162	164	P385496	HC	DJ	☐	
164	166	P385497	HC	DJ	☐	
166	168	P385498	HC	DJ	☐	
168	170	P385499	HC	DJ	☐	
170	171	P377501	HC	DJ	☐	
171	172.4	P377502	HC	DJ	☐	
172.4	174	P377503	HC	DJ	☐	
174	176	P377504	HC	DJ	☐	
176	178	P377505	HC	DJ	☐	
178	180	P377506	HC	DJ	☐	
180	182	P377507	HC	DJ	☐	
182	183.14	P377508	HC	DJ	☐	
183.14	185	P377509	HC	DJ	☑	
185	187	P377512	HC	DJ	☐	
187	189	P377513	HC	DJ	☐	
189	191	P377514	HC	DJ	☐	
191	192.56	P377515	HC	DJ	☐	
192.56	194	P377516	HC	DJ	☐	
194	196	P377517	HC	DJ	☐	
196	198	P377518	HC	DJ	☐	
198	200	P377519	HC	DJ	☐	
200	201	P377521	HC	DJ	☐	
201	202.69	P377522	HC	KR	☐	EOH

GeoSpark Logger Print Logs ~ Duplicate Samples

DataSet: RG_GF

Hole ID: RG12-10

From (m)	To (m)	Sample ID	Original Sample ID	QC Category	Comments
52	54	P385427	P385426	FD	
97	99	P385455	P385454	FD	
140	142	P385483	P385482	FD	
183.14	185	P377511	P377509	FD	

GeoSpark Logger Print Logs ~ Standards / Blanks

DataSet: RG_GF

Hole ID: RG12-10

Sample ID	Standard ID	Comments
P377510	FB	
P377520	WJN-STD1	
P385410	FB	
P385420	WJN-STD2	
P385430	FB	
P385440	WJN-STD1	
P385450	FB	
P385460	WJN-STD2	
P385470	FB	
P385480	WJN-STD1	
P385490	FB	
P385500	WJN-STD2	

GeoSpark Logger Print Logs ~ Collars

DataSet: RG_GF

Depth (m)	Hole Type	Core Diamete	Grid ID	East	North	Elevation	Survey Method	Survey Date	Survey By	Date Started	Date Completed	Logged By	Prospect	Validated By
Hole: RG12-11														
213.66 m	DD	NQ	UTM10N_NAD83	604534.9154	5813762.03	956.917	DGPS	24/11/2012	SL	18/11/2012	22/11/2012	JV	East Zone	JV

Although the expected syenite body was not encountered, significant mineralization was intersected within this drill hole, extending the zone of inferred mineralization found in to the northwest.

GeoSpark Logger Print Logs ~ DH Surveys

DataSet: RG_GF

Hole ID: RG12-11

Depth (m)	Survey Method	Grid ID	Dip	Orig Azimuth	Surv. Tool Azimuth	Magnetic Declination	Corrected Azimuth	Magnetics	Date Surveyed	Survey Instrument	Bad Reading	Comments
0	COLL	UTM10N_NAD83	-60	115			115		22/11/2012	CMP	☐	
19.81	EZ Shot	UTM10N_NAD83	-60.2	115	90	18	108		22/11/2012	EZ	☐	
86.87	EZ Shot	UTM10N_NAD83	-60.9	115	94.6	18	112.6		22/11/2012	EZ	☐	
147.83	EZ Shot	UTM10N_NAD83	-60.8	115	95.7	18	113.7		22/11/2012	EZ	☐	
208.79	EZ Shot	UTM10N_NAD83	-59.8	115	100	18	118		22/11/2012	EZ	☐	

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-11

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	0	9.14	Overburden	Overburden (OB)	

Alteration:	From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments

Minerals:	From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments

Veining:	From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:	From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	9.14	25.81	Andesitic Autoclastic Breccia	Coarse pyroxene-phyric andesite (VANAB)	Monomic.Clst supported.Matrix comp of crs px phenos (1-7mm) with interstitial plag, chl,mag. Csts same comp, variable in size from 1–10cm. Mass and veined mag.Single int of syen (0.24m).Cpy within select chl carb vns and wkly dis.

Alteration:	From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
	9.14	25.81	Propy	OvPrnt	VS	Mag	OvPrnt	S							Intense propylitic overprint with pervasive chlorite and carbonate, patchy epidote. Strong pervasive magnetite, replacing matrix completely in select intervals.

Minerals:	From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
	9.14	25.81	Cpy	0.1	VEN	Py	0.25	DIS							Chalcopyrite within veins as well as weakly disseminated. Pyrite moderately disseminated. Chalcopyrite 0.1%, Pyrite 0.25%

Veining:	From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
	9.14	25.81	Vcarb	±cpy±chl	0.2	Vmag		1							Carbonate-chlorite ± chalcopyrite veins (less than 1/m). Common magnetite veining.

Structure:	From (m)	To (m)	Type	Intensity	CA Angle
	23.2	23.35	VEIN_Uniq	M	30

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	25.81	32.7	Andesitic Sandstone	Volcanic sandstone (< 2mm) (VANSS)	Dark grey-black, fine grained volcanic sandstone with medium green-grey coarse pyroxene andesite breccia. Sandstone is massive, moderately magnetic, unmineralized. Magnetite and carbonate veining throughout both lithologies.

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-11

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
25.81	32.7	Propy	OvPrnt	S	Mag	OvPrnt	M	Pot	Primary	W				Strong to intense propylitic overprint with chlorite, carbonate and epidote. Moderate magnetite alteration throughout breccia. Discrete bleached intervals. Discrete intervals of k feldspar flooding within breccia.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
25.81	32.7	Cpy	0.1	DIS	Py	0.1	DIS							Chalcopyrite and pyrite both weakly disseminated within breccia. Chalcopyrite 0.1%, Pyrite 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
25.81	32.7	Vcarb	n/a	3	Vmag	n/a	0.2							Common carbonate veins. Magnetite veins (less than 1/m).

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
27.04	27.53	RUB	M	

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	32.7	56.37	Andesitic Autoclastic Breccia	Coarse pyroxene-phyric andesite (VANAB)	Monomictic.Clst supp. Matrix crs px phenos(1-7mm) w interst plag, chl and mag.Clasts same comp,1–10cm. Mag repl some px(1-5%) and matrix in sel ints.Cpy w sel carb vns as well as wkly dis, also found in rare 1-2mm aggs.

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-11

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
32.7	56.37	Propy	OvPrnt	S	Pot	Primary	W	Mag	OvPrnt	M				Strong propylitic alteration with pervasive chlorite, carbonate, patchy epidote. Weak patchy potassic alteration with k feldspar flooding and vein haloes. Magnetite replaces pyroxenes (1-5%) as well as found interstitially within matrix.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
32.7	56.37	Cpy	0.1	DIS	Py	0.25	DIS							Cpy within vns, wkly dis, and within rare aggs. Py diss throughout and found within chl-e vns. Chalcopyrite 0.1%, Pyrite 0.25%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
32.7	56.37	Vcarb	±cpy±chl	0.3	Vmag	n/a	0.2							Carbonate-chlorite ± chalcopyrite veins. Carbonate veins ± k feldspar haloes. Rare (less than 1/m) magnetite veins. Chlorite-epidote ± pyrite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
43.31	43.77	CI	M	85
48.31	50.29	FRAC		

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	56.37	89.19	Andesitic Autoclastic Breccia	Coarse pyroxene-phyric andesite (VANAB)	Polymic.Clast supp. Crs px phenos(1-7mm) w interst plag,chl and mag.Clsts same comp, or pnk salm syen, 1–10cm. Occ vns (less than 1/m) with app of peg infill w same comp as syen clsts (kspar,carb, and chl). Mag repl px. Inc in pot alt and cpy.

DataSet: RG_GF

Hole ID: RG12-11

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
56.37	89.19	Propy	OvPrnt	S	Pot	Primary	M							Str propy alt w perv chl, vned carb and pat ep. Mod pot alt with kspar flooding and vein haloes. Magnetite veined and in aggregates within pegmatitic infill veins, also replacing pyroxenes (less than 1%).

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
56.37	89.19	Cpy	0.25	DIS	Py	0.5	DIS							Cpy within syen clasts and infill, also found weakly dis in some areas. Py diss, within vns and aggs throughout. Chalcopyrite 0.25%, Pyrite 0.5%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
56.37	89.19	Vmag	±py	0.5										Carbonate ± chlorite veins common (up to 6/m). Magnetite ± pyrite veins. Carbonate veins ± k feldspar haloes.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	89.19	127.74	Andesitic Autoclastic Breccia	Coarse pyroxene-phyric andesite (VANAB)	Monomic.Clst supp. Matrix comp of crse px phenos(1-7mm) w interst plag, chl and mag.Clsts same comp,1–10cm. Mag repl px(1-5%) and matrix in sel ints. Chalcopyrite found disseminated and in aggregates (up to 2mm) in select intervals.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
89.19	127.74	Propy	OvPrnt	S	Mag	OvPrnt	S	Pot	Primary	M				Str propy alt with perv chl, vn carb, and pat ep. Mag vnd and repl pxs, also found in massive aggregates (up to 1cm). Moderate patchy potassic alteration with k feldspar and magnetite.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
89.19	127.74	Cpy	0.5	DIS	Py	0.5	DIS							Cpy diss, found in aggs (up to 2mm). Py strongly diss, and within veins. Cpyr 0.50%, Py 0.5

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
89.19	127.74	Vmag	±cpy±kspar	0.5										Common carbonate ± chlorite veins. Magnetite ± chalcopyrite ± k feldspar veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
107.4	108	RUB	M	

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-11

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	127.74	132.1	Porphyritic Andesite	Plagioclase-phyric andesite dyke (IPAN)	Reddish-brown plagioclase-phyric andesite dyke with elongate, crowded plagioclase phenocrysts (1-3mm) with interstitial k feldspar, biotite, and magnetite. Pyrite within fractures. Moderately magnetic. No visible chalcopyrite mineralization.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
127.74	132.1	Pot	Primary	S	Propy	OvPrnt	W							Strong potassic alteration with k feldspar, biotite and magnetite. Weak patchy propylitic alteration with epidote and chlorite

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
127.74	132.1	Py	0.1	FRA										No visible chalcopyrite mineralization. Pyrite within veins and infilling some fractures (1%) Pyrite 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
127.74	132.1	Vcarb	±chl±py	0.5										Carbonate-chlorite ± pyrite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	132.1	134.54	Medium Grained Syenite	Medium-grained syenite intrusive breccia (IMSY)	Polymictic.Syen cem: mg kspar, rare chl and bio. Clsts: crs px and bx or fine plag and bx. And clsts are wkly to moderately magnetic. Syenite contains trace bornite (handlens sized grains, less than 1mm). Chalcopyrite disseminated.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
132.1	134.54	Pot	Primary	S	Propy	OvPrnt	M							Strong pervasive potassic alteration with k feldspar, biotite and magnetite. Moderate patchy propylitic alteration within clasts with pervasive chlorite, carbonate and patchy epidote.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
132.1	134.54	Cpy	0.1	DIS	Bor	0.1	DIS	Py	0.25	DIS				Cpy diss throughout. Bo found within syen cement in pinprick-sized grains. Py diss throughout. Chalcopyrite 0.1%, Bornite 0.1%, Pyrite 0.25%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

DataSet: RG_GF

Hole ID: RG12-11

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	134.54	138.46	Porphyritic Andesite	Plagioclase-phyric andesite dyke (IPAN)	Elongate, crowded plagioclase phenocrysts (1-3mm) with interstitial k feldspar, biotite, and magnetite. Pyrite within fractures. Moderately magnetic. No visible chalcopyrite mineralization.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
134.54	138.56	Pot	Primary	S	Propy	OvPrnt	W							Strong potassic alteration with k feldspar, biotite and magnetite. Weak patchy propylitic alteration with epidote and chlorite

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
134.54	138.46	Py	0.1	VEN										No visible chalcopyrite mineralization. Pyrite within veins and infilling some fractures (1%) Pyrite 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
132.1	138.46	Vcarb	±chl±py	0.5										Carbonate-chlorite ± pyrite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	138.46	165.9	Medium Grained Syenite	Medium-grained syenite intrusive breccia (IMSY)	Monomictic. Syenite cement is salmon pink, contains k-feldspar, chlorite and biotite. Clasts composed of pyroxene andesite breccia, clasts are 1-10cm, subrounded. Moderately to strongly magnetic. Mineralized.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
138.56	165.9	Pot	Primary	S	Propy	OvPrnt	M							Strong potassic alteration with k feldspar. biotite and magnetite. Moderate patchy propylitic alteration with chlorite, epidote and veined carbonate.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
138.46	165.9	Cpy	0.5	DIS	Bor	0.1	AGG	Py	0.5	FRA				Cpy diss and in aggs (1-15mm) throughout. Bor agg (10mm) in carb vein, and found in pinprick-sized grains within syen. Py dis and agg throughout. Cpy 0.5%, Bor 0.1%, Py 0.5%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
138.46	165.9	Vcarb	±cpy±bor	0.1										Carbonate-chlorite veins common. Single carbonate vein with k feldspar, chalcopyrite and 1cm aggregate of bornite.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-11

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	165.9	170.5	Medium Grained Syenite	Medium-grained syenite intrusive breccia (IMSY)	Monomictic. Syenite cement is salmon pink, contains k-feldspar, chlorite and biotite. Entire unit is moderately to strongly magnetic. Syenite is mineralized.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
165.9	170.5	Pot	Primary	S	Propy	OvPrnt	S							Strong potassic alteration with k feldspar, magnetite, biotite. Plagioclase-phyric andesite breccia has strong propylitic overprint with chlorite, pyrite and veined carbonate.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
165.9	170.5	Cpy	0.25	DIS	Py	0.25	DIS							Chalcopyrite disseminated within syenite. 4 pinpricks of bornite within syenite cement. Pyrite disseminated throughout. Chalcopyrite 0.25%, Bornite trace, Pyrite 0.25%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
165.9	170.5	Vcarb	n/a	1										Common carbonate veining.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	170.5	211.94	Medium Grained Syenite	Medium-grained syenite intrusive breccia (IMSY)	Zone of fractured and blky med syen int bx. Blks are 3-20cm in size. Wkly mag. Clsts comp of fg plag-phy and bx. Mod pot alt, mod to str hem alt. Mineralized

DataSet: RG_GF

Hole ID: RG12-11

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
170.5	211.94	Pot	Primary	S	Propy	OvPrnt	M	Hem	OvPrnt	S				Str pot alt w kspar, mag and biotite. Mod propy ovrpt within plag and bx with chl, pat epidote and veined carbonates. Strong fracture controlled hematite alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
170.5	211.94	Cpy	0.1	DIS	Py	0.25	DIS							Chalcopyrite weakly disseminated in select areas, and in rare aggregates (up to 15mm). Pyrite disseminated in select areas and along fracture surfaces. Chalcopyrite 0.1%, Pyrite 0.25%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
170.5	211.94	Vcarb	±chl	1										Common carbonate veining. Carbonate –chlorite ± epidote veins. Hematite veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
170.5	211.94	FRAC	S	

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	211.94	213.66	Porphyritic Andesite	Plagioclase-phyric andesite dyke (IPAN)	Rubble zone with elongate, crowded plagioclase phenocrysts (1-3mm) with interstitial k feldspar, biotite, and magnetite. No visible sulphides. Moderately magnetic.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
211.94	213.66	Pot	Primary	S	Propy	OvPrnt	W							Strong potassic alteration with k feldspar, biotite and magnetite. Weak patchy propylitic alteration with epidote and chlorite.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
211.94	213.66	UnMin	0											No visible sulphide mineralization.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
211.94	213.66	NoVeins	n/a											No visible veining.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
211.94	213.66	RUB	M	

GeoSpark Logger Print Logs ~ Geotechnical

DataSet: RG_GF

Hole ID: RG12-11

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	Comments
9.14	10.67	1.53	1.22	79.74	
10.67	13.72	3.05	3.06	100.33	
13.72	16.76	3.04	3.01	99.01	
16.76	19.81	3.05	2.97	97.38	
19.81	22.86	3.05	3.03	99.34	
22.86	25.91	3.05	3.05	100	
25.91	27.43	1.52	1.18	77.63	
27.43	28.96	1.53	1.21	79.08	
28.96	32	3.04	3.05	100.33	
32	35.05	3.05	3	98.36	
35.05	36.27	1.22	1.28	104.92	
36.27	38.1	1.83	1.58	86.34	
38.1	39.93	1.83	2.1	114.75	
39.93	41.15	1.22	0.89	72.95	
41.15	44.2	3.05	2.86	93.77	
44.2	47.24	3.04	3.04	100	
47.24	48.77	1.53	1.27	83.01	
48.77	49.68	0.91	0.53	58.24	
49.68	50.29	0.61	0.46	75.41	
50.29	53.34	3.05	2.82	92.46	
53.34	54.56	1.22	1.07	87.7	
54.56	56.39	1.83	2.14	116.94	
56.39	59.44	3.05	3.02	99.02	
59.44	62.48	3.04	2.98	98.03	
62.48	65.53	3.05	3.06	100.33	
65.53	68.58	3.05	2.99	98.03	
68.58	71.63	3.05	3.03	99.34	
71.63	74.68	3.05	3.01	98.69	
74.68	77.72	3.04	2.9	95.39	
77.72	80.77	3.05	3.06	100.33	
80.77	83.82	3.05	3.05	100	
83.82	86.87	3.05	3.07	100.66	
86.87	88.7	1.83	1.84	100.55	
88.7	89.92	1.22	1.08	88.52	
89.92	92.96	3.04	2.98	98.03	
92.96	96.01	3.05	3.03	99.34	
96.01	99.06	3.05	2.97	97.38	
99.06	102.11	3.05	2.97	97.38	
102.11	105.16	3.05	3.06	100.33	
105.16	108.2	3.04	2.77	91.12	
108.2	111.25	3.05	2.82	92.46	
111.25	114.3	3.05	3.03	99.34	
114.3	117.35	3.05	3.06	100.33	
117.35	120.4	3.05	2.98	97.7	
120.4	123.44	3.04	3.01	99.01	
123.44	126.49	3.05	2.93	96.07	
126.49	129.54	3.05	2.89	94.75	
129.54	131.98	2.44	2.29	93.85	
131.98	132.59	0.61	0.43	70.49	
132.59	135.64	3.05	3.09	101.31	
135.64	138.07	2.43	2.32	95.47	
138.07	141.12	3.05	2.95	96.72	
141.12	144.17	3.05	2.91	95.41	
144.17	147.22	3.05	2.88	94.43	
147.22	147.83	0.61	0.54	88.52	
147.83	150.88	3.05	3.02	99.02	
150.88	153.92	3.04	2.94	96.71	
153.92	156.97	3.05	3.02	99.02	
156.97	160.02	3.05	2.86	93.77	

Hole ID: **RG12-11**

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	Comments
160.02	163.07	3.05	2.92	95.74	
163.07	166.12	3.05	3.01	98.69	
166.12	169.16	3.04	2.77	91.12	
169.16	171.91	2.75	2.19	79.64	
171.91	172.82	0.91	0.79	86.81	
172.82	173.74	0.92	0.71	77.17	
173.74	175.26	1.52	1.37	90.13	
175.26	176.78	1.52	1.33	87.5	
176.78	177.09	0.31	0.3	96.77	
177.09	178	0.91	0.51	56.04	
178	179.53	1.53	1.24	81.05	
179.53	180.75	1.22	0.81	66.39	
180.75	182.27	1.52	1.47	96.71	
182.27	183.79	1.52	1.06	69.74	
183.79	185.01	1.22	1.18	96.72	
185.01	187.45	2.44	2.15	88.11	
187.45	190.5	3.05	2.78	91.15	
190.5	191.11	0.61	0.55	90.16	
191.11	192.33	1.22	0.89	72.95	
192.33	192.94	0.61	0.46	75.41	
192.94	194.16	1.22	0.92	75.41	
194.16	195.38	1.22	1.17	95.9	
195.38	196.29	0.91	0.84	92.31	
196.29	197.21	0.92	0.73	79.35	
197.21	197.51	0.3	0.28	93.33	
197.51	199.34	1.83	0.96	52.46	
199.34	200.25	0.91	0.49	53.85	
200.25	201.47	1.22	0.89	72.95	
201.47	202.69	1.22	0.91	74.59	
202.69	204.52	1.83	1.43	78.14	
204.52	205.74	1.22	1.06	86.89	
205.74	206.96	1.22	0.63	51.64	
206.96	208.18	1.22	0.79	64.75	
208.18	208.79	0.61	0.41	67.21	
208.79	209.4	0.61	0.45	73.77	
209.4	210.01	0.61	0.35	57.38	
210.01	210.92	0.91	0.56	61.54	
210.92	211.53	0.61	0.31	50.82	
211.53	211.84	0.31	0.31	100	
211.84	212.75	0.91	0.38	41.76	
212.75	213.36	0.61	0.13	21.31	
213.36	213.66	0.3	0.11	36.67	EOH

GeoSpark Logger Print Logs ~ Geotech Domains

DataSet: RG_GF

Hole ID: RG12-11

From (m)	To (m)	Interval Length	Natural Break Count	RQD (m)	RQD %	Domain Type	Rock Strength	Discont. Type 1	Discont. CA	Rough	Infill Type	Infill Thicknes	Discont. Type 2	Discont. CA	Rough	Infill Type	Infill Thicknes	Comments
9.14	25.81	16.67	44	9.72	58.31	LithChg	MS	joi	85	rau	non	none	vei	45	smu	sof	t<1	
25.81	32.7	6.89	34	3.51	50.94	LithChg	MS	joi	60	smu	sli	t<1	dis	80	n/a	sli	t<1	type 2 = highly fractured fault
32.7	56.37	23.67	89	13.26	56.02	LithChg	S	joi	45	rau	sof	t<1	dis	85	gpu	sof	t>5	
56.37	89.19	32.82	89	22.8	69.47	AltChg	MS	joi	50	smp	mode	t<1	joi	30	rau	sof	t<1	
89.19	127.74	38.55	114	22.23	57.67	LithAltChg	S	joi	72	rau	sli	t<5	dis	40	gpu	sof	nwc	
127.74	132.1	4.36	18	1.63	37.39	LithChg	S	joi	50	rad	non	t<1						
132.1	134.54	2.44	7	1.06	43.44	LithChg	MS	joi	75	rad	non	t<1						
134.54	138.46	3.92	23	1.25	31.89	LithChg	MS	joi	65	rau	sli	t<1						
138.46	165.9	27.44	127	13.54	49.34	LithChg	MS	joi	50	rau	sli	t<1	dis	85	rad	sli	t<5	
165.9	170.5	4.6	24	1.15	25	LithChg	MS	vei	75	rau	sof	t<1						
170.5	189.94	19.44	287	2.97	15.28	AltStrucChg	S	joi	70	rad	sli	t<1	dis	37	rap	sli	t<1	
189.94	211.94	22	263	2.78	12.64	LithChg	MS	joi	80	rau	non	none	dis	85	rad	sli	t<1	
211.94	213.66	1.72	25	0	0	LithChg	MS	joi	35	rau	non	none						EOH

GeoSpark Logger Print Logs ~ Mag Susceptibility

DataSet: RG_GF

Hole ID: RG12-11

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
9.14	11	1.86	88.35	104.5	344.2	179.017		DBigg	20/11/2012	
11	13	2	388.6	162.6	253.7	268.3		DBigg	20/11/2012	
13	15	2	171.7	255.9	326	251.2		DBigg	20/11/2012	
15	17	2	96.03	93.08	79.9	89.67		DBigg	20/11/2012	
17	19	2	52.61	28.07	68.83	49.837		DBigg	20/11/2012	
19	21	2	54.04	48.6	65.03	55.89		DBigg	20/11/2012	
21	23	2	71.14	84.34	18.56	58.013		DBigg	20/11/2012	
23	24	1	4.54	43.8	2.203	16.848		DBigg	20/11/2012	
24	25.81	1.81	55.76	110.4	185.4	117.187		DBigg	20/11/2012	
25.81	27	1.19	143	87.22	68.5	99.573		DBigg	20/11/2012	
27	29	2	28.14	8.548	54.53	30.406		DBigg	20/11/2012	
29	31	2	51.81	51.75	60.95	54.837		DBigg	20/11/2012	
31	32.7	1.7	88.93	54.46	29.2	57.53		DBigg	20/11/2012	
32.7	34	1.3	49.68	36.84	8.23	31.583		DBigg	20/11/2012	
34	36	2	26.23	12.58	34.06	24.29		DBigg	20/11/2012	
36	38	2	56.52	52.41	73.9	60.943		DBigg	20/11/2012	
38	40	2	55.57	6.445	68.67	43.562		DBigg	20/11/2012	
40	42	2	39.69	53.37	16.72	36.593		DBigg	20/11/2012	
42	44	2	7.718	28.48	15.01	17.069		DBigg	20/11/2012	
44	46	2	20.96	125	62.02	69.327		DBigg	20/11/2012	
46	48	2	80.22	80.21	73.27	77.9		DBigg	20/11/2012	
48	50	2	75.17	21.99	98.51	65.223		DBigg	20/11/2012	
50	52	2	127.3	33.43	42.87	67.867		DBigg	20/11/2012	
52	54	2	54.38	57.97	109.1	73.817		DBigg	20/11/2012	
54	55	1	73.14	121.7	95.85	96.897		DBigg	20/11/2012	
55	56.37	1.37	89.64	68.38	13.48	57.167		DBigg	20/11/2012	
56.37	58	1.63	24.93	77.29	81.02	61.08		DBigg	20/11/2012	
58	60	2	66.88	79.41	129.3	91.863		DBigg	20/11/2012	
60	62	2	70.54	151.8	104.8	109.047		DBigg	20/11/2012	
62	64	2	110.2	91.97	66.29	89.487		DBigg	20/11/2012	
64	66	2	44.33	48.49	86.09	59.637		DBigg	20/11/2012	
66	68	2	113.9	166.2	305.6	195.233		DBigg	20/11/2012	
68	70	2	113.3	145.8	112.2	123.767		DBigg	20/11/2012	
70	72	2	94.54	85.52	31.13	70.397		DBigg	20/11/2012	
72	74	2	55.46	98.11	43.57	65.713		DBigg	20/11/2012	
74	76	2	73.65	14.66	35.93	41.413		DBigg	20/11/2012	
76	78	2	34.51	19.16	99.53	51.067		DBigg	20/11/2012	

Hole ID: **RG12-11**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
78	80	2	120	290.5	60.36	156.953		DBigg	20/11/2012	
80	82	2	41.51	34.54	78.3	51.45		DBigg	20/11/2012	
82	84	2	77.09	72.88	57.23	69.067		DBigg	20/11/2012	
84	86	2	40.32	63.45	79.27	61.013		DBigg	20/11/2012	
86	88	2	191.5	297	89.51	192.67		DBigg	20/11/2012	
88	89.19	1.19	150.3	39.84	68.23	86.123		DBigg	21/11/2012	
89.19	91	1.81	65.49	299	91.07	151.853		DBigg	21/11/2012	
91	93	2	155.4	41.6	41.95	79.65		DBigg	21/11/2012	
93	95	2	62.87	73.95	60.21	65.677		DBigg	21/11/2012	
95	97	2	131.3	98.18	166.3	131.927		DBigg	21/11/2012	
97	99	2	53.05	57.65	35.58	48.76		DBigg	21/11/2012	
99	101	2	72.21	21.28	48.01	47.167		DBigg	21/11/2012	
101	103	2	42.05	97.7	122.8	87.517		DBigg	21/11/2012	
103	105	2	43.45	114.1	49	68.85		DBigg	21/11/2012	
105	107	2	61.47	92.37	162.4	105.413		DBigg	21/11/2012	
107	109	2	146.6	74.22	40.53	87.117		DBigg	21/11/2012	
109	111	2	24.66	92.59	138.2	85.15		DBigg	21/11/2012	
111	113	2	149.7	153.7	21.85	108.417		DBigg	21/11/2012	
113	115	2	74.48	74.53	143.2	97.403		DBigg	21/11/2012	
115	117	2	107.5	150.7	115	124.4		DBigg	21/11/2012	
117	119	2	96.33	119.7	66.57	94.2		DBigg	21/11/2012	
119	121	2	97.28	72.68	171.7	113.887		DBigg	21/11/2012	
121	123	2	83.72	82.74	79.83	82.097		DBigg	21/11/2012	
123	125	2	63.49	172.2	63.73	99.807		DBigg	21/11/2012	
125	126	1	104.4	138.4	78.98	107.26		DBigg	21/11/2012	
126	127.74	1.74	98.43	66.99	26.57	63.997		DBigg	21/11/2012	
127.74	129	1.26	65.95	46.8	41.19	51.313		DBigg	21/11/2012	
129	131	2	71.83	56.62	65.1	64.517		DBigg	21/11/2012	
131	132.1	1.1	73.36	61.41	62.82	65.863		DBigg	21/11/2012	
132.1	133	0.9	101	49.08	50.16	66.747		DBigg	21/11/2012	
133	134.54	1.54	62.18	24.25	65.87	50.767		DBigg	21/11/2012	
134.54	136	1.46	71.48	83.62	101.2	85.433		DBigg	21/11/2012	
136	137	1	51.77	48.86	83.638	61.423		DBigg	21/11/2012	
137	138.46	1.46	76.07	82.91	76.98	78.653		DBigg	21/11/2012	
138.46	140	1.54	48.96	49.68	100.4	66.347		DBigg	21/11/2012	
140	142	2	72.91	26.11	60.45	53.157		DBigg	21/11/2012	
142	144	2	66.31	40.32	69.69	58.773		DBigg	21/11/2012	
144	146	2	54.9	60	48.77	54.557		DBigg	21/11/2012	
146	148	2	76.52	86.65	45.98	69.717		DBigg	21/11/2012	

Hole ID: **RG12-11**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
148	150	2	76.49	92.11	106.6	91.733		DBigg	21/11/2012	
150	152	2	54.82	53.967	89.11	65.966		DBigg	21/11/2012	
152	154	2	112.3	97.92	36.18	82.133		DBigg	21/11/2012	
154	156	2	53.6	57.78	100.3	70.56		DBigg	21/11/2012	
156	158	2	50.4	34.77	23.1	36.09		DBigg	21/11/2012	
158	160	2	25.15	29.67	64.69	39.837		DBigg	21/11/2012	
160	162	2	86.25	57.37	74.48	72.7		DBigg	21/11/2012	
162	164	2	186.6	78.07	4.453	89.708		DBigg	21/11/2012	
164	165.9	1.9	77.78	43.29	140	87.023		DBigg	21/11/2012	
165.9	168	2.1	25.12	12.88	32.66	23.553		DBigg	21/11/2012	
168	169	1	27.3	18.88	37.06	27.747		DBigg	21/11/2012	
169	170.5	1.5	133.1	28.81	56.63	72.847		DBigg	21/11/2012	
170.5	172	1.5	29.84	32.54	18.62	27		DBigg	21/11/2012	
172	174	2	20.06	44.43	67.3	43.93		DBigg	21/11/2012	
174	176	2	35.21	28.48	83.36	49.017		DBigg	21/11/2012	
176	178	2	29.12	44.68	189.1	87.633		DBigg	21/11/2012	
178	180	2	88.09	241.1	91.93	140.373		DBigg	21/11/2012	
180	182	2	299.2	616.7	181.2	365.7		DBigg	21/11/2012	
182	184	2	142	468	381.8	330.6		DBigg	21/11/2012	
184	186	2	84.44	46.28	38.49	56.403		DBigg	21/11/2012	
186	188	2	16.35	14.85	26.74	19.313		DBigg	21/11/2012	
188	189.94	1.94	99.83	21.98	27.29	49.7		DBigg	21/11/2012	
189.94	191	1.06	41.13	5.195	5.136	17.154		DBigg	22/11/2012	
191	193	2	14.82	10.37	22.31	15.833		DBigg	22/11/2012	
193	195	2	20.02	21.43	36.15	25.867		DBigg	22/11/2012	
195	197	2	16.14	26.81	48.5	30.483		DBigg	22/11/2012	
197	199	2	77.68	69.84	56.23	67.917		DBigg	22/11/2012	
199	201	2	40.39	52.72	35.57	42.893		DBigg	22/11/2012	
201	203	2	25.22	7.27	36.45	22.98		DBigg	22/11/2012	
203	205	2	16.3	20.78	14.71	17.263		DBigg	22/11/2012	
205	207	2	7.298	65.14	15.19	29.209		DBigg	22/11/2012	
207	209	2	17.94	27.16	18.7	21.267		DBigg	22/11/2012	
209	210	1	30.9	2.644	27.45	20.331		DBigg	22/11/2012	
210	211.94	1.94	22.16	12.43	7.796	14.129		DBigg	22/11/2012	
211.94	213.66	1.72	4.398	11.12	2.989	6.169		DBigg	22/11/2012	EOH

GeoSpark Logger Print Logs ~ Specific Gravity

DataSet: RG_GF

Hole ID: RG12-11

From (m)	To (m)	Sample ID	Sample Type	SG Method	Weight Dry (g)	Weight Wet (g)	Bulk Density	Lithology GF Code	Local Lith Code	Alt 1 Code	Alt Interp	Alt Int	Sulph. %	Date Sampled	Sampled By	Comments
34.06	34.18	P377538	WC	MEAS	624.8	404.7	2.84	VANAB	CrsPxAnd_BX	Propy	OvPrnt	VS	0.1	20/11/2012	JV	
58.07	58.23	P377554	WC	MEAS	814	533.3	2.9	VANAB	CrsPxAnd_BX	Propy	OvPrnt	S	0.1	20/11/2012	JV	
82.86	82.98	P377566	WC	MEAS	609.1	403.1	2.96	VANAB	CrsPxAnd_BX	Propy	OvPrnt	S	0.25	20/11/2012	JV	
104.77	104.94	P377581	WC	MEAS	841.1	546.1	2.85	VANAB	CrsPxAnd_BX	Propy	OvPrnt	S	0.25	20/11/2012	JV	
128.81	128.92	P377595	WC	MEAS	528.2	326	2.61	IPAN	PlagPorAnd_dyk	Pot	Primary	S	0.1	21/11/2012	JV	
154.83	154.94	P377614	WC	MEAS	552.7	348	2.7	IMSY	MedSyen_IBX	Pot	Primary	S	0.25	21/11/2012	JV	
178	178.11	P377628	WC	MEAS	494.4	317	2.79	IMSY	MedSyen_IBX	Pot	Primary	S	0.5	21/11/2012	JV	
203.48	203.58	P377644	WC	MEAS	527.2	340.2	2.82	IMSY	MedSyen_IBX	Pot	Primary	S	0.1	22/11/2012	DBigg	EOH

GeoSpark Logger Print Logs ~ Specterra Data

DataSet: RG_GF

Hole ID: RG12-11

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
9.14	11	P377523	1	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1908	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2330	2		3				
					Other (nm)	1		2		3				
Collection Comments:														
Interp Comments:														
Doublet/Triplet Comments														
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	
11	13	P377524	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1954	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
Collection Comments:														
Interp Comments: Unable to interpret minerals from this spectra														
Doublet/Triplet Comments														
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
13	15	P377525	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1940	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
15	17	P377526	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
17	19	P377527	0	walt	OH+H20 (1400nm)	1	1411	2		3	
					H20 (1900nm)	1	1915	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2343	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
19	21	P377528	0	bxcmt	OH+H20 (1400nm)	1	1396	2		3	
					H20 (1900nm)	1	1910	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
21	23	P377529	1	vn	OH+H20 (1400nm)	1	1477	2		3	
					H20 (1900nm)	1	1913	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2236	2	2287	3	
					Mg-OH (2350nm)	1	2359	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
23	24	P377531	1	BxClast	OH+H20 (1400nm)	1	1412	2		3	
					H20 (1900nm)	1	1914	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2337	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
24	25.81	P377532	1	walt	OH+H20 (1400nm)	1	1411	2		3						
					H20 (1900nm)	1	1908	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2337	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
25.81	27	P377533	0	walt	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1		2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
27	29	P377534	1	walt	OH+H20 (1400nm)	1	1415	2		3					
Collection Comments:					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
29	31	P377535	1	walt	OH+H20 (1400nm)	1	1409	2		3					
Collection Comments:					H20 (1900nm)	1	1909	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
31	32.7	P377536	0	walt	OH+H20 (1400nm)	1	1407	2		3					
					H20 (1900nm)	1	1911	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2330	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
32.7	34	P377537	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
34	36	P377538	2	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
36	38	P377539	1	walt	OH+H20 (1400nm)	1	1409	2		3					
					H20 (1900nm)	1	1908	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2342	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
38	40	P377541	1	walt	OH+H20 (1400nm)	1	1411	2		3						
					H20 (1900nm)	1	1913	2		3						
					Al-OH (2200nm)	1	2204	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2323	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
40	42	P377542	2	vn	OH+H20 (1400nm)	1	1398	2	1475	3						
					H20 (1900nm)	1	1909	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1	2243	2		3						
					Mg-OH (2350nm)	1	2358	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
42	44	P377543	3	walt	OH+H20 (1400nm)	1	1410	2		3					
					H20 (1900nm)	1	1907	2		3					
					Al-OH (2200nm)	1	2208	2		3					
					Fe-OH (2250nm)	1	2255	2		3					
					Mg-OH (2350nm)	1	2323	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
44	46	P377544	2	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1909	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
46	48	P377545	2	walt	OH+H20 (1400nm)	1	1479	2		3	
					H20 (1900nm)	1	1915	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2236	2	2292	3	
					Mg-OH (2350nm)	1	2357	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
48	50	P377546	2	walt	OH+H20 (1400nm)	1	1477	2		3	
					H20 (1900nm)	1	1913	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2353	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
50	52	P377547	2	walt	OH+H20 (1400nm)	1	1414	2		3						
					H20 (1900nm)	1	1911	2		3						
					Al-OH (2200nm)	1	2214	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
52	54	P377548	0	walt	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1	1940	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
54	55	P377551	2	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
55	56.37	P377552	2	walt	OH+H20 (1400nm)	1	1429	2		3					
					H20 (1900nm)	1	1913	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
56.37	58	P377553	2	bxcmt	OH+H20 (1400nm)	1	1427	2		3					
Collection Comments:					H20 (1900nm)	1	1913	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
58	60	P377554	2	walt	OH+H20 (1400nm)	1	1411	2		3					
Collection Comments:					H20 (1900nm)	1	1957	2		3					
					Al-OH (2200nm)	1	2206	2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
60	62	P377555	2	walt	OH+H20 (1400nm)	1		2		3					
Collection Comments:					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2336	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
62	64	P377556	3	walt	OH+H20 (1400nm)	1	1432	2	1476	3					
Collection Comments:					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1	2236	2	2293	3					
					Mg-OH (2350nm)	1	2359	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
64	66	P377557		vn	OH+H20 (1400nm)	1		2		3					
Collection Comments:					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☑ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
66	68	P377558	1	walt	OH+H20 (1400nm)	1		2		3					
Collection Comments:					H20 (1900nm)	1	1907	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
Unable to interpret minerals from this spectra					Mg-OH (2350nm)	1		2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
68	70	P377559	2	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1909	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
70	72	P377561	2	vn	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1907	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2257	2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☑ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
72	74	P377562	1	walt	OH+H20 (1400nm)	1	1417	2		3					
Collection Comments:					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
74	76	P377563	2	BxClast	OH+H20 (1400nm)	1	1410	2		3					
Collection Comments:					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2358	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
76	78	P377564	3	BxClast	OH+H20 (1400nm)	1		2		3						
Collection Comments:					H20 (1900nm)	1	1905	2		3						
					Al-OH (2200nm)	1		2		3						
Interp Comments:					Fe-OH (2250nm)	1	2255	2		3						
					Mg-OH (2350nm)	1	2336	2		3						
Doublet/Triplet Comments					Other (nm)	1		2		3						
					☐ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite			
78	80	P377565	0	walt	OH+H20 (1400nm)	1	1410	2		3						
Collection Comments:					H20 (1900nm)	1	1940	2		3						
					Al-OH (2200nm)	1	2205	2		3						
Interp Comments:					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
Doublet/Triplet Comments					Other (nm)	1		2		3						
					☑ Chlorite	☐ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite			

Hole ID: RG12-11

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
80	82	P377566	2	walt	OH+H20 (1400nm)	1	1427	2	1475	3	
					H20 (1900nm)	1	1914	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2336	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
82	84	P377567	2	walt	OH+H20 (1400nm)	1	1429	2		3	
					H20 (1900nm)	1	1924	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
84	86	P377568	3	BxClast	OH+H20 (1400nm)	1: 1426	2: 1476	3:			
					H20 (1900nm)	1: 1913	2:	3:			
					Al-OH (2200nm)	1:	2:	3:			
					Fe-OH (2250nm)	1: 2236	2: 2359	3:			
					Mg-OH (2350nm)	1:	2:	3:			
					Other (nm)	1:	2:	3:			

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
86	88	P377569	2	walt	OH+H20 (1400nm)	1: 1414	2:	3:			
					H20 (1900nm)	1: 1913	2:	3:			
					Al-OH (2200nm)	1:	2:	3:			
					Fe-OH (2250nm)	1: 2244	2:	3:			
					Mg-OH (2350nm)	1:	2:	3:			
					Other (nm)	1:	2:	3:			

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
88	89.19	P377571	2	walt	OH+H20 (1400nm)	1	1413	2	1476	3					
					H20 (1900nm)	1	1909	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2356	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		
89.19	91	P377572	1	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
91	93	P377573	1	walt	OH+H20 (1400nm)	1	1414	2		3					
					H20 (1900nm)	1	1937	2		3					
					Al-OH (2200nm)	1	2207	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
93	95	P377574	2	bxcmt	OH+H20 (1400nm)	1	1427	2	1476	3					
					H20 (1900nm)	1	1912	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2330	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
95	97	P377575	2	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1921	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
97	99	P377576	1	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1917	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: RG12-11

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
99	101	P377577	2	walt	OH+H20 (1400nm)	1	1409	2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
101	103	P377579	1	walt	OH+H20 (1400nm)	1	1915	2		3					
					H20 (1900nm)	1		2		3					
					Al-OH (2200nm)	1	2229	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2349	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
103	105	P377581	2	walt	OH+H20 (1400nm)	1	1411	2		3					
					H20 (1900nm)	1	1940	2		3					
					Al-OH (2200nm)	1	2206	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
105	107	P377582	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1954	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
107	109	P377583	2	walt	OH+H20 (1400nm)	1	1412	2		3						
					H20 (1900nm)	1	1914	2		3						
					Al-OH (2200nm)	1	2229	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2355	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
109	111	P377584	2	walt	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1	1913	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1	2254	2		3						
					Mg-OH (2350nm)	1	2338	2		3						
					Other (nm)	1	1927	2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:
111	113	P377585	0	walt	

OH+H20 (1400nm)	1	1412	2		3	
H20 (1900nm)	1	1915	2		3	
Al-OH (2200nm)	1		2		3	
Fe-OH (2250nm)	1		2		3	
Mg-OH (2350nm)	1		2		3	
Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:
113	115	P377586		walt	

OH+H20 (1400nm)	1	1412	2		3	
H20 (1900nm)	1	1916	2		3	
Al-OH (2200nm)	1		2		3	
Fe-OH (2250nm)	1		2		3	
Mg-OH (2350nm)	1	2356	2		3	
Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
115	117	P377587	0	walt	OH+H20 (1400nm)	1	1428	2		3				
					H20 (1900nm)	1	1916	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
117	119	P377588	0	walt	OH+H20 (1400nm)	1	1413	2		3				
					H20 (1900nm)	1	1921	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2357	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
119	121	P377589	0	walt	OH+H20 (1400nm)	1	1428	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
121	123	P377591	1	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
123	125	P377592	1	walt	OH+H20 (1400nm)	1	1412	2		3						
					H20 (1900nm)	1	1915	2		3						
					Al-OH (2200nm)	1	2213	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
125	126	P377593	0	walt	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1	1913	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
126	127.74	P377594	2	walt	OH+H20 (1400nm)	1	1411	2		3					
Collection Comments:					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1	2203	2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2343	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
127.74	129	P377595	2	walt	OH+H20 (1400nm)	1	1411	2		3					
Collection Comments:					H20 (1900nm)	1	1917	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2348	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
129	131	P377596	1	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
131	132.1	P377597	1	walt	OH+H20 (1400nm)	1	1410	2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2336	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
132.1	133	P377598	1	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
133	134.54	P377599	2	walt	OH+H20 (1400nm)	1	1422	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
134.54	136	P377601	2	walt	OH+H20 (1400nm)	1	1410	2		3					
Collection Comments:					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2337	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
136	137	P377602	2	walt	OH+H20 (1400nm)	1	1410	2		3					
Collection Comments:					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
137	138.46	P377603	2	walt	OH+H20 (1400nm)	1	1408	2		3					
					H20 (1900nm)	1	1913	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
138.46	140	P377604	2	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
140	142	P377605	0	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
142	144	P377606	1	walt	OH+H20 (1400nm)	1	1411	2		3					
					H20 (1900nm)	1	1913	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2341	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
144	146	P377608	1	walt	OH+H20 (1400nm)	1	1478	2		3	
					H20 (1900nm)	1	1923	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2358	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
146	148	P377609	0	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1	1948	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
148	150	P377611	0	walt	OH+H20 (1400nm)	1	1412	2		3						
					H20 (1900nm)	1	1916	2		3						
					Al-OH (2200nm)	1	2214	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2337	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
150	152	P377612	0	walt	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1		2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
152	154	P377613	0	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
154	156	P377614	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
156	158	P377615	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1956	2		3					
					Al-OH (2200nm)	1	2229	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
158	160	P377616	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
160	162	P377617	0	walt	OH+H20 (1400nm)	1	1411	2		3	
					H20 (1900nm)	1	1916	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2357	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
162	164	P377618	0	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1		2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
164	165.9	P377619	1	bxcmt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1932	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
165.9	168	P377621	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
168	169	P377622	2	walt	OH+H20 (1400nm)	1	1430	2		3					
					H20 (1900nm)	1	1923	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
169	170.5	P377623	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1948	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
170.5	172	P377624	1	walt	OH+H20 (1400nm)	1	1476	2		3					
					H20 (1900nm)	1	1932	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2236	2		3					
					Mg-OH (2350nm)	1	2360	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
172	174	P377625	1	walt	OH+H20 (1400nm)	1	1410	2	1477	3					
					H20 (1900nm)	1	1918	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
174	176	P377626	1	walt	OH+H20 (1400nm)	1	1410	2		3						
					H20 (1900nm)	1	1914	2		3						
					Al-OH (2200nm)	1	2216	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2351	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
176	178	P377627	2	walt	OH+H20 (1400nm)	1	1411	2		3						
					H20 (1900nm)	1	1957	2		3						
					Al-OH (2200nm)	1	2206	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2350	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
178	180	P377628	1	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1	1914	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2351	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
180	182	P377629	0	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1		2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:
182	184	P377631	0	walt	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

	1	2	3
OH+H20 (1400nm)			
H20 (1900nm)			
Al-OH (2200nm)			
Fe-OH (2250nm)			
Mg-OH (2350nm)			
Other (nm)			

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:
184	186	P377632	0	walt	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

	1	2	3
OH+H20 (1400nm)			
H20 (1900nm)			
Al-OH (2200nm)			
Fe-OH (2250nm)			
Mg-OH (2350nm)			
Other (nm)			

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
186	188	P377633	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
188	189.94	P377634	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
189.94	191	P377636	1	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1914	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2358	2		3				
					Other (nm)	1		2		3				
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite	
191	193	P377637	1	walt	OH+H20 (1400nm)	1	1411	2		3				
					H20 (1900nm)	1	1915	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2357	2		3				
					Other (nm)	1		2		3				
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
193	195	P377638	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1907	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2254	2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
195	197	P377639	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
197	199	P377641	2	walt	OH+H20 (1400nm)	1	1478	2		3					
					H20 (1900nm)	1	1905	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2236	2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		
199	201	P377642	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1		2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2258	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
201	203	P377643	1	walt	OH+H20 (1400nm)	1		2		3					
Collection Comments:					H20 (1900nm)	1		2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1	2255	2		3					
					Mg-OH (2350nm)	1	2334	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
203	205	P377644	1	walt	OH+H20 (1400nm)	1	1477	2		3					
Collection Comments:					H20 (1900nm)	1	1913	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2360	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
205	207	P377645	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2253	2		3					
					Mg-OH (2350nm)	1	2330	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☑ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
207	209	P377646	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1911	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2251	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
209	210	P377647	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
210	211.94	P377648	1	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1915	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-11**

From (m)	To (m)	Sample	Spectra Quality	Sample Material
211.94	213.66	P377649	1	walt

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Features:

OH+H20 (1400nm)	1	1396	2		3	
H20 (1900nm)	1	1915	2		3	
Al-OH (2200nm)	1		2		3	
Fe-OH (2250nm)	1	2251	2		3	
Mg-OH (2350nm)	1	2330	2		3	
Other (nm)	1		2		3	

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☑ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

GeoSpark Logger Print Logs ~ DH Samples

DataSet: RG_GF

Hole ID: RG12-11

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
9.14	11	P377523	HC	DBigg	☐	
11	13	P377524	HC	DBigg	☐	
13	15	P377525	HC	DBigg	☐	
15	17	P377526	HC	DBigg	☐	
17	19	P377527	HC	DBigg	☐	
19	21	P377528	HC	DBigg	☐	
21	23	P377529	HC	DBigg	☐	
23	24	P377531	HC	DBigg	☐	
24	25.81	P377532	HC	DBigg	☐	
25.81	27	P377533	HC	DBigg	☐	
27	29	P377534	HC	DBigg	☐	
29	31	P377535	HC	DBigg	☐	
31	32.7	P377536	HC	DBigg	☐	
32.7	34	P377537	HC	DBigg	☐	
34	36	P377538	HC	DBigg	☐	
36	38	P377539	HC	DBigg	☐	
38	40	P377541	HC	DBigg	☐	
40	42	P377542	HC	DBigg	☐	
42	44	P377543	HC	DBigg	☐	
44	46	P377544	HC	DBigg	☐	
46	48	P377545	HC	DBigg	☐	
48	50	P377546	HC	DBigg	☐	
50	52	P377547	HC	DBigg	☐	
52	54	P377548	HC	DBigg	☑	
54	55	P377551	HC	DBigg	☐	
55	56.37	P377552	HC	DBigg	☐	
56.37	58	P377553	HC	DBigg	☐	
58	60	P377554	HC	DBigg	☐	
60	62	P377555	HC	DBigg	☐	
62	64	P377556	HC	DBigg	☐	
64	66	P377557	HC	DBigg	☐	
66	68	P377558	HC	DBigg	☐	
68	70	P377559	HC	DBigg	☐	
70	72	P377561	HC	DBigg	☐	
72	74	P377562	HC	DBigg	☐	
74	76	P377563	HC	DBigg	☐	
76	78	P377564	HC	DBigg	☐	

GeoSpark Logger Print Logs ~ DH Samples

Hole ID: **RG12-11**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
78	80	P377565	HC	DBigg	☐	
80	82	P377566	HC	DBigg	☐	
82	84	P377567	HC	DBigg	☐	
84	86	P377568	HC	DBigg	☐	
86	88	P377569	HC	DBigg	☐	
88	89.19	P377571	HC	DBigg	☐	
89.19	91	P377572	HC	DBigg	☐	
91	93	P377573	HC	DBigg	☐	
93	95	P377574	HC	DBigg	☐	
95	97	P377575	HC	DBigg	☐	
97	99	P377576	HC	DBigg	☐	
99	101	P377577	HC	DBigg	☑	
101	103	P377579	HC	DBigg	☐	
103	105	P377581	HC	DBigg	☐	
105	107	P377582	HC	DBigg	☐	
107	109	P377583	HC	DBigg	☐	
109	111	P377584	HC	DBigg	☐	
111	113	P377585	HC	DBigg	☐	
113	115	P377586	HC	DBigg	☐	
115	117	P377587	HC	DBigg	☐	
117	119	P377588	HC	DBigg	☐	
119	121	P377589	HC	DBigg	☐	
121	123	P377591	HC	DBigg	☐	
123	125	P377592	HC	DBigg	☐	
125	126	P377593	HC	DBigg	☐	
126	127.74	P377594	HC	DBigg	☐	
127.74	129	P377595	HC	DBigg	☐	
129	131	P377596	HC	DBigg	☐	
131	132.1	P377597	HC	DBigg	☐	
132.1	133	P377598	HC	DBigg	☐	
133	134.54	P377599	HC	DBigg	☐	
134.54	136	P377601	HC	DBigg	☐	
136	137	P377602	HC	DBigg	☐	
137	138.46	P377603	HC	DBigg	☐	
138.46	140	P377604	HC	DBigg	☐	
140	142	P377605	HC	DBigg	☐	
142	144	P377606	HC	DBigg	☑	
144	146	P377608	HC	DBigg	☐	
146	148	P377609	HC	DBigg	☐	

GeoSpark Logger Print Logs ~ DH Samples

Hole ID: **RG12-11**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
148	150	P377611	HC	DBigg	☐	
150	152	P377612	HC	DBigg	☐	
152	154	P377613	HC	DBigg	☐	
154	156	P377614	HC	DBigg	☐	
156	158	P377615	HC	DBigg	☐	
158	160	P377616	HC	DBigg	☐	
160	162	P377617	HC	DBigg	☐	
162	164	P377618	HC	DBigg	☐	
164	165.9	P377619	HC	DBigg	☐	
165.9	168	P377621	HC	DBigg	☐	
168	169	P377622	HC	DBigg	☐	
169	170.5	P377623	HC	DBigg	☐	
170.5	172	P377624	HC	DBigg	☐	
172	174	P377625	HC	DBigg	☐	
174	176	P377626	HC	DBigg	☐	
176	178	P377627	HC	DBigg	☐	
178	180	P377628	HC	DBigg	☐	
180	182	P377629	HC	DBigg	☐	
182	184	P377631	HC	DBigg	☐	
184	186	P377632	HC	DBigg	☐	
186	188	P377633	HC	DBigg	☐	
188	189.94	P377634	HC	DBigg	☑	
189.94	191	P377636	HC	DBigg	☐	
191	193	P377637	HC	DBigg	☐	
193	195	P377638	HC	DBigg	☐	
195	197	P377639	HC	DBigg	☐	
197	199	P377641	HC	DBigg	☐	
199	201	P377642	HC	DBigg	☐	
201	203	P377643	HC	DBigg	☐	
203	205	P377644	HC	DBigg	☐	
205	207	P377645	HC	DBigg	☐	
207	209	P377646	HC	DBigg	☐	
209	210	P377647	HC	DBigg	☐	
210	211.94	P377648	HC	DBigg	☐	
211.94	213.66	P377649	HC	DBigg	☐	

GeoSpark Logger Print Logs ~ Duplicate Samples

DataSet: RG_GF

Hole ID: RG12-11

From (m)	To (m)	Sample ID	Original Sample ID	QC Category	Comments
52	54	P377549	P377548	FD	
99	101	P377578	P377577	FD	
142	144	P377607	P377606	FD	
188	189.94	P377635	P377634	FD	

GeoSpark Logger Print Logs ~ Standards / Blanks

DataSet: RG_GF

Hole ID: RG12-11

Sample ID	Standard ID	Comments
P377530	FB	
P377540	WJN-STD2	
P377550	FB	
P377560	WJN-STD1	
P377570	FB	
P377580	WJN-STD2	
P377590	FB	
P377600	WJN-STD1	
P377610	FB	
P377620	WJN-STD2	
P377630	FB	
P377640	WJN-STD1	
P377650	FB	EOH

GeoSpark Logger Print Logs ~ Collars

DataSet: RG_GF

Depth (m)	Hole Type	Core Diamete	Grid ID	East	North	Elevation	Survey Method	Survey Date	Survey By	Date Started	Date Completed	Logged By	Prospect	Validated By
Hole: RG12-12														
184.4 m	DD	NQ	UTM10N_NAD83	604128.8065	5813401.91	985.376	DGPS	03/12/2012	TimS	21/11/2012	23/11/2012	TimS	East Zone	

RG12-12 drilled through CrsPxPorAnd_BX underlain by plagioclase- phyric and pyroxene- phyric andesite and andesitic volcaniclastics. A single thick intrusive porphyry unit (probably monzonite) cuts CrsPxPorAnd_BX. No significant visible mineralisation.

GeoSpark Logger Print Logs ~ DH Surveys

DataSet: RG_GF

Hole ID: RG12-12

Depth (m)	Survey Method	Grid ID	Dip	Orig Azimuth	Surv. Tool Azimuth	Magnetic Declination	Corrected Azimuth	Magnetics	Date Surveyed	Survey Instrument	Bad Reading	Comments
0	COLL	UTM10N_NAD83	-50	115			115		22/11/2012	CMP	☐	
19.81	EZ Shot	UTM10N_NAD83	-48.8	115	96.6	18	114.6		22/11/2012	EZ	☐	
80.77	EZ Shot	UTM10N_NAD83	-47.9	115	101.6	18	119.6		22/11/2012	EZ	☐	
141.73	EZ Shot	UTM10N_NAD83	-48.8	115	95.3	18	113.3		23/11/2012	EZ	☐	
184.4	EZ Shot	UTM10N_NAD83	-48.7	115	98.4	18	116.4		23/11/2012	EZ	☐	

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-12

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	0	3.05	Overburden	Overburden (OB)	

Alteration:	**From (m)**	**To (m)**	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
Minerals:	**From (m)**	**To (m)**	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
Veining:	**From (m)**	**To (m)**	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:	**From (m)**	**To (m)**	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	3.05	32.63	Andesitic Autoclastic Breccia	Coarse pyroxene-phyric andesite (VANAB)	Matrix supported. Monomictic. Clasts are subrounded range from 2-10cm. Pyroxene phenocrysts 2-5mm with interstitial chlorite and plagioclase. Very strong propylitic overprint. Moderately magnetic. No visible chalcopyrite mineralization.

Alteration:	**From (m)**	**To (m)**	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
Minerals:	**From (m)**	**To (m)**	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
Veining:	**From (m)**	**To (m)**	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:	**From (m)**	**To (m)**	Type	Intensity	CA Angle
	19.11	19.13	VEIN_Uniq	M	75

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	32.63	33.43	Andesitic Sandstone	Volcanic sandstone (< 2mm) (VANSS)	Greenish laminated fine and medium- grained volcaniclastic sandstone. Beds oriented ~60° tca. Coarse pyroxene crystals occur within massive lower 20 cm thick bed. No visible Cpy mineralisation.

Alteration:	**From (m)**	**To (m)**	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
Minerals:	**From (m)**	**To (m)**	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
Veining:	**From (m)**	**To (m)**	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
	3.05	33.43	Vcarb	n/a	0.2										Weak veining, carbonate veining only.

Structure:	**From (m)**	**To (m)**	Type	Intensity	CA Angle
	32.63	33.43	BED		60

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-12

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	33.43	58.6	Andesitic Autoclastic Breccia	Coarse pyroxene-phyric andesite (VANAB)	Monomict dk grn cg px-phr and clasts in fg mtx. S Prop chl +Ep alt. Thin finger syenite/kspar vns may contain wk Cpy.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
3.05	58.6	Propy	OvPrnt	VS										Intense propylitic alteration with chlorite, epidote and pyrite. Minimal carbonate veining.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
3.05	58.6	Cpy	0.1	DIS	Py	0.5	DIS							Pyrite disseminated throughout. Weak disseminated cpy. Pyrite 0.5%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
33.43	58.6	Vkspar	±py±cpy	0.4	Vcarb		1							Thin fingering syenitic veinlets <6mm, 25-50°tca, 1/m between 45-58m, may contain weak chalcopyrite.Carbonate as veins <4mm, 20-70° tca, 3/m.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
34.45	34.55	BED		60
49	49.01	CI		45
50.05	50.07			30

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	58.6	78.2	Porphyritic Diorite	RG Medium plag-phyric diorite (IPD)	Plag +bio phyric intrusive, pinkish with white, biotite rich margins. Wk dis Cpy. Com'n pink Kspar/syen veins.

DataSet: RG_GF

Hole ID: RG12-12

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
58.6	78.2	Pot	Primary	M										Common thin Kspar/syenite veins/dykes, 20-50°tca.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
58.6	78.2	Cpy	0.2	DIS	Py	0.2	DIS							Common thin Kspar/syenite veins/dykes, 20-50°tca. Trace disseminated chalcopyrite and pyrite. Cpy ~0.2%, Py ~0.2%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
58.6	78.2	Vkspar	±py±cpy	0.25	Vcarb		1							Common thin Kspar/syenite veins/dykes, 20-50°tca.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
58.6	58.61	CI		35

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	78.2	83.44	Andesitic Autoclastic Breccia	Coarse pyroxene-phyric andesite (VANAB)	Pyx-phyr andesite brx. Clasts<10cm contain pyx pheno's <10mm. Common clasts plag phyr and. Wk dis Cpy+py. Rare Kspar fingers.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
78.2	83.44	Cpy	0.1	DIS	Py	0.75	DIS							Weakly disseminated chalcopyrite and pyrite. Cpy ~0.1%, Py ~0.75%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
78.2	83.44	Vcarb	n/a											Common carbonate veins

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
78.2	78.21	CI		50

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	83.44	85.95	Porphyritic Andesite	RG Hornblende-phyric andesite (IPAN)	Hbl needles <4mm in aphanitic grey-green groundmass.Upper and lower contacts ~45°tca. Abundant disseminated pyrite.

DataSet: RG_GF

Hole ID: RG12-12

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
83.44	84.95	Po	2	DIS										Abundant disseminated pyrite. Py ~2%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
83.44	84.95	NoVeins	n/a											

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
83.44	83.45	CI		50
84.95	84.96			45

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	85.95	115.57	Andesitic Autoclastic Breccia	Coarse pyroxene-phyric andesite (VANAB)	Cg Pyx-phyr and bx. Subrnd Clasts<15cm, may be plag phyr. Zones hyaloclastite. Common <10cm sst interbeds. Rare Kspar/Syen fingers may contain Cpy. Wk dis Cpy, common Py. Local Sph blebs?

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
78.2	115.57	Propy	OvPrnt	S										Strong pervasive epidote, pyrite and chlorite alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
84.95	115.57	Vkspar	±py±cpy±ep		Vcarb		1							Local Kspar/syenite fingers <1cm, 15- 50°tca, may contain chalcopyrite mineralisation. Common carbonate veins.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
91.55	91.58	CI		20
99.35	99.6	BED		65
101.8	102.3			70
105.36	105.45			60
106.72	106.9			
110.2	110.4	BRX		

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	115.57	146.65	Porphyritic Andesite	Fine plagioclase-phyric andesite (IPAN)	Fg (locally mg) and/vclastic. Dominated by fg vclastic sst and minor bx. Local bedding and normal grading. S perv Ep +Py+chl alt. Carb as vns and frac infill. Amber-Yel garnet <1cm w/in opal sil+carb+Ep pods. Wkly dis Cpy and Py.

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-12

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
115.57	146.65	Propy	OvPrnt	S										Strong pervasive epidote-pyrite-chlorite alteration. Carbonate as veins and fracture infill. Local garnet xtals <1cm in opalline sil+carb pods may be assoc w/ this assemblage.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
84.95	146.65	Cpy	0.2	DIS	Py	0.75	DIS							Rare Kspar vns, may contain Cpy. Weakly disseminated chalcopyrite, common pyrite. Cpy~ 0.2%, Py ~0.75%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
115.57	146.65	Vcarb	n/a	1										Carbonate as veins and fracture infill.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
116	116.4	BED		60
119.5	120.07			
132.25	132.35	RUB		

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	146.65	169.16	Porphyritic Andesite	Fine plagioclase-phyric andesite (IPAN)	Vclaztic brx of FnPlagAnd and poss. FnPxAnd clasts. Intense Ep+Carb+Zeo alt. Carb vns, <2mm, 2/m. Local patchy Cpy assoc w/ Ep. Weak dis Cpy, common Py.

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-12

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
146.65	169.16	Propy	OvPrnt	VS										Epidote and carbonate locally totally replace rock. Carbonate veins, <2mm, 25-70°tca, 2/m. Patchy zones of epidote+carbonate±zeolite or garnet replacement assoc w/ patchy Cpy.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
146.65	169.16	Cpy	0.5	PAT	Py	1.5	DIS							Patchy zones of epidote+carbonate±zeolite or garnet replacement associated with locally concentrated chalcopyrite. Common disseminated pyrite, weak disseminated chalcopyrite other than rare local patches.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
146.65	169.16	Vcarb	n/a	0.5										

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
160.7	160.71	FLT		75
160.85	160.86			55

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	169.16	184.4	Porphyritic Andesite	RG Fine Pyroxene Andesite Breccia clast-supp (VANAB)	Dk grey-green to black, fg pyx- phyric andesite brx. Subrnd –subang clasts <4cm ~40%, in fg black pyx- rich mtx. S chl + minor ep ovp. Local weak hematite alteration. Carbonate veins, <1mm, 25-70°tca, 4/m. Unmineralised. EOH

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
169.16	184.4	Propy	OvPrnt	S	Hem	OvPrnt	W							Strong chlorite + minor epidote overprint. Local weak hematite alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
169.16	184.4	UnMin	0											Not visibly mineralised

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
169.16	184.4	Vcarb	n/a	0.8										

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
169.16	169.17	CU		

GeoSpark Logger Print Logs ~ Geotechnical

DataSet: RG_GF

Hole ID: RG12-12

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	Comments
3.05	4.27	1.22	0.79	64.75	
4.27	4.88	0.61	0.76	124.59	
4.88	7.62	2.74	2.75	100.36	
7.62	10.67	3.05	3.05	100	
10.67	12.5	1.83	1.69	92.35	
12.5	13.72	1.22	1.38	113.11	
13.72	16.76	3.04	3.07	100.99	
16.76	19.81	3.05	2.98	97.7	
19.81	22.86	3.05	2.91	95.41	
22.86	25.91	3.05	2.92	95.74	
25.91	26.52	0.61	0.61	100	
26.52	28.96	2.44	2.41	98.77	
28.96	32	3.04	2.98	98.03	
32	35.05	3.05	3.06	100.33	
35.05	38.1	3.05	3.07	100.66	
38.1	41.15	3.05	2.98	97.7	
41.15	44.2	3.05	3.01	98.69	
44.2	47.24	3.04	3.03	99.67	
47.24	50.29	3.05	3.04	99.67	
50.29	53.34	3.05	3.07	100.66	
53.34	56.39	3.05	3	98.36	
56.39	59.44	3.05	3.07	100.66	
59.44	62.48	3.04	3.04	100	
62.48	65.53	3.05	2.96	97.05	
65.53	68.58	3.05	3.09	101.31	
68.58	71.63	3.05	3	98.36	
71.63	74.68	3.05	2.87	94.1	
74.68	77.72	3.04	3.08	101.32	
77.72	80.77	3.05	3.04	99.67	
80.77	83.82	3.05	2.91	95.41	
83.82	86.87	3.05	3.05	100	
86.87	89.92	3.05	2.6	85.25	
89.92	91.74	1.82	2.11	115.93	
91.74	94.79	3.05	3.08	100.98	
94.79	96.01	1.22	1.27	104.1	
96.01	99.06	3.05	2.89	94.75	
99.06	102.11	3.05	3.01	98.69	
102.11	105.16	3.05	3.01	98.69	
105.16	108.2	3.04	3.06	100.66	
108.2	111.25	3.05	3.04	99.67	
111.25	114.3	3.05	3.01	98.69	
114.3	117.35	3.05	3.02	99.02	
117.35	118.57	1.22	1.19	97.54	
118.57	121.62	3.05	3.05	100	
121.62	123.44	1.82	1.66	91.21	
123.44	126.49	3.05	3.01	98.69	
126.49	129.54	3.05	3.07	100.66	
129.54	132.59	3.05	2.84	93.11	
132.59	135.64	3.05	2.97	97.38	
135.64	137.77	2.13	1.93	90.61	
137.77	138.68	0.91	0.75	82.42	
138.68	141.73	3.05	2.96	97.05	
141.73	144.78	3.05	2.92	95.74	
144.78	147.83	3.05	3.05	100	
147.83	150.88	3.05	2.91	95.41	
150.88	153.92	3.04	2.96	97.37	
153.92	154.84	0.92	0.9	97.83	
154.84	156.97	2.13	1.93	90.61	
156.97	160.02	3.05	2.79	91.48	

Hole ID: **RG12-12**

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	Comments
160.02	163.07	3.05	3	98.36	
163.07	166.12	3.05	2.96	97.05	
166.12	169.16	3.04	2.99	98.36	
169.16	172.21	3.05	3.06	100.33	
172.21	175.26	3.05	3.03	99.34	
175.26	178.31	3.05	2.98	97.7	
178.31	181.36	3.05	2.88	94.43	
181.36	184.4	3.04	3.05	100.33	EOH

GeoSpark Logger Print Logs ~ Geotech Domains

DataSet: RG_GF

Hole ID: RG12-12

From (m)	To (m)	Interval Length	Natural Break Count	RQD (m)	RQD %	Domain Type	Rock Strength	Discont. Type 1	Discont. CA	Rough	Infill Type	Infill Thicknes	Discont. Type 2	Discont. CA	Rough	Infill Type	Infill Thicknes	Comments
3.05	32.63	29.58	88	21.07	71.23	LithChg	VS	vei	40	rap	una	t<1						
32.63	33.43	0.8	0	0.77	96.25	LithChg	VS	none	0	n/a	non	none						
33.43	58.6	25.17	58	21.49	85.38	LithChg	VS	vei	35	smu	sli	t<5	dis	60	smu	sof	t>5	
58.6	78.2	19.6	54	14.68	74.9	LithChg	VS	dis	45	smu	sli	t<1						
78.2	83.44	5.24	9	4.49	85.69	LithChg	VS	joi	45	smd	una	t<1						
83.44	84.95	1.51	3	1.25	82.78	LithChg	VS	joi	50	smd	una	t<1						
84.95	115.57	30.62	87	18.55	60.58	LithChg	VS	vei	40	smp	sli	t<1	vei	25	smu	mode	t<1	
115.57	146.65	31.08	112	16.73	53.83	LithChg	MS	dis	30	ssp	sli	t<1	joi	40	rau	una	t<1	
146.65	169.16	22.51	109	14.48	64.33	AltChg	S	joi	45	smu	sof	t<5	vei	40	rau	sli	t<1	
169.16	184.4	15.24	41	12.15	79.72	LithAltChg	VS	vei	75	rap	non	t<1	dis	55	smp	sof	t>5	EOH

GeoSpark Logger Print Logs ~ Mag Susceptibility

DataSet: RG_GF

Hole ID: RG12-12

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
3.05	4	0.95	57.32	50.27	24.64	44.077		DBigg	22/11/2012	
4	6	2	56.37	66.05	42.17	54.863		DBigg	22/11/2012	
6	8	2	34.97	17.71	44.37	32.35		DBigg	22/11/2012	
8	10	2	19.8	35.96	43.29	33.017		DBigg	22/11/2012	
10	12	2	50.8	69.26	75.89	65.317		DBigg	22/11/2012	
12	14	2	111.9	92.06	24.94	76.3		DBigg	22/11/2012	
14	16	2	33.71	48.75	6.781	29.747		DBigg	22/11/2012	
16	18	2	21.87	72.67	21.6	38.713		BG	23/11/2012	
18	20	2	30.19	48.03	9.37	29.197		BG	23/11/2012	
20	22	2	10.63	37.86	52.65	33.713		BG	23/11/2012	
22	24	2	36.29	60.61	54.68	50.527		BG	23/11/2012	
24	26	2	30.13	43.85	46.97	40.317		BG	23/11/2012	
26	28	2	9.26	45.49	28.25	27.667		BG	23/11/2012	
28	30	2	55.83	22.85	20.8	33.16		BG	23/11/2012	
30	31	1	64.81	50.21	69.81	61.61		BG	23/11/2012	
31	32.63	1.63	56.06	46.04	32.38	44.827		BG	23/11/2012	
32.63	33.43	0.8	1.06	2.09	1.79	1.647		BG	23/11/2012	
33.43	35	1.57	40.46	66.88	54.19	53.843		BG	23/11/2012	
35	37	2	65.65	50.57	99.58	71.933		BG	23/11/2012	
37	39	2	55.25	77.64	94.86	75.917		BG	23/11/2012	
39	41	2	54.41	55.36	62.95	57.573		BG	23/11/2012	
41	43	2	70.61	3.45	25.66	33.24		BG	23/11/2012	
43	45	2	72.5	42.27	55.6	56.79		BG	23/11/2012	
45	47	2	37.35	38.19	50.85	42.13		BG	23/11/2012	
47	49	2	15.71	53.11	77.84	48.887		BG	23/11/2012	
49	51	2	72.27	51.21	77.49	66.99		BG	23/11/2012	
51	53	2	72.74	75.85	87.81	78.8		BG	23/11/2012	
53	55	2	26.64	55.49	54.72	45.617		BG	23/11/2012	
55	57	2	88.71	78.67	74.57	80.65		BG	23/11/2012	
57	58.6	1.6	74.16	75.2	100.7	83.353		BG	23/11/2012	
58.6	60	1.4	115.1	92.01	80.13	95.747		BG	23/11/2012	
60	62	2	82.93	69	83.12	78.35		BG	23/11/2012	
62	64	2	75.19	75.4	60.28	70.29		BG	23/11/2012	
64	66	2	64.85	55.26	68.82	62.977		BG	23/11/2012	
66	68	2	70.67	61.69	61.65	64.67		BG	23/11/2012	
68	70	2	82.21	66.18	75.77	74.72		BG	23/11/2012	
70	72	2	96.09	81.06	97.5	91.55		BG	23/11/2012	

Hole ID: **RG12-12**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
72	74	2	71.71	72.13	68.63	70.823		BG	23/11/2012	
74	76	2	91.92	109.1	116.8	105.94		BG	23/11/2012	
76	77	1	112.8	109.8	181	134.533		BG	23/11/2012	
77	78.2	1.2	184.6	170.9	145.3	166.933		BG	23/11/2012	
78.2	80	1.8	104.4	101.7	87.89	97.997		BG	23/11/2012	
80	82	2	70.02	102.7	90.1	87.607		BG	23/11/2012	
82	83.44	1.44	99.62	96.61	39.7	78.643		BG	23/11/2012	
83.44	84.95	1.51	70.51	25.61	18.33	38.15		BG	23/11/2012	
84.95	87	2.05	94.76	49.7	83.43	75.963		BG	23/11/2012	
87	89	2	80.67	73.1	85.45	79.74		BG	23/11/2012	
89	91	2	84.77	146.7	136	122.49		BG	23/11/2012	
91	93	2	143.3	87.61	84.22	105.043		BG	23/11/2012	
93	95	2	79.43	88.35	65.49	77.757		BG	23/11/2012	
95	97	2	72.55	74.33	33.34	60.073		BG	23/11/2012	
97	99	2	84.58	71.2	42.28	66.02		BG	23/11/2012	
99	101	2	38.23	67.01	68.14	57.793		BG	23/11/2012	
101	103	2	86.39	73.71	54.36	71.487		BG	23/11/2012	
103	105	2	63.08	84.6	68.15	71.943		BG	23/11/2012	
105	107	2	47.19	51.57	49.41	49.39		BG	23/11/2012	
107	109	2	29.3	70.85	70.62	56.923		BG	23/11/2012	
109	111	2	62.9	59.53	40.33	54.253		BG	23/11/2012	
111	113	2	34.54	6.56	3.61	14.903		BG	23/11/2012	
113	114	1	52.07	70.26	1.95	41.427		BG	23/11/2012	
114	115.57	1.57	58.76	49.95	56.4	55.037		BG	23/11/2012	
115.57	117	1.43	33.8	51.94	54.01	46.583		BG	23/11/2012	
117	119	2	82.38	56.76	87.52	75.553		BG	23/11/2012	
119	121	2	65.71	48.48	28.5	47.563		BG	23/11/2012	
121	123	2	31.93	67.61	49.743	49.761		BG	23/11/2012	
123	125	2	52.58	35.43	75.47	54.493		BG	23/11/2012	
125	127	2	91.07	39.73	69.55	66.783		BG	23/11/2012	
127	129	2	69.55	69.11	55.11	64.59		BG	23/11/2012	
129	131	2	87.71	20.98	57.83	55.507		BG	23/11/2012	
131	133	2	94.63	88.08	85.94	89.55		BG	23/11/2012	
133	135	2	93.67	86.83	94.52	91.673		BG	23/11/2012	
135	137	2	91.43	80.32	103.1	91.617		BG	23/11/2012	
137	139	2	85.62	42.91	44.47	57.667		BG	23/11/2012	
139	141	2	74.65	54.12	39.72	56.163		BG	23/11/2012	
141	143	2	68.73	31.49	17.82	39.347		BG	23/11/2012	
143	145	2	37.04	29.3	16.74	27.693		BG	23/11/2012	

GeoSpark Logger Print Logs ~ Mag Susceptibility

Hole ID: **RG12-12**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
145	146.65	1.65	39.22	22.41	5.47	22.367		BG	23/11/2012	
146.65	148	1.35	3.62	5.03	3.69	4.113		BG	24/11/2012	
148	150	2	5.16	34.18	3.93	14.423		BG	24/11/2012	
150	152	2	5.57	3.41	37.33	15.437		BG	24/11/2012	
152	154	2	4.45	5.01	2.22	3.893		BG	24/11/2012	
154	156	2	2.75	1.04	1.8	1.863		BG	24/11/2012	
156	158	2	2.03	1.11	41.68	14.94		BG	24/11/2012	
158	160	2	2.26	14.58	2.57	6.47		BG	24/11/2012	
160	162	2	2.68	1.9	2.87	2.483		BG	24/11/2012	
162	164	2	2.19	42.66	16.58	20.477		BG	24/11/2012	
164	166	2	8.76	4.21	18.24	10.403		BG	24/11/2012	
166	168	2	18.87	3.13	8.73	10.243		BG	24/11/2012	
168	169.16	1.16	3.64	2.37	1.79	2.6		BG	24/11/2012	
169.16	171	1.84	7.2	30.39	3.23	13.607		BG	24/11/2012	
171	173	2	2.44	2.58	4.29	3.103		BG	24/11/2012	
173	175	2	6.15	49.15	58.76	38.02		BG	24/11/2012	
175	177	2	43.43	4.03	38.53	28.663		BG	24/11/2012	
177	179	2	15.28	33.77	33.88	27.643		BG	24/11/2012	
179	181	2	18.66	11.82	50.69	27.057		BG	24/11/2012	
181	183	2	12.98	60.28	43	38.753		BG	24/11/2012	
183	184.4	1.4	61.41	13.22	16.88	30.503		BG	24/11/2012	EOH

GeoSpark Logger Print Logs ~ Specific Gravity

DataSet: RG_GF

Hole ID: RG12-12

From (m)	To (m)	Sample ID	Sample Type	SG Method	Weight Dry (g)	Weight Wet (g)	Bulk Density	Lithology GF Code	Local Lith Code	Alt 1 Code	Alt Interp	Alt Int	Sulph. %	Date Sampled	Sampled By	Comments
27.37	27.47	P377664	WC	MEAS	584.5	390.2	3.01	VANAB	CrsPxAnd_BX	Propy	OvPrnt	M	1	23/11/2012	DBigg	
53.34	53.45	P377682	WC	MEAS	515.9	341.1	2.95	VANAB	CrsPxAnd_BX	Propy	OvPrnt	M	0.75	23/11/2012	DBigg	
78.08	78.2	P377696	WC	MEAS	708.6	462.9	2.88	IFD	MedPlagPorDio	Unalt	Unalt	None	0	23/11/2012	DBigg	
103.5	103.64	P377713	WC	MEAS	619.9	407.4	2.92	VANAB	CrsPxAnd_BX	Propy	OvPrnt	S	2	23/11/2012	DBigg	
128.56	128.69	P377727	WC	MEAS	737.8	483.8	2.9	IPAN	FnPlagAnd_PBX	Propy	OvPrnt	S	2	23/11/2012	DBigg	
152.76	152.88	P377743	WC	MEAS	656.2	432.8	2.94	IPAN	FnPlagAnd_PBX	Propy	OvPrnt	S	0.1	23/11/2012	DBigg	
177.1	177.23	P377757	WC	MEAS	647.3	423.3	2.89	VANAB	FnPxAnd_BXc	Propy	OvPrnt	W	0	24/11/2012	BG	EOH

GeoSpark Logger Print Logs ~ Specterra Data

DataSet: RG_GF

Hole ID: RG12-12

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:
3.05	4	P377651			

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

OH+H20 (1400nm)	1		2		3				
H20 (1900nm)	1		2		3				
Al-OH (2200nm)	1		2		3				
Fe-OH (2250nm)	1		2		3				
Mg-OH (2350nm)	1		2		3				
Other (nm)	1		2		3				

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:
4	6	P377652	0	walt	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

OH+H20 (1400nm)	1		2		3				
H20 (1900nm)	1		2		3				
Al-OH (2200nm)	1		2		3				
Fe-OH (2250nm)	1		2		3				
Mg-OH (2350nm)	1		2		3				
Other (nm)	1		2		3				

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
6	8	P377653	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1937	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2251	2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					
8	10	P377654	1	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2256	2		3					
					Mg-OH (2350nm)	1	2338	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
10	12	P377655	1	BxClast	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1913	2		3					
					Al-OH (2200nm)	1	2214	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
12	14	P377656	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1957	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
14	16	P377657	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1		2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
16	18	P377658	1	walt	OH+H20 (1400nm)	1	1397	2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2252	2		3					
					Mg-OH (2350nm)	1	2336	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
18	20	P377659	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2255	2		3					
					Mg-OH (2350nm)	1	2343	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
20	22	P377661	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2258	2		3					
					Mg-OH (2350nm)	1	2338	2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
22	24	P377662	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1923	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
24	26	P377663	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2256	2		3					
					Mg-OH (2350nm)	1	2341	2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
26	28	P377664	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1946	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2256	2		3					
					Mg-OH (2350nm)	1	2339	2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
28	30	P377665	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1957	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2341	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: RG12-12

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
30	31	P377666	2	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2254	2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1	1541	2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
31	32.63	P377667	0	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2248	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
32.63	33.43	P377668	1	walt	OH+H20 (1400nm)	1	1410	2		3					
Collection Comments:					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1	2205	2		3					
Interp Comments:					Fe-OH (2250nm)	1	2257	2		3					
					Mg-OH (2350nm)	1	2337	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
33.43	35	P377669	0	walt	OH+H20 (1400nm)	1		2		3					
Collection Comments:					H20 (1900nm)	1	1913	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1	2255	2		3					
					Mg-OH (2350nm)	1	2342	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
35	37	P377671	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1921	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
37	39	P377672	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1942	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
39	41	P377673	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1947	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
41	43	P377674	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1940	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2256	2		3				
					Mg-OH (2350nm)	1	2334	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
43	45	P377675	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1935	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
45	47	P377676	2	walt	OH+H20 (1400nm)	1	1410	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2254	2		3					
					Mg-OH (2350nm)	1	2341	2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
47	49	P377678	0	walt	OH+H20 (1400nm)	1	1411	2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
49	51	P377679	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
51	53	P377681	0	walt	OH+H20 (1400nm)	1	1410	2		3					
					H20 (1900nm)	1	1909	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2342	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
53	55	P377682	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1912	2		3					
					Al-OH (2200nm)	1	2207	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
55	57	P377683	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1949	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2358	2		3				
					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	
57	58.6	P377684	1	walt	OH+H20 (1400nm)	1	1408	2		3				
					H20 (1900nm)	1	1916	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2355	2		3				
					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
58.6	60	P377685	1	walt	OH+H20 (1400nm)	1	1410	2		3	
					H20 (1900nm)	1	1916	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2249	2		3	
					Mg-OH (2350nm)	1	2358	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
60	62	P377686	1	walt	OH+H20 (1400nm)	1	1477	2		3	
					H20 (1900nm)	1	1924	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2253	2		3	
					Mg-OH (2350nm)	1	2356	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
62	64	P377687	1	walt	OH+H20 (1400nm)	1	1477	2		3	
					H20 (1900nm)	1	1932	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2357	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
64	66	P377688	0	walt	OH+H20 (1400nm)	1	1410	2		3	
					H20 (1900nm)	1	1915	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2357	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
66	68	P377689	0	walt	OH+H20 (1400nm)	1	1410	2		3	
					H20 (1900nm)	1	1916	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2357	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
68	70	P377691	1	walt	OH+H20 (1400nm)	1	1410	2		3	
					H20 (1900nm)	1	1924	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2357	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
70	72	P377692	1	walt	OH+H20 (1400nm)	1	1477	2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2359	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
72	74	P377693	1	walt	OH+H20 (1400nm)	1	1411	2		3					
					H20 (1900nm)	1	1923	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2250	2		3					
					Mg-OH (2350nm)	1	2344	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☑ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
74	76	P377694	1	walt	OH+H20 (1400nm)	1	1412	2		3	
					H20 (1900nm)	1	1947	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2354	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
76	77	P377695	0	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1	1946	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2351	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
77	78.2	P377696	0	walt	OH+H20 (1400nm)	1	1410	2		3				
					H20 (1900nm)	1	1948	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2351	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
78.2	80	P377697	0	walt	OH+H20 (1400nm)	1	1410	2		3				
					H20 (1900nm)	1	1912	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2358	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
80	82	P377698	0	walt	OH+H20 (1400nm)	1	1407	2		3	
					H20 (1900nm)	1	1916	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2357	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
82	83.44	P377699	0	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1	1942	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
83.44	84.95	P377701	0	walt	OH+H20 (1400nm)	1	1400	2		3					
					H20 (1900nm)	1	1925	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2336	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
84.95	87	P377702	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1941	2		3					
					Al-OH (2200nm)	1	2206	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
87	89	P377703	0	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1932	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
89	91	P377704	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1		2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
91	93	P377706	3	vn	OH+H20 (1400nm)	1	1478	2		3	
					H20 (1900nm)	1	1932	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2237	2	2258	3	
					Mg-OH (2350nm)	1	2385	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
93	95	P377707	3	walt	OH+H20 (1400nm)	1	1478	2		3	
					H20 (1900nm)	1	1914	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2238	2	2283	3	
					Mg-OH (2350nm)	1	2358	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
95	97	P377708	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
97	99	P377709	2	walt	OH+H20 (1400nm)	1	1410	2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1	2204	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2339	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☑ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
99	101	P377711	2	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1916	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2256	2		3				
					Mg-OH (2350nm)	1	2337	2		3				
					Other (nm)	1		2		3				
101	103	P377712	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
103	105	P377713	1	walt	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1	1910	2		3						
					Al-OH (2200nm)	1	2207	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2338	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
105	107	P377714	3	walt	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1	1911	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1	2251	2		3						
					Mg-OH (2350nm)	1	2337	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
107	109	P377715	1	walt	OH+H20 (1400nm)	1	1396	2		3						
					H20 (1900nm)	1	1915	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
109	111	P377716	1	walt	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1	1910	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2339	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
111	113	P377717	2	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2256	2		3					
					Mg-OH (2350nm)	1	2335	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☑ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
113	114	P377718	2	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1923	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
114	115.57	P377719	0	walt	OH+H20 (1400nm)	1	1409	2		3	
					H20 (1900nm)	1	1915	2		3	
					Al-OH (2200nm)	1	2206	2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☑ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
115.57	117	P377721	0	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1	1932	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
117	119	P377722		walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1908	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
119	121	P377723	1	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1910	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2337	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
121	123	P377724	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1911	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
123	125	P377725	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1946	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2336	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
125	127	P377726	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1911	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
127	129	P377727	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1947	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
129	131	P377728	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1957	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
131	133	P377729	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
133	135	P377731	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
135	137	P377732	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
137	139	P377734	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
139	141	P377735	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1934	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material
141	143	P377736	0	walt

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Features:

OH+H20 (1400nm)	1		2		3			
H20 (1900nm)	1		2		3			
Al-OH (2200nm)	1		2		3			
Fe-OH (2250nm)	1		2		3			
Mg-OH (2350nm)	1		2		3			
Other (nm)	1		2		3			

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material
143	145	P377737	0	walt

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Features:

OH+H20 (1400nm)	1		2		3			
H20 (1900nm)	1		2		3			
Al-OH (2200nm)	1		2		3			
Fe-OH (2250nm)	1		2		3			
Mg-OH (2350nm)	1		2		3			
Other (nm)	1		2		3			

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
145	146.65	P377738	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1940	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
146.65	148	P377739	2	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1913	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2253	2		3				
					Mg-OH (2350nm)	1	2339	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
148	150	P377741	2	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2252	2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
150	152	P377742	2	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2254	2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
152	154	P377743	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1909	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2252	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
154	156	P377744	3	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1935	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2255	2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
156	158	P377745	2	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1932	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2254	2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
158	160	P377746	2	walt	OH+H20 (1400nm)	1	1404	2		3					
					H20 (1900nm)	1	1933	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2255	2		3					
					Mg-OH (2350nm)	1	2338	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
160	162	P377747	2	walt	OH+H20 (1400nm)	1	1396	2		3						
					H20 (1900nm)	1	1915	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1	2252	2		3						
					Mg-OH (2350nm)	1	2339	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
162	164	P377748	2	walt	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1	1946	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1	2251	2		3						
					Mg-OH (2350nm)	1	2337	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
164	166	P377749	2	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1932	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2253	2		3					
					Mg-OH (2350nm)	1	2385	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
166	168	P377751	2	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1913	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2254	2		3					
					Mg-OH (2350nm)	1	2337	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☑ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
168	169.16	P377752	2	walt	OH+H20 (1400nm)	1	1395	2		3	
					H20 (1900nm)	1	1915	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2253	2		3	
					Mg-OH (2350nm)	1	2338	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
169.16	171	P377753	0	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1		2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
171	173	P377754	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
173	175	P377755	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
175	177	P377756	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
177	179	P377757	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
179	181	P377758	0	vnenv	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
181	183	P377759	3	walt	OH+H20 (1400nm)	1	1397	2		3					
					H20 (1900nm)	1	1917	2		3					
					Al-OH (2200nm)	1	2207	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-12**

From (m)	To (m)	Sample	Spectra Quality	Sample Material
183	184.4	P377762	0	walt

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Features:

OH+H20 (1400nm)	1		2		3		
H20 (1900nm)	1		2		3		
Al-OH (2200nm)	1		2		3		
Fe-OH (2250nm)	1		2		3		
Mg-OH (2350nm)	1		2		3		
Other (nm)	1		2		3		

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

GeoSpark Logger Print Logs ~ DH Samples

DataSet: RG_GF

Hole ID: RG12-12

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
3.05	4	P377651	HC	BG	☐	
4	6	P377652	HC	BG	☐	
6	8	P377653	HC	BG	☐	
8	10	P377654	HC	BG	☐	
10	12	P377655	HC	BG	☐	
12	14	P377656	HC	BG	☐	
14	16	P377657	HC	BG	☐	
16	18	P377658	HC	BG	☐	
18	20	P377659	HC	BG	☐	
20	22	P377661	HC	BG	☐	
22	24	P377662	HC	BG	☐	
24	26	P377663	HC	BG	☐	
26	28	P377664	HC	BG	☐	
28	30	P377665	HC	BG	☐	
30	31	P377666	HC	BG	☐	
31	32.63	P377667	HC	BG	☐	
32.63	33.43	P377668	HC	BG	☐	
33.43	35	P377669	HC	BG	☐	
35	37	P377671	HC	BG	☐	
37	39	P377672	HC	BG	☐	
39	41	P377673	HC	BG	☐	
41	43	P377674	HC	BG	☐	
43	45	P377675	HC	BG	☐	
45	47	P377676	HC	BG	☑	
47	49	P377678	HC	BG	☐	
49	51	P377679	HC	BG	☐	
51	53	P377681	HC	BG	☐	
53	55	P377682	HC	BG	☐	
55	57	P377683	HC	BG	☐	
57	58.6	P377684	HC	BG	☐	
58.6	60	P377685	HC	BG	☐	
60	62	P377686	HC	BG	☐	
62	64	P377687	HC	BG	☐	
64	66	P377688	HC	BG	☐	
66	68	P377689	HC	BG	☐	
68	70	P377691	HC	BG	☐	
70	72	P377692	HC	BG	☐	

GeoSpark Logger Print Logs ~ DH Samples

Hole ID: **RG12-12**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
72	74	P377693	HC	BG	☐	
74	76	P377694	HC	BG	☐	
76	77	P377695	HC	BG	☐	
77	78.2	P377696	HC	BG	☐	
78.2	80	P377697	HC	BG	☐	
80	82	P377698	HC	BG	☐	
82	83.44	P377699	HC	BG	☐	
83.44	84.95	P377701	HC	BG	☐	
84.95	87	P377702	HC	BG	☐	
87	89	P377703	HC	BG	☐	
89	91	P377704	HC	BG	☑	
91	93	P377706	HC	BG	☐	
93	95	P377707	HC	BG	☐	
95	97	P377708	HC	BG	☐	
97	99	P377709	HC	BG	☐	
99	101	P377711	HC	BG	☐	
101	103	P377712	HC	BG	☐	
103	105	P377713	HC	BG	☐	
105	107	P377714	HC	BG	☐	
107	109	P377715	HC	BG	☐	
109	111	P377716	HC	BG	☐	
111	113	P377717	HC	BG	☐	
113	114	P377718	HC	BG	☐	
114	115.57	P377719	HC	BG	☐	
115.57	117	P377721	HC	BG	☐	
117	119	P377722	HC	BG	☐	
119	121	P377723	HC	BG	☐	
121	123	P377724	HC	BG	☐	
123	125	P377725	HC	BG	☐	
125	127	P377726	HC	BG	☐	
127	129	P377727	HC	BG	☐	
129	131	P377728	HC	BG	☐	
131	133	P377729	HC	BG	☐	
133	135	P377731	HC	BG	☐	
135	137	P377732	HC	BG	☑	
137	139	P377734	HC	BG	☐	
139	141	P377735	HC	BG	☐	
141	143	P377736	HC	BG	☐	
143	145	P377737	HC	BG	☐	

GeoSpark Logger Print Logs ~ DH Samples

Hole ID: **RG12-12**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
145	146.65	P377738	HC	BG	☐	
146.65	148	P377739	HC	BG	☐	
148	150	P377741	HC	BG	☐	
150	152	P377742	HC	BG	☐	
152	154	P377743	HC	BG	☐	
154	156	P377744	HC	BG	☐	
156	158	P377745	HC	BG	☐	
158	160	P377746	HC	BG	☐	
160	162	P377747	HC	BG	☐	
162	164	P377748	HC	BG	☐	
164	166	P377749	HC	BG	☐	
166	168	P377751	HC	BG	☐	
168	169.16	P377752	HC	BG	☐	
169.16	171	P377753	HC	BG	☐	
171	173	P377754	HC	BG	☐	
173	175	P377755	HC	BG	☐	
175	177	P377756	HC	BG	☐	
177	179	P377757	HC	BG	☐	
179	181	P377758	HC	BG	☐	
181	183	P377759	HC	BG	☑	
183	184.4	P377762	HC	BG	☐	EOH

GeoSpark Logger Print Logs ~ Duplicate Samples

DataSet: RG_GF

Hole ID: RG12-12

From (m)	To (m)	Sample ID	Original Sample ID	QC Category	Comments
45	47	P377677	P377676	FD	
89	91	P377705	P377704	FD	
135	137	P377733	P377732	FD	
181	183	P377761	P377759	FD	EOH

GeoSpark Logger Print Logs ~ Standards / Blanks

DataSet: RG_GF

Hole ID: RG12-12

Sample ID	Standard ID	Comments
P377660	WJN-STD2	
P377670	FB	
P377680	WJN-STD1	
P377690	FB	
P377700	WJN-STD2	
P377710	FB	
P377720	WJN-STD1	
P377730	FB	
P377740	WJN-STD2	
P377750	FB	
P377760	WJN-STD1	EOH

GeoSpark Logger Print Logs ~ Collars

DataSet: RG_GF

Depth (m)	Hole Type	Core Diamete	Grid ID	East	North	Elevation	Survey Method	Survey Date	Survey By	Date Started	Date Completed	Logged By	Prospect	Validated By
Hole: RG12-13														
281.33 m	DD	NQ	UTM10N_NAD83	603413	5812950	940	GPS	22/11/2012		25/11/2012	29/11/2012	TimS	Quarry Zone	

RG12-13 drilled through mg monzonite with several units of cross cutting syenite dykes. V wk dis Cpy mineralisation throughout.

GeoSpark Logger Print Logs ~ DH Surveys

DataSet: RG_GF

Hole ID: RG12-13

Depth (m)	Survey Method	Grid ID	Dip	Orig Azimuth	Surv. Tool Azimuth	Magnetic Declination	Corrected Azimuth	Magnetics	Date Surveyed	Survey Instrument	Bad Reading	Comments
0	COLL	UTM10N_NAD83	-55	330			330		28/11/2012	CMP	☐	
26.21	EZ Shot	UTM10N_NAD83	-54.6	330	311.7	18	329.7		26/11/2012	EZ	☐	
86.87	EZ Shot	UTM10N_NAD83	-54.7	330	292.2	18	310.2		26/11/2012	EZ	☑	possible bad reading
147.83	EZ Shot	UTM10N_NAD83	-55	330	315.6	18	333.6		28/11/2012	EZ	☐	
208.79	EZ Shot	UTM10N_NAD83	-55.4	330	314.7	18	332.7		26/11/2012	EZ	☐	
269.75	EZ Shot	UTM10N_NAD83	-55.5	330	317.6	18	335.6		27/11/2012	EZ	☐	

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-13

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	0	6.4	Overburden	Overburden (OB)	

Alteration:	From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments

Minerals:	From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments

Veining:	From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:	From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	6.4	26.7	Fine Grained Monzonite	Fine-grained Diorite (IFD)	Probably monz. Eqg euh plag+kspar, hbl, bio. Mod Kspar flood, shreddy bio+fg mag alt. Bio+chl+mag repl hbl. Thin Kspar vns may contain blebs Cpy. Wk dis Cpy.

Alteration:	From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
	6.4	26.7	Pot	Primary	M										Moderate pervasive Kspar flooding, shreddy biotite and fine grained magnetite. Biotite+chlorite may replace hornblende.

Minerals:	From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments

Veining:	From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:	From (m)	To (m)	Type	Intensity	CA Angle
	13.89	13.9	FLTBX	W	55
	26.69	26.7	CI		40

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	26.7	72.3	Medium Grained Monzonite	Medium-grained monzonite (1-4mm) (IMMO)	Mg Eqg -hbl-phyr monz. Euh plag, subh Kspar, euh hbl, euh bio. Fg bio+mag may be 2ry. Mod Kspar flood. Hbl repl by mag+bio+chl. Rare clastic dykes. Thin Kspar vns contain cpy. Wk dis Cpy th/out.

DataSet: RG_GF

Hole ID: RG12-13

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
6.4	72.3	Cpy	0.25	DIS										Undulating thin syenite/Kspar veins, (<1cm, 15-70°tca, 1-2/m) may contain blebby cpy. Weakly disseminated chalcopyrite throughout.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
6.4	72.3	Vkspar	±cpy	1	Vcarb		1							Common carbonate veins. Undulating thin syenite/Kspar veins, (<1cm, 15-70°tca, 1-2/m) may contain blebby cpy.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
31.1	31.15	FLTBX	W	20
35.5	35.6	RUB		
43.73	43.75	FLTG	M	50
43.75	43.8	BRX		

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	72.3	73.3	Medium Grained Monzonite	Medium-grained monzonite (1-4mm) (IMMO)	Mg Eqg -hbl-phyr monz. Euh plag, subh Kspar, euh hbl, euh bio. Fg bio+mag may be 2ry. Mod Kspar flood. Hbl repl by mag+bio+chl. Com'n FnPxAnd xenoliths may contain Bo. Wk dis Cpy th/out.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
72.3	73.3	NoVeins	n/a											

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	73.3	101.84	Medium Grained Monzonite	Medium-grained monzonite (1-4mm) (IMMO)	Mg Eqg -hbl-phyr monz. Euh plag, subh Kspar, euh hbl, euh bio. Fg bio+mag may be 2ry. Mod Kspar flood. Hbl repl by mag+bio+chl. Thin Kspar vns contain cpy. Wk dis Cpy th/out. Syenite inclusions, may be dykes contain Bo. Rare Bo+Cpy vns.

DataSet: RG_GF

Hole ID: RG12-13

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
26.7	101.84	Pot	Primary	M										Moderate Kspar flooding. Hornblende crystals are largely replaced by fine- grained biotite, magnetite and chlorite.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
72.3	101.84	Cpy	0.25	DIS	Bor	0.1	REPL							Very rare cpy±bo vns, ~40°tca. Bo concentrated along margins of syenite dyke. Undulating thin Kspar vns, (<1cm, 15-70°tca, 1/m) may contain blebby cpy. Cpy ~0.25%, Bo~0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
73.3	101.84	Vkspar	±cpy	0.5	Vcarb		0.5							Common carbonate veins. Undulating thin syenite/Kspar veins, (<1cm, 15-70°tca, 1-2/m) may contain blebby cpy.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
95.15	95.16	CI		50
95.5	95.51			20

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	101.84	102.84	Coarse Grained Syenite	RG Coarse Syenite (ICSY)	Cg K-phyric Syenite. Euh, simply twinned Kspar <1.5cm., minor bi+hbl in pink massive gmass. Appears to intrude monz. K laths <1cm align to possibly chilled contacts. Cpy w/in mafics and as rare blebs.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
101.84	102.76	Pot	Primary	S										

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
101.84	102.76	Cpy	0.2	REPL										Chalcopyrite occurs within mafics, and in rare isolated blebs.Cpy ~ 0.2%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
101.84	102.76	Vcarb	n/a	0.5										Single vein subparallel to intrusion.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
101.84	101.85	CI		15
102.75	102.76			

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	102.84	115.3	Medium Grained Monzonite	Medium-grained monzonite (1-4mm) (IMMO)	Mg eqg - hbl- phyric monz. Euh plag, subhedral-intrstl Kspar, euh hbl, euh bio. Tr dis Cpy.

DataSet: RG_GF

Hole ID: RG12-13

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
102.76	115.3	Pot	Primary	M										Weak kspar flooding, Bio+Mag+chl replace hbl xtals.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
102.76	115.34	Cpy	0.1	DIS										Trace chalcopyrite

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
102.76	115.34	Vcarb	n/a	0.25										

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	115.3	120	Medium Grained Syenite	RG Medium-grained syenite (IMSY)	Red-pinkish mass to plag+qz phyric syenite.55% semi-xtalline Kspar gmass.Plag pheno's alt to carb. Hbl pheno's alt to chl+bio. Rare Cpy str, <1mm, 20 deg tca.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
115.3	120	Pot	Primary	M	Propy	OvPrnt	M							Carbonate replaces plagioclase pheno's. Biotite replaces hornblende

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
115.34	120	Cpy	0.5	DIS										Patchy disseminated chalcopyrite, rare chalcopyrite stringers. Cpy ~0.5%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
115.34	120	Vcpy	±carb		Vcarb									Rare thin carbonate veins. Patchy disseminated chalcopyrite, rare chalcopyrite stringers.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
115.3	115.31	CI		45

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	120	127.22	Medium Grained Monzonite	Medium-grained monzonite (1-4mm) (IMMO)	Mg Eqg -hbl-phyr monz. Euh plag, subh Kspar, euh hbl, euh bio. Fg bio+mag may be 2ry. Mod Kspar flood. Hbl repl by mag+bio+chl. Thin Kspar vns contain cpy. Wk dis Cpy th/out.

DataSet: RG_GF

Hole ID: RG12-13

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
120	127.22	Cpy	0.25	VEN										Undulating to planar thin syenite/Kspar veins, (<1cm, 15-70°tca, 1/m) may contain blebby cpy. Trace disseminated chalcopyrite, commonly within hornblende crystals.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
120	127.22	Vkspar	±cpy	1	Vcarb		0.25							Rare carbonate veins, <4mm, ~50°tca. Undulating to planar thin syenite/Kspar veins, (<1cm, 15-70°tca, 1/m) may contain blebby cpy.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
120	120.01	CI		45

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	127.22	130.6	Coarse Grained Syenite	RG Coarse Syenite (ICSY)	Cg pink Kspar-phyric syen. Anh-locally euh trachytic Kspar laths, subh plag and mafics incl alt hbl. Rare carb veins. Rare Cpy±Bo vns, Cpy coats frac surf, wkly dis th/out.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
127.22	130.6	Cpy	0.5	VEN	Bor	0.1	DIS							Chalcopyrite±bornite veins, <1mm, 10°tca, 1/m. Chalcopyrite coats fracture surfaces. Weakly disseminated chalcopyrite. Cpy ~ 0.5%, trace Bo.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
127.22	130.6	Vcpy	±bor	0.1	Vcarb		0.2							Rare carbonate veins <2mm, 20°tca, 1/m. Chalcopyrite±bornite veins, <1mm, 10°tca, 1/m. Chalcopyrite coats fracture surfaces.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
127.22	127.23	CI		50

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	130.6	145.35	Medium Grained Monzonite	Medium-grained monzonite (1-4mm) (IMMO)	Mg Eqg -hbl-phyr monz. Euh plag, subh Kspar, euh hbl, euh bio. Fg bio+mag may be 2ry. Mod Kspar flood. Hbl repl by mag+bio+chl. Thin Kspar vns contain cpy. Wk dis Cpy th/out.

DataSet: RG_GF

Hole ID: RG12-13

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
120	145.35	Pot	Primary	M										Weak kspar flooding, Bio+Mag+chl replace hbl xtals.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
130.6	145.35	Vkspar	±cpy	1	Vcarb		0.25							Rare carbonate veins, <4mm, ~50°tca. Undulating to planar thin syenite/Kspar veins, (<1cm, 15-70°tca, 1/m) may contain blebby cpy.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
130.6	130.61	CI		45
134.15	134.25	FLTG	S	
135	135.02	FLT	M	50
137.4	137.45	FLTG		40

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	145.35	153.3	Medium Grained Monzonite	Medium-grained monzonite (1-4mm) (IMMO)	Dk red-brn mg eqg monz. As above, but s carb ovp. Plag and hbl alt to carb. V com'n bright orange zeolite vns (laumonite?). Gouge-filled faults at upper and lower margins, assoc w/ carb+chl healed flr brx.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
145.35	153.3	Unkn	OvPrnt	S	Pot	Primary	W							Strong carbonate alteration overprints weak potassic alteration; hornblende crystals altered to carbonate and chlorite, plagioclase crystals altered to carbonate.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
145.35	153.3	Voth	±carb	1										Common bright orange undulating to discontinuous zeolite±carbonate veins, 0-90°tca, <2mm, 3/m.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
145.35	145.4	FLTG	S	45
145.4	145.5	FLTBX	M	60
152.5	152.7	FLTG	S	

DataSet: RG_GF

Hole ID: RG12-13

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	153.3	164.12	Medium Grained Monzonite	Medium-grained monzonite (1-4mm) (IMMO)	Mg Eqg -hbl-phyr monz. Euh plag, subh Kspar, euh hbl, euh bio. Fg bio+mag may be 2ry. Mod Kspar flood. Hbl repl by mag+bio+chl. Thin Kspar vns contain cpy. Wk dis Cpy th/out.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
153.3	164.12	Pot	Primary	W										fine- grained biotite+magnetite (10%, may be secondary). Wk kspar flooding

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
130.6	164.12	Cpy	0.25	VEN										Undulating to planar thin syenite/Kspar veins, (<1cm, 15-70°tca, 1/m) may contain blebby cpy. Trace disseminated chalcopyrite, commonly within hornblende crystals.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
153.3	164.12	Vkspar	±cpy	1	Vcarb									Rare carbonate veins, <4mm, ~50°tca. Undulating to planar thin syenite/Kspar veins, (<1cm, 30-70°tca, 1/m) may contain blebby cpy.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	164.12	170.72	Coarse Grained Syenite	RG Coarse Syenite (ICSY)	Cg pink Kspar-phyric syen. Anh-locally euh trachytic Kspar laths, subh plag and mafics incl alt hbl. Rare carb veins. Rare Cpy±Bo vns, Cpy coats frac surf, wkly dis th/out.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
164.12	170.72	Pot	Primary	M										

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
164.12	170.72	Cpy	0.5	FRA										Chalcopyrite coats fracture surfaces. Weakly disseminated chalcopyrite, rare blebs <4mm. Cpy ~ 0.5%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
164.12	170.72	Vcarb	n/a	0.2										Rare carbonate veins <2mm, 20°tca, 1/m. Chalcopyrite coats fracture surfaces.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
164.12	164.13	CI		45

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-13

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	170.72	199.88	Medium Grained Monzonite	Medium-grained monzonite (1-4mm) (IMMO)	Mg Eqg -hbl-phyr monz. Euh plag, subh Kspar, euh hbl, euh bio. Fg bio+mag may be 2ry. W-patchyS pot alt near syen inclusions/dyk. Hbl repl by mag+bio+chl. Thin Kspar vns contain cpy. Wk dis Cpy th/out.Tr Bo intrgrn w/ cpy

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
170.72	199.88	Pot	Primary	S										Weak to patchily strong potassic alteration; commonly proximal to Kspar veins and syenitic inclusions/dykelets

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
170.72	199.88	Cpy	0.25	REPL	Bor	0.1	DIS							Trace disseminated chalcopyrite, commonly within hornblende crystals. Rare trace bornite intergrown with chalcopyrite. Thin Kspar vns cont Cpy. Cpy ~ 0.25%, trace Bo

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
170.72	199.88	Vkspar	±cpy	1	Vcarb									Rare carbonate veins, <4mm, ~10-50tca. Undulating to planar thin syenite/Kspar veins, (<1cm, 30-70°tca, 1/m) may contain blebby cpy.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
172.72	172.73	CI		45
190.45	190.6			
193.55	193.8	RUB		

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	199.88	207.15	Coarse Grained Syenite	RG Coarse Syenite (ICSY)	Cg Kspar-phyric pink syen. Local trachytic Kspar laths<1cm. Wk diss cpy, blebs <3mm concentrate near upper cont. May contain Bo

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
199.88	207.15	Pot	Primary	W										Mostly primary kspar

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
199.88	207.15	Cpy	0.5	DIS										Weakly disseminated chalcopyrite, blebs <3mm appear to concentrate at upper contact and may contain bornite. Cpy ~ 0.5%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
199.88	207.15	Vcarb	n/a											Rare carbonate veins <2mm, 20°tca, 1/m.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
199.88	199.89	CI		45

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	207.15	226.26	Medium Grained Monzonite	Medium-grained monzonite (1-4mm) (IMMO)	Mg Eqg -hbl-phyr monz. Euh plag, subh Kspar, euh hbl, euh bio. Fg bio+mag may be 2ry. W-patchy S pot alt near syen inclusions/dyk. Hbl repl by mag+bio+chl. Thin Kspar vns contain cpy. Wk dis Cpy th/out.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
207.15	226.26	Pot	Primary	M										Weak to patchily strong potassic alteration; commonly proximal to Kspar veins and syenitic inclusions/dykelets

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
207.15	226.26	Cpy	0.25	DIS										Undulating to planar thin syenite/Kspar veins, (<1cm, 30-70°tca, 1/m) may contain blebby cpy. Trace disseminated chalcopyrite, commonly within hornblende crystals.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
207.15	226.26	Vkspar	±cpy	1	Vcarb									Rare carbonate veins, <4mm, ~10-50tca. Undulating to planar thin syenite/Kspar veins, (<1cm, 30-70°tca, 1/m) may contain blebby cpy.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
207.15	207.16	CI		45

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	226.26	252.43	Coarse Grained Syenite	RG Coarse Syenite (ICSY)	Cg Kspar-phyr pink syenite dyke. Local trachytic tex def by Kspar. Sharp upper cont~ 45°tca. Rare carb vns. Wk dis and local blebby Cpy

DataSet: RG_GF

Hole ID: RG12-13

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
226.26	252.43	Pot	Primary	M										Alteration or primary Kspar?

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
226.26	252.43	Cpy	0.25	DIS										Chalcopyrite locally concentrated in carbonate±chlorite healed fault fabric. Weakly disseminated chalcopyrite, rare blebs <3mm. Cpy ~0.25%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
226.26	252.34	Vcarb	±chl±cpy	0.9										Common carbonate veins, <3mm, 25-50° tca, 3/m. Chalcopyrite locally concentrated in carbonate±chlorite healed fault fabric.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
226.26	226.27	CI		45
229.25	229.28	FLTBX		30

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	252.43	256.6	Porphyritic Monzonite	Plag-Kspar-phyric monz or mixing zone (IPMO)	Grad cont w/ Crs syen. Mottled mg Kspar, plag, hbl+bio in pink K-rich gmass. Mod patchy Pot alt. Local <20cm inclusions MedMonz. Interpreted as mixing zone. Com'n carb veins, <3mm, 25-50° tca, 3/m. Trace dis Cpy.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	256.6	259.2	Medium Grained Monzonite	Medium-grained monzonite (1-4mm) (IMMO)	Zenolith MedMonz w/in PlagKsparPorMonz. Diffuse, undulating contacts. Patchy pot alt. Tr dis Cpy.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	259.2	266.25	Porphyritic Monzonite	Plag-Kspar-phyric monz or mixing zone (IPMO)	Grad cont w/ Crs syen. Mottled mg Kspar, plag, hbl+bio in pink K-rich gmass. Mod patchy Pot alt. Local <20cm inclusions MedMonz. Interpreted as mixing zone. Com'n carb veins, <3mm, 25-50° tca, 3/m. Trace dis Cpy.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	266.25	281.33	Medium Grained Monzonite	Medium-grained monzonite (1-4mm) (IMMO)	Mg Eqg - Hbl-phyr monz. Euh plag, subh Kspar, euh hbl, euh bio. Fg bio+mag may be 2ry. W-patchy S pot alt. Hbl repl by mag+bio+chl. Wk dis Cpy th/out.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
252.43	281.33	Pot	Primary	M										Patchy zones of stronger Kspar alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
252.43	281.33	Cpy	0.1	DIS										Consistant but very weak disseminated chalcopyrite.

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
252.34	281.33	Vcarb	n/a	0.9										Common carbonate veins, <3mm, 25-50° tca, 3/m.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
266.25	266.26	CI		40
269.4	269.75	RUB	W	

DataSet: RG_GF

Hole ID: RG12-13

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	Comments
6.4	7.62	1.22	0.91	74.59	
7.62	10.06	2.44	2.47	101.23	
10.06	10.67	0.61	0.57	93.44	
10.67	13.72	3.05	2.98	97.7	
13.72	16.76	3.04	3.06	100.66	
16.76	19.81	3.05	2.94	96.39	
19.81	22.86	3.05	3.2	104.92	
22.86	25.91	3.05	2.93	96.07	
25.91	28.65	2.74	2.85	104.01	
28.65	31.7	3.05	2.97	97.38	
31.7	34.75	3.05	3.04	99.67	
34.75	37.8	3.05	3.12	102.3	
37.8	40.84	3.04	2.99	98.36	
40.84	43.89	3.05	3.12	102.3	
43.89	46.94	3.05	2.98	97.7	
46.94	49.99	3.05	3.15	103.28	
49.99	53.04	3.05	3.1	101.64	
53.04	56.08	3.04	3	98.68	
56.08	56.39	0.31	0.28	90.32	
56.39	59.44	3.05	2.95	96.72	
59.44	62.48	3.04	3.04	100	
62.48	65.53	3.05	3.09	101.31	
65.53	68.58	3.05	3.07	100.66	
68.58	71.63	3.05	3.06	100.33	
71.63	74.68	3.05	3.03	99.34	
74.68	77.72	3.04	3.03	99.67	
77.72	80.77	3.05	3.02	99.02	
80.77	83.82	3.05	3.01	98.69	
83.82	86.87	3.05	3.1	101.64	
86.87	89.92	3.05	3.04	99.67	
89.92	92.96	3.04	2.96	97.37	
92.96	96.01	3.05	3.11	101.97	
96.01	99.06	3.05	3.06	100.33	
99.06	102.11	3.05	3.05	100	
102.11	105.16	3.05	3	98.36	
105.16	108.2	3.04	3.12	102.63	
108.2	111.25	3.05	3.01	98.69	
111.25	114.3	3.05	3.02	99.02	
114.3	117.35	3.05	3.05	100	
117.35	120.09	2.74	2.76	100.73	
120.09	123.14	3.05	3.02	99.02	
123.14	126.19	3.05	3.02	99.02	
126.19	129.24	3.05	3.07	100.66	
129.24	132.28	3.04	3.15	103.62	
132.28	132.59	0.31	0.3	96.77	
132.59	135.64	3.05	2.93	96.07	
135.64	138.68	3.04	2.97	97.7	
138.68	141.73	3.05	2.98	97.7	
141.73	144.78	3.05	3.06	100.33	
144.78	147.83	3.05	3.1	101.64	
147.83	150.88	3.05	3.04	99.67	
150.88	153.92	3.04	3	98.68	
153.92	156.97	3.05	3.05	100	
156.97	160.02	3.05	2.99	98.03	
160.02	163.07	3.05	3.05	100	
163.07	166.12	3.05	3.08	100.98	
166.12	169.16	3.04	3.03	99.67	
169.16	172.21	3.05	3.02	99.02	
172.21	175.26	3.05	3.03	99.34	

Hole ID: **RG12-13**

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	Comments
175.26	178.31	3.05	2.86	93.77	
178.31	181.36	3.05	3.09	101.31	
181.36	184.4	3.04	3.13	102.96	
184.4	187.45	3.05	3.07	100.66	
187.45	189.59	2.14	2.16	100.93	
189.59	192.63	3.04	3.09	101.64	
192.63	193.55	0.92	0.8	86.96	
193.55	196.6	3.05	3.01	98.69	
196.6	199.64	3.04	3.05	100.33	
199.64	202.69	3.05	3.03	99.34	
202.69	205.74	3.05	3.06	100.33	
205.74	208.79	3.05	3.02	99.02	
208.79	210.92	2.13	2.21	103.76	
210.92	213.97	3.05	3.13	102.62	
213.97	217.02	3.05	3.06	100.33	
217.02	217.93	0.91	0.69	75.82	
217.93	220.98	3.05	3.02	99.02	
220.98	224.03	3.05	2.99	98.03	
224.03	227.08	3.05	3	98.36	
227.08	230.12	3.04	3.01	99.01	
230.12	233.17	3.05	3.09	101.31	
233.17	236.22	3.05	3.01	98.69	
236.22	239.27	3.05	3.06	100.33	
239.27	242.32	3.05	3.05	100	
242.32	245.36	3.04	3.002	98.75	
245.36	248.41	3.05	3.06	100.33	
248.41	251.46	3.05	3	98.36	
251.46	254.51	3.05	3.09	101.31	
254.51	257.56	3.05	2.97	97.38	
257.56	260.6	3.04	3.03	99.67	
260.6	263.65	3.05	2.94	96.39	
263.65	266.7	3.05	2.98	97.7	
266.7	269.75	3.05	3	98.36	
269.75	272.8	3.05	3.1	101.64	
272.8	275.84	3.04	2.91	95.72	
275.84	278.89	3.05	3.02	99.02	
278.89	281.33	2.44	2.41	98.77	EOH

GeoSpark Logger Print Logs ~ Geotech Domains

DataSet: RG_GF

Hole ID: RG12-13

From (m)	To (m)	Interval Length	Natural Break Count	RQD (m)	RQD %	Domain Type	Rock Strength	Discont. Type 1	Discont. CA	Rough	Infill Type	Infill Thicknes	Discont. Type 2	Discont. CA	Rough	Infill Type	Infill Thicknes	Comments
6.4	26.7	20.3	61	15.4	75.86	LithChg	S	vei	75	smu	non	t<1	vei	30	smu	non	t<1	
26.7	72.3	45.6	133	38.84	85.18	LithChg	S	joi	75	rap	non	t<1	vei	20	rap	non	t<1	
72.3	73.3	1	1	0.98	98	LithChg	VS	vei	80	smu	sli	t<5						
73.3	101.84	28.54	52	27.18	95.23	LithChg	S	vei	70	rap	non	t<5	vei	20	smu	non	t<5	
101.84	102.76	0.92	0	0.92	100	LithChg	VS	vei	10	n/a	non	none						
102.76	115.3	12.54	19	12.09	96.41	LithChg	VS	vei	30	rau	non	t<5						
115.3	120	4.7	10	3.31	70.43	LithChg	S	joi	70	rap	non	t<1						
120	127.22	7.22	23	6.13	84.9	LithChg	S	vei	60	rap	non	t<5						
127.22	130.6	3.38	7	2.48	73.37	LithChg	S	joi	80	rap	non	t<1						
130.6	145.35	14.75	78	10.84	73.49	AltChg	VS	vei	70	rap	sli	t<1	dis	0	gpu	bad	nwc	
145.35	153.3	7.95	60	4.64	58.36	AltChg	S	vei	45	rap	non	t<1	dis	35	ssu	sof	t>5	
153.3	164.12	10.82	19	9.51	87.89	LithChg	VS	vei	20	smu	non	t<1						
164.12	170.72	6.6	6	6.42	97.27	LithChg	VS	joi	75	rap	non	t<1						
170.72	199.88	29.16	61	26.46	90.74	LithChg	VS	joi	45	smu	non	t<1						
199.88	207.15	7.27	6	7.11	97.8	LithChg	VS	vei	30	rap	sli	t<5						
207.15	252.43	45.28	36	41.5	91.65	LithChg	S	vei	35	rau	sof	t<1						
252.43	256.6	4.17	3	3.81	91.37	LithChg	MS	vei	33	rau	sof	t<5						
256.6	259.2	2.6	4	2.45	94.23	LithChg	VS	joi	30	rap	mode	t<1						
259.2	266.25	7.05	21	4.6	65.25	LithChg	MS	joi	27	smu	sof	t<1	dis	70	smu	sof	t>5	
266.25	281.33	15.08	38	11.55	76.59	LithChg	S	joi	27	smu	sof	t<1	vei	17	rap	sof	t<1	EOH

GeoSpark Logger Print Logs ~ Mag Susceptibility

DataSet: RG_GF

Hole ID: RG12-13

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
6.4	8	1.6	72.44	81.67	70.02	74.71		Mki	26/11/2012	
8	10	2	77.52	100.6	91.78	89.967		Mki	26/11/2012	
10	12	2	78.87	83.24	86.11	82.74		Mki	26/11/2012	
12	14	2	82.07	87.89	59.59	76.517		Mki	26/11/2012	
14	16	2	92.16	86.62	94.82	91.2		Mki	26/11/2012	
16	18	2	95.95	101.6	78.35	91.967		Mki	26/11/2012	
18	20	2	72.21	79.35	76.77	76.11		Mki	26/11/2012	
20	22	2	76.93	80.45	99.55	85.643		Mki	26/11/2012	
22	24	2	63.27	94.17	96.2	84.547		Mki	26/11/2012	
24	25	1	107.4	108.2	116.8	110.8		Mki	26/11/2012	
25	26.7	1.7	99.98	96.15	96.14	97.423		Mki	26/11/2012	
26.7	28	1.3	111.6	149.8	124.9	128.767		Mki	26/11/2012	
28	30	2	109.7	108.7	95.45	104.617		Mki	26/11/2012	
30	32	2	87.73	79.99	133.6	100.44		Mki	26/11/2012	
32	34	2	84.4	81.07	110	91.823		Mki	26/11/2012	
34	36	2	101.6	54.77	93.7	83.357		Mki	26/11/2012	
36	38	2	104.2	134.6	129.3	122.7		Mki	26/11/2012	
38	40	2	126.5	134.7	136.3	132.5		Mki	26/11/2012	
40	42	2	131.5	127.2	129.7	129.467		Mki	26/11/2012	
42	44	2	129.9	118.2	120.3	122.8		Mki	26/11/2012	
44	46	2	98.11	126.7	120.2	115.003		Mki	26/11/2012	
46	48	2	118.8	113	117.9	116.567		Mki	26/11/2012	
48	50	2	127.1	101	126.1	118.067		Mki	26/11/2012	
50	52	2	117.3	118.1	71.03	102.143		Mki	26/11/2012	
52	54	2	126.7	144.6	113.9	128.4		Mki	26/11/2012	
54	56	2	107.7	99.77	136.6	114.69		Mki	26/11/2012	
56	58	2	120.5	101.6	123.6	115.233		Mki	26/11/2012	
58	60	2	88.87	123.5	111.9	108.09		Mki	26/11/2012	
60	62	2	115.6	123.3	127	121.967		Mki	26/11/2012	
62	64	2	124.9	118	74.08	105.66		Mki	26/11/2012	
64	66	2	97.82	134.1	121.2	117.707		Mki	26/11/2012	
66	68	2	71.68	90.95	126	96.21		Mki	26/11/2012	
68	70	2	132.1	120.9	114	122.333		Mki	26/11/2012	
70	71	1	94.69	138.2	120.1	117.663		Mki	26/11/2012	
71	72.3	1.3	133.6	109	119.7	120.767		Mki	26/11/2012	
72.3	73.3	1	124.3	147.4	166	145.9		Mki	26/11/2012	
73.3	75	1.7	151.8	114.5	113.2	126.5		Mki	26/11/2012	

Hole ID: **RG12-13**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
75	77	2	96.25	112	92.37	100.207		Mki	26/11/2012	
77	79	2	109.3	124.2	57.66	97.053		Mki	26/11/2012	
79	81	2	88.92	113.7	122.1	108.24		Mki	26/11/2012	
81	83	2	171.1	164.5	120.5	152.033		Mki	26/11/2012	
83	85	2	102	105.5	138.8	115.433		Mki	26/11/2012	
85	87	2	64.75	115.5	119	99.75		Mki	26/11/2012	
87	89	2	93.63	51.95	82.75	76.11		Mki	26/11/2012	
89	91	2	112.8	108.7	129.5	117		Mki	26/11/2012	
91	93	2	118.9	104.9	99.83	107.877		Mki	26/11/2012	
93	95	2	115.5	60.81	115.8	97.37		Mki	26/11/2012	
95	97	2	136.2	121.3	121.6	126.367		Mki	26/11/2012	
97	99	2	122	104.9	121.4	116.1		Mki	26/11/2012	
99	100	1	122.9	124.3	118.9	122.033		Mki	26/11/2012	
100	101.84	1.84	141.7	123.2	88.06	117.653		Mki	26/11/2012	
101.84	102.76	0.92	117.6	90.99	62.05	90.213		Mki	26/11/2012	
102.76	104	1.24	112.5	69.25	46.1	75.95		Mki	27/11/2012	
104	106	2	128	65.34	96.05	96.463		Mki	27/11/2012	
106	108	2	137.6	135.2	106	126.267		Mki	27/11/2012	
108	110	2	118.7	112.8	53.39	94.963		Mki	27/11/2012	
110	112	2	99.76	58.03	87.58	81.79		Mki	27/11/2012	
112	114	2	127.5	114.6	80.11	107.403		Mki	27/11/2012	
114	115.3	1.3	68.09	121.6	51.24	80.31		Mki	27/11/2012	
115.3	118	2.7	17.09	15.06	3.7	11.95		Mki	27/11/2012	
118	120	2	3.48	4.52	3.26	3.753		Mki	27/11/2012	
120	122	2	120.4	75.76	57.53	84.563		Mki	27/11/2012	
122	124	2	121.72	25.17	6.09	50.993		Mki	27/11/2012	
124	126	2	100.7	105.4	56.97	87.69		Mki	27/11/2012	
126	127.22	1.22	33.66	77.93	69.87	60.487		Mki	27/11/2012	
127.22	129	1.78	56.72	50.37	49.63	52.24		Mki	27/11/2012	
129	130.6	1.6	42.93	68.74	64.4	58.69		Mki	27/11/2012	
130.6	132	1.4	104.1	29.66	109.5	81.087		Mki	27/11/2012	
132	134	2	113.7	115.9	101.9	110.5		Mki	27/11/2012	
134	136	2	105	93.87	67.52	88.797		Mki	27/11/2012	
136	138	2	10.31	40.79	105.9	52.333		Mki	27/11/2012	
138	140	2	89.49	51.51	75.41	72.137		Mki	27/11/2012	
140	142	2	87.97	82.68	118.1	96.25		Mki	27/11/2012	
142	144	2	91	107.5	53.14	83.88		Mki	27/11/2012	
144	145.35	1.35	108.3	109.7	77.69	98.563		Mki	27/11/2012	
145.35	147	1.65	114.3	101.5	111.9	109.233		Mki	27/11/2012	

Hole ID: **RG12-13**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
147	149	2	102.7	87.03	55.87	81.867		Mki	27/11/2012	
149	151	2	91.56	45.88	101.2	79.547		Mki	27/11/2012	
151	152	1	62.27	108.3	27.96	66.177		Mki	27/11/2012	
152	153.3	1.3	86.34	33.33	51.06	56.91		Mki	27/11/2012	
153.3	155	1.7	111.3	53.59	47.7	70.863		Mki	27/11/2012	
155	157	2	96.61	94.91	104.6	98.707		Mki	27/11/2012	
157	159	2	105.6	108.3	49.99	87.963		Mki	27/11/2012	
159	161	2	109.8	111.1	94.21	105.037		Mki	27/11/2012	
161	163	2	112.5	81.38	78.46	90.78		Mki	27/11/2012	
163	164.12	1.12	55.21	93.81	106.9	85.307		Mki	27/11/2012	
164.12	166	1.88	35.23	72.04	81.73	63		Mki	27/11/2012	
166	168	2	43.23	86.73	81.41	70.457		Mki	27/11/2012	
168	170	2	75.47	91.01	63.1	76.527		Mki	27/11/2012	
170	170.72	0.72	89.38	117.5	98.63	101.837		Mki	27/11/2012	
170.72	172	1.28	106.3	59.03	105.9	90.41		Mki	27/11/2012	
172	174	2	114.6	113.2	60.15	95.983		Mki	27/11/2012	
174	176	2	75.49	79.98	100.9	85.457		Mki	27/11/2012	
176	178	2	82.71	81.23	92.7	85.547		Mki	27/11/2012	
178	180	2	81.54	91.57	81.76	84.957		Mki	27/11/2012	
180	182	2	102.7	105.2	108.6	105.5		Mki	27/11/2012	
182	184	2	104.1	58.92	109.2	90.74		Mki	27/11/2012	
184	186	2	97.37	111.1	104.7	104.39		Mki	27/11/2012	
186	188	2	94.27	75.65	44.53	71.483		Mki	27/11/2012	
188	190	2	98.79	56.59	102.8	86.06		Mki	27/11/2012	
190	192	2	109	98.71	107.1	104.937		Mki	27/11/2012	
192	194	2	110.2	62.06	57.81	76.69		Mki	27/11/2012	
194	196	2	110.4	63.55	103.7	92.55		Mki	27/11/2012	
196	198	2	80.97	97.1	71.24	83.103		Mki	27/11/2012	
198	199.88	1.88	86.01	77.94	89.47	84.473		Mki	27/11/2012	
199.88	201	1.12	75.55	68.19	15.87	53.203		Mki	27/11/2012	
201	203	2	44.56	58.76	79.62	60.98		Mki	27/11/2012	
203	205	2	66.14	85.96	86.73	79.61		Mki	27/11/2012	
205	206	1	91.92	89.89	48.48	76.763		Mki	27/11/2012	
206	207.15	1.15	27.78	89.32	87.09	68.063		Mki	27/11/2012	
207.15	209	1.85	93.78	57.84	75.38	75.667		JM	29/11/2012	
209	211	2	100.2	89.82	100.8	96.94		JM	29/11/2012	
211	213	2	107.8	96.52	84.23	96.183		JM	29/11/2012	
213	215	2	98.07	104	98.6	100.223		JM	29/11/2012	
215	217	2	111.5	97.49	102.9	103.963		JM	29/11/2012	

Hole ID: **RG12-13**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
217	219	2	103.6	101.3	104.7	103.2		JM	29/11/2012	
219	221	2	107.7	99	104	103.567		JM	29/11/2012	
221	223	2	94.05	105.8	104.2	101.35		JM	29/11/2012	
223	225	2	109	107.7	112.5	109.733		JM	29/11/2012	
225	226.26	1.26	89.49	82.39	107.8	93.227		JM	29/11/2012	
226.26	228	1.74	55.63	85.82	75.55	72.333		JM	29/11/2012	
228	230	2	42.54	59.75	93.22	65.17		JM	29/11/2012	
230	232	2	58.72	65.64	88.77	71.043		JM	29/11/2012	
232	233	1	93.66	90.52	71.42	85.2		JM	29/11/2012	
233	235	2	92.97	86.43	90.85	90.083		JM	29/11/2012	
235	237	2	90.6	89.23	82.78	87.537		JM	29/11/2012	
237	239	2	88.81	69	83.42	80.41		JM	29/11/2012	
239	241	2	87.48	88.13	73.67	83.093		JM	29/11/2012	
241	243	2	83.23	79.81	65.38	76.14		JM	29/11/2012	
243	245	2	90.2	78.73	79.49	82.807		JM	29/11/2012	
245	247	2	79.71	81.38	80.7	80.597		JM	29/11/2012	
247	249	2	80.85	67.31	81.68	76.613		JM	29/11/2012	
249	251	2	93.12	82.95	70.97	82.347		JM	29/11/2012	
251	252.43	1.43	85.27	90.33	88.87	88.157		JM	29/11/2012	
252.43	254	1.57	84.51	73.32	84.74	80.857		JM	29/11/2012	
254	255	1	85.3	82.38	83.5	83.727		JM	29/11/2012	
255	256.6	1.6	77.79	88.41	86.57	84.257		JM	29/11/2012	
256.6	258	1.4	91.32	93.69	89.25	91.42		JM	29/11/2012	
258	259.2	1.2	71.88	67.02	90.95	76.617		JM	29/11/2012	
259.2	261	1.8	71.69	65.97	81.44	73.033		JM	29/11/2012	
261	263	2	74.17	67.34	90.81	77.44		JM	29/11/2012	
263	265	2	94.31	100.5	73.72	89.51		JM	29/11/2012	
265	266.25	1.25	90.35	97.43	100.4	96.06		JM	29/11/2012	
266.25	268	1.75	84.7	87.54	98.23	90.157		JM	29/11/2012	
268	270	2	68.72	77.64	74.9	73.753		JM	29/11/2012	
270	272	2	89.12	104.5	112	101.873		JM	29/11/2012	
272	274	2	105	93.42	113.4	103.94		JM	29/11/2012	
274	276	2	103.8	97	91.2	97.333		JM	29/11/2012	
276	278	2	91.31	88.11	94.76	91.393		JM	29/11/2012	
278	280	2	88.99	101.6	98.05	96.213		JM	29/11/2012	
280	281.33	1.33	104.1	100.2	101.6	101.967		JM	29/11/2012	EOH

GeoSpark Logger Print Logs ~ Specific Gravity

DataSet: RG_GF

Hole ID: RG12-13

From (m)	To (m)	Sample ID	Sample Type	SG Method	Weight Dry (g)	Weight Wet (g)	Bulk Density	Lithology GF Code	Local Lith Code	Alt 1 Code	Alt Interp	Alt Int	Sulph. %	Date Sampled	Sampled By	Comments
6.98	7.1	P377764	WC	MEAS	558.2	372.2	3	IFD	FnDio	Pot	OvPrnt	M	0.1	26/11/2012	Mki	
32.54	32.7	P377778	WC	MEAS	779.9	492.7	2.72	IMMO	MedMonz	Pot	Primary	M	0	26/11/2012	Mki	MedMonz
57.32	57.49	P377793	WC	MEAS	839.8	530.9	2.72	IMMO	MedMonz	Pot	Primary	M	0.1	26/11/2012	Mki	MedMonz
82.27	82.37	P377908	WC	MEAS	521.4	338.2	2.85	IMMO	MedMonz	Pot	Primary	M	0.25	26/11/2012	Mki	MedMonz
106.36	106.46	P377825	WC	MEAS	474.4	303.5	2.78	IMMO	MedMonz	Pot	Primary	W	0.1	27/11/2012	Mki	
132.49	132.59	P377841	WC	MEAS	509.7	325.8	2.77	IMMO	MedMonz	Pot	Primary	W	0.2	27/11/2012	Mki	
156.2	156.35	P377856	WC	MEAS	707.3	451.6	2.77	IMMO	MedMonz	Pot	Primary	M	0.1	27/11/2012	Mki	
181.02	181.165	P377872	WC	MEAS	740.5	472.9	2.77	IMMO	MedMonz	Pot	Primary	W	0.25	27/11/2012	Mki	
206.8	206.98	P377887	WC	MEAS	864.7	541.6	2.68	IMMO	MedMonz	Pot	Primary	M	0.1	27/11/2012	Mki	
232.12	232.28	P377905	WC	MEAS	798.3	501.4	2.69	ICSY	CrsSyen	Pot	Primary	M	0.1	29/11/2012	JM	
254.27	254.41	P377918	WC	MEAS	678.6	426.6	2.69	IPMO	PlagKsparPorMonz	Pot	Primary	M	0.1	29/11/2012	JM	
278.75	278.87	P377935	WC	MEAS	609.4	388.2	2.75	IMMO	MedMonz	Pot	Primary	M	0.2	29/11/2012	JM	EOH

GeoSpark Logger Print Logs ~ Specterra Data

DataSet: RG_GF

Hole ID: RG12-13

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
6.4	8	P377763	1	walt	OH+H20 (1400nm)	1	1409	2		3	
					H20 (1900nm)	1	1916	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2351	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
8	10	P377764	1	walt	OH+H20 (1400nm)	1	1413	2		3	
					H20 (1900nm)	1	1948	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2251	2		3	
					Mg-OH (2350nm)	1	2364	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
10	12	P377765	2	walt	OH+H20 (1400nm)	1	1429	2		3					
					H20 (1900nm)	1	1938	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
12	14	P377766	1	walt	OH+H20 (1400nm)	1	1429	2		3					
					H20 (1900nm)	1	1940	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
14	16	P377767	2	walt	OH+H20 (1400nm)	1	1475	2		3					
					H20 (1900nm)	1	1940	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
16	18	P377768	1	walt	OH+H20 (1400nm)	1	1415	2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
18	20	P377769	2	walt	OH+H20 (1400nm)	1	1477	2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		
20	22	P377771	1	walt	OH+H20 (1400nm)	1	1428	2		3					
					H20 (1900nm)	1	1920	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
22	24	P377772	1	walt	OH+H20 (1400nm)	1	1453	2		3					
					H20 (1900nm)	1	1945	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
24	25	P377773	0	walt	OH+H20 (1400nm)	1	1478	2		3					
					H20 (1900nm)	1	1936	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
25	26.7	P377774	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1948	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
26.7	28	P377775	1	walt	OH+H20 (1400nm)	1	1413	2		3				
					H20 (1900nm)	1	1924	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2349	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
28	30	P377776	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1924	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
30	32	P377777	0	VN	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1948	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
32	34	P377778	2	walt	OH+H20 (1400nm)	1	1478	2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
34	36	P377779	1	walt	OH+H20 (1400nm)	1	1414	2		3					
					H20 (1900nm)	1	1956	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
36	38	P377781	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1940	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
38	40	P377782	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1947	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
40	42	P377783	1	walt	OH+H20 (1400nm)	1	1476	2		3						
					H20 (1900nm)	1	1938	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2352	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
42	44	P377784	0	walt	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1	1949	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
44	46	P377785	1	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1949	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
46	48	P377786	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1945	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
48	50	P377787	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1935	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
50	52	P377788	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1946	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
52	54	P377791	0	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1936	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
54	56	P377792	0	walt	OH+H20 (1400nm)	1	1476	2		3					
					H20 (1900nm)	1	1942	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
56	58	P377793	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1947	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2343	2		3				
					Other (nm)	1		2		3				
58	60	P377794	1	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1941	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
60	62	P377795	0	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1947	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
62	64	P377796	1	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1925	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2350	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
64	66	P377797	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1947	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
66	68	P377798	1	walt	OH+H20 (1400nm)	1	1414	2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2350	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
68	70	P377799	1	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1932	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
70	71	P377801	0	walt	OH+H20 (1400nm)	1	1452	2		3					
					H20 (1900nm)	1	1949	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
71	72.3	P377802	1	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
72.3	73.3	P377803	0	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1946	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2349	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
73.3	75	P377804	1	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1946	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
75	77	P377805	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1948	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
77	79	P377806	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1948	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
79	81	P377807	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1943	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
81	83	P377808	0	walt	OH+H20 (1400nm)	1	1482	2		3				
					H20 (1900nm)	1	1957	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
83	85	P377809	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1956	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
85	87	P377811	0	walt	OH+H20 (1400nm)	1	1476	2		3					
					H20 (1900nm)	1	1957	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
87	89	P377812	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1957	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
89	91	P377813	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1956	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
91	93	P377814	1	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1		2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
93	95	P377815	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1947	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
95	97	P377816	1	walt	OH+H20 (1400nm)	1	1475	2		3				
					H20 (1900nm)	1	1935	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
97	99	P377818	1	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1948	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
99	100	P377819	1	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1948	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
100	101.84	P377821	1	walt	OH+H20 (1400nm)	1	1414	2		3						
					H20 (1900nm)	1	1936	2		3						
					Al-OH (2200nm)	1	2207	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
101.84	102.76	P377822	1	walt	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1	1940	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1		2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
102.76	104	P377823	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1949	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
104	106	P377824	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1949	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
106	108	P377825	0	walt	OH+H20 (1400nm)	1	1412	2		3				
					H20 (1900nm)	1	1932	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2357	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
108	110	P377826	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1932	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
110	112	P377827	1	walt	OH+H20 (1400nm)	1	1412	2		3	
					H20 (1900nm)	1	1949	2		3	
					Al-OH (2200nm)	1	2207	2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2358	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
112	114	P377828	2	walt	OH+H20 (1400nm)	1	1412	2	1478	3	
					H20 (1900nm)	1	1948	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2351	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
114	115.3	P377829	2	walt	OH+H20 (1400nm)	1	1415	2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
115.3	118	P377831	1	walt	OH+H20 (1400nm)	1	1429	2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2251	2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
118	120	P377832	2	walt	OH+H20 (1400nm)	1	1451	2		3					
					H20 (1900nm)	1	1932	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2252	2		3					
					Mg-OH (2350nm)	1	2344	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
120	122	P377833	1	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1912	2		3					
					Al-OH (2200nm)	1	2215	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☑ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
122	124	P377834	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1914	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
124	126	P377835	1	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1939	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2237	2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
126	127.22	P377836		walt	OH+H20 (1400nm)	1	1477	2		3					
Collection Comments:					H20 (1900nm)	1	1923	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1	2239	2		3					
					Mg-OH (2350nm)	1	2358	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
127.22	129	P377837	1	walt	OH+H20 (1400nm)	1	1473	2		3					
Collection Comments:					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1	2241	2		3					
					Mg-OH (2350nm)	1	2359	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
129	130.6	P377838	1	walt	OH+H20 (1400nm)	1	1414	2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1	2207	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
130.6	132	P377839	1	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1923	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2349	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
132	134	P377841	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1923	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2330	2		3				
					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	
134	136	P377842	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1918	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2330	2		3				
					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
136	138	P377843	2	walt	OH+H20 (1400nm)	1	1413	2		3	
					H20 (1900nm)	1	1919	2		3	
					Al-OH (2200nm)	1	2207	2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
138	140	P377844	0	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1	1923	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
140	142	P377846	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1916	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
142	144	P377847	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1915	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
144	145.35	P377848	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1956	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2236	2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	
145.35	147	P377849	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1915	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
147	149	P377851	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1913	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
149	151	P377852	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1916	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
151	152	P377853	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1	2207	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
152	153.3	P377854	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1910	2		3					
					Al-OH (2200nm)	1	2219	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
153.3	155	P377855	1	walt	OH+H20 (1400nm)	1	1412	2		3						
					H20 (1900nm)	1	1922	2		3						
					Al-OH (2200nm)	1	2202	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2358	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
155	157	P377856	0	walt	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1	1920	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2350	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
157	159	P377857	0	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1922	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
159	161	P377858	2	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1932	2		3					
					Al-OH (2200nm)	1	2208	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
161	163	P377859	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1932	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
163	164.12	P377861	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1932	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
164.12	166	P377862	1	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1923	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
166	168	P377863	1	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1923	2		3					
					Al-OH (2200nm)	1	2206	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
168	170	P377864	1	walt	OH+H20 (1400nm)	1	1412	2		3						
					H20 (1900nm)	1	1924	2		3						
					Al-OH (2200nm)	1	2207	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2358	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
170	170.72	P377865	0	walt	OH+H20 (1400nm)	1		2		3						
					H20 (1900nm)	1	1916	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2330	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
170.72	172	P377866	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1919	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
172	174	P377867	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1916	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
174	176	P377868	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1916	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2358	2		3				
					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	
176	178	P377869	1	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1932	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
178	180	P377871	0	walt	OH+H20 (1400nm)	1	1411	2		3				
					H20 (1900nm)	1	1924	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
180	182	P377872	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1946	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
http://www.avatarapizza.com/Pages/menu.aspx

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material
182	184	P377874	0	walt

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Features:

OH+H20 (1400nm)	1	1411	2		3	
H20 (1900nm)	1	1921	2		3	
Al-OH (2200nm)	1		2		3	
Fe-OH (2250nm)	1		2		3	
Mg-OH (2350nm)	1	2350	2		3	
Other (nm)	1		2		3	

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material
184	186	P377875	0	walt

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Features:

OH+H20 (1400nm)	1		2		3	
H20 (1900nm)	1	1916	2		3	
Al-OH (2200nm)	1		2		3	
Fe-OH (2250nm)	1		2		3	
Mg-OH (2350nm)	1		2		3	
Other (nm)	1		2		3	

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
186	188	P377876	0	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1916	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2360	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
188	190	P377877	1	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1933	2		3					
					Al-OH (2200nm)	1	2206	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
190	192	P377878	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1923	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2350	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
192	194	P377879	1	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1	2207	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☑ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
194	196	P377881	1	walt	OH+H20 (1400nm)	1	1412	2		3	
					H20 (1900nm)	1	1924	2		3	
					Al-OH (2200nm)	1	2205	2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2349	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☑ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
196	198	P377882	0	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1	1933	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2359	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
198	199.88	P377883	2	walt	OH+H20 (1400nm)	1	1412	2		3						
					H20 (1900nm)	1	1924	2		3						
					Al-OH (2200nm)	1	2206	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2351	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
199.88	201	P377884	0	walt	OH+H20 (1400nm)	1	1413	2		3						
					H20 (1900nm)	1	1923	2		3						
					Al-OH (2200nm)	1		2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2357	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
201	203	P377885	0	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1922	2		3					
					Al-OH (2200nm)	1	2206	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
203	205	P377886	0	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1923	2		3					
					Al-OH (2200nm)	1	2206	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
205	206	P377887	0	walt	OH+H20 (1400nm)	1	1473	2		3	
					H20 (1900nm)	1	1937	2		3	
					Al-OH (2200nm)	1	2207	2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
206	207.15	P377888	0	walt	OH+H20 (1400nm)	1		2		3	
					H20 (1900nm)	1	1922	2		3	
					Al-OH (2200nm)	1	2206	2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2358	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
207.15	209	P377889	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1957	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	
209	211	P377891	1	walt	OH+H20 (1400nm)	1	1413	2		3				
					H20 (1900nm)	1	1940	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite	

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
211	213	P377892	0	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
213	215	P377893	1	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1915	2		3					
					Al-OH (2200nm)	1	2205	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
215	217	P377894	1	walt	OH+H20 (1400nm)	1	1411	2		3						
					H20 (1900nm)	1	1932	2		3						
					Al-OH (2200nm)	1	2202	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2338	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☑ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:											
217	219	P377895	2	walt	OH+H20 (1400nm)	1	1411	2		3						
					H20 (1900nm)	1	1924	2		3						
					Al-OH (2200nm)	1	2204	2		3						
					Fe-OH (2250nm)	1		2		3						
					Mg-OH (2350nm)	1	2356	2		3						
					Other (nm)	1		2		3						

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
219	221	P377896	2	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2350	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
221	223	P377897	2	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1938	2		3					
					Al-OH (2200nm)	1	2208	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
223	225	P377898	2	vn	OH+H20 (1400nm)	1	1412	2		3	
					H20 (1900nm)	1	1939	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2351	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
225	226.26	P377899	2	walt	OH+H20 (1400nm)	1	1413	2	1477	3	
					H20 (1900nm)	1	1924	2		3	
					Al-OH (2200nm)	1	2205	2		3	
					Fe-OH (2250nm)	1	2357	2		3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
226.26	228	P377901	2	vn	OH+H20 (1400nm)	1	1413	2	1476	3				
					H20 (1900nm)	1	1926	2		3				
					Al-OH (2200nm)	1	2209	2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2357	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
228	230	P377902	2	walt	OH+H20 (1400nm)	1	1413	2	1475	3				
					H20 (1900nm)	1	1924	2		3				
					Al-OH (2200nm)	1	2206	2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2357	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
230	232	P377904	2	walt	OH+H20 (1400nm)	1	1478	2		3	
					H20 (1900nm)	1	1932	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2236	2	2285	3	
					Mg-OH (2350nm)	1	2359	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
232	233	P377905	2	walt	OH+H20 (1400nm)	1	1413	2		3	
					H20 (1900nm)	1	1939	2		3	
					Al-OH (2200nm)	1	2204	2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2358	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
233	235	P377906	1	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1947	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
235	237	P377907	1	walt	OH+H20 (1400nm)	1	1477	2		3				
					H20 (1900nm)	1	1932	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2353	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
237	239	P377908	1	walt	OH+H20 (1400nm)	1	1413	2		3				
					H20 (1900nm)	1	1926	2		3				
					Al-OH (2200nm)	1	2208	2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2351	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
239	241	P377909	1	walt	OH+H20 (1400nm)	1	1414	2		3				
					H20 (1900nm)	1	1925	2		3				
					Al-OH (2200nm)	1	2206	2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2350	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
241	243	P377911	2	walt	OH+H20 (1400nm)	1	1413	2		3	
					H20 (1900nm)	1	1938	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2351	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
243	245	P377912	2	walt	OH+H20 (1400nm)	1	1413	2	1476	3	
					H20 (1900nm)	1	1932	2		3	
					Al-OH (2200nm)	1	2205	2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2357	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
245	247	P377913	2	walt	OH+H20 (1400nm)	1	1475	2		3					
					H20 (1900nm)	1	1929	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2248	2		3					
					Mg-OH (2350nm)	1	2358	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
247	249	P377914	2	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1932	2		3					
					Al-OH (2200nm)	1	2208	2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2351	2		3					
					Other (nm)	1		2		3					

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
249	251	P377915	2	walt	OH+H20 (1400nm)	1	1477	2		3					
					H20 (1900nm)	1	1932	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		
251	252.43	P377916	2	walt	OH+H20 (1400nm)	1	1413	2		3					
					H20 (1900nm)	1	1932	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1	2359	2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
252.43	254	P377917	2	walt	OH+H20 (1400nm)	1	1413	2	1479	3				
					H20 (1900nm)	1	1924	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1	2237	2		3				
					Mg-OH (2350nm)	1	2357	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
254	255	P377918	2	walt	OH+H20 (1400nm)	1	1413	2		3				
					H20 (1900nm)	1	1924	2		3				
					Al-OH (2200nm)	1	2206	2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2351	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
255	256.6	P377919	2	walt	OH+H20 (1400nm)	1	1412	2		3	
					H20 (1900nm)	1	1924	2		3	
					Al-OH (2200nm)	1	2201	2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2351	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☑ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
256.6	258	P377921	2	walt	OH+H20 (1400nm)	1	1412	2		3	
					H20 (1900nm)	1	1923	2		3	
					Al-OH (2200nm)	1	2205	2		3	
					Fe-OH (2250nm)	1		2		3	
					Mg-OH (2350nm)	1	2358	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☑ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
258	259.2	P377922	1	walt	OH+H20 (1400nm)	1	1478	2		3	
					H20 (1900nm)	1	1927	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2236	2	2285	3	
					Mg-OH (2350nm)	1		2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☐ Smectite ☑ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:						
259.2	261	P377923	1	walt	OH+H20 (1400nm)	1	1414	2		3	
					H20 (1900nm)	1	1911	2		3	
					Al-OH (2200nm)	1		2		3	
					Fe-OH (2250nm)	1	2251	2		3	
					Mg-OH (2350nm)	1	2358	2		3	
					Other (nm)	1		2		3	

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☑ Chlorite ☐ Illite ☑ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
261	263	P377924	2	walt	OH+H20 (1400nm)	1	1411	2		3					
Collection Comments:					H20 (1900nm)	1	1911	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2349	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		
263	265	P377925	1	walt	OH+H20 (1400nm)	1	1412	2		3					
Collection Comments:					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
Interp Comments:					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2353	2		3					
Doublet/Triplet Comments					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☑ Kaolinite	☐ Calcite	☐ Dolomite		

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
265	266.25	P377926	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1940	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
266.25	268	P377927	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1924	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2351	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:										
268	270	P377928	0	walt	OH+H20 (1400nm)	1		2		3					
					H20 (1900nm)	1	1924	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1		2		3					
					Other (nm)	1		2		3					
					☐ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		
270	272	P377929	0	walt	OH+H20 (1400nm)	1	1412	2		3					
					H20 (1900nm)	1	1923	2		3					
					Al-OH (2200nm)	1		2		3					
					Fe-OH (2250nm)	1		2		3					
					Mg-OH (2350nm)	1	2357	2		3					
					Other (nm)	1		2		3					
					☑ Chlorite	☐ Illite	☐ Smectite	☐ Epidote	☐ Biotite	☐ Tourmaline	☐ Kaolinite	☐ Calcite	☐ Dolomite		

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
272	274	P377932	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1956	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
274	276	P377933	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1956	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material	Features:									
276	278	P377934	0	walt	OH+H20 (1400nm)	1		2		3				
					H20 (1900nm)	1	1956	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1		2		3				
					Other (nm)	1		2		3				
278	280	P377935	0	walt	OH+H20 (1400nm)	1	1410	2		3				
					H20 (1900nm)	1	1948	2		3				
					Al-OH (2200nm)	1		2		3				
					Fe-OH (2250nm)	1		2		3				
					Mg-OH (2350nm)	1	2330	2		3				
					Other (nm)	1		2		3				

Collection Comments:

Interp Comments:
Unable to interpret minerals from this spectra

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

☐ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

Hole ID: **RG12-13**

From (m)	To (m)	Sample	Spectra Quality	Sample Material
280	281.33	P377936	0	walt

Collection Comments:

Interp Comments:

Doublet/Triplet Comments

Features:

OH+H20 (1400nm)	1	1410	2		3	
H20 (1900nm)	1	1932	2		3	
Al-OH (2200nm)	1		2		3	
Fe-OH (2250nm)	1		2		3	
Mg-OH (2350nm)	1	2351	2		3	
Other (nm)	1		2		3	

☑ Chlorite ☐ Illite ☐ Smectite ☐ Epidote ☐ Biotite ☐ Tourmaline ☐ Kaolinite ☐ Calcite ☐ Dolomite

GeoSpark Logger Print Logs ~ DH Samples

DataSet: RG_GF

Hole ID: RG12-13

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
6.4	8	P377763	HC	Mki	☐	
8	10	P377764	HC	Mki	☐	
10	12	P377765	HC	Mki	☐	
12	14	P377766	HC	Mki	☐	
14	16	P377767	HC	Mki	☐	
16	18	P377768	HC	Mki	☐	
18	20	P377769	HC	Mki	☐	
20	22	P377771	HC	Mki	☐	
22	24	P377772	HC	Mki	☐	
24	25	P377773	HC	Mki	☐	
25	26.7	P377774	HC	Mki	☐	
26.7	28	P377775	HC	Mki	☐	
28	30	P377776	HC	Mki	☐	
30	32	P377777	HC	Mki	☐	
32	34	P377778	HC	Mki	☐	
34	36	P377779	HC	Mki	☐	
36	38	P377781	HC	Mki	☐	
38	40	P377782	HC	Mki	☐	
40	42	P377783	HC	Mki	☐	
42	44	P377784	HC	Mki	☐	
44	46	P377785	HC	Mki	☐	
46	48	P377786	HC	Mki	☐	
48	50	P377787	HC	Mki	☐	
50	52	P377788	HC	Mki	☑	
52	54	P377791	HC	Mki	☐	
54	56	P377792	HC	Mki	☐	
56	58	P377793	HC	Mki	☐	
58	60	P377794	HC	Mki	☐	
60	62	P377795	HC	Mki	☐	
62	64	P377796	HC	Mki	☐	
64	66	P377797	HC	Mki	☐	
66	68	P377798	HC	Mki	☐	
68	70	P377799	HC	Mki	☐	
70	71	P377801	HC	Mki	☐	
71	72.3	P377802	HC	Mki	☐	
72.3	73.3	P377803	HC	Mki	☐	
73.3	75	P377804	HC	Mki	☐	

Hole ID: **RG12-13**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
75	77	P377805	HC	Mki	☐	
77	79	P377806	HC	Mki	☐	
79	81	P377807	HC	Mki	☐	
81	83	P377808	HC	Mki	☐	
83	85	P377809	HC	Mki	☐	
85	87	P377811	HC	Mki	☐	
87	89	P377812	HC	Mki	☐	
89	91	P377813	HC	Mki	☐	
91	93	P377814	HC	Mki	☐	
93	95	P377815	HC	Mki	☐	
95	97	P377816	HC	Mki	☑	
97	99	P377818	HC	Mki	☐	
99	100	P377819	HC	Mki	☐	
100	101.84	P377821	HC	Mki	☐	
101.84	102.76	P377822	HC	Mki	☐	
102.76	104	P377823	HC	Mki	☐	
104	106	P377824	HC	Mki	☐	
106	108	P377825	HC	Mki	☐	
108	110	P377826	HC	Mki	☐	
110	112	P377827	HC	Mki	☐	
112	114	P377828	HC	Mki	☐	
114	115.3	P377829	HC	Mki	☐	
115.3	118	P377831	HC	Mki	☐	
118	120	P377832	HC	Mki	☐	
120	122	P377833	HC	Mki	☐	
122	124	P377834	HC	Mki	☐	
124	126	P377835	HC	Mki	☐	
126	127.22	P377836	HC	Mki	☐	
127.22	129	P377837	HC	Mki	☐	
129	130.6	P377838	HC	Mki	☐	
130.6	132	P377839	HC	Mki	☐	
132	134	P377841	HC	Mki	☐	
134	136	P377842	HC	Mki	☐	
136	138	P377843	HC	Mki	☐	
138	140	P377844	HC	Mki	☑	
140	142	P377846	HC	Mki	☐	
142	144	P377847	HC	Mki	☐	
144	145.35	P377848	HC	Mki	☐	
145.35	147	P377849	HC	Mki	☐	

GeoSpark Logger Print Logs ~ DH Samples

Hole ID: **RG12-13**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
147	149	P377851	HC	Mki	☐	
149	151	P377852	HC	Mki	☐	
151	152	P377853	HC	Mki	☐	
152	153.3	P377854	HC	Mki	☐	
153.3	155	P377855	HC	Mki	☐	
155	157	P377856	HC	Mki	☐	
157	159	P377857	HC	Mki	☐	
159	161	P377858	HC	Mki	☐	
161	163	P377859	HC	Mki	☐	
163	164.12	P377861	HC	Mki	☐	
164.12	166	P377862	HC	Mki	☐	
166	168	P377863	HC	Mki	☐	
168	170	P377864	HC	Mki	☐	
170	170.72	P377865	HC	Mki	☐	
170.72	172	P377866	HC	Mki	☐	
172	174	P377867	HC	Mki	☐	
174	176	P377868	HC	Mki	☐	
176	178	P377869	HC	Mki	☐	
178	180	P377871	HC	Mki	☐	
180	182	P377872	HC	Mki	☑	
182	184	P377874	HC	Mki	☐	
184	186	P377875	HC	Mki	☐	
186	188	P377876	HC	Mki	☐	
188	190	P377877	HC	Mki	☐	
190	192	P377878	HC	Mki	☐	
192	194	P377879	HC	Mki	☐	
194	196	P377881	HC	Mki	☐	
196	198	P377882	HC	Mki	☐	
198	199.88	P377883	HC	Mki	☐	
199.88	201	P377884	HC	Mki	☐	
201	203	P377885	HC	Mki	☐	
203	205	P377886	HC	Mki	☐	
205	206	P377887	HC	Mki	☐	
206	207.15	P377888	HC	Mki	☐	
207.15	209	P377889	HC	Mki	☐	
209	211	P377891	HC	JM	☐	
211	213	P377892	HC	JM	☐	
213	215	P377893	HC	JM	☐	
215	217	P377894	HC	JM	☐	

GeoSpark Logger Print Logs ~ DH Samples

Hole ID: **RG12-13**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
217	219	P377895	HC	JM	☐	
219	221	P377896	HC	JM	☐	
221	223	P377897	HC	JM	☐	
223	225	P377898	HC	JM	☐	
225	226.26	P377899	HC	JM	☐	
226.26	228	P377901	HC	JM	☐	
228	230	P377902	HC	JM	☑	
230	232	P377904	HC	JM	☐	
232	233	P377905	HC	JM	☐	
233	235	P377906	HC	JM	☐	
235	237	P377907	HC	JM	☐	
237	239	P377908	HC	JM	☐	
239	241	P377909	HC	JM	☐	
241	243	P377911	HC	JM	☐	
243	245	P377912	HC	JM	☐	
245	247	P377913	HC	JM	☐	
247	249	P377914	HC	JM	☐	
249	251	P377915	HC	JM	☐	
251	252.43	P377916	HC	JM	☐	
252.43	254	P377917	HC	JM	☐	
254	255	P377918	HC	JM	☐	
255	256.6	P377919	HC	JM	☐	
256.6	258	P377921	HC	JM	☐	
258	259.2	P377922	HC	JM	☐	
259.2	261	P377923	HC	JM	☐	
261	263	P377924	HC	JM	☐	
263	265	P377925	HC	JM	☐	
265	266.25	P377926	HC	JM	☐	
266.25	268	P377927	HC	JM	☐	
268	270	P377928	HC	JM	☐	
270	272	P377929	HC	JM	☑	
272	274	P377932	HC	JM	☐	
274	276	P377933	HC	JM	☐	
276	278	P377934	HC	JM	☐	
278	280	P377935	HC	JM	☐	
280	281.33	P377936	HC	JM	☐	EOH

GeoSpark Logger Print Logs ~ Duplicate Samples

DataSet: RG_GF

Hole ID: RG12-13

From (m)	To (m)	Sample ID	Original Sample ID	QC Category	Comments
50	52	P377789	P377788	FD	
95	97	P377817	P377816	FD	
138	140	P377845	P377844	FD	
180	182	P377873	P377872	FD	
228	230	P377903	P377902	FD	
270	272	P377931	P377929	FD	EOH

GeoSpark Logger Print Logs ~ Standards / Blanks

DataSet: RG_GF

Hole ID: RG12-13

Sample ID	Standard ID	Comments
P377770	FB	
P377780	WJN-STD2	
P377790	FB	
P377800	WJN-STD1	
P377810	FB	
P377820	WJN-STD2	
P377830	FB	
P377840	WJN-STD1	
P377850	FB	
P377860	WJN-STD2	
P377870	FB	
P377880	WJN-STD1	
P377890	FB	
P377900	WJN-STD2	
P377910	FB	
P377920	WJN-STD1	
P377930	FB	

GeoSpark Logger Print Logs ~ Collars

DataSet: RG_GF

Depth (m)	Hole Type	Core Diamete	Grid ID	East	North	Elevation	Survey Method	Survey Date	Survey By	Date Started	Date Completed	Logged By	Prospect	Validated By
Hole: RG12-14														
291.08 m	DD	NQ	UTM10N_NAD83	603563.9467	5813297.9	976.958	DGPS	03/12/2012		29/11/2012	02/12/2012	TimS	Quarry Zone	
Intersected weakly mineralised diorite, followed by bodies of monzonite intruded by thick syenitic units. See quicklog for details.														

GeoSpark Logger Print Logs ~ DH Surveys

DataSet: RG_GF

Hole ID: RG12-14

Depth (m)	Survey Method	Grid ID	Dip	Orig Azimuth	Surv. Tool Azimuth	Magnetic Declination	Corrected Azimuth	Magnetics	Date Surveyed	Survey Instrument	Bad Reading	Comments
0	COLL	UTM10N_NAD83	-50	190		18			03/12/2012	EZ	☐	
19.81	EZ Shot	UTM10N_NAD83	-49.3	190	177.4	18	195.4		29/11/2012	EZ	☐	
80.77	EZ Shot	UTM10N_NAD83	-46.6	190	179.6	18	197.6		29/11/2012	EZ	☐	
141.73	EZ Shot	UTM10N_NAD83	-46.3	190	180.2	18	198.2		30/11/2012	EZ	☐	
202.69	EZ Shot	UTM10N_NAD83	-45.5	190	183.2	18	201.2		01/12/2012	EZ	☐	
263.65	EZ Shot	UTM10N_NAD83	-44.8	190	185.8	18	203.8		01/12/2012	EZ	☐	

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-14

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	0	3.66	Overburden	Overburden (OB)	

Alteration:	From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments

Minerals:	From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments

Veining:	From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:	From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	3.66	12	Fine Grained Diorite	Fine-grained Diorite (IFD)	Dk grey fg eqg dior. Muddy FeOx fills frac, local Mal on frac planes. Chl+vfg bio+mag repl hbl. Wkly dis fg cpy com'nly intrgrn w/ Bo. Rare thin Kspar+Cpy+Bo vns

Alteration:	From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
	3.66	12	Pot	Primary	W	Chlor	OvPrnt	S							Fg diseminated bio and mag replace Hbl. Ovp by Chl.

Minerals:	From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
	3.66	12	Cpy	0.25	DIS	Bor	0.1	DIS							Wk disseminated fine- grained chalcopyrite replaces mafics; commonly intergrown with very fine- grained bornite. Chalcopyrite±bornite occurs in rare thin Kspar veins (<2mm, 45-75°tca, <1/m).

Veining:	From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
	3.66	12	Vkspar	±cpy±bor	0.25										Chalcopyrite±bornite occurs in rare thin Kspar veins (<2mm, 45-75°tca, <1/m).

Structure:	From (m)	To (m)	Type	Intensity	CA Angle
	8.43	8.5	FLT	M	45

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	12	17.05	Medium Grained Diorite	Medium-grained Diorite (IMD)	Mg eqg dior. Mottled patchy text largely obsc'd by Kspar flooding +fg bio+Chl alt proximal to <20cm thick mg syen dyke. Sparsely dis fg Cpy, tr Bo.

DataSet: RG_GF

Hole ID: RG12-14

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
12	17.05	Pot	Primary	S	Chlor	OvPrnt	M							Texture largely obscured by patchy Kspar flooding and fine grained biotite alteration that is strongest proximal to a <20 cm apparent thickness dyke of medium- grained syenite.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
12	17.05	Cpy	0.25	DIS	Bor	0.1	DIS							Sparsely disseminated fine grained chalcopyrite may contain trace bornite. Cpy ~0.25%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
13.02	13.04	FLT	M	
13.9	14.05	CI	W	30

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	17.05	22.68	Medium Grained Monzonite	Medium-grained monzonite (1-4mm) (IMMO)	Pink-grey mg eqg monz.Abundant intrstl Kspar. Sharp upper contact ~30° where monz intrudes Dior? M Kspar and fg bio+mag alt. M chl ovp. Wk dis + rare blebs Cpy repl mafics, may be intrgrn w/ fg Bo locally.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
17.05	22.68	Pot	Primary	M	Chlor	OvPrnt	M							Moderate Kspar flooding. Hornblende crystals are largely replaced by fine- grained biotite, magnetite and chlorite.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
17.05	22.68	Cpy	0.25	DIS	Bor	0.1	DIS							Weakly disseminated and rare blebby chalcopyrite. Replaces mafics; locally intergrown with very fine- grained bornite. Cpy ~0.25%, Bo 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
17.05	17.06	CI		20

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	22.68	28.8	Medium Grained Syenite	RG Medium-grained syenite (IMSY)	Mg massice to Kspar-phyr pink syen dyke. Upper contact 70°, lower brx ~40°. Carb alt'd Hbl w/in syen. Abund xenoliths (monz, dior, andesite) contain Cpy. Cpy rare w/in syenite.

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-14

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
22.68	28.8	Propy	OvPrnt	W										Strong carbonate alters hornblende crystals within syenite.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
22.68	28.8	Cpy	0.1	DIS										Chalcopyrite is only visible in rare traces in the syenite groundmass, possibly sourcing from xenoliths. Cpy ~0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
22.68	22.69	CI		70

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	28.8	30	Medium Grained Syenite	RG Medium Syenite Crackle Breccia (IMSY)	Ang Monz Clasts <1-15cm, shattered and cemented by mg pink syenite. Jigsaw-fit to last rotated text. S carb alt'd Hbl xtals w/in syenite. Fg-blebby Cpy concentrates at clast-cement margins. Clasts contain fg dis Cpy.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
28.8	30	Pot	Primary	S										Carbonate alters plag pheno's within syenite. Monz clasts strongly K altered.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
28.8	30	Cpy	0.5	DIS										Fine- grained to blebby chalcopyrite appears to concentrate at clast-cement margins. Clasts contain fine- grained disseminated chalcopyrite. Cpy ~0.5%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
28.8	28.81	CI		40
28.81	30	BRX		

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	30	42.3	Medium Grained Monzonite	Medium-grained monzonite (1-4mm) (IMMO)	Pink-grey mg eqg monz. Sharply intr by syen cemented brx at top cont. S local Kspar floods downwards from upper cont. Local vns in which Carb, Kspar +euh Bio intergrow w/ Cpy blebs. Hbl repl by Bio+Mag +chl. Wk dis Cpy.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
30	42.3	Pot	Primary	S										Hornblende crystals are largely replaced by fine- grained biotite, magnetite and chlorite.Strong local Kspar flooding from upper contact downwards. Forms Carb+Kspar+Bio+Cpy vns locally.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
30	42.3	Cpy	0.25	REPL										Weakly disseminated and rare blebby chalcopyrite; commonly occurs within mafics. Cpy ~0.25%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
12	42.3	Vcarb	±cpy	0.5										Rare carbonate veins, typically v thin. Very rarely carry Cpy.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	42.3	44.25	Medium Grained Syenite	RG Medium-grained syenite (IMSY)	Mg massive to Kspar-phyr pink syen dyke. Upper and lower contacts sharp undulating ~30°. Carb alt'd Hbl w/in syen. Abund xenoliths (monz, dior, andesite) contain Cpy. Cpy rare w/in syenite.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
42.3	44.25	Propy	OvPrnt	S										Strong carbonate alters hornblende crystals within syenite.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
42.3	44.25	Cpy	0.1	DIS										Xenoliths commonly contain disseminated chalcopyrite. Chalcopyrite is only visible in rare traces in the syenite groundmass, possibly sourcing from xenoliths. Cpy ~0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
42.3	44.25	NoVeins	n/a											

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
42.3	42.31	CI		30

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	44.25	57.16	Medium Grained Monzonite	Medium-grained monzonite (1-4mm) (IMMO)	Pink-grey mg eqg monz. Hbl repl by Bio+Mag +chl. Wk dis+rare bleb Cpy, commonly w/in mafics. Common Kspar+carb±rare cpy vns

DataSet: RG_GF

Hole ID: RG12-14

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
44.25	57.16	Pot	Primary	M										Hornblende crystals are largely replaced by fine- grained biotite, magnetite and chlorite.Weak Kspar flooding locally.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
44.25	57.16	Cpy	0.25	DIS										Kspar+carbonate±rare chalcopyrite veins, <2mm, ~25°tca, 1/m. Weakly disseminated and rare blebby chalcopyrite; commonly occurs within mafics. Cpy ~0.25%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
44.25	57.16	Vkspar	±carb±cpy	0.5										Kspar+carbonate±rare chalcopyrite veins, <2mm, ~25°tca, 1/m.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
44.25	44.26	CI		30

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	57.16	109.2	Coarse Grained Syenite	RG Coarse Syenite (ICSY)	Cg Kspar-phyr pink syenite.Local trachytic Kspar laths. Mod carb alt, Hbl repl by Chl+bio+mag. Cpy wkly dis, occurs w/in altered mafics and may be intrgrn w/ tr pyrite.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
57.16	109.2	Pot	Primary	M	Chlor	OvPrnt	M							Hornblende replaced by chlorite+magnetite+biotite. Moderate carbonate alteration.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
57.16	109.2	Cpy	0.25	DIS	Py	0.1	DIS							Chalcopyrite is weakly disseminated and typically occurs within altered mafics. May be intergrown with trace pyrite. Cpy ~0.25%, Py 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
57.16	57.17	CI		40
97.2	97.21	FRAC		10
99.3	99.5	FLTBX	M	30
104.12	104.24	RUB		

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-14

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	109.2	129.73	Porphyritic Monzonite	Plag-Kspar-phyric monz or mixing zone (IPMO)	Poss syenitic- Kspar appears>Plag but text mottled by S Pot alt; plag may be partially repl by Kspar. S dis bio+mag. Wkly dis Cpy.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
109.2	129.73	Pot	Primary	S										Some plagioclase may be partially K altered. Strong patchy Kspar flooding, strongly disseminated fine- grained biotite and magnetite.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
109.2	129.73	Cpy	0.25	DIS										Weakly disseminated chalcopyrite. Cpy ~0.25%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
109.2	109.3	CI		80

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	129.73	135.03	Coarse Grained Syenite	RG Coarse Syenite (ICSY)	Cg Kspar-phyr pink syenite.Local trachytic Kspar laths. Mod carb alt, Hbl repl by Chl+bio+mag. Cpy wkly dis, occurs w/in altered mafics and may be intrgrn w/ tr pyrite.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
129.73	135.03	Pot	Primary	M	Chlor	OvPrnt	M							Hornblende replaced by chlorite+magnetite+biotite. Moderate carbonate alteration, common thin veinlets ~15- 50° tca.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
129.73	135.03	Cpy	0.25	DIS	Py	0.1	DIS							Chalcopyrite is weakly disseminated and typically occurs within altered mafics. May be intergrown with trace pyrite. Cpy ~0.25%, Py 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
129.73	129.74	CI		30

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	135.03	147.74	Porphyritic Monzonite	Plag-Kspar-phyric monz or mixing zone (IPMO)	Poss syenitic- Kspar appears>Plag but text mottled by S Pot alt; plag may be partially repl by Kspar. S dis bio+mag. Wkly dis Cpy.

Gold Fields Canada

Signed: _____

DataSet: RG_GF

Hole ID: RG12-14

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
135.03	147.74	Pot	Primary	S										Some plagioclase may be partially K altered. Strong patchy Kspar flooding, strongly disseminated fine- grained biotite and magnetite.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
135.03	147.74	Cpy	0.25	DIS										Weakly disseminated chalcopyrite. Cpy ~0.25%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
135.03	135.04	CI		45

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	147.74	215.36	Coarse Grained Syenite	RG Coarse Syenite (ICSY)	Cg Kspar-phyr pink syenite.Local trachytic Kspar laths. Mod carb alt, Hbl repl by Chl+bio+mag. Cpy wkly dis, occurs w/in altered mafics and may be intrgrn w/ tr pyrite.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
147.74	215.36	Pot	Primary	S	Chlor	OvPrnt	M							Hornblende replaced by chlorite+magnetite+biotite. Moderate carbonate alteration, common thin veinlets ~15- 50° tca.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
147.74	215.36	Cpy	0.25	DIS	Py	0.1	DIS							Chalcopyrite is weakly disseminated and typically occurs within altered mafics. May be intergrown with trace pyrite. Cpy ~0.25%, Py 0.1%

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
57.16	215.36	Vcarb	±chl	1										

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
147.74	147.75	CI		45
197	197.1	BRX	W	
213	213.4	RUB		
215.35	215.36	CI		50

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	215.36	286.82	Porphyritic Monzonite	Plag-Kspar-phyric monz or mixing zone (IPMO)	Euh plag+Kspar- phyr monz/monzosyen; Kspar appears >plag but text is mottled by S Kspar flood + Fg bio+mag. PLag xtals comnly partially K alt.Com'n <10 cm syen dykes and K-rich veins<1cm. Com'n Carb vns. Trace dis Cpy.

DataSet: RG_GF

Hole ID: RG12-14

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
215.36	286.82	Pot	Primary	S										Possibly syenitic; K-feldspar appears more abundant that plagioclase but texture is mottled by strong potassic alteration. Plagioclase crystals are commonly partially K altered.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
215.36	286.82	Vkspar	±carb±cpy	0.5	Vcarb		1.5							Kspar-rich veins <1cm, 10-60° tca. Common thin carbonate veinlets ~15- 75° tca.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle
226.1	226.11	FLT	W	25
226.4	226.47		M	
230.25	231.65	RUB	W	
254.6	254.7	CI		40
286.7	286.81	FLTBX	M	
286.81	286.82	CI		

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	286.82	291.08	Coarse Grained Syenite	RG Coarse Syenite (ICSY)	Cg Kspar-phyr pink syenite.Local trachytic Kspar laths. Mod carb alt, Hbl repl by Chl+bio+mag. Trace disseminated Cpy.

Alteration:

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
286.82	291.08	Pot	Primary	W	Chlor	OvPrnt	M							Hornblende replaced by chlorite+magnetite+biotite. Moderate carbonate alteration, common thin veinlets ~15- 50° tca.

Minerals:

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
215.36	291.08	Cpy	0.1	DIS										Trace disseminated Cpy

Veining:

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
286.82	291.08	Vcarb	n/a	1.5										Common thin carbonate veinlets ~15- 75° tca.

Structure:

From (m)	To (m)	Type	Intensity	CA Angle

GeoSpark Logger Print Logs ~ Geotechnical

DataSet: RG_GF

Hole ID: RG12-14

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	Comments
3.66	4.57	0.91	1.01	110.99	
4.57	7.62	3.05	3.04	99.67	
7.62	10.67	3.05	3.06	100.33	
10.67	13.72	3.05	2.98	97.7	
13.72	16.76	3.04	2.86	94.08	
16.76	19.81	3.05	3.15	103.28	
19.81	22.86	3.05	3.06	100.33	
22.86	24.69	1.83	0.55	30.05	
24.69	25.91	1.22	1.33	109.02	
25.91	28.96	3.05	3.01	98.69	
28.96	32	3.04	3.09	101.64	
32	35.05	3.05	3.02	99.02	
35.05	38.1	3.05	3.09	101.31	
38.1	41.15	3.05	3.06	100.33	
41.15	44.2	3.05	3.01	98.69	
44.2	47.27	3.07	3.07	100	
47.27	50.29	3.02	3.06	101.32	
50.29	53.34	3.05	3.01	98.69	
53.34	56.39	3.05	3.07	100.66	
56.39	59.44	3.05	3.04	99.67	
59.44	62.48	3.04	3.12	102.63	
62.48	65.53	3.05	3.06	100.33	
65.53	68.58	3.05	3.06	100.33	
68.58	71.63	3.05	3.06	100.33	
71.63	74.68	3.05	3.03	99.34	
74.68	77.72	3.04	3.09	101.64	
77.72	80.77	3.05	3.03	99.34	
80.77	83.82	3.05	3.04	99.67	
83.82	86.87	3.05	2.98	97.7	
86.87	89.92	3.05	3.07	100.66	
89.92	91.74	1.82	1.88	103.3	
91.74	92.96	1.22	1.17	95.9	
92.96	96.01	3.05	3.06	100.33	
96.01	99.06	3.05	3.06	100.33	
99.06	101.19	2.13	2.12	99.53	
101.19	102.11	0.92	0.83	90.22	
102.11	103.94	1.83	1.66	90.71	
103.94	105.16	1.22	1.22	100	
105.16	108.2	3.04	3.1	101.97	
108.2	111.25	3.05	2.91	95.41	
111.25	114.3	3.05	3.19	104.59	
114.3	117.35	3.05	3.12	102.3	
117.35	120.4	3.05	3.03	99.34	
120.4	123.44	3.04	3.08	101.32	
123.44	126.49	3.05	2.99	98.03	
126.49	129.54	3.05	3.1	101.64	
129.54	132.59	3.05	3.01	98.69	
132.59	135.64	3.05	3.09	101.31	
135.64	138.68	3.04	3.02	99.34	
138.68	141.73	3.05	3.02	99.02	
141.73	144.78	3.05	3.05	100	
144.78	147.83	3.05	3.05	100	
147.83	150.88	3.05	3.02	99.02	
150.88	153.92	3.04	3.05	100.33	
153.92	156.97	3.05	3.05	100	
156.97	160.02	3.05	3.01	98.69	
160.02	163.07	3.05	3.05	100	
163.07	166.12	3.05	3.01	98.69	
166.12	169.16	3.04	3.03	99.67	

Hole ID: **RG12-14**

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	Comments
169.16	172.21	3.05	3.08	100.98	
172.21	175.26	3.05	3.08	100.98	
175.26	178.31	3.05	3.04	99.67	
178.31	181.36	3.05	2.99	98.03	
181.36	184.4	3.04	3.02	99.34	
184.4	187.45	3.05	3.04	99.67	
187.45	190.5	3.05	3.05	100	
190.5	193.55	3.05	3.06	100.33	
193.55	196.6	3.05	2.96	97.05	
196.6	199.64	3.04	3.01	99.01	
199.64	202.69	3.05	3.04	99.67	
202.69	205.74	3.05	3.03	99.34	
205.74	208.79	3.05	3.06	100.33	
208.79	211.84	3.05	3.04	99.67	
211.84	214.88	3.04	3.02	99.34	
214.88	217.93	3.05	3.04	99.67	
217.93	220.98	3.05	3.04	99.67	
220.98	224.03	3.05	3.02	99.02	
224.03	226.47	2.44	2.45	100.41	
226.47	229.51	3.04	2.95	97.04	
229.51	231.65	2.14	2.18	101.87	
231.65	234.7	3.05	2.83	92.79	
234.7	236.22	1.52	1.61	105.92	
236.22	239.27	3.05	3.03	99.34	
239.27	242.32	3.05	3.06	100.33	
242.32	244.75	2.43	2.41	99.18	
244.75	247.8	3.05	3.06	100.33	
247.8	250.85	3.05	2.96	97.05	
250.85	253.9	3.05	3.04	99.67	
253.9	256.95	3.05	3.01	98.69	
256.95	257.25	0.3	0.35	116.67	
257.25	260.3	3.05	3.05	100	
260.3	262.74	2.44	2.32	95.08	
262.74	265.79	3.05	3.14	102.95	
265.79	268.83	3.04	2.78	91.45	
268.83	269.14	0.31	0.26	83.87	
269.14	272.19	3.05	3	98.36	
272.19	275.23	3.04	3.03	99.67	
275.23	275.84	0.61	0.65	106.56	
275.84	278.89	3.05	3	98.36	
278.89	281.94	3.05	3.02	99.02	
281.94	284.99	3.05	2.98	97.7	
284.99	288.04	3.05	3.01	98.69	
288.04	291.08	3.04	3.02	99.34	EOH

GeoSpark Logger Print Logs ~ Geotech Domains

DataSet: RG_GF

Hole ID: RG12-14

From (m)	To (m)	Interval Length	Natural Break Count	RQD (m)	RQD %	Domain Type	Rock Strength	Discont. Type 1	Discont. CA	Rough	Infill Type	Infill Thicknes	Discont. Type 2	Discont. CA	Rough	Infill Type	Infill Thicknes	Comments
3.66	12	8.34	7	7.23	86.69	LithChg	S	joi	53	smu	mode	t<1	dis	45	gpu	sof	t<5	
12	17.05	5.05	12	3.09	61.19	LithChg	S	dis	45	smu	mode	t<1	dis	65	rad	sof	t<5	
17.05	22.68	5.63	3	1.08	19.18	LithChg	S	joi	70	rau	non	none						
22.68	28.8	6.12	4	4.46	72.88	LithChg	MS	joi	60	rau	sof	t<1	dis	0	rau	sof	t<1	
28.8	30	1.2	0	0.94	78.33	LithChg	S	joi	75	rau	non	none						
30	42.3	12.3	3	11.98	97.4	LithChg	VS	vei	10	smu	non	t<5						
42.3	44.25	1.95	0	1.95	100	LithChg	VS	none	0	n/a	non	none						
44.25	57.16	12.91	10	12	92.95	LithChg	VS	vei	35	rap	sli	t<1						
57.16	109.2	52.04	67	46.77	89.87	LithChg	VS	vei	30	rap	non	t<1	dis	80	ssu	sli	t>5	
109.2	129.73	20.53	13	20.11	97.95	LithChg	VS	vei	30	smu	sli	t<5						
129.73	135.03	5.3	4	5.19	97.92	LithChg	S	vei	40	smp	sli	t<1						
135.03	147.74	12.71	10	12.35	97.17	LithChg	VS	vei	30	smu	sli	t<1						
147.74	173	25.26	16	23.45	92.83	LithChg	S	joi	35	rap	sli	t<5	joi	60	smu	sli	t<1	
173	215.36	42.36	53	30.33	71.6	LithChg	S	vei	65	smu	sof	t<1	vei	25	rau	sof	t<5	
215.36	286.82	71.46	79	46	64.37	LithChg	S	vei	40	smp	sof	t<1	vei	10	rau	sli	t<5	
286.82	291.08	4.26	5	3.59	84.27	LithChg	S	joi	55	rau	mode	t<1						EOH

GeoSpark Logger Print Logs ~ Mag Susceptibility

DataSet: RG_GF

Hole ID: RG12-14

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
3.66	5	1.34	129.8	168.1	161.2	153.033		DBigg	30/11/2012	
5	7	2	170.9	163.4	137.6	157.3		DBigg	30/11/2012	
7	9	2	145.3	144.8	170.8	153.633		DBigg	30/11/2012	
9	11	2	158.6	175.8	128.4	154.267		DBigg	30/11/2012	
11	12	1	142.6	152.9	139.5	145		DBigg	30/11/2012	
12	14	2	150.8	95.44	37.63	94.623		DBigg	30/11/2012	
14	16	2	58.14	139.4	154.7	117.413		DBigg	30/11/2012	
16	17.05	1.05	98.68	156.5	143.8	132.993		DBigg	30/11/2012	
17.05	19	1.95	126.3	111.7	137.3	125.1		DBigg	30/11/2012	
19	21	2	148.9	176.7	121.4	149		DBigg	30/11/2012	
21	22.68	1.68	123.5	119.3	109.6	117.467		DBigg	30/11/2012	
22.68	24	1.32	3.419	21.83	28.81	18.02		DBigg	30/11/2012	
24	26	2	28.48	30.32	34.83	31.21		DBigg	30/11/2012	
26	27	1	35.91	124.7	33.36	64.657		DBigg	30/11/2012	
27	28.8	1.8	28.93	28.98	3.921	20.61		DBigg	30/11/2012	
28.8	30	1.2	77.17	107.6	93.57	92.78		DBigg	30/11/2012	
30	32	2	122.2	117.5	103.2	114.3		Mki	01/12/2012	
32	34	2	126	68.64	83.04	92.56		Mki	01/12/2012	
34	36	2	111.1	104	105.5	106.867		Mki	01/12/2012	
36	38	2	116	102.6	111.4	110		Mki	01/12/2012	
38	40	2	105.8	54.42	108	89.407		Mki	01/12/2012	
40	41	1	83.69	85.78	105.7	91.723		Mki	01/12/2012	
41	42.3	1.3	99.99	109.1	166.3	125.13		Mki	01/12/2012	
42.3	44.25	1.95	28.84	20.93	6.18	18.65		Mki	01/12/2012	
44.25	46	1.75	112.1	113.19	95.2	106.83		Mki	01/12/2012	
46	48	2	97.87	93.76	66.51	86.047		Mki	01/12/2012	
48	50	2	98.22	96.56	112.1	102.293		Mki	01/12/2012	
50	52	2	96.98	102.4	84.73	94.703		Mki	01/12/2012	
52	54	2	107.9	70.28	108	95.393		Mki	01/12/2012	
54	56	2	109.4	87.68	73.81	90.297		Mki	01/12/2012	
56	57.16	1.16	97.33	87.43	90.09	91.617		Mki	01/12/2012	
57.16	59	1.84	52.91	567.34	40.99	220.413		Mki	01/12/2012	
59	61	2	48.99	52.72	69.76	57.157		Mki	01/12/2012	
61	63	2	72.97	60.11	64.89	65.99		Mki	01/12/2012	
63	65	2	64.03	50.63	53.67	56.11		Mki	01/12/2012	
65	67	2	39.86	69.06	40.62	49.847		Mki	01/12/2012	
67	69	2	57.43	51.47	57.21	55.37		Mki	01/12/2012	

Hole ID: **RG12-14**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
69	71	2	69.54	57.45	62.57	63.187		Mki	01/12/2012	
71	73	2	61.62	53.09	43.18	52.63		Mki	01/12/2012	
73	75	2	50.28	55.56	60.29	55.377		Mki	01/12/2012	
75	77	2	54.36	39.48	63.48	52.44		Mki	01/12/2012	
77	79	2	38.02	62.66	56.44	52.373		Mki	01/12/2012	
79	81	2	58.39	52.56	36.2	49.05		Mki	01/12/2012	
81	83	2	46.95	56.8	31.23	44.993		Mki	01/12/2012	
83	85	2	85.12	61.52	21.18	55.94		Mki	01/12/2012	
85	87	2	26.25	8.94	34.04	23.077		Mki	01/12/2012	
87	89	2	46.49	65.99	64.31	58.93		Mki	01/12/2012	
89	91	2	60.53	53.11	49.1	54.247		Mki	01/12/2012	
91	93	2	52.37	0.26	58.64	37.09		Mki	01/12/2012	
93	95	2	66.28	49.27	48.55	54.7		Mki	01/12/2012	
95	97	2	55.21	50.77	49.06	51.68		Mki	01/12/2012	
97	99	2	48.49	80.22	38.81	55.84		Mki	01/12/2012	
99	101	2	1.78	1.87	16.61	6.753		Mki	01/12/2012	
101	103	2	43.06	21.6	3.17	22.61		Mki	01/12/2012	
103	105	2	4.47	2.45	66.15	24.357		Mki	01/12/2012	
105	107	2	63.88	66.19	51.2	60.423		Mki	01/12/2012	
107	108	1	59.66	25.91	51.12	45.563		Mki	01/12/2012	
108	109.2	1.2	47.6	57.85	62.19	55.88		Mki	01/12/2012	
109.2	111	1.8	82.92	3.17	61.36	49.15		Mki	01/12/2012	
111	113	2	18.98	77.83	66.34	54.383		Mki	01/12/2012	
113	115	2	58.53	76.88	13.36	49.59		Mki	01/12/2012	
115	117	2	7.42	31.72	65.96	35.033		Mki	01/12/2012	
117	119	2	65.52	70.46	71.01	68.997		Mki	01/12/2012	
119	121	2	69.01	66.66	84.39	73.353		Mki	01/12/2012	
121	123	2	79.79	71.38	78.5	76.557		Mki	01/12/2012	
123	125	2	79.46	75.67	76.92	77.35		Mki	01/12/2012	
125	127	2	80.33	83.32	65.85	76.5		Mki	01/12/2012	
127	128	1	82.62	64.82	23.78	57.073		Mki	01/12/2012	
128	129.73	1.73	79.84	80.25	80.65	80.247		Mki	01/12/2012	
129.73	131	1.27	16.06	100.3	64.58	60.313		Mki	01/12/2012	
131	133	2	66.57	61.99	51.81	60.123		Mki	01/12/2012	
133	135.03	2.03	37.84	63.98	47.53	49.783		Mki	01/12/2012	
135.03	137	1.97	77.85	74.78	62.52	71.717		Mki	01/12/2012	
137	139	2	75.56	64.73	74.18	71.49		Mki	01/12/2012	
139	141	2	81.45	81.57	28.53	63.85		Mki	01/12/2012	
141	143	2	68.84	13.39	55.48	45.903		Mki	01/12/2012	

Hole ID: **RG12-14**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
143	145	2	70.39	43.85	71.47	61.903		Mki	01/12/2012	
145	146	1	68.18	61.23	70.2	66.537		Mki	01/12/2012	
146	147.74	1.74	58.8	29.91	71.84	53.517		Mki	01/12/2012	
147.74	149	1.26	70.04	63.91	62.87	65.607		Mki	01/12/2012	
149	151	2	43.92	56.25	53.37	51.18		Mki	01/12/2012	
151	153	2	156.69	51.12	60.09	89.3		Mki	01/12/2012	
153	155	2	58.19	61.09	62.92	60.733		Mki	01/12/2012	
155	157	2	65.24	52.44	57.39	58.357		Mki	01/12/2012	
157	159	2	46.46	61.12	46.93	51.503		Mki	01/12/2012	
159	161	2	12.59	63.58	68.45	48.207		DBigg	02/12/2012	
161	163	2	68.83	53.07	62.43	61.443		DBigg	02/12/2012	
163	165	2	66.28	67.16	28.43	53.957		DBigg	02/12/2012	
165	167	2	53.55	50.76	50.63	51.647		DBigg	02/12/2012	
167	169	2	58.39	48.57	61.29	56.083		DBigg	02/12/2012	
169	171	2	57.5	53.14	57.75	56.13		DBigg	02/12/2012	
171	173	2	70.58	57	38.31	55.297		DBigg	02/12/2012	
173	175	2	30.93	62.75	35.66	43.113		DBigg	02/12/2012	
175	177	2	38.41	64.02	45.41	49.28		DBigg	02/12/2012	
177	179	2	64.02	43.85	37.86	48.577		DBigg	02/12/2012	
179	181	2	6.091	59	58.98	41.357		DBigg	02/12/2012	
181	183	2	79.25	38.16	63.63	60.347		DBigg	02/12/2012	
183	185	2	63.08	25.53	56.47	48.36		DBigg	02/12/2012	
185	187	2	64.78	54.63	57.01	58.807		DBigg	02/12/2012	
187	189	2	53.08	50.43	59.72	54.41		DBigg	02/12/2012	
189	191	2	63.79	33.12	69.25	55.387		DBigg	02/12/2012	
191	193	2	35.84	8.325	69.28	37.815		DBigg	02/12/2012	
193	195	2	75.43	76.57	62.6	71.533		DBigg	02/12/2012	
195	197	2	64.59	64.98	65.39	64.987		DBigg	02/12/2012	
197	199	2	4.502	4.485	18.32	9.102		DBigg	02/12/2012	
199	201	2	1.173	42.74	19.75	21.221		DBigg	02/12/2012	
201	203	2	16.82	30.4	19.97	22.397		DBigg	02/12/2012	
203	205	2	11.28	81	37.02	43.1		DBigg	02/12/2012	
205	207	2	14.24	15.96	57.16	29.12		DBigg	02/12/2012	
207	209	2	24.74	58.82	75.54	53.033		DBigg	02/12/2012	
209	211	2	73.16	94.84	23.1	63.7		DBigg	02/12/2012	
211	213	2	17.19	18.35	21.27	18.937		DBigg	02/12/2012	
213	214	1	1.968	1.835	0.975	1.593		DBigg	02/12/2012	
214	215.36	1.36	1.386	6.179	1.465	3.01		DBigg	02/12/2012	
215.36	217	1.64	3.782	5.93	29.71	13.141		DBigg	02/12/2012	

Hole ID: **RG12-14**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
217	219	2	65.49	67.74	73.25	68.827		DBigg	02/12/2012	
219	221	2	82.51	52.8	90	75.103		DBigg	02/12/2012	
221	223	2	89.59	87.4	89.21	88.733		DBigg	02/12/2012	
223	225	2	90.21	74.1	62.59	75.633		DBigg	02/12/2012	
225	227	2	10.68	2.992	3.249	5.64		DBigg	02/12/2012	
227	229	2	3.542	7.757	48.82	20.04		DBigg	02/12/2012	
229	231	2	4.563	3.136	1.625	3.108		DBigg	02/12/2012	
231	233	2	76.36	72.9	72.54	73.933		DBigg	02/12/2012	
233	235	2	47.81	86.49	40.53	58.277		DBigg	02/12/2012	
235	237	2	85.16	86.71	65.9	79.257		DBigg	02/12/2012	
237	239	2	54.77	79.46	85.05	73.093		DBigg	02/12/2012	
239	241	2	84.72	52.2	80.01	72.31		DBigg	02/12/2012	
241	243	2	68.22	78.75	70.6	72.523		DBigg	02/12/2012	
243	245	2	57.54	68.49	66.49	64.173		DBigg	02/12/2012	
245	247	2	74.89	80.52	80.99	78.8		DBigg	02/12/2012	
247	249	2	72.74	63.81	69.71	68.753		DBigg	02/12/2012	
249	251	2	81.1	76.57	69.36	75.677		DBigg	02/12/2012	
251	253	2	70.37	65.97	51.15	62.497		DBigg	02/12/2012	
253	255	2	27.02	70.37	80.25	59.213		DBigg	02/12/2012	
255	257	2	69.57	76.99	80.15	75.57		DBigg	02/12/2012	
257	259	2	79.01	80.29	74.99	78.097		DBigg	02/12/2012	
259	261	2	75.93	78.31	80.75	78.33		DBigg	02/12/2012	
261	263	2	81.13	82.64	68.84	77.537		DBigg	02/12/2012	
263	265	2	45.36	45.79	32.65	41.267		DBigg	02/12/2012	
265	267	2	27.23	28.21	72.75	42.73		DBigg	02/12/2012	
267	269	2	69.73	69.27	56.46	65.153		DBigg	02/12/2012	
269	271	2	70.3	58.52	60.72	63.18		DBigg	02/12/2012	
271	273	2	63.79	63.31	63.34	63.48		DBigg	02/12/2012	
273	275	2	66.29	70.16	80.7	72.383		DBigg	02/12/2012	
275	277	2	71.26	74.99	80.12	75.457		DBigg	02/12/2012	
277	279	2	81.94	85.69	73.92	80.517		DBigg	02/12/2012	
279	281	2	52.92	83.74	76.12	70.927		DBigg	02/12/2012	
281	283	2	75.98	74.06	79.91	76.65		DBigg	02/12/2012	
283	285	2	73.11	62.83	61.66	65.867		DBigg	02/12/2012	
285	286.62	1.62	79.44	76.8	57.54	71.26		DBigg	02/12/2012	
286.62	288	1.38	25.32	62.79	63.48	50.53		DBigg	02/12/2012	
288	290	2	68.07	69.45	72.17	69.897		DBigg	02/12/2012	
290	291.08	1.08	72.68	73.99	72.49	73.053		DBigg	02/12/2012	EOH

GeoSpark Logger Print Logs ~ Specific Gravity

DataSet: RG_GF

Hole ID: RG12-14

From (m)	To (m)	Sample ID	Sample Type	SG Method	Weight Dry (g)	Weight Wet (g)	Bulk Density	Lithology GF Code	Local Lith Code	Alt 1 Code	Alt Interp	Alt Int	Sulph. %	Date Sampled	Sampled By	Comments
4.57	4.7	P377937	WC	MEAS	748.9	494.4	2.94	IFD	FnDio	Pot	Primary	W	0.1	30/11/2012	DBigg	
28.11	28.24	P377953	WC	MEAS	612.7	378.9	2.62	IMSY	MedSyen_BX	Pot	Primary	S	0	30/11/2012	DBigg	
53.43	53.61	P377969	WC	MEAS	952.2	621.5	2.88	IMMO	MedMonz	Pot	Primary	M	0.25	01/12/2012	Mki	
78.43	78.56	P377984	WC	MEAS	633.5	396.3	2.67	ICSY	CrsSyen	Pot	Primary	W	0.25	01/12/2012	Mki	
103.2	103.32	P377999	WC	MEAS	582.8	356.8	2.58	ICSY	CrsSyen	Pot	Primary	W	0.1	01/12/2012	Mki	
128.19	128.38	P377315	WC	MEAS	942.6	593.4	2.7	IPMO	PlagKsparPorMonz	Pot	Primary	S	0.1	01/12/2012	Mki	
152.07	152.3	P377331	WC	MEAS	783.2	485.2	2.63	ICSY	CrsSyen	Pot	Primary	W	0.1	01/12/2012	Mki	
179.13	179.26	P377347	WC	MEAS	631.2	376	2.47	ICSY	CrsSyen	Pot	Primary	W	0	02/12/2012	DBigg	
204.34	204.48	P377361	WC	MEAS	688.1	425.1	2.62	ICSY	CrsSyen	Pot	Primary	W	0.1	02/12/2012	DBigg	
234.23	234.34	P377379	WC	MEAS	513.3	321.4	2.67	IPMO	PlagKsparPorMonz	Pot	Primary	S	0	02/12/2012	DBigg	
259.18	259.35	P377394	WC	MEAS	839.8	532.7	2.73	IPMO	PlagKsparPorMonz	Pot	Primary	S	0	02/12/2012	DBigg	
284.66	284.82	P377408	WC	MEAS	684	428.4	2.68	IPMO	PlagKsparPorMonz	Pot	Primary	S	0	02/12/2012	DBigg	EOH

GeoSpark Logger Print Logs ~ DH Samples

DataSet: RG_GF

Hole ID: RG12-14

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
3.66	5	P377937	HC	DBigg	☐	
5	7	P377938	HC	DBigg	☐	
7	9	P377939	HC	DBigg	☐	
9	11	P377941	HC	DBigg	☐	
11	12	P377942	HC	DBigg	☐	
12	14	P377943	HC	DBigg	☐	
14	16	P377944	HC	DBigg	☐	
16	17.05	P377945	HC	DBigg	☐	
17.05	19	P377946	HC	DBigg	☐	
19	21	P377947	HC	DBigg	☐	
21	22.68	P377948	HC	DBigg	☐	
22.68	24	P377949	HC	DBigg	☐	
24	26	P377951	HC	DBigg	☐	
26	27	P377952	HC	DBigg	☐	
27	28.8	P377953	HC	DBigg	☐	
28.8	30	P377954	HC	DBigg	☐	
30	32	P377955	HC	Mki	☐	
32	34	P377956	HC	Mki	☐	
34	36	P377957	HC	Mki	☐	
36	38	P377958	HC	Mki	☐	
38	40	P377959	HC	Mki	☐	
40	41	P377961	HC	Mki	☑	
41	42.3	P377963	HC	Mki	☐	
42.3	44.25	P377964	HC	Mki	☐	
44.25	46	P377965	HC	Mki	☐	
46	48	P377966	HC	Mki	☐	
48	50	P377967	HC	Mki	☐	
50	52	P377968	HC	Mki	☐	
52	54	P377969	HC	Mki	☐	
54	56	P377971	HC	Mki	☐	
56	57.16	P377972	HC	Mki	☐	
57.16	59	P377973	HC	Mki	☐	
59	61	P377974	HC	Mki	☐	
61	63	P377975	HC	Mki	☐	
63	65	P377976	HC	Mki	☐	
65	67	P377977	HC	Mki	☐	
67	69	P377978	HC	Mki	☐	

GeoSpark Logger Print Logs ~ DH Samples

Hole ID: **RG12-14**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
69	71	P377979	HC	Mki	☐	
71	73	P377981	HC	Mki	☐	
73	75	P377982	HC	Mki	☐	
75	77	P377983	HC	Mki	☐	
77	79	P377984	HC	Mki	☐	
79	81	P377985	HC	Mki	☐	
81	83	P377986	HC	Mki	☐	
83	85	P377987	HC	Mki	☐	
85	87	P377988	HC	Mki	☑	
87	89	P377991	HC	Mki	☐	
89	91	P377992	HC	Mki	☐	
91	93	P377993	HC	Mki	☐	
93	95	P377994	HC	Mki	☐	
95	97	P377995	HC	Mki	☐	
97	99	P377996	HC	Mki	☐	
99	101	P377997	HC	Mki	☐	
101	103	P377998	HC	Mki	☐	
103	105	P377999	HC	Mki	☐	
105	107	P377301	HC	Mki	☐	
107	108	P377302	HC	Mki	☐	
108	109.2	P377303	HC	Mki	☐	
109.2	111	P377304	HC	Mki	☐	
111	113	P377305	HC	Mki	☐	
113	115	P377306	HC	Mki	☐	
115	117	P377307	HC	Mki	☐	
117	119	P377308	HC	Mki	☐	
119	121	P377309	HC	Mki	☐	
121	123	P377311	HC	Mki	☐	
123	125	P377312	HC	Mki	☐	
125	127	P377313	HC	Mki	☐	
127	128	P377314	HC	Mki	☐	
128	129.73	P377315	HC	Mki	☐	
129.73	131	P377316	HC	Mki	☑	
131	133	P377318	HC	Mki	☐	
133	135.03	P377319	HC	Mki	☐	
135.03	137	P377321	HC	Mki	☐	
137	139	P377322	HC	Mki	☐	
139	141	P377323	HC	Mki	☐	
141	143	P377324	HC	Mki	☐	

GeoSpark Logger Print Logs ~ DH Samples

Hole ID: **RG12-14**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
143	145	P377325	HC	Mki	☐	
145	146	P377326	HC	Mki	☐	
146	147.74	P377327	HC	Mki	☐	
147.74	149	P377328	HC	Mki	☐	
149	151	P377329	HC	Mki	☐	
151	153	P377331	HC	Mki	☐	
153	155	P377332	HC	Mki	☐	
155	157	P377333	HC	Mki	☐	
157	159	P377334	HC	Mki	☐	
159	161	P377335	HC	Mki	☐	
161	163	P377336	HC	Mki	☐	
163	165	P377337	HC	Mki	☐	
165	167	P377338	HC	Mki	☐	
167	169	P377339	HC	Mki	☐	
169	171	P377341	HC	Mki	☐	
171	173	P377342	HC	Mki	☐	
173	175	P377343	HC	DBigg	☐	
175	177	P377344	HC	DBigg	☑	
177	179	P377346	HC	DBigg	☐	
179	181	P377347	HC	DBigg	☐	
181	183	P377348	HC	DBigg	☐	
183	185	P377349	HC	DBigg	☐	
185	187	P377351	HC	DBigg	☐	
187	189	P377352	HC	DBigg	☐	
189	191	P377353	HC	DBigg	☐	
191	193	P377354	HC	DBigg	☐	
193	195	P377355	HC	DBigg	☐	
195	197	P377356	HC	DBigg	☐	
197	199	P377357	HC	DBigg	☐	
199	201	P377358	HC	DBigg	☐	
201	203	P377359	HC	DBigg	☐	
203	205	P377361	HC	DBigg	☐	
205	207	P377362	HC	DBigg	☐	
207	209	P377363	HC	DBigg	☐	
209	211	P377364	HC	DBigg	☐	
211	213	P377365	HC	DBigg	☐	
213	214	P377366	HC	DBigg	☐	
214	215.36	P377367	HC	DBigg	☐	
215.36	217	P377368	HC	DBigg	☐	

Hole ID: **RG12-14**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
217	219	P377369	HC	DBigg	☐	
219	221	P377371	HC	DBigg	☐	
221	223	P377372	HC	DBigg	☑	
223	225	P377374	HC	DBigg	☐	
225	227	P377375	HC	DBigg	☐	
227	229	P377376	HC	DBigg	☐	
229	231	P377377	HC	DBigg	☐	
231	233	P377378	HC	DBigg	☐	
233	235	P377379	HC	DBigg	☐	
235	237	P377381	HC	DBigg	☐	
237	239	P377382	HC	DBigg	☐	
239	241	P377383	HC	DBigg	☐	
241	243	P377384	HC	DBigg	☐	
243	245	P377385	HC	DBigg	☐	
245	247	P377386	HC	DBigg	☐	
247	249	P377387	HC	DBigg	☐	
249	251	P377388	HC	DBigg	☐	
251	253	P377389	HC	DBigg	☐	
253	255	P377391	HC	DBigg	☐	
255	257	P377392	HC	DBigg	☐	
257	259	P377393	HC	DBigg	☐	
259	261	P377394	HC	DBigg	☐	
261	263	P377395	HC	DBigg	☐	
263	265	P377396	HC	DBigg	☐	
265	267	P377397	HC	DBigg	☐	
267	269	P377398	HC	DBigg	☐	
269	271	P377399	HC	DBigg	☑	
271	273	P377402	HC	DBigg	☐	
273	275	P377403	HC	DBigg	☐	
275	277	P377404	HC	DBigg	☐	
277	279	P377405	HC	DBigg	☐	
279	281	P377406	HC	DBigg	☐	
281	283	P377407	HC	DBigg	☐	
283	285	P377408	HC	DBigg	☐	
285	286.82	P377409	HC	DBigg	☐	
286.82	288	P377411	HC	DBigg	☐	
288	290	P377412	HC	DBigg	☐	
290	291.08	P377413	HC	DBigg	☐	EOH

GeoSpark Logger Print Logs ~ Duplicate Samples

DataSet: RG_GF

Hole ID: RG12-14

From (m)	To (m)	Sample ID	Original Sample ID	QC Category	Comments
40	41	P377962	P377961	FD	
85	87	P377989	P377988	FD	
129.73	131	P377317	P377316	FD	
175	177	P377345	P377344	FD	
221	223	P377373	P377372	FD	
269	271	P377401	P377399	FD	

GeoSpark Logger Print Logs ~ Standards / Blanks

DataSet: RG_GF

Hole ID: RG12-14

Sample ID	Standard ID	Comments
P377310	FB	
P377320	WJN-STD2	
P377330	FB	
P377340	WJN-STD1	
P377350	FB	
P377360	WJN-STD2	
P377370	FB	
P377380	WJN-STD1	
P377390	FB	
P377400	WJN-STD2	
P377410	FB	
P377940	WJN-STD2	
P377950	FB	
P377960	WJN-STD1	
P377970	FB	
P377980	WJN-STD2	
P377990	FB	
P378000	WJN-STD1	

APPENDIX 10: Drill hole strip logs

Legend

Structure

PAT	LABEL
	Rubble Zone
	Bedding
	Breccia - Undifferentiated
	Fault
	Fault Breccia
	Fault Gouge
	Contact - Igneous
	Fracture Zone

Lithology

PAT	LABEL
	Overburden
	Fault
	Fault Breccia
	Fault Gouge
	Hornblende Andesite
	Hornblende Basalt
	Crs Plag Andesite
	Fn Plag Andesite Dyke
	Hydrothermal Breccia
	Medium Monzonite
	Coarse Syenite
	Coarse Syenite Breccia
	Medium Syenite
	Medium Syenite Breccia
	Med Syenite Intrusive Brx
	Med Plag Monzonite-Diorite

PAT	LABEL
	Plagioclase Monzonite
	Fine Diorite
	Medium Diorite
	Coarse Diorite
	Volcanic silt/mudstone
	Volcanic Sandstone
	Volcanic Breccia
	Fn Plag Andesite
	Andesite Brx (polymictic)
	Med Plag Andesite
	Med Plag Andesite Brx (monomict
	Fn Px Andesite
	Fn Px Andesite Brx (clast-sup.)
	Fn Px Andesite Brx (matrix-sup.
	Crs Px Andesite
	Crs Px Andesite Brx

Alteration

PAT	LABEL
	Potassic - Very Weak
	Potassic - Weak
	Potassic - Moderate
	Potassic - Strong
	Potassic - Very Strong

PAT	LABEL
	Propylitic - Very Weak
	Propylitic -Weak
	Propylitic - Moderate
	Propylitic - Strong
	Propylitic - Very Strong

PAT	LABEL
	Phyllic - Very Weak
	Phyllic - Weak
	Phyllic - Moderate
	Phyllic - Strong
	Phyllic - Very Strong

PAT	LABEL
	Albite - Very Weak
	Albite - Weak
	Albite - Moderate
	Albite - Strong
	Albite - Very Strong

PAT	LABEL
	Tourmaline - Very Weak
	Tourmaline - Weak
	Tourmaline - Moderate
	Tourmaline - Strong
	Tourmaline - Very Strong

Assay Values

Au_ppm

1.5
1
0.5
0.25
0.1

Cu_ppm

7500
5000
4000
3000
2000
1000

As_ppm

500
300
100
40

STRIP LOG: RG12-14

Easting	Northing	RL	Azimuth	Dip	Depth
603563.9	5813297.9	977.0	0.0	-50.0	291.1

RedGold
Scale 1:1000

GOLD FIELDS

Structure	Lithology	MagSus	Lithology Comments
	OVB		
	FnDio		Dk grey fg eqg dior. Muddy FeOx fills frac, local Mal on frac planes. Chl+vfg bio+mag repl hbl. Wkly dis fg cpy com'nly intrgrn w/ Bo. Rare thin Kspar+Cpy+Bo vns
	MedDio		Mg eqg dior. Mottled patchy text largely obsc'd by Kspar flooding +fg bio+Chl alt proximal to <20cm thick mg syen dyke. Sparsely dis fg Cpy, tr Bo.
	MedMonz		Pink-grey mg eqg monz.Abundant intrstl Kspar. Sharp upper contact ~30° where monz intrudes Dior? M Kspar and fg bio+mag alt. M chl ovp. Wk dis + rare blebs Cpy repl mafics, may be intrgrn w/ fg Bo locally.
	MedSyen		Mg massive to Kspar-phyr pink syen dyke. Upper contact 70°, lower brx ~40°. Carb alt'd Hbl w/in syen. Abund xenoliths (monz, dior, andesite) contain Cpy. Cpy rare w/in syenite.
	MedSyen_BX		Ang Monz Clasts <1-15cm, shattered and cemented by mg pink syenite. Jigsaw-fit to last rotated text. S carb alt'd Hbl xtals w/in syenite. Fg-blebby Cpy concentrates at clast-cement margins. Clasts contain fg dis Cpy.
	MedMonz		Pink-grey mg eqg monz. Sharply intr by syen cemented brx at top cont. S local Kspar floods downwards from upper cont. Local vns in which Carb, Kspar +euh Bio intergrow w/ Cpy blebs. Hbl repl by Bio+Mag +chl. Wk dis Cpy.
	MedSyen		Mg massive to Kspar-phyr pink syen dyke. Upper and lower contacts sharp undulating ~30°. Carb alt'd Hbl w/in syen. Abund xenoliths (monz, dior, andesite) contain Cpy. Cpy rare w/in syenite.
50 m	MedMonz		Pink-grey mg eqg monz. Hbl repl by Bio+Mag +chl. Wk dis+rare bleb Cpy, commonly w/in mafics. Common Kspar+carb±rare cpy vns
	CrsSyen		Cg Kspar-phyr pink syenite.Local trachytic Kspar laths. Mod carb alt, Hbl repl by Chl+bio+mag. Cpy wkly dis, occurs w/in altered mafics and may be intrgrn w/ tr pyrite.
100	PlagKsparPorMonz		Poss syenitic- Kspar appears>Plag but text mottled by S Pot alt; plag may be partially repl by Kspar. S dis bio+mag. Wkly dis Cpy.
	CrsSyen		Cg Kspar-phyr pink syenite.Local trachytic Kspar laths. Mod carb alt, Hbl repl by Chl+bio+mag. Cpy wkly dis, occurs w/in altered mafics and may be intrgrn w/ tr pyrite.
	PlagKsparPorMonz		Poss syenitic- Kspar appears>Plag but text mottled by S Pot alt; plag may be partially repl by Kspar. S dis bio+mag. Wkly dis Cpy.
150	CrsSyen		Cg Kspar-phyr pink syenite.Local trachytic Kspar laths. Mod carb alt, Hbl repl by Chl+bio+mag. Cpy wkly dis, occurs w/in altered mafics and may be intrgrn w/ tr pyrite.
200	PlagKsparPorMonz		Euh plag+Kspar- phyr monz/monzosyen; Kspar appears >plag but text is mottled by S Kspar flood + Fg bio+mag. PLag xtals comnly partially K alt.Com'n <10 cm syen dykes and K-rich veins<1cm. Com'n Carb vns. Trace dis Cpy.
250	CrsSyen		Cg Kspar-phyr pink syenite.Local trachytic Kspar laths. Mod carb alt, Hbl repl by Chl+bio+mag. Trace disseminated Cpy.

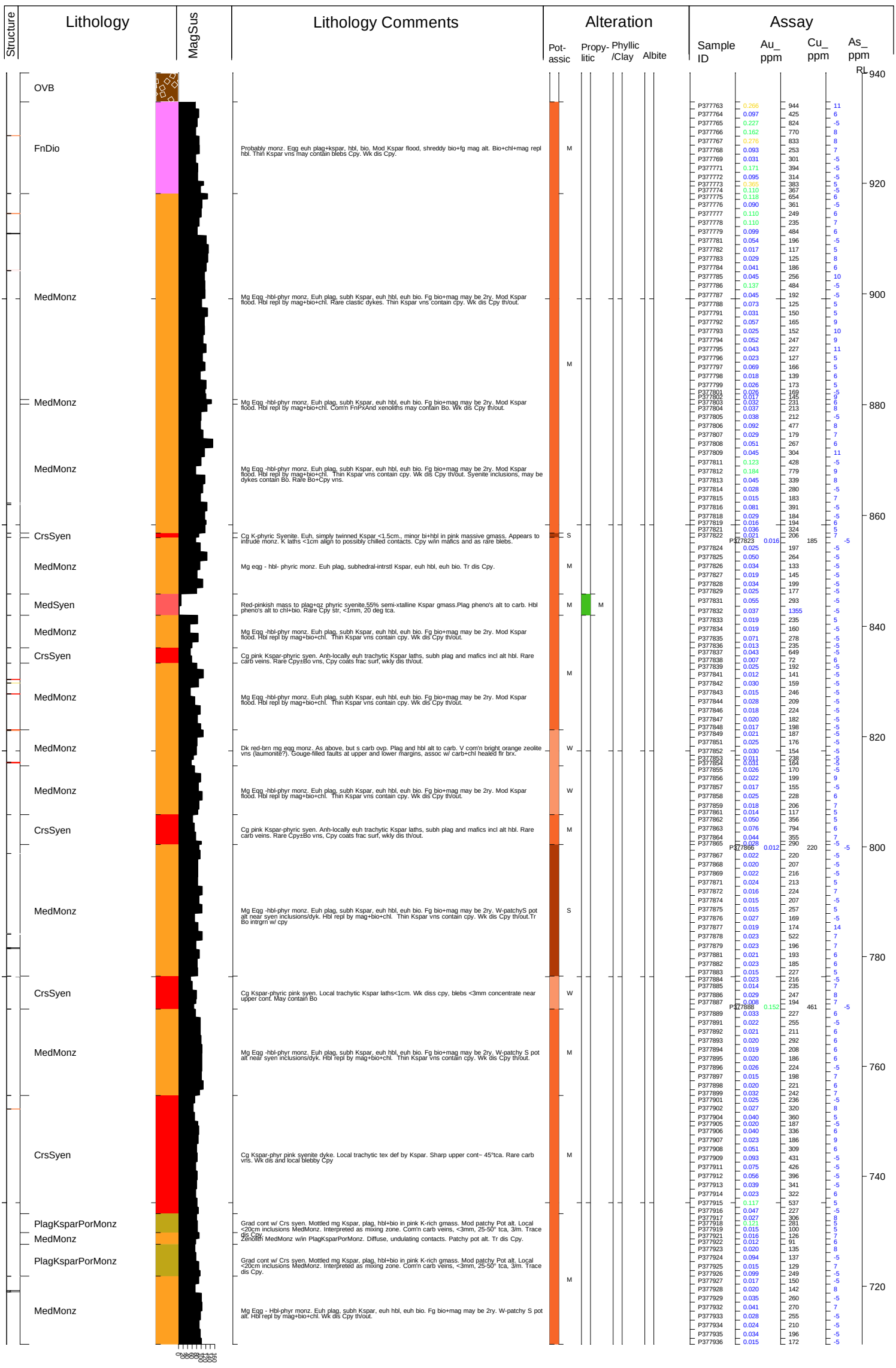
Alteration				
	Pot-assic	Propy-litic	Phyllic /Clay	Albite
OVB				
FnDio	W			
MedDio	S			
MedMonz	M			
MedSyen		W		
MedSyen_BX	S			
MedMonz	S			
MedSyen		S		
MedMonz	M			
CrsSyen	M			
PlagKsparPorMonz	S			
CrsSyen	M			
PlagKsparPorMonz	S			
CrsSyen	S			
PlagKsparPorMonz	S			
CrsSyen	W			

Assay				
Sample ID	Au_ ppm	Cu_ ppm	As_ ppm	RL
P377937	0.017	251	-5	
P377938	0.014	229	-5	
P377939	0.186	1010	6	
P377941	0.020	269	5	
P377942	0.014	191	9	
P377943	0.096	468	6	
P377944	0.028	143	5	
P377945	0.046	264	-5	
P377946	0.033	123	-5	960
P377947	0.028	187	-5	
P377948	0.020	144	-5	
P377949	0.015	94	-5	
P377951	0.019	62	-5	
P377952	0.018	80	-5	
P377953	0.019	239	-5	
P377954	0.021	361	5	
P377955	0.024	217	-5	
P377956	0.027	234	10	
P377957	0.012	172	7	
P377958	0.014	176	8	
P377959	0.026	183	6	
P377961	0.017	208	8	
P377963	0.029	330	6	
P377964	0.037	672	-5	
P377965	0.047	186	11	940
P377966	0.013	166	-5	
P377967	0.021	199	10	
P377968	0.043	289	7	
P377969	0.028	325	7	
P377971	0.044	345	-5	
P377972	0.057	710	-5	
P377973	0.011	119	5	
P377974	0.031	119	-5	
P377975	0.009	48	-5	
P377976	0.043	300	-5	
P377977	0.061	627	-5	
P377978	0.020	219	-5	
P377979	0.040	309	6	
P377981	0.129	355	-5	920
P377982	0.075	687	-5	
P377983	0.053	587	7	
P377984	0.110	827	-5	
P377985	0.129	588	-5	
P377986	0.134	694	6	
P377987	0.141	538	-5	
P377988	0.174	386	-5	
P377991	0.093	293	7	
P377992	0.039	176	-5	
P377993	0.069	249	-5	
P377994	0.175	450	-5	
P377995	0.155	323	-5	
P377996	0.310	684	-5	
P377997	0.160	394	5	900
P377998	0.033	227	-5	
P377999	0.036	186	-5	
P377301	0.021	165	-5	
P377302	0.073	496	-5	
P377303	0.055	285	-5	
P377304	0.015	87	7	
P377305	0.004	19	-5	
P377306	0.008	22	-5	
P377307	0.016	193	-5	
P377308	0.046	229	5	
P377309	0.013	58	-5	
P377311	0.025	89	5	
P377312	0.018	75	8	
P377313	0.031	109	-5	
P377314	0.009	40	-5	880
P377315	0.024	51	6	
P377316	0.129	395	-5	
P377318	0.038	225	-5	
P377319	0.040	143	-5	
P377321	0.051	247	8	
P377322	0.015	56	5	
P377323	0.020	94	-5	
P377324	0.031	13	-5	
P377325	0.063	20	-5	
P377326	0.019	27	-5	
P377327	0.014	16	-5	
P377328	0.143	114	-5	
P377329	0.029	298	-5	
P377331	0.070	179	-5	
P377332	0.079	80	-5	
P377333	0.008	21	-5	860
P377334	0.042	193	-5	
P377335	0.035	181	-5	
P377336	0.118	710	-5	
P377337	0.024	113	5	
P377338	0.016	96	6	
P377339	0.019	40	-5	
P377341	0.119	88	5	
P377342	0.006	95	5	
P377343	0.072	116	-5	
P377344	0.015	70	-5	
P377346	0.021	106	7	
P377347	0.036	155	7	
P377348	0.072	231	-5	840
P377349	0.038	116	5	
P377351	0.023	126	5	
P377352	0.251	894	5	
P377353	0.215	200	-5	
P377354	0.137	167	7	
P377355	0.624	584	5	
P377356	0.306	831	7	
P377357	3.110	1200	12	
P377358	0.062	212	10	
P377359	0.093	432	13	
P377361	0.039	265	9	
P377362	0.067	325	7	
P377363	0.106	292	5	
P377364	0.062	195	-5	820
P377365	0.039	74	-5	
P377366	0.034	242	7	
P377367	0.018	158	5	
P377368	0.045	228	6	
P377369	0.156	597	8	
P377371	0.024	139	-5	
P377372	0.099	270	-5	
P377374	0.009	88	-5	
P377375	0.080	154	-5	
P377376	0.019	207	-5	
P377377	0.109	357	-5	
P377378	0.030	109	-5	
P377379	0.038	139	9	
P377381	0.014	119	6	
P377382	0.027	107	5	800
P377383	0.017	137	-5	
P377384	0.015	45	-5	
P377385	0.006	91	8	
P377386	0.038	83	6	
P377387	0.034	254	5	
P377388	0.059	158	-5	
P377389	0.040	235	-5	
P377391	0.027	70	6	
P377392	0.016	153	-5	
P377393	0.008	61	7	
P377394	0.003	54	7	
P377395	0.003	64	7	
P377396	0.005	66	-5	
P377397	0.005	27	7	
P377398	0.009	69	-5	780
P377399	0.016	46	10	
P377402	0.016	70	7	
P377403	0.020	106	7	
P377404	0.024	286	5	
P377405	0.024	207	8	
P377406	0.006	53	7	
P377407	0.007	91	7	
P377408	0.011	188	10	
P377409	0.006	70	7	
P377411	0.009	39	9	
P377412	0.040	26	5	
P377413	0.010	34	6	

STRIP LOG: RG12-13

Easting	Northing	RL	Azimuth	Dip	Depth
603413.0	5812950.0	940.0	330.0	-55.0	281.3

RedGold
Scale 1:1000

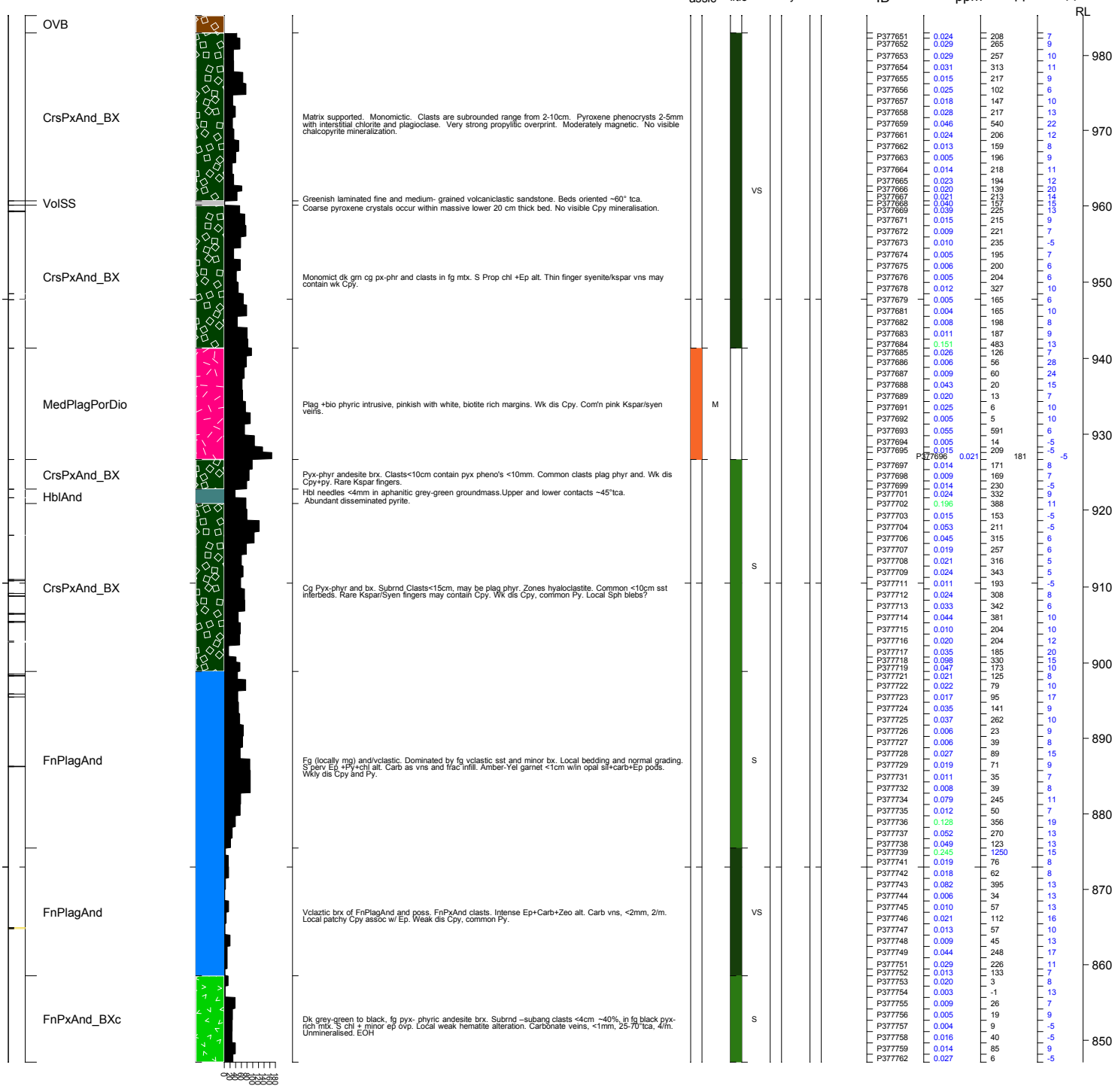


STRIP LOG: RG12-12

Easting	Northing	RL	Azimuth	Dip	Depth
604128.8	5813401.9	985.4	115.0	-50.0	184.4

RedGold
Scale 1:1000

GOLD FIELDS



Sample ID	Au_ ppm	Cu_ ppm	As_ ppm
P377651	0.024	208	7
P377652	0.029	265	9
P377653	0.029	257	10
P377654	0.031	313	11
P377655	0.015	217	9
P377656	0.025	102	6
P377657	0.018	147	10
P377658	0.028	217	13
P377659	0.046	540	22
P377661	0.024	206	12
P377662	0.013	159	8
P377663	0.005	196	9
P377664	0.014	218	11
P377665	0.023	194	12
P377666	0.020	139	20
P377667	0.021	213	14
P377668	0.040	157	15
P377669	0.039	225	13
P377671	0.015	215	9
P377672	0.009	221	7
P377673	0.010	235	-5
P377674	0.005	195	7
P377675	0.006	200	6
P377676	0.005	204	6
P377678	0.012	327	10
P377679	0.005	165	6
P377681	0.004	165	10
P377682	0.008	198	8
P377683	0.011	187	9
P377684	0.151	483	13
P377685	0.026	126	7
P377686	0.006	56	28
P377687	0.009	60	24
P377688	0.043	20	15
P377689	0.020	13	7
P377691	0.025	6	10
P377692	0.005	5	10
P377693	0.055	591	6
P377694	0.005	14	-5
P377695	0.015	209	-5
P377696	0.021	181	-5
P377697	0.014	171	8
P377698	0.009	169	7
P377699	0.014	230	-5
P377701	0.024	332	9
P377702	0.196	388	11
P377703	0.015	153	-5
P377704	0.053	211	-5
P377706	0.045	315	6
P377707	0.019	257	6
P377708	0.021	316	5
P377709	0.024	343	5
P377711	0.011	193	-5
P377712	0.024	308	8
P377713	0.033	342	6
P377714	0.044	381	10
P377715	0.010	204	10
P377716	0.020	204	12
P377717	0.035	185	20
P377718	0.098	330	15
P377719	0.047	173	10
P377721	0.021	125	8
P377722	0.022	79	10
P377723	0.017	95	17
P377724	0.035	141	9
P377725	0.037	262	10
P377726	0.006	23	9
P377727	0.006	39	8
P377728	0.027	89	15
P377729	0.019	71	9
P377731	0.011	35	7
P377732	0.008	39	8
P377734	0.079	245	11
P377735	0.012	50	7
P377736	0.128	356	19
P377737	0.052	270	13
P377738	0.049	123	13
P377739	0.245	1250	15
P377741	0.019	76	8
P377742	0.018	62	8
P377743	0.082	395	13
P377744	0.006	34	13
P377745	0.010	57	13
P377746	0.021	112	16
P377747	0.013	57	10
P377748	0.009	45	13
P377749	0.044	248	17
P377751	0.029	226	11
P377752	0.013	133	7
P377753	0.020	3	8
P377754	0.003	-1	13
P377755	0.009	26	7
P377756	0.005	19	9
P377757	0.004	9	-5
P377758	0.016	40	-5
P377759	0.014	85	9
P377762	0.027	6	-5

STRIP LOG: RG12-11

Easting	Northing	RL	Azimuth	Dip	Depth
604534.9	5813762.0	956.9	115.0	-60.0	213.7

RedGold
Scale 1:1000

GOLD FIELDS

Structure	Lithology	MagSus	Lithology Comments	Alteration: Pot-assic	Alteration: Propy-litic	Alteration: Phyllic /Clay	Alteration: Albite
	OVB						
	CrsPxAnd_BX		Monomic.Clst supported.Matrix comp of crs px phenos (1-7mm) with interstitial plag, chl,mag. Csts same comp, variable in size from 1–10cm. Mass and veined mag.Single int of syen (0.24m).Cpy within select chl carb vns and wkly dis.		VS		
	VolSS		Dark grey-black, fine grained volcanic sandstone with medium green-grey coarse pyroxene andesite breccia. Sandstone is massive, moderately magnetic, unmineralized. Magnetite and carbonate veining throughout both lithologies.	W	S		
	CrsPxAnd_BX		Monomictic.Clst supp. Matrix crs px phenos(1-7mm) w interst plag, chl and mag.Clasts same comp,1–10cm. Mag repl some px(1-5%) and matrix in sel ints.Cpy w sel carb vns as well as wkly dis, also found in rare 1-2mm aggs.	W	S		
50 m							
	CrsPxAnd_BX		Polymic.Clast supp. Crs px phenos(1-7mm) w interst plag,chl and mag.Clsts same comp, or pnk salm syen, 1–10cm. Occ vns (less than 1/m) with app of peg infill w same comp as syen clsts (kspar,carb, and chl). Mag repl px. Inc in pot alt and cpy.	M	S		
100							
	CrsPxAnd_BX		Monomic.Clst supp. Matrix comp of crse px phenos(1-7mm) w interst plag, chl and mag.Clsts same comp,1–10cm. Mag repl px(1-5%) and matrix in sel ints. Chalcopyrite found disseminated and in aggregates (up to 2mm) in select intervals.	M	S		
	PlagPorAnd_dyk		Reddish-brown plagioclase-phyric andesite dyke with elongate, crowded plagioclase phenocrysts (1-3mm) with interstitial k feldspar, biotite, and magnetite. Pyrite within fractures. Moderately magnetic. No visible chalcopyrite mineralization.	S	W		
	MedSyen_IBX		Polymictic.Syen cem: mg kspar, rare chl and bio. Clsts: crs px and bx or fine plag and bx. And clsts are wkly to moderately magnetic. Syenite contains trace bornite (handlens sized grains, less than 1mm). Chalcopyrite disseminated.	S	M		
	PlagPorAnd_dyk		Elongate, crowded plagioclase phenocrysts (1-3mm) with interstitial k feldspar, biotite, and magnetite. Pyrite within fractures. Moderately magnetic. No visible chalcopyrite mineralization.	S	W		
150							
	MedSyen_IBX		Monomictic. Syenite cement is salmon pink, contains k-feldspar, chlorite and biotite. Clasts composed of pyroxene andesite breccia, clasts are 1-10cm, subrounded. Moderately to strongly magnetic. Mineralized.	S	M		
	MedSyen_IBX		Monomictic. Syenite cement is salmon pink, contains k-feldspar, chlorite and biotite. Entire unit is moderately to strongly magnetic. Syenite is mineralized.	S	S		
	MedSyen_IBX		Zone of fractured and blky med syen int bx. Blks are 3-20cm in size. Wkly mag. Clsts comp of fg plag-phy and bx. Mod pot alt, mod to str hem alt. Mineralized	S	M		
200							
	PlagPorAnd_dyk		Rubble zone with elongate, crowded plagioclase phenocrysts (1-3mm) with interstitial k feldspar, biotite, and magnetite. No visible sulphides. Moderately magnetic.	S	W		

Assay: Sample ID	Au_ ppm	Cu_ ppm	As_ ppm	RL
P377523	0.140	1130	17	950
P377524	0.238	1760	24	
P377525	0.093	1020	15	
P377526	0.058	567	14	
P377527	0.031	342	25	
P377528	0.087	1040	17	940
P377529	0.191	1720	16	
P377531	0.057	973	12	
P377532	0.056	1610	16	
P377533	0.017	152	12	
P377534	0.029	235	7	
P377535	0.037	257	8	
P377536	0.017	221	12	930
P377537	0.013	101	10	
P377538	0.047	671	13	
P377539	0.015	218	12	
P377541	0.304	1670	11	
P377542	0.041	622	14	
P377543	0.195	1070	14	920
P377544	0.078	1340	20	
P377545	0.101	1940	21	
P377546	0.122	1660	16	
P377547	0.092	1110	17	
P377548	0.077	1430	12	
P377551	0.187	1780	21	910
P377552	0.355	1930	20	
P377553	0.043	382	13	
P377554	0.058	522	23	
P377555	0.126	1170	26	
P377556	0.231	1560	16	
P377557	0.078	605	14	
P377558	0.176	4450	15	900
P377559	0.191	3300	19	
P377561	0.189	2630	10	
P377562	0.298	3060	12	
P377563	0.187	1440	47	
P377564	0.407	4800	32	
P377565	0.050	917	25	890
P377566	0.035	988	22	
P377567	0.645	3630	22	
P377568	0.255	1700	16	
P377569	0.878	5810	20	
P377571	0.379	3340	25	
P377572	0.818	5570	14	880
P377573	0.246	1630	6	
P377574	0.229	3530	8	
P377575	0.149	2240	20	
P377576	0.136	1760	14	
P377577	0.129	1320	22	
P377579	0.164	2350	16	870
P377581	0.114	1720	22	
P377582	0.396	3090	13	
P377583	0.114	1660	18	
P377584	0.105	1940	19	
P377585	0.291	3200	12	860
P377586	0.238	2360	20	
P377587	0.230	1800	13	
P377588	0.227	3400	11	
P377589	0.199	2700	6	
P377591	0.202	2770	9	
P377592	0.404	6030	16	850
P377593	0.192	1610	10	
P377594	0.384	2540	18	
P377595	0.306	1740	10	
P377596	0.699	3280	11	
P377597	0.160	1160	7	
P377598	0.276	2700	10	
P377599	0.263	2800	7	840
P377601	0.287	1960	7	
P377602	0.241	1730	6	
P377603	0.136	1190	-5	
P377604	0.460	3470	16	
P377605	0.255	1810	11	
P377606	0.187	1260	-5	
P377608	0.911	2770	15	830
P377609	0.250	1630	8	
P377611	0.210	1790	-5	
P377612	0.362	1430	5	
P377613	0.237	2450	6	
P377614	0.164	2080	-5	
P377615	0.208	1530	5	820
P377616	0.085	992	6	
P377617	0.176	2230	7	
P377618	0.215	2070	14	
P377619	0.160	1280	15	
P377621	0.066	677	24	
P377622	0.044	339	21	810
P377623	0.047	495	15	
P377624	0.180	990	15	
P377625	0.349	3310	-5	
P377626	0.157	1710	10	
P377627	0.211	1940	6	
P377628	0.174	3070	9	
P377629	0.215	4160	8	800
P377631	0.076	1080	10	
P377632	0.064	468	11	
P377633	0.081	656	6	
P377634	0.189	1390	9	
P377636	0.045	312	9	
P377637	0.007	137	-5	790
P377638	0.018	258	-5	
P377639	0.019	330	-5	
P377641	0.038	586	7	
P377642	0.017	138	13	
P377643	0.188	1640	8	
P377644	0.024	228	9	
P377645	0.128	1490	10	780
P377646	0.067	970	6	
P377647	0.116	1140	11	
P377648	0.041	537	11	
P377649	0.097	789	6	

STRIP LOG: RG12-10

Easting	Northing	RL	Azimuth	Dip	Depth
604490.4	5813558.9	980.2	115.0	-55.0	202.7

RedGold
Scale 1:1000

GOLD FIELDS

Structure	Lithology	MagSus	Lithology Comments
	OVB		
	MedSyen_IBX		PlagAndBX that has been intr by later syen.Cem by mg sal-pnk syen with blocky kspar and diss bio.Clasts, CrsPx and, PlagAnd, or volss, 2cm to 20cm in size.Clasts are strg mag.Syen cem is wkly to mod mag.Cpy min found within syen.
50 m			
	FnPxAnd_BXc		Matrix is dominantly plag feldspar. Clasts same comp. Matrix contains aggs of mass mag. Rare fingers of syen (less than 1/m, 2-3cm). Overall moderately magnetic. No visible chalcopyrite mineralization.
	HblAnd		Elongate, euh hbl phenos, 1-2mm, aph groundmass. Lower contact contains 0.2m of flt gouge. Single finger of syenite, 4cm. Weakly to moderately magnetic. No visible chalcopyrite mineralization.
	FnPlagAnd_PBX		Select ints contain str alb alt. Silicified. Weakly magnetic in discreet intervals. Single finger of red-salmon syenite, 10cm, unmineralized. No visible chalcopyrite.
	FnPlagAnd_PBX		Clast supported, (over 30% clasts) plag-phyric and bx.Matrix is comp of plag, feldspar and chl. Clasts same comp w varying alt or of salm-pk syen. Upper cont has a sheared appearance. Mod mag. No visible cpy min.
100			
	FnPlagAnd_PBX		Matrix is plag, with rare vis 1mm phenos. Otherwise matrix is mass. Clasts are of same comp. Mod to str mag. Percentage of clasts increases towards lower contact, from ~10% to ~25%. No visible chalcopyrite mineralization.
	MedSyen_IBX		Polymictic, unit appears to have been a PlagAndBx that has been intruded by later syen. Cem by med grained salm-pnk syen with blocky kspar and diss biot.Clasts are of plag and or volss. Str mag.No visible sulphides.
	FnPlagAnd_PBX		Matrix supported. Matrix is plag, with rare visible 1mm phenos. Otherwise matrix is mass. Clasts are of same comp. Mod to str mag. Percentage of clasts incr towards lower contact, from ~10% to ~25%. No visible cpy mineralization.
	HblAnd		Elongate, euh hbl phenos, 1-2mm, aph groundmass. Lower contact contains 0.2m of fault gouge. Single finger of syenite, 4cm. Weakly to moderately magnetic. No visible chalcopyrite mineralization.
	FnPlagAnd_PBX		Matrix comp of plag, feldspar and chl. Plag phens up to 1mm. Clasts are comp of plag and, px and, hbl and or syen. Clasts 2cm to 10cm. Mag veined and in agg 1cm in size. Str pot alt with patchy propy alt. No visible cpy.
	FnPlagAnd_PBX		Matrix composed of plag, feldspar and chl. Plag phenos up to 1mm in size. Clasts plag and, px and, hbl and or syen. Clasts 2cm to 10cm. Mod pot alt with strong patchy propy alteration. No visible chalcopyrite mineralization.
	FnPlagAnd_PBX		Matrix plag, feldsp and chl.Plag phenos up to 1mm in size. Clasts are comp of plag and, px and, hbl and or syen. Clasts 2cm to 10cm in size. Mod magnetic. Single visible aggregate of chalcopyrite within carbonate-k feldspar vein.
150			
	FnPlagAnd_PBX		Matrix composed of plag, feld and chl. Plag pheno 1mm. Clasts are comp of plag and, px and, hbl and or syen. Clasts 2cm to 10cm. Mass mag in patches up to 2cm. Mod to str mag throughout. No vis cpy mineralization.
	MedSyen_IBX		Polymictic. Cem by mg salm-pnk syen with blcky kspar and dis biot. Clasts plag and or volss. Strongly magnetic, contains both massive and veined magnetite. Mineralized.
200	CrsPlagPorAnd_dyk		Subrounded kspar phenos 2-5mm. Groundmass is fg, dark pnk-red, aph. Alt dominantly pot to str propylitic. Contacts between alteration zones are sharp. Very weakly magnetic in select intervals. Unmineralized.

Alteration			
Pot-assic	Propy-litic	Phyllic /Clay	Albite
S			
M	S		
M	W		
S	VS		VS
S	M		
S	M		
VS	W		
S	M		
M	W		
S	M		
M	S		
S	M		
S	M		
S	S		
S	S		

Assay				
Sample ID	Au_ ppm	Cu_ ppm	As_ ppm	RL
P385401	0.056	1020	16	980
P385402	0.051	461	11	
P385403	0.418	1870	11	
P385404	0.034	775	26	970
P385405	0.066	1020	19	
P385406	0.039	829	18	
P385407	0.018	263	18	
P385408	0.030	431	16	
P385409	0.053	520	17	960
P385411	0.085	1100	20	
P385412	0.030	229	16	
P385413	0.031	306	13	
P385414	0.069	980	14	
P385415	0.048	680	16	950
P385416	0.044	351	10	
P385417	0.025	447	10	
P385418	0.023	431	13	
P385419	0.039	420	7	
P385421	0.061	545	10	
P385422	0.033	506	19	
P385423	0.032	242	-5	
P385424	0.019	491	8	940
P385425	0.018	267	8	
P385426	0.073	640	13	
P385428	0.063	642	9	
P385429	0.016	207	7	
P385431	0.029	422	13	
P385432	0.027	283	21	
P385433	0.046	253	28	930
P385434	0.040	474	21	
P385435	0.063	506	17	
P385436	0.029	391	11	
P385437	0.028	369	17	
P385438	0.018	147	20	
P385439	0.010	159	35	
P385441	0.017	241	17	920
P385442	0.030	472	18	
P385443	0.005	33	20	
P385444	0.010	91	30	
P385445	0.018	199	30	
P385446	0.011	117	24	
P385447	0.011	110	39	910
P385448	0.009	62	31	
P385449	0.026	192	34	
P385451	0.011	97	36	
P385452	0.002	13	17	
P385453	0.002	11	24	
P385454	0.001	6	24	900
P385456	0.003	24	26	
P385457	0.010	39	19	
P385458	0.023	320	24	
P385459	0.023	333	25	
P385461	0.035	319	22	
P385462	0.028	211	21	890
P385463	0.018	161	20	
P385464	0.028	149	18	
P385465	0.068	326	27	
P385466	0.004	28	28	
P385467	0.038	208	36	
P385468	0.023	165	54	
P385469	0.055	1020	42	880
P385471	0.005	22	15	
P385472	0.030	70	18	
P385473	0.052	428	36	
P385474	0.017	166	50	
P385475	0.009	77	22	
P385476	0.008	44	32	
P385477	0.024	180	40	870
P385478	0.097	1650	57	
P385479	0.075	539	33	
P385481	0.059	381	26	
P385482	0.036	262	27	
P385484	0.031	275	25	
P385485	0.022	174	27	
P385486	0.031	260	29	860
P385487	0.036	549	30	
P385488	0.011	124	19	
P385489	0.015	124	35	
P385491	0.013	86	23	
P385492	0.004	23	21	
P385493	0.005	19	29	850
P385494	0.002	11	23	
P385495	0.007	46	32	
P385496	0.024	147	23	
P385497	0.069	418	40	
P385498	0.035	366	30	
P385499	0.036	446	41	840
P377501	0.008	36	19	
P377502	0.020	180	20	
P377503	0.011	199	33	
P377504	0.092	1400	52	
P377505	0.062	1160	39	
P377506	0.072	1680	36	830
P377507	0.011	86	20	
P377508	0.008	38	16	
P377509	0.341	2030	30	
P377512	0.527	3640	43	
P377513	0.278	2390	59	
P377514	0.133	1390	41	820
P377515	0.236	1690	33	
P377516	0.008	15	26	
P377517	0.034	28	16	
P377518	0.016	12	19	
P377519	0.020	36	13	
P377521	0.110	291	16	
P377522	0.025	22	25	810

STRIP LOG: RG12-09

Easting	Northing	RL	Azimuth	Dip	Depth
604603.3	5813544.7	963.7	115.0	-55.0	291.1

RedGold
Scale 1:1000

Structure	Lithology	MagSus	Lithology Comments
	OVB		
	FnPlagAnd_PBX		Weathered medium grey-brown polymictic plagioclase andesite breccia, strong fracturing and common rubble intervals. Discrete syenite.
	FnPlagAnd_PBX		Medium-dark grey polymictic andesite breccia, weak fracturing. Mottled alteration and breccia texture.
	VolSS		Dark grey, fine grained, massive volcanic sandstone. Moderate potassic alteration. Moderate propylitic alteration. Weakly to moderately magnetic. No visible chalcopyrite mineralization.
	CrsPxAnd_BX		Cobble sized clasts w subh px phenos 2-5mm. Interst chl, plag and feldspar. Sel ints w 10% diss py. Disc ints of mod to str mag. Mod pot alt. Str to int propyl alt. Cpy found in agg near lower contact.
	CrsPxAnd_BX		Chl, xstal rich matrix. Px phens up to 5mm. Clasts are cobble sized and are of the same comp as matrix. Pot alt inc. Str propy alt.Mag rep px clasts. Mass mag in agg throughout, some with cpy. Ints (0.2m), have sheared txt w str hem alt.
	CrsPxAnd_BX		Matrix is highly chl, comp of plag, px and chl. Clasts same comp (2-5cm), Subh px phenos 2-5mm. Pat ep ovrprt, up to 10% in some areas. Wkly to mod mag. Sel ints contain pat kspar flooding.Cpy wkly dis in sel areas and in rare qtz veins.
	CrsPxAnd_BX		Matrix is highly chl, comp of plag, px and chl. Clasts same comp as matrix, averaging 2-5cm. Subh px phenos throughout 2-5mm in size. Mag veining throughout (less than 1%). Chalcopyrite weakly disseminated.
	CrsPxAnd_BX		Matrix is highly chl, plag, px and chl. Clasts of the same comp as matrix,2-5cm. Sub px phenos 2-5mm in size. Mag repl px phenos (up to 30%). Mag veining. Strgly mag throughout.Cpy is dis, found in rare veins with mag.
	VolSS		Start of interval is fg, carb rich fltq with frags of volsst within (2-5cm). Disc ints w int chl alt, changing color from gry-blk to dark olive green. Mod magnetic. No visible sulphide mineralization.
	CrsPxAnd_BX		Matrix is highly chl, comp of plag, px and chl. Clasts same as matrix, 2-5cm. Sub px phens 2-5mm in size. Mag repl some px(~10%).Mod mag throughout.Incr in carb veining.Aggs of cpy near upper cont, the rest of the int has no visible cpy min.

Alteration			
Pot-assic	Propy-litic	Phyllic /Clay	Albite
M			
M	W		
M	M		
M	S		
S	S		
M	S		
S	M		
S	M		
M	VS		
S	S		

Assay				
Sample ID	Au_ ppm	Cu_ ppm	As_ ppm	RL
P385228	0.011	130	10	
P385229	0.005	126	11	
P385231	0.006	58	8	
P385232	0.012	110	11	
P385233	0.042	202	12	
P385234	0.038	696	21	
P385235	0.016	161	23	
P385236	0.011	163	17	
P385237	0.008	48	18	
P385238	0.006	78	16	
P385239	0.019	397	13	
P385241	0.025	416	20	
P385242	0.026	322	16	
P385243	0.007	120	12	
P385244	0.014	190	9	
P385245	0.011	148	10	
P385246	0.007	51	7	
P385247	0.014	126	7	
P385248	0.031	258	11	
P385249	0.045	306	7	
P385251	0.014	158	11	
P385252	0.020	407	11	
P385253	0.012	179	15	
P385254	0.019	233	12	
P385256	0.012	92	5	
P385257	0.007	81	15	
P385258	0.015	345	14	
P385259	0.017	197	5	
P385261	0.664	3760	16	
P385262	1.120	2230	19	
P385263	0.107	793	28	
P385264	0.016	119	13	
P385265	0.024	501	15	
P385266	0.008	181	11	
P385267	0.009	141	14	
P385268	0.009	171	7	
P385269	0.014	283	8	
P385271	0.036	423	13	
P385272	0.014	166	16	
P385273	0.026	381	16	
P385274	0.046	494	10	
P385275	0.025	252	13	
P385276	0.025	295	9	
P385277	0.052	804	9	
P385278	0.066	920	15	
P385279	0.114	1330	12	
P385281	0.060	1120	12	
P385282	0.048	1100	20	
P385284	0.088	1270	17	
P385285	0.063	1220	11	
P385286	0.048	807	7	
P385287	0.065	1010	14	
P385288	0.093	1520	12	
P385289	0.170	1840	6	
P385291	0.040	492	17	
P385292	0.056	970	15	
P385293	0.039	1340	7	
P385294	0.030	566	15	
P385295	0.122	1130	14	
P385296	0.036	449	24	
P385297	0.051	583	21	
P385298	0.046	411	16	
P385299	0.088	931	12	
P385301	0.110	1470	13	
P385302	0.035	698	7	
P385303	0.094	1250	12	
P385304	0.063	960	16	
P385305	0.035	488	14	
P385306	0.036	530	7	
P385307	0.074	1110	11	
P385308	0.052	1000	14	
P385309	0.142	3020	19	
P385312	0.051	1080	15	
P385313	0.060	1050	14	
P385314	0.026	561	8	
P385315	0.115	1640	16	
P385316	0.372	3270	10	
P385317	0.308	4000	11	
P385318	0.294	2950	5	
P385319	0.147	1090	9	
P385321	0.182	1230	11	
P385322	0.054	356	30	
P385323	0.039	363	30	
P385324	0.042	459	15	
P385325	0.074	893	10	
P385326	0.416	2300	27	
P385327	1.225	9170	104	
P385328	0.071	888	9	
P385329	0.187	823	7	
P385331	0.088	798	-5	
P385332	0.079	923	14	
P385333	0.072	601	15	
P385334	0.064	516	16	
P385335	0.055	769	8	
P385336	0.064	322	10	
P385337	0.119	719	16	
P385339	0.272	914	17	
P385341	0.656	3090	20	
P385342	0.184	962	20	
P385343	0.201	1160	9	
P385344	0.086	882	15	
P385345	0.194	1700	13	
P385346	0.082	813	9	
P385347	0.141	1660	18	
P385348	0.069	680	15	
P385349	0.091	579	-5	
P385351	0.094	637	11	
P385352	0.095	529	6	
P385353	0.031	191	11	
P385354	0.066	296	-5	
P385355	0.063	580	9	
P385356	0.016	272	14	
P385357	0.052	581	9	
P385358	0.018	247	10	
P385359	0.022	358	6	
P385361	0.024	246	18	
P385362	0.060	484	13	
P385363	0.041	784	12	
P385364	0.046	986	7	
P385365	0.022	332	6	
P385367	0.012	164	9	
P385368	0.160	1070	18	
P385369	0.193	1200	10	
P385371	0.039	638	11	
P385372	0.072	1040	11	
P385373	0.060	910	16	
P385374	0.064	783	11	
P385375	0.071	785	8	
P385376	0.123	1100	13	
P385377	0.080	1410	8	
P385378	0.068	1220	13	
P385379	0.075	1490	13	
P385381	0.039	942	15	
P385382	0.031	807	12	
P385383	0.090	1340	22	
P385384	0.066	1370	20	
P385385	0.095	1780	23	
P385386	0.014	155	6	
P385387	0.097	828	9	
P385388	0.132	929	18	
P385389	0.042	387	10	
P385391	0.066	1240	36	
P385392	0.055	1040	23	
P385393	0.020	285	19	
P385394	0.025	621	12	
P385396	0.021	479	8	
P385397	0.023	578	10	
P385398	0.029	469	-5	
P385399	0.021	400	10	

50 m
100
150
200
250

960
940
920
900
880
860
840
820
800
780
760
740

STRIP LOG: RG12-08

Easting	Northing	RL	Azimuth	Dip	Depth
604386.1	5813584.4	987.3	115.0	-60.0	303.3

RedGold
Scale 1:1000

GOLD FIELDS

Structure	Lithology	MagSus	Lithology Comments	Alteration: Pot-assic	Alteration: Propy-litic	Alteration: Phyllic /Clay	Alteration: Albite
	OVB						
	HblBas		Dark grey, black, fine grained hornblende basalt. Strong potassic alteration. Moderate propylitic overprint. Moderately to strongly magnetic. Rare fingers of red syenite (1-2mm in size, unmineralized). No visible chalcopyrite mineralization.	S	M		
	MedPlagAnd_MBX		Dk. gry-grn, fg plag and bx with chl, crystal rich matrix and chaotic, subangular clasts. Mod pot alt, strong chl alt, moderate hematite alteration. Weakly magnetic. No visible cpy mineralization.	M			
	MedSyen_BX		Mg, clast dom, poly syen cem int bx. Clasts are subang,rot-jigsaw fit. Clasts volss or fg plag and. Was bx prev to syenite int. Syen is salmon pink, mg, elongate plag xtals. Wkly to mod mag clasts. Min excl to syen cement, +a few strs.	M	M		
50 m	MedSyen_IBX		Clast dom, syen cem int bx. Clasts are subang, and rotated-jig fit. Clasts are of either volss or fg plag and. Vol clasts are cg w plag and hbl phenos up to 2mm in size. Small areas (0.3m) displaying lam txts. Weakly magnetic within clasts.	M	VW		
	MedPlagPorDio		Mg reddish-grey plag-phyric dio. Has a sharp contact with upper and lower units. Mod pot alt. Moderate propylitic alteration. Weakly magnetic. No visible chalcopyrite mineralization.	M	M		
	FnPxAnd		Drk gry-blk to red-gry, fg px and with aph groundmass. Px phenos up to 3mm, rare crowding of plag phenos 1-2mm in size. Str to int pot alt. Sel hem alt. Rare small (0.5-1cm) sy ints. Strongly mag. No visible cpy min.	S			
100	FnPlagAnd		Plag phenos up to 2mm. Rare (~0.1%) px phenos up to 2mm in size. Blocky kpar and diss bio. Mod to str pot alt, Mod to str hem alt, small (0.4m) vs hem alt flt zone. Wkly to mod mag. Rare patchy salmon-pink syen (1-2cm, ~0.1%) No vis cpy min.	M			
	FnPlagAnd_PBX		Kspar and plag xstal rich matrix. Clasts are chaotic to rot with either similar comp to the matrix, or consisting of mag volss. Wkly to mod mag matrix, clasts of volss are str magnetic. No visible cpy min.	S			
	CrsSyen		Dom by elongate, euh kspar (up to 6mm), interstitial plag and hbl (both 1-3mm in size). Str to int pot alt throughout. Some fracture surfaces coated with chl. Wkly mag. Cpy diss throughout.	S			
	FnPlagAnd		Plag phenos up to 2mm. Rare (~0.1%) px phenos up to 2mm in size. Contains blocky kspar and diss biot. Mod to str pot alt. Mod to str hem alt. Inter-fingering of syen throughout. Upper contact contains 2 med sized (2-5cm) veins of cpy.	S			
150	CrsSyen		Dom by elongate, euh kspar (up to 6mm), interstitial plag and hbl (both 1-3mm in size). Str to vs pot alt throughout. Some frac surfaces coated with chl. Wkly mag. Cpy disseminated throughout.	VS			
	FnPlagAnd		Plag phenos up to 2mm. Disc brwn-gry bleach ints. Rare (~0.1%) px phenos up to 2mm in size. Blocky kspar. Mod to str pot alt. Mod to str hem alt. Rare patchy salmon-pink syen fingers (1-2cm,~0.1%) No vis cpy min.	S			
	FnPxAnd		Subh px phenos, 1-3mm. Mod pot alt. Strong propyl ovrpnt. Frac cont hem alt. Rare hem-chl alt amygdules. Weakly magnetic. No vis cpy mineralization.	M	S		
	FnPlagAnd		Plag phenos up to 2mm. Rare (~0.1%) px phenos up to 2mm in size. Kspar and diss bio. Mod to str pot alt. Mod to strong hem alt. Inter-fingering of syen. Wkly magn. Cpy present in qtz veins within syenite fingers.	S	M		
	FnPlagAnd		Andesite has strong propylitic alteration. Moderate potassic alteration. Bleached. Non magnetic. No visible chalcopyrite mineralization.	M	S		
200	FnPlagAnd_PBX		Rotated to chaotic clasts. Clasts are andesite, syenite and some sediments. Discrete intervals of intensified potassic alteration with increased magnetite. Overall, weak to moderately magnetic. Near the lower contact of unit is a fault breccia.	S	S		
	MedSyen_IBX		Clasts are subangular, and rot to jigsaw fit. Clasts are of either volss or fg plag and. Unit appears to have been bx'd previous to syen. Strong pot alt, mod propyl ovrprt. Mod to str mag. Cpy in rare aggs (1-2mm) within syen cem.	S	M		
	FnPlagAnd_PBX		Mottled, brown-grey, fine grained polymictic andesite breccia with rotated to chaotic clasts. Clasts are andesite, syenite and some sediments. Strong potassic alteration. Moderately to strongly magnetic. No visible sulphides.	S	M		
250	MedSyen		Contains euhedral, elongate k feldspar phenocrysts (3-4mm). Strong potassic alteration. Hematite alteration. Clay altered phenocrysts throughout (1-2mm). Moderately to strongly magnetic. No visible sulphides.	S			
	FnPlagAnd_PBX		Feldspar and plag xstal rich matrix. Clasts are cha-rot with either similar comp to the matrix, or consisting of salmon-pnk syen. Clasts range from 2-7cm. Mod to str magnetic matrix. Trace cpy min.	S	M		
	CrsPlagPorAnd_dyk		Plagioclase phenocrysts are elongate, 3-5mm in size. Aphanitic groundmass. Occasional salmon-pink syenite intrusions (less than 1/m, 2cm). Moderately to strongly magnetic in select areas. Mineralized.	S	M		
300	FnPlagAnd_PBX		Feldspar and plag xstal rich matrix. Clasts are cha-rot with either similar comp to the matrix, or consisting of salmon-pink syen. Clasts range from 2-7cm. Mod to str mag matrix.Trace cpy min replacing matrix close to upper contact.	S	S		

Assay: Sample ID	Au_ ppm	Cu_ ppm	As_ ppm	RL
P385038	0.003	49	33	
P385039	0.012	117	55	980
P385041	0.015	245	58	
P385042	0.017	355	67	
P385043	0.044	939	39	
P385044	0.035	542	30	
P385045	0.038	636	43	
P385046	0.008	178	32	
P385047	0.050	345	29	
P385048	0.076	920	49	
P385049	0.351	1490	39	
P385051	0.829	3530	40	960
P385052	0.099	409	23	
P385053	0.028	374	25	
P385054	0.037	409	39	
P385055	0.039	600	40	
P385056	0.174	1420	33	
P385057	0.007	187	24	
P385058	0.036	570	40	
P385059	0.017	359	21	
P385061	0.038	480	30	
P385062	0.213	2120	22	
P385064	0.100	954	40	
P385065	0.015	387	43	
P385066	0.060	499	40	
P385067	0.075	415	21	
P385068	0.069	441	10	
P385069	0.126	824	12	
P385071	0.044	341	12	940
P385072	0.132	448	25	
P385073	0.090	540	16	
P385074	0.061	836	20	
P385075	0.050	482	16	
P385076	0.044	260	15	
P385077	0.186	980	23	
P385078	0.131	964	13	
P385079	0.038	246	14	
P385081	0.019	156	15	
P385082	0.010	162	17	
P385083	0.020	251	24	
P385084	0.011	156	19	
P385085	0.009	79	13	920
P385086	0.012	135	17	
P385087	0.013	157	36	
P385088	0.027	209	18	
P385089	0.011	194	20	
P385092	0.020	191	19	
P385093	0.338	625	25	
P385094	0.010	182	19	
P385095	0.049	315	16	
P385096	0.153	1460	11	
P385097	0.050	202	17	
P385098	0.012	162	22	
P385099	0.009	154	31	900
P385101	0.010	129	27	
P385102	0.011	108	20	
P385103	0.080	156	11	
P385104	0.016	111	12	
P385105	0.023	159	11	
P385106	0.039	120	23	
P385107	0.038	205	15	
P385108	0.035	121	25	
P385109	0.055	351	16	
P385111	0.076	358	16	
P385112	0.108	299	15	
P385113	0.029	147	27	
P385114	0.023	174	12	
P385115	0.155	386	23	
P385116	0.067	192	15	
P385117	0.152	491	13	
P385119	0.070	458	9	
P385121	0.043	260	5	
P385122	0.068	409	6	
P385123	0.065	474	-5	
P385124	0.036	138	8	
P385125	0.041	139	11	
P385126	1.630	10400	817	
P385127	0.018	200	9	880
P385128	0.229	432	18	
P385129	0.037	244	19	
P385131	0.088	610	33	
P385132	0.045	287	25	
P385133	0.052	392	58	
P385134	0.008	79	13	
P385135	0.012	66	14	
P385136	0.045	156	19	
P385137	0.032	184	23	
P385138	0.035	204	18	
P385139	0.021	179	25	
P385141	0.066	569	70	
P385142	0.026	177	21	
P385143	0.014	141	29	
P385144	0.087	506	57	840
P385145	0.047	231	47	
P385147	0.025	135	30	
P385148	0.052	623	17	
P385149	0.103	384	30	
P385151	0.014	81	35	
P385152	0.028	180	31	
P385153	0.032	170	28	
P385154	0.054	155	32	
P385155	0.032	90	28	
P385156	0.006	54	22	
P385157	0.049	83	36	
P385158	0.009	27	28	
P385159	0.033	85	20	820
P385161	0.023	44	20	
P385162	0.011	40	26	
P385163	0.003	25	17	
P385164	0.007	45	16	
P385165	0.011	50	16	
P385166	0.006	14	13	
P385167	0.005	29	20	
P385168	0.007	39	22	
P385169	0.006	34	15	
P385171	0.010	39	20	
P385172	0.011	82	27	
P385173	0.010	37	14	
P385175	0.010	54	17	
P385176	0.005	60	19	
P385177	0.017	106	18	
P385178	0.033	166	15	
P385179	0.024	180	17	
P385181	0.013	98	14	
P385182	0.010	139	15	
P385183	0.025	148	20	
P385184	0.009	69	23	
P385185	0.003	25	17	
P385186	0.011	31	14	
P385187	0.006	25	13	
P385188	0.005	18	24	780
P385189	0.004	21	23	
P385191	0.023	46	18	
P385192	0.006	18	14	
P385193	0.005	27	14	
P385194	0.034	158	20	
P385195	0.039	11	19	
P385196	0.016	2	17	
P385197	0.022	2	19	
P385198	0.010	1	12	
P385199	0.010	55	26	
P385201	0.017	52	33	
P385203	0.019	75	37	
P385204	0.007	60	36	
P385205	0.007	42	39	
P385206	0.011	98	42	
P385207	0.003	24	29	
P385208	0.007	27	32	
P385209	0.019	139	35	
P385211	0.027	258	31	
P385212	0.012	72	20	760
P385213	0.007	37	22	
P385214	0.002	16	34	
P385215	0.007	53	35	
P385216	0.028	243	48	
P385217	0.180	1280	54	
P385218	0.005	59	44	
P385219	0.044	580	68	
P385221	0.049	664	35	
P385222	0.060	467	37	
P385223	0.002	13	36	
P385224	0.025	358	32	740
P385225	0.024	96	33	
P385226	0.015	354	30	
P385227	0.008	38	25	

APPENDIX 11: ALS Minerals lab method specifications

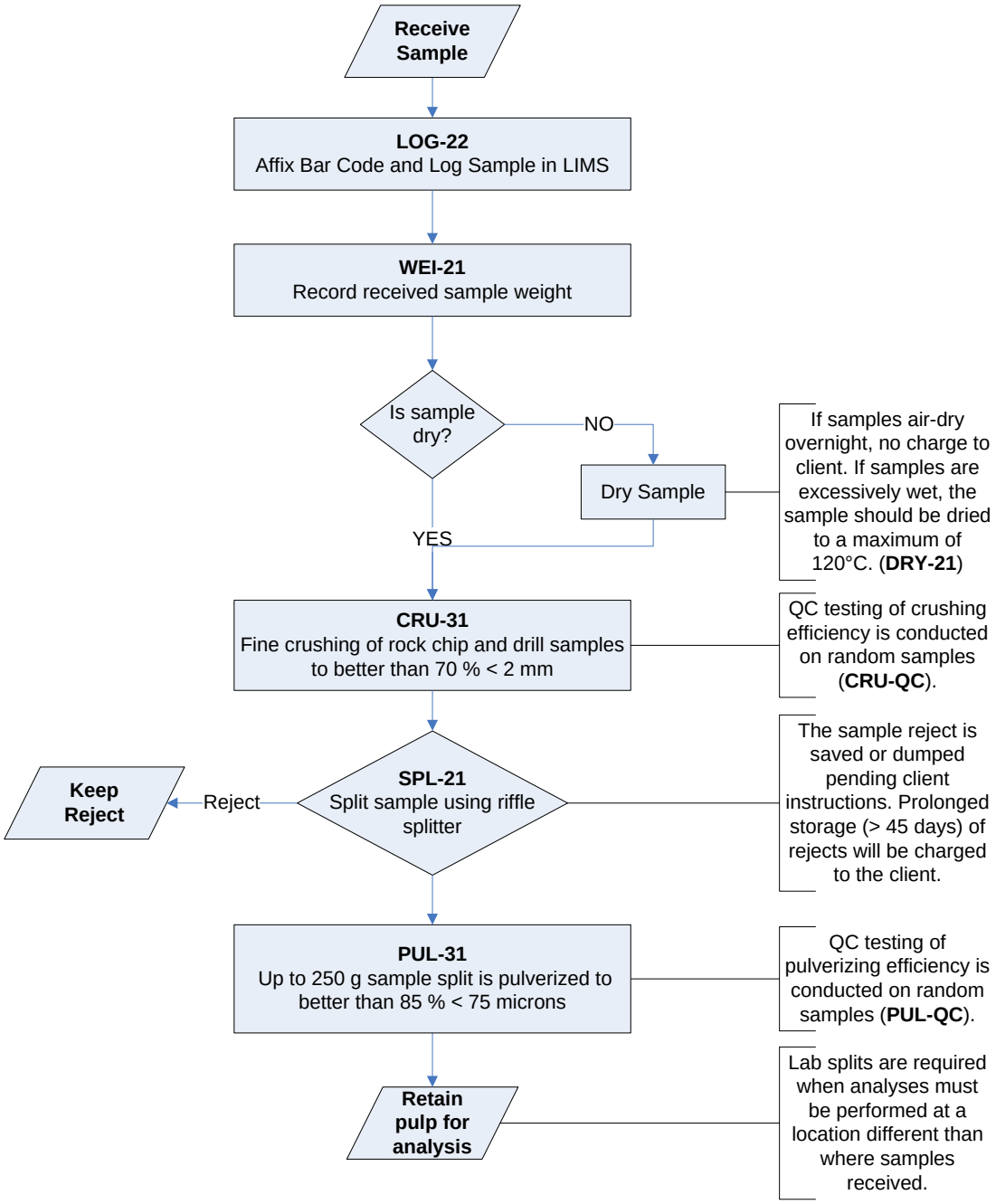
PREP- 31
Standard Sample Preparation: Dry, Crush, Split and Pulverize

Sample preparation is the most critical step in the entire laboratory operation. The purpose of preparation is to produce a homogeneous analytical sub-sample that is fully representative of the material submitted to the laboratory.

The sample is logged in the tracking system, weighed, dried and finely crushed to better than 70 % passing a 2 mm (Tyler 9 mesh, US Std. No.10) screen. A split of up to 250 g is taken and pulverized to better than 85 % passing a 75 micron (Tyler 200 mesh, US Std. No. 200) screen. This method is appropriate for rock chip or drill samples.

Method Code	Description
LOG-22	Sample is logged in tracking system and a bar code label is attached.
DRY-21	Drying of excessively wet samples in drying ovens. This is the default drying procedure for most rock chip and drill samples.
CRU-31	Fine crushing of rock chip and drill samples to better than 70 % of the sample passing 2 mm.
SPL-21	Split sample using riffle splitter.
PUL-31	A sample split of up to 250 g is pulverized to better than 85 % of the sample passing 75 microns.

Flow Chart - Sample Preparation Package – PREP- 31
Standard Sample Preparation: Dry, Crush, Split and Pulverize



PREP- 41

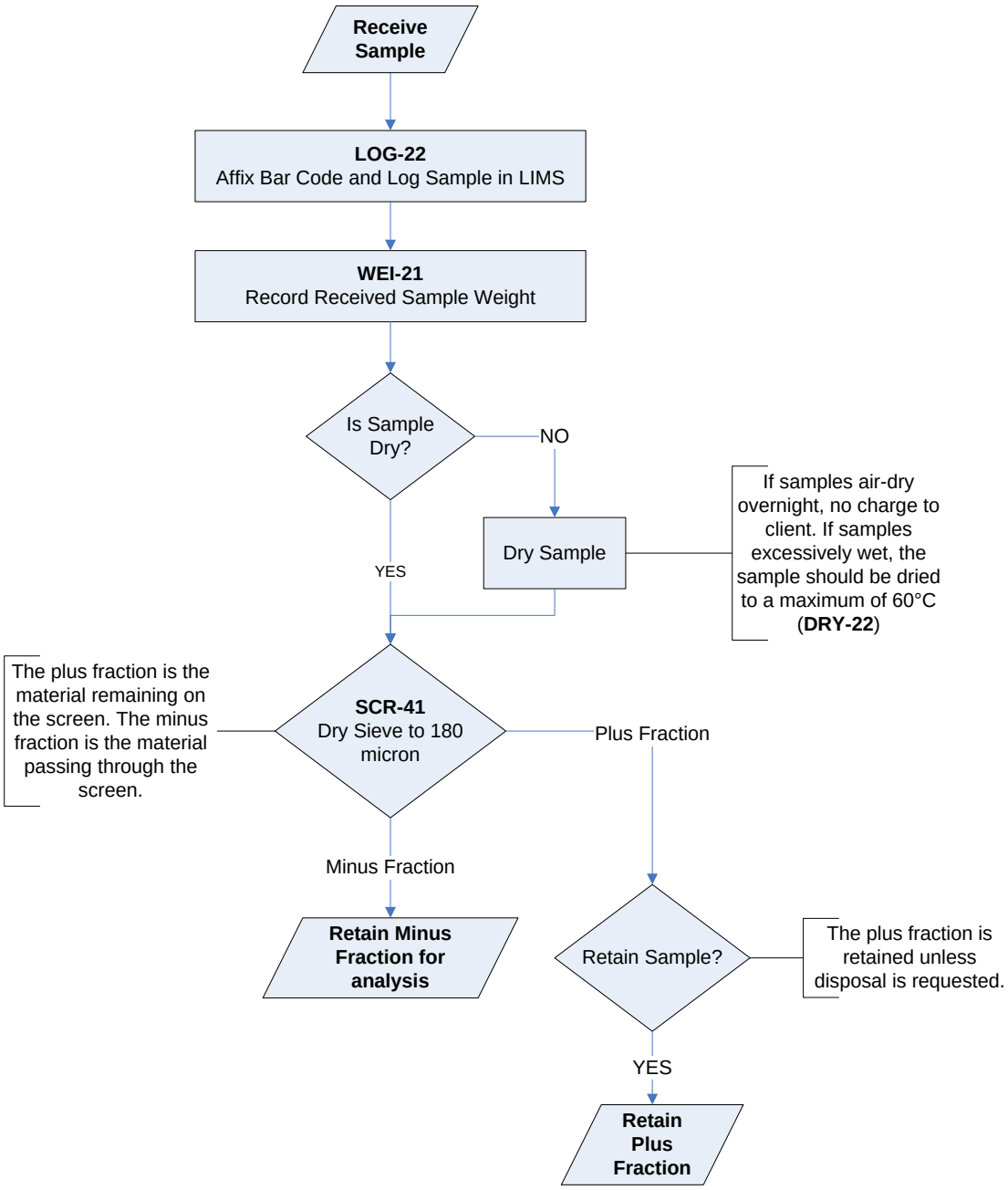
Standard Preparation: Dry sample and dry- sieve to -180 micron

Sample preparation is the most critical step in the entire laboratory operation. The purpose of preparation is to produce a homogeneous analytical sub-sample that is fully representative of the material submitted to the laboratory.

An entire sample is dried and then dry-sieved using a 180 micron (Tyler 80 mesh) screen. The plus fraction is retained unless disposal is requested. This method is appropriate for soil or sediment samples up to 1 kg in weight.

Method Code	Description
LOG-22	Sample is logged in tracking system and a bar code label is attached.
DRY-22	Low temperature drying of excessively wet samples where the oven temperature is not to exceed 60°C. This method is suitable for more soil and sediment samples that are analyzed for volatile elements.
SCR-41	Sample is dry-sieved to – 180 micron and both the plus and minus fractions are retained.

Sample Preparation Flowchart Package –PREP- 41



Au- ICP21 and Au- ICP22
Fire Assay Fusion ICP- AES Finish

Sample Decomposition:

Fire Assay Fusion (FA-FUSPG1 & FA-FUSPG2)

Analytical Method:

Inductively Coupled Plasma – Atomic Emission Spectrometry (ICP-AES)

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6 mg of gold-free silver and then cupelled to yield a precious metal bead.

The bead is digested in 0.5 mL dilute nitric acid in the microwave oven. 0.5 mL concentrated hydrochloric acid is then added and the bead is further digested in the microwave at a lower power setting. The digested solution is cooled, diluted to a total volume of 4 mL with de-mineralized water, and analyzed by inductively coupled plasma atomic emission spectrometry against matrix-matched standards.

Method Code	Element	Symbol	Units	Sample Weight (g)	Lower Limit	Upper Limit	Default Overlimit Method
Au-ICP21	Gold	Au	ppm	30	0.001	10	Au-AA25
Au-ICP22	Gold	Au	ppm	50	0.001	10	Au-AA26

ALS Minerals

FIRE ASSAY PROCEDURE

Au- SCR21

PRECIOUS METALS ANALYSIS – SCREEN METALLICS GOLD, DOUBLE MINUS

SAMPLE DECOMPOSITION

Fire Assay Fusion

ANALYTICAL METHOD

Gravimetric

1000 g of the final prepared pulp is passed through a 100 micron (Tyler 150 mesh) stainless steel screen to separate the oversize fractions. Any +100 micron material remaining on the screen is retained and analyzed in its entirety by fire assay with gravimetric finish and reported as the Au(+)fraction result. The –100 micron fraction is homogenized and two sub-samples are analyzed by fire assay with AAS finish (Au-AA25 and Au-AA25D). The average of the two AAS results is taken and reported as the Au (-) fraction result. All three values are used in calculating the combined gold content of the plus and minus fractions.

In the fire assay procedure, the sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required in order to produce a lead button. The lead button, containing the precious metals, is cupelled to remove the lead and the resulting precious metal bead is parted in dilute nitric acid, annealed and weighed to determine gold content.

The gold values for both the +100 and -100 micron fractions are reported together with the weight of each fraction as well as the calculated total gold content of the sample.

Calculations

$$\text{Au – avg} = \frac{\text{Au – (1)} + \text{Au –(2)}}{2}$$

$$\text{AuTotal (g / t)} = \frac{(\text{Au – avg (g/t)} \times \text{Wt.Minus(g)} \times 10^{-6}\ \text{t /g}) + (\text{Weight Au in Plus(mg)} \times 10^{-3}\ \text{g/mg})}{(\text{Wt.Minus(g)} + \text{Wt.Plus(g)}) \times 10\ \text{–6 t / g}}$$

Au- SCR21

FIRE ASSAY

Density = Specific gravity x Density of water (at temperature (t°C))

Factors for converting specific gravity to density are tabulated below:

DETERMINATION	DESCRIPTION	DETECTION LIMIT	UPPER LIMIT	UNITS
Au Total (+)(-) Combined	Total gold content of sample as determined by metallics calculation above.	0.05	0.05	ppm
Au (+) Fraction	Gold content of plus fraction determined by Au-GRA21.	0.05	0.05	ppm
Au (-) Fraction	Gold content of minus fraction. Reported as average of two subsamples.	0.05	0.05	ppm
Au-AA25	Gold content of first minus fraction subsample.	0.05	0.05	ppm
Au-AA25D	Gold content of second minus fraction subsample.	0.05	0.05	ppm
Au (+) mg	Weight of gold in plus fraction.	0.001	0.001	mg
WT. (+) Fraction Entire	Weight of plus fraction.	0.01	0.01	g
WT. (-) Fraction Entire	Weight of minus fraction.	0.1	0.1	g

Geochemical Procedure

Au-ST43/44
Determination of ultra-trace level gold by Aqua Regia

Sample Decomposition:

Gold aqua regia digestion (GEO-AUAR01/02)

Analytical Method:

Inductively Couple Plasma – Mass Spectrometry (ICP-MS)

Finely pulverised sample is digested in aqua regia. The gold in solution is determined by ICP-MS.

Samples containing high sulfides or carbon may lead to low gold recoveries unless they are roasted prior to digestion.

Method Code	Symbol	Units	Mass	Lower Limit	Upper Limit
Au-ST43	Au	ppm	25 g	0.0001	0.1
Au-ST44	Au	ppm	50 g	0.0001	0.1

Assay Procedure

ME- OG62
Ore Grade Elements by Four Acid Digestion Using Conventional ICP- AES Analysis

Sample Decomposition:

HNO_3-$HClO_4$-HF-HCl Digestion (ASY-4A01)

Analytical Method:

Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)*

Assays for the evaluation of ores and high-grade materials are optimized for accuracy and precision at high concentrations. Ultra high concentration samples (> 15 -20%) may require the use of methods such as titrimetric and gravimetric analysis, in order to achieve maximum accuracy.

A prepared sample is digested with nitric, perchloric, hydrofluoric, and hydrochloric acids, and then evaporated to incipient dryness. Hydrochloric acid and de-ionized water is added for further digestion, and the sample is heated for an additional allotted time. The sample is cooled to room temperature and transferred to a volumetric flask (100 mL). The resulting solution is diluted to volume with de-ionized water, homogenized and the solution is analyzed by inductively coupled plasma - atomic emission spectroscopy or by atomic absorption spectrometry.

***NOTE**: ICP-AES is the default finish technique for ME-OG62. However, under some conditions and at the discretion of the laboratory an AA finish may be substituted. The certificate will clearly reflect which instrument finish was used.

Element	Symbol	Units	Lower Limit	Upper Limit
Silver	Ag	ppm	1	1500
Arsenic	As	%	0.01	30
Bismuth	Bi	%	0.01	30
Cadmium	Cd	%	0.0001	10
Cobalt	Co	%	0.001	20
Chromium	Cr	%	0.002	30

Assay Procedure

Element	Symbol	Units	Lower Limit	Upper Limit
Copper	Cu	%	0.001	40
Iron	Fe	%	0.01	100
Manganese	Mn	%	0.01	50
Molybdenum	Mo	%	0.001	10
Nickel	Ni	%	0.001	30
Lead	Pb	%	0.001	20
Zinc	Zn	%	0.001	30

Geochemical Procedure

ME- ICP61
Trace Level Methods Using Conventional ICP- AES Analysis

Sample Decomposition:

HNO_3-$HClO_4$-HF-HCl digestion, HCl Leach (GEO-4ACID)

Analytical Method:

Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)

A prepared sample (0.25 g) is digested with perchloric, nitric, hydrofluoric and hydrochloric acids. The residue is topped up with dilute hydrochloric acid and the resulting solution is analyzed by inductively coupled plasma-atomic emission spectrometry. Results are corrected for spectral interelement interferences.

NOTE: Four acid digestions are able to dissolve most minerals; however, although the term "*near-total*" is used, depending on the sample matrix, not all elements are quantitatively extracted.

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Silver	Ag	ppm	0.5	100	Ag-OG62
Aluminum	Al	%	0.01	50	
Arsenic	As	ppm	5	10000	
Barium	Ba	ppm	10	10000	
Beryllium	Be	ppm	0.5	1000	
Bismuth	Bi	ppm	2	10000	
Calcium	Ca	%	0.01	50	
Cadmium	Cd	ppm	0.5	500	
Cobalt	Co	ppm	1	10000	Co-OG62
Chromium	Cr	ppm	1	10000	
Copper	Cu	ppm	1	10000	Cu-OG62
Iron	Fe	%	0.01	50	
Gallium	Ga	ppm	10	10000	

Geochemical Procedure

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Potassium	K	%	0.01	10	
Lanthanum	La	ppm	10	10000	
Magnesium	Mg	%	0.01	50	
Manganese	Mn	ppm	5	100000	
Molybdenum	Mo	ppm	1	10000	Mo-OG62
Sodium	Na	%	0.01	10	
Nickel	Ni	ppm	1	10000	Ni-OG62
Phosphorus	P	ppm	10	10000	
Lead	Pb	ppm	2	10000	Pb-OG62
Sulphur	S	%	0.01	10	
Antimony	Sb	ppm	5	10000	
Scandium	Sc	ppm	1	10000	
Strontium	Sr	ppm	1	10000	
Thorium	Th	ppm	20	10000	
Titanium	Ti	%	0.01	10	
Thallium	Tl	ppm	10	10000	
Uranium	U	ppm	10	10000	
Vanadium	V	ppm	1	10000	
Tungsten	W	ppm	10	10000	
Zinc	Zn	ppm	2	10000	Zn-OG62

Elements listed below are available upon request

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Lithium	Li	ppm	10	10000	
Niobium	Nb	ppm	5	2000	
Rubidium	Rb	ppm	10	10000	
Selenium	Se	ppm	10	1000	
Tin	Sn	ppm	10	10000	
Tantalum	Ta	ppm	10	10000	
Tellurium	Te	ppm	10	10000	
Yttrium	Y	ppm	10	10000	
Zirconium	Zr	ppm	5	500	

Geochemical Procedure

ME- MS41
Ultra- Trace Level Methods Using ICP- MS and ICP- AES

Sample Decomposition:

Aqua Regia Digestion (GEO-AR01)

Analytical Method:

Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

A prepared sample (0.50 g) is digested with aqua regia in a graphite heating block. After cooling, the resulting solution is diluted to with deionized water, mixed and analyzed by inductively coupled plasma-atomic emission spectrometry. Following this analysis, the results are reviewed for high concentrations of bismuth, mercury, molybdenum, silver and tungsten and diluted accordingly. Samples are then analysed by ICP-MS for the remaining suite of elements. The analytical results are corrected for inter-element spectral interferences.

Element	Symbol	Units	Lower Limit	Upper Limit
Silver	Ag	ppm	0.01	100
Aluminum	Al	%	0.01	25
Arsenic	As	ppm	0.1	10 000
Gold	Au	ppm	0.2	25
Boron	B	ppm	10	10 000
Barium	Ba	ppm	10	10 000
Beryllium	Be	ppm	0.05	1 000
Bismuth	Bi	ppm	0.01	10 000
Calcium	Ca	%	0.01	25
Cadmium	Cd	ppm	0.01	1 000
Cerium	Ce	ppm	0.02	500
Cobalt	Co	ppm	0.1	10 000
Chromium	Cr	ppm	1	10 000

Geochemical Procedure

Element	Symbol	Units	Lower Limit	Upper Limit
Cesium	Cs	ppm	0.05	500
Copper	Cu	ppm	0.2	10 000
Iron	Fe	%	0.01	50
Gallium	Ga	ppm	0.05	10 000
Germanium	Ge	ppm	0.05	500
Hafnium	Hf	ppm	0.02	500
Mercury	Hg	ppm	0.01	10 000
Indium	In	ppm	0.005	500
Potassium	K	%	0.01	10
Lanthanum	La	ppm	0.2	10 000
Lithium	Li	ppm	0.1	10 000
Magnesium	Mg	%	0.01	25
Manganese	Mn	ppm	5	50 000
Molybdenum	Mo	ppm	0.05	10 000
Sodium	Na	%	0.01	10
Niobium	Nb	ppm	0.05	500
Nickel	Ni	ppm	0.2	10 000
Phosphorus	P	ppm	10	10 000
Lead	Pb	ppm	0.2	10 000
Rubidium	Rb	ppm	0.1	10 000
Rhenium	Re	ppm	0.001	50
Sulphur	S	%	0.01	10
Antimony	Sb	ppm	0.05	10 000
Scandium	Sc	ppm	0.1	10 000
Selenium	Se	ppm	0.2	1 000
Tin	Sn	ppm	0.2	500
Strontium	Sr	ppm	0.2	10 000

Element	Symbol	Units	Lower Limit	Upper Limit
Tantalum	Ta	ppm	0.01	500
Tellurium	Te	ppm	0.01	500
Thorium	Th	ppm	0.2	10000
Titanium	Ti	%	0.005	10
Thallium	Tl	ppm	0.02	10 000
Uranium	U	ppm	0.05	10 000
Vanadium	V	ppm	1	10 000
Tungsten	W	ppm	0.05	10 000
Yttrium	Y	ppm	0.05	500
Zinc	Zn	ppm	2	10 000
Zirconium	Zr	ppm	0.5	500

NOTE: In the majority of geological matrices, data reported from an aqua regia leach should be considered as representing only the leachable portion of the particular analyte.

ME- MS81
Ultra- Trace Level Methods

Sample Decomposition:

Lithium Metaborate Fusion (FUS-LI01)

Analytical Method:

Inductively Coupled Plasma - Mass Spectroscopy (ICP - MS)

A prepared sample (0.200 g) is added to lithium metaborate flux (0.90 g), mixed well and fused in a furnace at 1000°C. The resulting melt is then cooled and dissolved in 100 mL of 4% HNO_3 / 2% HCl solution. This solution is then analyzed by inductively coupled plasma - mass spectrometry.

Element	Symbol	Units	Lower Limit	Upper Limit
Silver*	Ag	ppm	1	1000
Barium	Ba	ppm	0.5	10000
Cerium	Ce	ppm	0.5	10000
Cobalt*	Co	ppm	0.5	10000
Chromium	Cr	ppm	10	10000
Cesium	Cs	ppm	0.01	10000
Copper*	Cu	ppm	5	10000
Dysprosium	Dy	ppm	0.05	1000
Erbium	Er	ppm	0.03	1000
Europium	Eu	ppm	0.03	1000
Gallium	Ga	ppm	0.1	1000
Gadolinium	Gd	ppm	0.05	1000
Hafnium	Hf	ppm	0.2	10000
Holmium	Ho	ppm	0.01	1000

Element	Symbol	Units	Lower Limit	Upper Limit
Lanthanum	La	ppm	0.5	10000
Lutetium	Lu	ppm	0.01	1000
Molybdenum*	Mo	ppm	2	10000
Niobium	Nb	ppm	0.2	10000
Neodymium	Nd	ppm	0.1	10000
Nickel*	Ni	ppm	5	10000
Lead*	Pb	ppm	5	10000
Praseodymium	Pr	ppm	0.03	1000
Rubidium	Rb	ppm	0.2	10000
Samarium	Sm	ppm	0.03	1000
Tin	Sn	ppm	1	10000
Strontium	Sr	ppm	0.1	10000
Tantalum	Ta	ppm	0.1	10000
Terbium	Tb	ppm	0.01	1000
Thorium	Th	ppm	0.05	1000
Thallium	Tl	ppm	0.5	1000
Thulium	Tm	ppm	0.01	1000
Uranium	U	ppm	0.05	1000
Vanadium	V	ppm	5	10000
Tungsten	W	ppm	1	10000
Yttrium	Y	ppm	0.5	10000
Ytterbium	Yb	ppm	0.03	1000
Zinc*	Zn	ppm	5	10000
Zirconium	Zr	ppm	2	10000

*__Note__: Some base metal oxides and sulfides may not be completely decomposed by the lithium borate fusion. Results for Ag, Co, Cu, Mo, Ni, Pb, and Zn will not likely be quantitative by this method.

Adding Base Metals – ME- AQ81, ME- 4ACD81

Sample Decomposition: Aqua Regia (GEO-AR01) or 4-acid (GEO-4ACID)
Analytical Method: Inductively Coupled Plasma – Atomic Emission spectroscopy (ICP - AES)

The lithium metaborate fusion is not the preferred method for the determination of base metals. Many sulfides and some metal oxides are only partially decomposed by the borate fusion and some elements such as cadmium and zinc can be volatilized.

Base metals can be reported with ME-MS81 for either an aqua regia digestion (**ME- AQ81**) or a four acid digestion (**ME- 4ACD81**). The four acid digestion is preferred when the targets include more resistive mineralization such as that associated with nickel and cobalt.

Element	Symbol	Units	Lower Limit	Upper Limit
Silver	Ag	ppm	0.5	100
Arsenic	As	ppm	5	10000
Cadmium	Cd	ppm	0.5	10000
Cobalt	Co	ppm	1	10000
Copper	Cu	ppm	1	10000
Mercury**	Hg	ppm	1	10000
Molybdenum	Mo	ppm	1	10000
Nickel	Ni	ppm	1	10000
Lead	Pb	ppm	1	10000
Zinc	Zn	ppm	2	10000

**Hg is only offered with the aqua regia digestion.

ME- ICP06 and OA- GRA05
Analysis of major oxides by ICP- AES

ME- ICP06

Sample Decomposition:

Lithium Metaborate/Lithium Tetraborate ($LiBO_2/Li_2B_4O_7$) Fusion* (FUS-LI01)

Analytical Method:

Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP-AES)

A prepared sample (0.200 g) is added to lithium metaborate/lithium tetraborate flux (0.90 g), mixed well and fused in a furnace at 1000°C. The resulting melt is then cooled and dissolved in 100 mL of 4% nitric acid/2% hydrochloric acid. This solution is then analyzed by ICP-AES and the results are corrected for spectral inter-element interferences. Oxide concentration is calculated from the determined elemental concentration and the result is reported in that format.

Element	Symbol	Units	Lower Limit	Upper Limit
Aluminum	Al_2O_3	%	0.01	100
Barium	BaO	%	0.01	100
Calcium	CaO	%	0.01	100
Chromium	Cr_2O_3	%	0.01	100
Iron	Fe_2O_3	%	0.01	100
Magnesium	MgO	%	0.01	100
Manganese	MnO	%	0.01	100
Phosphorus	P_2O_5	%	0.01	100
Potassium	K_2O	%	0.01	100
Silicon	SiO_2	%	0.01	100
Sodium	Na_2O	%	0.01	100

Element	Symbol	Units	Lower Limit	Upper Limit
Strontium	SrO	%	0.01	100
Titanium	TiO_2	%	0.01	100

***Note**: For samples that are high in sulphides, we may substitute a peroxide fusion in order to obtain better results.

OA- GRA05, ME- GRA05

Sample Decomposition: Thermal decomposition Furnace or TGA (OA-GRA05 or ME-GRA05)
Analytical Method: Gravimetric

If required, the total oxide content is determined from the ICP analyte concentrations and loss on Ignition (L.O.I.) values. A prepared sample (1.0 g) is placed in an oven at 1000°C for one hour, cooled and then weighed. The percent loss on ignition is calculated from the difference in weight.

Method Code	Parameter	Symbol	Units	Lower Limit	Upper Limit
OA-GRA05	Loss on Ignition (Furnace)	LOI	%	0.01	100
ME-GRA05	Loss on Ignition (TGA)	Moisture	%	0.01	100
		LOI	%	0.01	100

ALS Minerals

SAMPLE PREPARATION PACKAGE

PREP- 31B

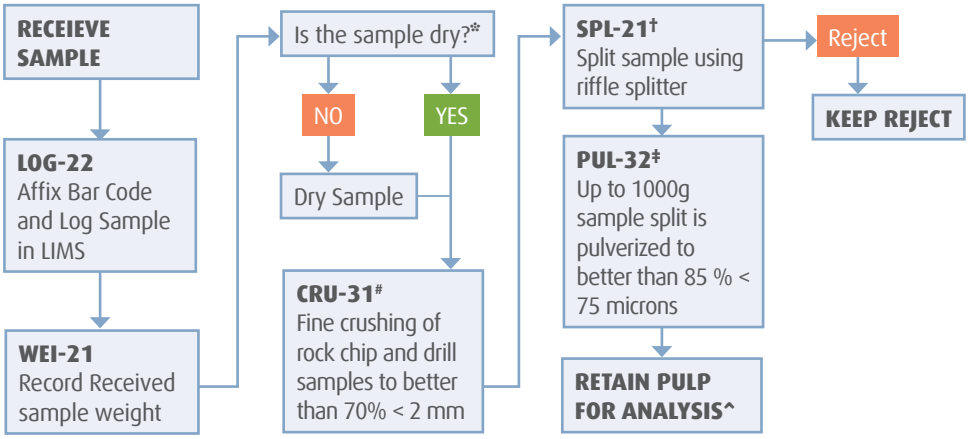
STANDARD SAMPLE PREPARATION: DRY, CRUSH, SPLIT AND PULVERIZE

Sample preparation is the most critical step in the entire laboratory operation. The purpose of preparation is to produce a homogeneous analytical sub-sample that is fully representative of the material submitted to the laboratory.

The sample is logged in the tracking system, weighed, dried and finely crushed to better than 70 % passing a 2 mm (Tyler 9 mesh, US Std. No.10) screen. A split of up to 1000 g is taken and pulverized to better than 85 % passing a 75 micron (Tyler 200 mesh) screen. This method is appropriate for rock chip or drill samples.

METHOD CODE	DESCRIPTION
LOG-22	Sample is logged in tracking system and a bar code label is attached.
DRY-21	Drying of excessively wet samples in drying ovens. This is the default drying procedure for most rock chip and drill samples.
CRU-31	Fine crushing of rock chip and drill samples to better than 70% of the sample passing 2 mm.
SPL-21	Split sample using riffle splitter.
PUL-32	A sample split of up to 1000g is pulverized to better than 85% of the sample passing 75 microns.

FLOW CHART - SAMPLE PREPARATION PACKAGE – PREP-31B STANDARD SAMPLE PREPARATION: DRY, CRUSH, SPLIT AND PULVERIZE



*If samples air-dry overnight, no charge to client. If samples are excessively wet, the sample should be dried to a maximum of 120°C. (**DRY-21**)

#QC testing of crushing efficiency is conducted on random samples (**CRU-QC**).

†The sample reject is saved or dumped pending client instructions. Prolonged storage (> 45 days) of rejects will be charged to the client.

‡QC testing of pulverizing efficiency is conducted on random samples (**PUL-QC**).

^Lab splits are required when analyses must be performed at a location different than where samples received.

APPENDIX 12: Certified Reference Materials specifications

SMEE & ASSOCIATES CONSULTING LTD.
CONSULTING GEOCHEMISTRY / GEOLOGY

Certificate of Analysis

Gold Fields Woodjam South Standard WJS-1

Element	Certified Mean	Two Standard Deviations (between lab)
Tot. Cu	**0.251 %**	**0.018 %**

Element	Provisional Mean	Two Standard Deviations (between lab)
FA Au	**0.107 g/t**	**0.022 g/t**
Tot. Mo	**0.010 %**	**0.002 %**

Means and standard deviations were calculated from data supplied by six laboratories. The instructions to the laboratories were to perform gold by fire assay and instrument finish, and copper and molybdenum by 4 acid "total" digestion and instrument finish. All data and graphics are contained in the accompanying Excel spreadsheets.

The participating laboratories were:

ALS Chemex, Vancouver
Acme,Vancouver
SGS, Vancouver
TSL, Saskatoon
Actlabs, Ancaster
AGAT, Toronto

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The means and standard deviations were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards. Standards with

Smee and Associates Consulting Ltd.
4658 Capilano Rd. North Vancouver, B.C., Canada, V7R 4K3
Tel: 604-929-0667; Fax: 604-929-0662
e-mail: bwsmee@geochemist.com
web site: www.geochemist.com

an RSD of near or less than 5 % are certified, RSD's of between near 5 % and 15 % are Provisional, and RSD's over 15 % or that have insufficient data are Indicated.

The bulk standards were prepared and packaged by CDN Labs of Langley B.C. Each bulk sample was pulverized in a large rod mill, screened through 275 mesh using an electric sieve, and homogenized in a large rotating mixer. Each standard was sealed in plastic to prevent gravity separation and oxidation.

Barry W. Smee, Ph.D., P.Geo.
May, 2012

Smee and Associates Consulting Ltd.
4658 Capilano Rd. North Vancouver, B.C., Canada, V7R 4K3
Tel: 604-929-0667; Fax: 604-929-0662
e-mail: bwsmee@geochemist.com
web site: www.geochemist.com

SMEE & ASSOCIATES CONSULTING LTD.
CONSULTING GEOCHEMISTRY / GEOLOGY

Certificate of Analysis

Gold Fields Woodjam South Standard WJS-2

Element	Certified Mean	Two Standard Deviations (between lab)
Tot. Cu	**0.379 %**	**0.032 %**
Tot. Mo	**0.020 %**	**0.001 %**

Element	Provisional Mean	Two Standard Deviations (between lab)
FA Au	**0.157 g/t**	**0.024 g/t**

Means and standard deviations were calculated from data supplied by six laboratories. The instructions to the laboratories were to perform gold by fire assay and instrument finish, and copper and molybdenum by 4 acid "total" digestion and instrument finish. All data and graphics are contained in the accompanying Excel spreadsheets.

The participating laboratories were:

ALS Chemex, Vancouver
Acme,Vancouver
SGS, Vancouver
TSL, Saskatoon
Actlabs, Ancaster
AGAT, Toronto

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The means and standard deviations were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards. Standards with

Smee and Associates Consulting Ltd.
4658 Capilano Rd. North Vancouver, B.C., Canada, V7R 4K3
Tel: 604-929-0667; Fax: 604-929-0662
e-mail: bwsmee@geochemist.com
web site: www.geochemist.com

an RSD of near or less than 5 % are certified, RSD's of between near 5 % and 15 % are Provisional, and RSD's over 15 % or that have insufficient data are Indicated.

The bulk standards were prepared and packaged by CDN Labs of Langley B.C. Each bulk sample was pulverized in a large rod mill, screened through 275 mesh using an electric sieve, and homogenized in a large rotating mixer. Each standard was sealed in plastic to prevent gravity separation and oxidation.

Barry W. Smee, Ph.D., P.Geo.
May, 2012

Smee and Associates Consulting Ltd.
4658 Capilano Rd. North Vancouver, B.C., Canada, V7R 4K3
Tel: 604-929-0667; Fax: 604-929-0662
e-mail: bwsmee@geochemist.com
web site: www.geochemist.com

SMEE & ASSOCIATES CONSULTING LTD.
CONSULTING GEOCHEMISTRY / GEOLOGY

Certificate of Analysis

Gold Fields Woodjam North Standard WJN-1

Element	Certified Mean	Two Standard Deviations (between lab)
FA Au	**0.292 g/t**	**0.022 g/t**
Tot. Cu	**0.190 %**	**0.014 %**

Means and standard deviations were calculated from data supplied by six laboratories. The instructions to the laboratories were to perform gold by fire assay and instrument finish, and copper by 4 acid "total" digestion and instrument finish. All data and graphics are contained in the accompanying Excel spreadsheets.

The participating laboratories were:

ALS Chemex, Vancouver
Acme,Vancouver
SGS, Vancouver
TSL, Saskatoon
Actlabs, Ancaster
AGAT, Toronto

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The means and standard deviations were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards. Standards with an RSD of near or less than 5 % are certified, RSD's of between near 5 % and 15 % are Provisional, and RSD's over 15 % or that have insufficient data are Indicated.

Smee and Associates Consulting Ltd.
4658 Capilano Rd. North Vancouver, B.C., Canada, V7R 4K3
Tel: 604-929-0667; Fax: 604-929-0662
e-mail: bwsmee@geochemist.com
web site: www.geochemist.com

The bulk standards were prepared and packaged by CDN Labs of Langley B.C. Each bulk sample was pulverized in a large rod mill, screened through 275 mesh using an electric sieve, and homogenized in a large rotating mixer. Each standard was sealed in plastic to prevent gravity separation and oxidation.

Barry W. Smee, Ph.D., P.Geo.
May, 2012

Smee and Associates Consulting Ltd.
4658 Capilano Rd. North Vancouver, B.C., Canada, V7R 4K3
Tel: 604-929-0667; Fax: 604-929-0662
e-mail: bwsmee@geochemist.com
web site: www.geochemist.com

SMEE & ASSOCIATES CONSULTING LTD.
CONSULTING GEOCHEMISTRY / GEOLOGY

Certificate of Analysis

Gold Fields Woodjam North Standard WJN-2

Element	Certified Mean	Two Standard Deviations (between lab)
FA Au	**0.685 g/t**	**0.046 g/t**
Tot. Cu	**0.263 %**	**0.012 %**

Means and standard deviations were calculated from data supplied by six laboratories. The instructions to the laboratories were to perform gold by fire assay and instrument finish, and copper by 4 acid "total" digestion and instrument finish. All data and graphics are contained in the accompanying Excel spreadsheets.

The participating laboratories were:

ALS Chemex, Vancouver
Acme,Vancouver
SGS, Vancouver
TSL, Saskatoon
Actlabs, Ancaster
AGAT, Toronto

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The means and standard deviations were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards. Standards with an RSD of near or less than 5 % are certified, RSD's of between near 5 % and 15 % are Provisional, and RSD's over 15 % or that have insufficient data are Indicated.

Smee and Associates Consulting Ltd.
4658 Capilano Rd. North Vancouver, B.C., Canada, V7R 4K3
Tel: 604-929-0667; Fax: 604-929-0662
e-mail: bwsmee@geochemist.com
web site: www.geochemist.com

The bulk standards were prepared and packaged by CDN Labs of Langley B.C. Each bulk sample was pulverized in a large rod mill, screened through 275 mesh using an electric sieve, and homogenized in a large rotating mixer. Each standard was sealed in plastic to prevent gravity separation and oxidation.

Barry W. Smee, Ph.D., P.Geo.
May, 2012

Smee and Associates Consulting Ltd.
4658 Capilano Rd. North Vancouver, B.C., Canada, V7R 4K3
Tel: 604-929-0667; Fax: 604-929-0662
e-mail: bwsmee@geochemist.com
web site: www.geochemist.com

APPENDIX 13: Drill Core Assay Certificates

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

CERTIFICATE VA12272211

Project: Red Gold

P.O. No.: RG- 2012- 010c

This report is for 204 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 19- NOV- 2012.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL	NATE BREWER	MATT ECKFELDT
JULIANNE MADSEN	AMELIA RAINBOW	ROSS SHERLOCK
TWILA SKINNER	TIM STUBLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
SPL- 34	Pulp Splitting Charge
LOG- 21	Sample logging - ClientBarCode
CRU- 31	Fine crushing - 70% <2mm
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
LOG- 21d	Sample logging - ClientBarCode Dup
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP61	33 element four acid ICP- AES	ICP- AES
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Cu- OG62	Ore Grade Cu - Four Acid	VARIABLE

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Ce ppm 50	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
P385038		1.98	0.005	<0.5	7.80	33	660	0.6	<2	4.85	<0.5	<50	15	54	49	6.09
P385039		4.76	0.013	<0.5	8.52	55	770	0.7	<2	5.39	<0.5	<50	18	81	117	6.94
P385040		0.14	0.302	2.5	7.24	70	2160	0.7	3	3.55	2.5	<50	27	12	1930	6.39
P385041		4.08	0.016	<0.5	8.42	58	710	0.5	<2	5.64	<0.5	<50	17	44	245	5.85
P385042		2.04	0.028	<0.5	8.23	67	470	0.7	2	7.91	<0.5	<50	15	41	355	4.99
P385043		4.28	0.046	<0.5	8.63	39	600	0.7	<2	6.56	<0.5	<50	28	29	1010	5.29
P385044		2.28	0.040	<0.5	7.04	30	830	0.5	<2	10.70	<0.5	<50	11	10	542	3.47
P385045		4.60	0.032	<0.5	7.89	43	770	0.6	<2	5.15	<0.5	<50	17	25	636	5.17
P385046		2.36	0.008	<0.5	8.27	32	620	0.5	3	4.07	<0.5	<50	12	30	178	5.32
P385047		4.02	0.039	<0.5	8.28	29	670	0.6	5	4.95	<0.5	<50	20	26	345	5.78
P385048		2.78	0.066	<0.5	8.55	49	670	1.0	2	6.05	<0.5	<50	18	30	920	4.98
P385049		4.64	0.532	<0.5	8.07	39	750	1.1	<2	6.20	<0.5	<50	18	59	1610	3.82
P385050		5.20	0.001	<0.5	0.07	<5	30	<0.5	<2	21.4	<0.5	<50	<1	<1	3	0.49
P385051		2.80	0.804	<0.5	8.03	40	900	1.1	<2	6.13	<0.5	<50	15	23	3800	3.36
P385052		4.16	0.058	<0.5	8.12	23	620	0.9	2	5.14	<0.5	<50	15	22	409	4.93
P385053		4.76	0.029	<0.5	8.35	25	590	0.6	<2	8.90	<0.5	<50	11	16	374	4.61
P385054		4.72	0.038	<0.5	8.02	39	530	0.6	<2	5.59	<0.5	<50	18	21	409	4.90
P385055		4.52	0.037	<0.5	8.45	40	630	0.6	<2	6.10	<0.5	<50	14	25	600	3.85
P385056		2.36	0.136	<0.5	7.69	33	1740	0.8	2	5.19	<0.5	<50	9	4	1440	3.85
P385057		3.12	0.008	<0.5	8.22	24	1570	0.9	2	4.90	<0.5	<50	10	2	187	5.38
P385058		3.62	0.029	<0.5	7.99	40	1130	0.8	<2	5.75	<0.5	<50	17	27	570	4.33
P385059		4.90	0.011	<0.5	8.21	21	1270	0.8	<2	4.84	<0.5	<50	16	17	359	4.12
P385060		0.14	0.706	1.0	6.94	83	1540	0.6	2	3.07	1.1	<50	33	12	2620	7.84
P385061		4.52	0.031	<0.5	7.97	30	750	0.6	<2	5.87	<0.5	<50	15	23	480	4.53
P385062		4.90	0.180	<0.5	7.92	22	1310	0.8	3	4.98	<0.5	<50	17	19	2200	3.87
P385063		4.50	0.088	<0.5	8.16	29	1220	0.8	<2	4.94	<0.5	<50	15	27	952	3.73
P385064		2.68	0.132	<0.5	8.06	40	1310	0.8	<2	4.43	<0.5	<50	17	31	954	3.94
P385064_PD		<0.02	0.105	<0.5	8.35	49	1360	0.8	4	4.57	<0.5	<50	18	31	980	4.13
P385065		4.66	0.019	<0.5	8.22	43	670	0.6	2	4.75	<0.5	<50	19	12	387	4.95
P385065_CD		<0.02	0.021	<0.5	8.22	47	690	0.6	<2	4.69	<0.5	<50	19	13	382	5.03
P385066		4.94	0.048	<0.5	8.24	40	660	0.6	<2	4.88	<0.5	<50	17	13	499	5.07
P385067		4.94	0.091	<0.5	8.50	21	670	0.7	4	4.51	<0.5	<50	13	12	415	4.59
P385068		4.80	0.064	<0.5	7.86	10	670	0.7	2	5.06	<0.5	<50	14	58	441	4.35
P385069		4.74	0.208	<0.5	8.48	12	640	0.7	2	4.70	<0.5	<50	16	11	824	4.54
P385070		3.34	0.001	<0.5	0.10	<5	60	<0.5	<2	20.2	<0.5	<50	<1	<1	2	0.48
P385071		4.96	0.033	<0.5	8.00	12	650	0.6	3	5.09	<0.5	<50	14	12	341	5.27
P385072		4.74	0.098	<0.5	8.58	25	700	0.7	<2	5.48	<0.5	<50	14	18	448	5.08
P385073		4.56	0.117	<0.5	8.59	16	730	0.7	2	4.95	<0.5	<50	15	10	540	4.21
P385074		4.74	0.086	<0.5	9.04	20	520	0.6	<2	5.83	<0.5	<50	16	10	836	4.22
P385075		4.56	0.065	<0.5	7.84	16	640	0.6	<2	4.94	<0.5	<50	12	8	482	4.32

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Ga	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.01	10	10	0.01	5	1	0.01	5	1	10	2	10	0.01	5
P385038		20	1.25	<10	10	2.65	862	<1	3.14	<5	14	1190	4	20	0.08	<5
P385039		20	1.31	10	20	3.21	1000	3	3.55	<5	20	1290	9	20	0.10	<5
P385040		20	2.23	10	20	0.94	1270	33	2.48	<5	9	870	73	40	1.56	<5
P385041		20	1.38	10	20	2.54	896	3	3.01	<5	12	1000	<2	20	0.16	<5
P385042		20	1.13	10	20	2.09	810	2	2.75	<5	12	950	5	30	0.08	<5
P385043		20	1.20	10	20	2.16	740	3	3.40	<5	11	1110	5	20	0.88	<5
P385044		20	2.00	10	10	1.33	853	3	2.59	<5	6	1110	<2	40	0.07	<5
P385045		20	1.84	<10	20	2.10	659	2	3.32	<5	9	950	4	30	0.15	<5
P385046		20	1.86	<10	20	2.37	660	3	3.37	<5	8	960	3	40	0.16	<5
P385047		20	1.74	10	20	2.28	733	3	3.41	<5	10	1040	<2	30	0.22	<5
P385048		20	1.66	10	20	2.12	715	3	3.79	<5	10	1090	<2	30	0.19	<5
P385049		20	2.52	10	10	2.42	726	2	3.17	<5	16	930	2	30	0.24	<5
P385050		<10	0.02	<10	<10	12.60	218	2	0.01	<5	<1	160	2	<10	<0.01	<5
P385051		20	2.56	10	10	2.00	820	3	3.21	<5	17	920	7	30	0.38	<5
P385052		20	1.44	<10	30	2.55	793	3	3.39	<5	6	1020	2	20	0.05	<5
P385053		20	1.55	10	20	2.15	773	2	2.95	<5	6	920	<2	40	0.06	<5
P385054		20	1.22	<10	20	2.24	725	2	2.90	<5	8	940	<2	10	0.31	<5
P385055		20	1.13	<10	10	2.24	707	3	3.09	<5	8	1010	<2	10	0.29	<5
P385056		20	2.54	10	10	1.55	630	3	3.19	<5	3	1780	2	20	0.17	<5
P385057		20	2.07	10	10	1.68	645	3	3.67	<5	<1	1970	<2	30	0.22	<5
P385058		20	2.14	10	20	1.99	736	3	3.05	<5	13	1220	4	30	0.11	<5
P385059		20	2.00	10	10	1.77	669	3	3.38	<5	7	1360	2	20	0.48	<5
P385060		20	2.15	10	20	1.07	1495	14	2.11	<5	10	830	38	50	1.81	6
P385061		20	1.71	<10	10	1.75	707	3	3.05	<5	5	890	3	10	0.12	<5
P385062		20	2.30	10	10	2.00	718	3	3.20	<5	12	1270	<2	20	0.43	<5
P385063		20	2.18	10	10	2.07	717	3	3.21	<5	14	1240	<2	20	0.31	<5
P385064		20	2.16	10	10	1.95	680	3	3.32	<5	13	1350	4	30	0.29	<5
P385064_PD		20	2.21	10	10	2.03	705	3	3.46	<5	13	1420	3	30	0.30	<5
P385065		20	1.46	<10	10	1.89	735	3	3.57	<5	3	970	3	20	0.36	<5
P385065_CD		20	1.45	<10	10	1.95	745	3	3.68	<5	5	990	2	10	0.43	<5
P385066		20	1.43	<10	20	1.92	747	3	3.55	<5	4	940	<2	10	0.19	<5
P385067		20	1.63	<10	10	1.71	667	3	3.86	<5	6	940	4	20	0.06	<5
P385068		20	1.71	<10	10	1.79	645	3	3.77	<5	17	1010	6	10	0.05	<5
P385069		20	1.50	<10	20	1.91	635	2	4.17	<5	6	1050	4	10	0.12	<5
P385070		<10	0.06	<10	<10	12.00	222	3	0.01	<5	<1	170	<2	<10	<0.01	<5
P385071		20	1.43	10	20	1.84	692	3	3.59	<5	5	1020	2	10	0.04	<5
P385072		20	1.74	10	20	2.15	735	3	3.48	<5	6	1020	3	20	0.04	<5
P385073		20	2.22	10	20	2.24	737	3	3.53	<5	6	980	<2	30	0.06	<5
P385074		20	1.19	<10	10	2.42	763	3	3.74	<5	3	1080	<2	10	0.09	<5
P385075		20	1.92	<10	20	2.13	726	3	3.29	<5	3	910	<2	20	0.05	<5

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	10	1	10	10	20	0.01	10	10	1	10	10	2	5
P385038		22	<10	<10	704	<10	<10	<20	0.50	<10	<10	227	<10	20	40	22
P385039		28	<10	<10	786	<10	<10	<20	0.61	<10	<10	264	<10	20	44	23
P385040		13	<10	<10	431	<10	<10	<20	0.31	<10	<10	156	<10	10	342	48
P385041		20	10	<10	786	<10	<10	<20	0.38	<10	<10	222	<10	10	32	17
P385042		19	<10	<10	415	<10	<10	<20	0.34	<10	<10	241	<10	20	29	19
P385043		19	<10	<10	609	<10	<10	<20	0.41	<10	<10	208	<10	20	28	22
P385044		16	<10	<10	567	<10	<10	<20	0.40	<10	<10	170	<10	20	20	31
P385045		16	<10	<10	596	<10	<10	<20	0.35	<10	<10	190	<10	10	27	22
P385046		18	<10	<10	600	<10	<10	<20	0.35	<10	<10	190	<10	10	29	19
P385047		18	<10	10	739	<10	<10	<20	0.37	10	<10	202	<10	10	29	19
P385048		18	<10	<10	572	<10	<10	<20	0.38	<10	<10	195	<10	10	30	23
P385049		16	<10	<10	479	<10	<10	<20	0.32	<10	<10	188	<10	10	31	30
P385050		<1	10	<10	48	<10	<10	<20	<0.01	<10	<10	3	<10	<10	15	<5
P385051		13	<10	<10	778	<10	<10	<20	0.33	<10	<10	161	<10	10	31	28
P385052		17	<10	<10	838	<10	<10	<20	0.37	<10	<10	204	<10	10	32	20
P385053		18	<10	10	1190	<10	<10	<20	0.31	<10	<10	171	<10	10	29	19
P385054		16	<10	<10	715	<10	<10	<20	0.35	<10	<10	189	<10	10	28	17
P385055		17	<10	<10	934	<10	<10	<20	0.36	<10	<10	182	<10	10	26	20
P385056		14	<10	<10	604	<10	<10	<20	0.39	<10	<10	176	<10	20	30	26
P385057		15	<10	<10	641	<10	<10	<20	0.43	<10	<10	190	<10	20	36	29
P385058		15	<10	<10	615	<10	<10	<20	0.31	<10	<10	174	<10	10	32	21
P385059		12	<10	<10	847	<10	<10	<20	0.31	<10	<10	154	<10	10	30	19
P385060		16	<10	<10	367	<10	<10	<20	0.32	<10	<10	169	<10	20	182	43
P385061		16	<10	<10	947	<10	<10	<20	0.33	<10	<10	173	<10	10	34	17
P385062		13	<10	<10	811	<10	<10	<20	0.31	<10	<10	161	<10	10	27	18
P385063		14	<10	<10	823	<10	<10	<20	0.31	<10	<10	157	<10	10	26	18
P385064		12	<10	<10	712	<10	<10	<20	0.30	<10	<10	155	<10	10	27	21
P385064_PD		12	<10	<10	740	<10	<10	<20	0.31	<10	<10	163	<10	20	28	22
P385065		16	<10	<10	765	<10	<10	<20	0.32	<10	<10	173	<10	10	30	14
P385065_CD		16	<10	<10	787	<10	<10	<20	0.33	<10	<10	172	<10	10	31	15
P385066		16	<10	<10	727	<10	<10	<20	0.33	<10	<10	174	<10	10	30	16
P385067		17	<10	<10	755	<10	<10	<20	0.34	<10	<10	167	<10	10	29	22
P385068		16	<10	<10	596	<10	<10	<20	0.32	<10	<10	191	<10	10	29	28
P385069		17	<10	<10	664	<10	<10	<20	0.35	<10	<10	187	<10	10	29	23
P385070		<1	<10	<10	48	<10	<10	<20	<0.01	<10	<10	2	<10	<10	16	<5
P385071		16	<10	<10	713	<10	<10	<20	0.33	<10	<10	193	<10	10	30	20
P385072		17	<10	10	783	<10	<10	<20	0.34	<10	<10	210	<10	10	30	21
P385073		17	<10	<10	779	<10	<10	<20	0.34	<10	<10	183	<10	10	32	22
P385074		19	<10	<10	1000	<10	<10	<20	0.38	<10	<10	191	<10	10	30	21
P385075		14	<10	<10	666	<10	<10	<20	0.32	<10	<10	179	<10	10	31	19

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method Analyte Units LOR	Cu-OG62 Cu % 0.001
P385038		
P385039		
P385040		0.192
P385041		
P385042		
P385043		0.094
P385044		
P385045		
P385046		
P385047		
P385048		
P385049		0.149
P385050		
P385051		0.353
P385052		
P385053		
P385054		
P385055		
P385056		0.142
P385057		
P385058		
P385059		
P385060		0.258
P385061		
P385062		0.212
P385063		
P385064		
P385064_PD		
P385065		
P385065_CD		
P385066		
P385067		
P385068		
P385069		
P385070		
P385071		
P385072		
P385073		
P385074		
P385075		

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 . Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method	WEI- 21	Au- ICP21	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	50	1	1	1	0.01
P385076		4.38	0.062	<0.5	7.94	15	590	0.7	<2	5.16	<0.5	<50	19	93	260	5.32
P385077		4.70	0.220	<0.5	8.34	23	810	0.7	<2	5.02	<0.5	<50	18	19	1045	4.79
P385078		4.46	0.130	<0.5	8.11	13	960	0.7	3	4.87	<0.5	<50	16	33	964	5.46
P385079		3.12	0.022	<0.5	7.99	14	1090	1.0	<2	4.66	<0.5	<50	20	121	246	5.36
P385080		0.14	0.294	2.4	6.94	69	2110	0.6	3	3.47	2.5	<50	24	12	1905	6.06
P385081		2.80	0.014	<0.5	7.80	15	1000	1.0	<2	5.01	<0.5	<50	20	105	156	5.18
P385082		4.58	0.013	<0.5	8.06	17	1110	1.0	<2	4.62	<0.5	<50	19	62	162	5.22
P385083		4.66	0.033	<0.5	8.15	24	1030	1.0	3	4.84	<0.5	<50	19	65	251	5.23
P385084		4.80	0.010	<0.5	7.92	19	1090	1.0	2	4.88	<0.5	<50	19	63	156	5.39
P385085		4.72	0.009	<0.5	8.18	13	1080	1.0	2	5.14	<0.5	<50	20	63	79	5.29
P385086		4.80	0.010	<0.5	8.15	17	1050	1.0	<2	5.31	<0.5	<50	20	60	135	5.46
P385087		4.88	0.011	<0.5	8.15	36	1080	1.0	2	4.91	<0.5	<50	19	65	157	5.40
P385088		5.00	0.038	<0.5	8.20	18	990	1.0	2	5.91	<0.5	<50	18	67	209	5.27
P385088_PD		<0.02	0.036	<0.5	7.74	26	950	1.0	<2	5.63	<0.5	<50	18	65	202	5.03
P385089		4.54	0.013	<0.5	7.81	20	1050	1.0	<2	4.77	<0.5	<50	19	61	194	5.22
P385089_CD		<0.02	0.012	<0.5	7.92	19	1080	1.0	<2	4.98	<0.5	<50	21	71	172	5.51
P385090		4.44	<0.001	<0.5	0.06	<5	20	<0.5	<2	20.8	<0.5	<50	<1	<1	1	0.48
P385091		4.38	0.008	<0.5	8.02	16	1070	1.0	<2	4.86	<0.5	<50	20	65	111	5.44
P385092		4.72	0.015	<0.5	7.71	19	970	1.0	3	4.85	<0.5	<50	19	64	191	5.22
P385093		4.44	0.240	<0.5	8.41	25	1050	1.1	3	5.28	<0.5	<50	19	60	625	5.24
P385094		4.62	0.010	<0.5	8.00	19	1160	1.0	<2	4.76	<0.5	<50	19	69	182	5.49
P385095		4.84	0.042	<0.5	7.95	16	1090	0.9	3	4.73	<0.5	<50	19	65	315	5.34
P385096		4.42	0.053	<0.5	7.99	11	900	1.1	<2	5.13	<0.5	<50	18	60	1490	5.01
P385097		4.60	0.020	<0.5	7.86	17	1130	1.0	<2	4.43	<0.5	<50	19	63	202	5.21
P385098		4.62	0.010	<0.5	7.75	22	1060	1.0	<2	4.83	<0.5	<50	20	67	162	5.31
P385099		2.54	0.011	<0.5	7.75	31	1150	1.0	<2	4.41	<0.5	<50	19	65	154	5.25
P385100		0.14	0.713	1.2	7.22	85	1400	0.6	3	3.07	1.1	<50	36	12	2630	8.09
P385101		3.38	0.010	<0.5	8.06	27	1130	1.0	<2	4.43	<0.5	<50	19	63	129	5.30
P385102		4.18	0.013	<0.5	7.93	20	1100	1.0	<2	4.72	<0.5	<50	21	65	108	5.48
P385103		4.34	0.067	<0.5	7.42	11	1080	1.0	<2	4.47	<0.5	<50	15	33	156	4.75
P385104		4.66	0.023	<0.5	7.95	12	1100	1.0	2	4.86	<0.5	<50	17	40	111	5.16
P385105		4.12	0.047	<0.5	8.13	11	1010	1.0	3	4.85	<0.5	<50	17	34	159	5.32
P385106		2.48	0.022	<0.5	7.62	23	1090	1.0	2	5.00	<0.5	<50	18	54	120	5.55
P385107		4.18	0.051	<0.5	7.60	15	950	1.0	2	5.13	<0.5	<50	17	43	205	5.34
P385108		4.82	0.020	<0.5	7.72	25	1060	1.0	2	5.15	<0.5	<50	15	49	121	5.16
P385109		4.62	0.057	<0.5	7.75	16	1240	0.9	2	4.40	<0.5	<50	18	39	351	5.37
P385110		4.02	<0.001	<0.5	0.06	<5	20	<0.5	<2	21.8	<0.5	<50	<1	<1	2	0.51
P385111		4.98	0.115	<0.5	7.48	16	1090	0.9	<2	4.86	<0.5	<50	16	61	358	5.02
P385112		4.48	0.044	<0.5	7.86	15	1120	0.9	<2	5.76	<0.5	<50	16	72	299	5.17
P385113		4.36	0.049	<0.5	7.55	27	1240	1.0	2	4.54	<0.5	<50	14	46	147	4.59

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Ga	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.01	10	10	0.01	5	1	0.01	5	1	10	2	10	0.01	5
P385076		20	1.27	10	20	3.07	887	3	3.17	<5	54	1620	5	20	0.03	<5
P385077		20	1.70	10	20	2.13	763	3	3.41	<5	9	1020	3	20	0.11	<5
P385078		20	2.19	<10	10	1.92	814	3	3.34	<5	21	1220	2	30	0.13	<5
P385079		20	2.78	10	10	2.86	1060	4	3.03	<5	73	1880	3	40	0.03	<5
P385080		20	2.21	10	20	0.90	1250	31	2.35	<5	8	830	65	40	1.49	<5
P385081		20	2.57	10	10	2.76	1090	3	2.82	<5	70	1880	2	50	0.02	<5
P385082		20	2.54	10	10	2.28	1180	3	3.09	<5	40	2060	5	30	0.02	<5
P385083		20	2.43	10	10	2.36	1105	4	3.22	<5	43	2090	3	50	0.03	<5
P385084		20	2.61	10	20	2.36	1270	4	3.09	<5	43	2160	8	20	0.02	<5
P385085		20	2.54	10	10	2.29	1105	3	3.18	<5	42	2170	2	50	0.01	<5
P385086		20	2.52	10	10	2.21	1275	3	3.16	<5	41	2150	5	30	0.02	<5
P385087		20	2.48	10	10	2.34	1235	3	3.12	<5	42	2160	4	30	0.02	<5
P385088		20	2.57	10	10	2.38	1145	5	3.27	<5	43	2140	6	30	0.02	<5
P385088_PD		20	2.47	10	10	2.24	1090	3	3.18	<5	44	2020	2	30	0.03	<5
P385089		20	2.53	10	10	2.26	1220	4	3.08	<5	41	2130	2	30	0.02	<5
P385089_CD		20	2.59	10	10	2.39	1285	4	3.16	<5	45	2200	7	30	0.02	<5
P385090		<10	0.02	<10	<10	12.35	236	2	0.01	<5	<1	220	<2	<10	<0.01	<5
P385091		20	2.53	10	10	2.40	1250	4	3.11	<5	44	2180	6	30	0.01	<5
P385092		20	2.60	10	10	2.38	1150	4	3.22	<5	42	2130	2	30	0.02	<5
P385093		20	2.48	10	10	2.48	1130	4	3.02	<5	40	2160	9	60	0.06	<5
P385094		20	2.62	10	10	2.47	1275	4	3.25	<5	43	2190	11	30	0.02	<5
P385095		20	2.58	10	20	2.53	1145	4	3.20	<5	43	2200	4	40	0.04	<5
P385096		20	2.57	10	20	2.19	997	4	3.18	<5	39	2010	3	40	0.15	<5
P385097		20	2.81	10	10	2.29	1180	4	3.04	<5	41	2070	4	30	0.02	<5
P385098		20	2.53	10	10	2.31	1225	3	3.09	<5	43	2130	4	30	0.02	<5
P385099		20	2.70	10	10	2.34	1225	3	3.03	<5	42	2100	3	30	0.02	<5
P385100		20	2.19	10	20	1.10	1495	13	2.15	<5	9	850	34	50	1.88	5
P385101		20	2.55	10	20	2.43	1260	4	3.10	<5	39	2110	6	30	0.01	<5
P385102		20	2.52	10	20	2.47	1120	3	3.24	<5	44	2250	2	30	0.02	<5
P385103		20	2.56	10	20	2.04	889	2	3.20	<5	22	1910	5	30	0.02	<5
P385104		20	2.59	10	20	1.96	992	3	3.18	<5	26	1950	6	30	0.02	<5
P385105		20	2.53	10	10	2.07	918	3	3.45	<5	21	2050	4	40	0.02	<5
P385106		20	2.86	10	20	2.28	987	3	3.12	<5	31	2000	3	40	0.02	<5
P385107		20	2.42	10	20	2.09	918	3	2.99	<5	26	1930	5	30	0.03	<5
P385108		20	2.36	10	20	2.15	929	2	3.19	<5	28	2010	2	30	0.02	<5
P385109		20	2.69	10	20	2.11	833	3	3.07	<5	26	2060	<2	40	0.04	<5
P385110		<10	0.02	<10	<10	12.95	230	4	0.01	<5	<1	180	<2	<10	0.01	<5
P385111		20	2.72	10	10	2.16	877	3	3.02	<5	35	1870	3	30	0.04	<5
P385112		20	2.31	10	10	2.15	1115	2	3.13	<5	29	1790	3	30	0.11	<5
P385113		20	2.88	10	10	1.89	846	3	3.04	<5	26	1820	5	50	0.02	<5

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	10	1	10	10	20	0.01	10	10	1	10	10	2	5
P385076		17	<10	<10	522	<10	<10	<20	0.43	<10	<10	218	<10	20	36	15
P385077		17	<10	10	1050	<10	<10	<20	0.35	<10	<10	192	<10	10	28	17
P385078		17	<10	<10	1060	<10	<10	<20	0.40	<10	<10	213	<10	10	33	18
P385079		17	<10	<10	801	<10	<10	<20	0.46	<10	<10	235	<10	20	42	23
P385080		12	10	<10	408	<10	<10	<20	0.30	<10	<10	152	<10	10	338	46
P385081		17	<10	<10	656	<10	<10	<20	0.43	<10	<10	219	<10	20	44	19
P385082		15	<10	<10	1015	<10	<10	<20	0.44	<10	<10	228	<10	20	75	19
P385083		16	<10	<10	820	<10	<10	<20	0.44	<10	<10	228	<10	20	69	21
P385084		15	<10	<10	1095	<10	<10	<20	0.46	<10	<10	238	<10	20	85	24
P385085		16	<10	<10	938	<10	<10	<20	0.46	<10	<10	230	<10	20	50	17
P385086		15	<10	<10	932	<10	<10	<20	0.47	<10	<10	241	<10	20	79	17
P385087		16	<10	<10	1060	<10	<10	<20	0.46	<10	<10	236	<10	20	83	21
P385088		15	<10	<10	808	<10	<10	<20	0.47	<10	<10	242	<10	20	57	19
P385088_PD		14	<10	<10	771	<10	<10	<20	0.44	<10	<10	231	<10	20	54	17
P385089		15	<10	<10	960	<10	<10	<20	0.45	<10	<10	233	<10	20	82	17
P385089_CD		15	<10	<10	984	<10	<10	<20	0.47	<10	<10	244	<10	20	87	18
P385090		<1	<10	<10	50	<10	<10	<20	<0.01	<10	<10	2	<10	<10	16	<5
P385091		15	<10	<10	995	<10	<10	<20	0.46	<10	<10	238	<10	20	85	17
P385092		15	<10	<10	720	<10	<10	<20	0.44	<10	<10	238	<10	20	80	19
P385093		17	<10	<10	763	<10	<10	<20	0.44	<10	<10	235	<10	20	81	18
P385094		15	<10	<10	1215	<10	<10	<20	0.47	<10	<10	243	<10	20	88	18
P385095		16	<10	<10	966	<10	<10	<20	0.45	<10	<10	239	<10	20	59	17
P385096		15	<10	<10	558	<10	<10	<20	0.43	<10	<10	226	<10	20	49	19
P385097		15	<10	<10	1065	<10	<10	<20	0.44	<10	<10	234	<10	20	77	18
P385098		15	<10	<10	1005	<10	<10	<20	0.45	<10	<10	235	<10	20	76	16
P385099		15	<10	<10	1080	<10	<10	<20	0.45	<10	<10	229	<10	20	78	17
P385100		16	<10	<10	374	<10	<10	<20	0.32	<10	<10	169	<10	20	183	47
P385101		16	<10	<10	1250	<10	<10	<20	0.46	<10	<10	233	<10	20	79	18
P385102		15	<10	<10	942	<10	<10	<20	0.45	<10	<10	233	<10	20	47	14
P385103		13	<10	<10	744	<10	<10	<20	0.43	<10	<10	233	<10	20	33	15
P385104		15	<10	<10	703	<10	<10	<20	0.42	<10	<10	217	<10	20	39	14
P385105		16	<10	<10	624	<10	<10	<20	0.45	<10	<10	233	10	20	33	18
P385106		17	<10	<10	681	<10	<10	<20	0.47	<10	<10	248	<10	20	36	21
P385107		17	<10	<10	589	<10	<10	<20	0.46	<10	<10	247	<10	20	35	21
P385108		17	<10	10	898	<10	<10	<20	0.47	<10	<10	259	<10	20	41	25
P385109		16	<10	<10	801	<10	<10	<20	0.43	<10	<10	240	<10	20	37	24
P385110		<1	<10	<10	53	<10	<10	<20	<0.01	<10	<10	2	<10	<10	17	<5
P385111		15	<10	<10	518	<10	<10	<20	0.43	<10	<10	236	<10	20	40	24
P385112		16	<10	<10	721	<10	<10	<20	0.42	<10	<10	217	<10	20	45	35
P385113		14	<10	<10	697	<10	<10	<20	0.41	<10	<10	224	<10	20	41	26

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method Analyte Units LOR	Cu- OG62 Cu % 0.001
P385076		
P385077		0.098
P385078		
P385079		
P385080		0.189
P385081		
P385082		
P385083		
P385084		
P385085		
P385086		
P385087		
P385088		
P385088_PD		
P385089		
P385089_CD		
P385090		
P385091		
P385092		
P385093		
P385094		
P385095		
P385096		0.146
P385097		
P385098		
P385099		
P385100		0.259
P385101		
P385102		
P385103		
P385104		
P385105		
P385106		
P385107		
P385108		
P385109		
P385110		
P385111		
P385112		
P385113		

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP61 Ag ppm 0.5	ME- ICP61 Al % 0.01	ME- ICP61 As ppm 5	ME- ICP61 Ba ppm 10	ME- ICP61 Be ppm 0.5	ME- ICP61 Bi ppm 2	ME- ICP61 Ca % 0.01	ME- ICP61 Cd ppm 0.5	ME- ICP61 Ce ppm 50	ME- ICP61 Co ppm 1	ME- ICP61 Cr ppm 1	ME- ICP61 Cu ppm 1	ME- ICP61 Fe % 0.01
P385114		4.82	0.021	<0.5	7.70	12	1350	1.0	2	4.30	<0.5	<50	14	36	174	4.60
P385114_PD		<0.02	0.035	<0.5	7.68	17	1380	1.0	<2	4.55	<0.5	<50	14	37	183	4.70
P385115		3.98	0.074	<0.5	7.81	23	1010	1.0	<2	4.76	<0.5	<50	16	33	386	4.36
P385115_CD		<0.02	0.121	<0.5	8.26	17	1030	1.1	2	5.07	<0.5	<50	17	36	415	4.67
P385116		2.98	0.086	<0.5	8.16	15	1550	1.0	<2	3.80	<0.5	<50	11	13	192	4.15
P385117		4.66	0.110	<0.5	8.31	13	1470	0.9	<2	3.03	<0.5	<50	11	5	491	4.01
P385118		3.88	0.142	<0.5	8.68	14	1570	0.9	<2	3.08	<0.5	<50	10	6	572	4.02
P385119		4.38	0.122	<0.5	8.44	9	1490	0.8	2	2.58	<0.5	<50	8	5	458	3.05
P385120		0.14	0.284	2.2	7.18	76	2090	0.7	3	3.53	2.5	<50	25	12	1945	6.26
P385121		4.80	0.111	<0.5	8.40	5	1620	0.8	4	2.53	<0.5	<50	9	4	260	3.78
P385122		4.48	0.045	<0.5	7.75	6	1480	0.7	2	2.75	<0.5	<50	8	4	409	3.55
P385123		4.08	0.052	<0.5	8.09	<5	1540	0.9	<2	3.10	<0.5	<50	9	16	474	3.49
P385124		4.30	0.031	<0.5	8.70	8	1720	1.0	<2	2.72	<0.5	<50	5	2	138	2.82
P385125		3.32	0.050	<0.5	8.06	11	1560	1.0	<2	3.25	<0.5	<50	5	4	139	2.44
P385126		3.12	1.915	4.4	7.54	817	990	1.0	<2	5.54	0.5	<50	24	44	>10000	5.59
P385127		2.34	0.013	<0.5	7.82	9	1080	1.0	<2	5.39	<0.5	<50	21	89	200	5.49
P385128		2.90	0.074	<0.5	7.85	18	1150	0.9	2	5.11	<0.5	<50	15	30	432	5.03
P385129		3.66	0.040	<0.5	7.46	19	1510	0.8	3	4.26	<0.5	<50	8	7	244	3.44
P385130		3.34	0.001	<0.5	0.11	<5	40	<0.5	<2	21.5	<0.5	<50	<1	<1	3	0.50
P385131		3.22	0.086	<0.5	7.62	33	1620	0.9	2	5.01	<0.5	<50	10	11	610	3.64
P385132		3.24	0.053	<0.5	7.95	25	1120	0.9	<2	6.48	<0.5	<50	14	38	287	4.88
P385133		4.00	0.062	<0.5	6.86	58	930	0.8	<2	6.18	<0.5	<50	13	38	392	3.93
P385134		4.44	0.012	<0.5	7.94	13	1240	1.0	<2	6.30	<0.5	<50	18	36	79	5.64
P385135		4.68	0.005	<0.5	7.20	14	1390	0.9	<2	6.15	<0.5	<50	16	30	66	4.86
P385136		2.18	0.051	<0.5	7.06	19	810	0.6	2	7.23	<0.5	<50	13	44	156	4.45
P385137		4.88	0.037	<0.5	7.44	23	850	0.6	<2	5.53	<0.5	<50	14	43	184	4.75
P385138		4.34	0.034	<0.5	7.60	18	960	0.6	<2	7.89	<0.5	<50	13	34	204	4.81
P385139		4.60	0.018	<0.5	7.88	25	1150	0.8	4	5.82	<0.5	<50	19	48	179	5.03
P385139_PD		<0.02	0.019	<0.5	7.76	23	1120	0.8	<2	5.64	<0.5	<50	18	47	174	4.90
P385140		0.14	0.693	1.5	7.14	91	1560	0.6	<2	3.05	1.2	<50	36	13	2680	8.03
P385141		4.46	0.096	<0.5	7.18	70	910	0.6	<2	7.50	<0.5	<50	13	38	569	4.11
P385141_CD		<0.02	0.082	<0.5	6.67	65	970	0.6	<2	7.98	<0.5	<50	13	40	453	4.19
P385142		4.70	0.026	<0.5	7.09	21	760	0.6	<2	7.26	<0.5	<50	15	42	177	4.76
P385143		4.48	0.013	<0.5	7.52	29	810	0.5	<2	9.39	<0.5	<50	15	33	141	5.08
P385144		4.66	0.129	<0.5	5.89	57	470	0.8	<2	11.65	<0.5	<50	25	570	506	4.68
P385145		4.58	0.040	<0.5	5.51	47	540	0.7	<2	13.20	<0.5	<50	25	372	231	4.53
P385146		4.38	0.058	<0.5	6.18	39	390	0.8	<2	12.30	<0.5	<50	23	372	252	4.54
P385147		4.50	0.045	<0.5	6.94	30	830	0.7	<2	8.09	<0.5	<50	22	193	135	4.82
P385148		4.68	0.068	<0.5	6.88	17	890	0.9	<2	7.53	<0.5	<50	28	255	623	6.68
P385149		3.14	0.065	<0.5	7.63	30	1200	0.8	2	5.51	<0.5	<50	15	43	384	4.65

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Ga	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.01	10	10	0.01	5	1	0.01	5	1	10	2	10	0.01	5
P385114		20	3.22	10	10	1.81	803	3	3.17	<5	22	1880	5	40	0.02	<5
P385114_PD		20	3.39	10	10	1.81	851	3	3.29	<5	23	1930	3	30	0.02	<5
P385115		20	2.40	10	10	1.92	824	3	3.67	<5	17	1980	2	30	0.05	<5
P385115_CD		20	2.40	10	10	2.11	885	2	3.94	<5	17	2100	5	40	0.06	<5
P385116		20	4.49	10	10	1.35	674	4	3.38	<5	11	1730	4	50	0.03	<5
P385117		20	4.74	10	10	1.08	555	3	3.49	<5	11	1530	3	50	0.06	<5
P385118		20	5.05	10	10	1.11	563	2	3.57	<5	10	1590	3	70	0.07	<5
P385119		20	5.48	10	10	0.90	498	3	3.45	<5	7	1200	<2	70	0.06	<5
P385120		20	2.25	10	20	0.93	1270	33	2.43	<5	9	860	71	40	1.54	<5
P385121		20	5.59	10	10	0.99	548	3	3.40	<5	10	1430	2	70	0.03	<5
P385122		20	4.98	10	<10	0.90	570	3	3.20	<5	8	1340	<2	60	0.05	<5
P385123		20	4.72	10	<10	1.11	619	3	3.55	<5	6	1310	6	60	0.06	<5
P385124		20	4.65	10	<10	0.71	423	3	4.21	<5	<1	980	5	60	0.02	<5
P385125		20	5.09	10	<10	0.66	438	3	3.46	<5	1	990	6	60	0.03	<5
P385126		20	3.17	10	10	1.78	1005	3	2.51	<5	30	1790	5	60	1.01	6
P385127		20	2.99	10	20	2.38	1070	3	2.86	<5	56	1890	<2	60	0.03	<5
P385128		20	3.13	10	10	1.55	812	3	2.84	<5	21	1890	4	60	0.06	<5
P385129		20	4.09	10	10	0.65	517	2	2.85	<5	4	1190	2	60	0.05	<5
P385130		<10	0.06	<10	<10	13.05	228	3	0.02	<5	<1	210	2	<10	<0.01	<5
P385131		20	4.29	10	10	0.77	576	2	2.54	<5	10	1780	<2	50	0.09	<5
P385132		20	2.45	10	10	1.04	815	3	2.53	<5	26	1920	6	60	0.05	<5
P385133		20	2.73	10	10	0.49	694	3	2.51	<5	21	1670	<2	40	0.05	<5
P385134		20	2.70	10	10	1.15	918	3	2.74	<5	26	1920	2	60	0.03	<5
P385135		20	2.60	10	10	1.06	802	3	2.62	<5	21	1700	6	50	0.03	<5
P385136		20	1.54	10	10	0.55	837	3	2.38	<5	21	1960	4	30	0.03	<5
P385137		20	1.69	10	10	1.17	795	3	2.37	<5	21	1930	3	30	0.03	<5
P385138		20	1.51	10	10	1.77	1100	3	1.96	<5	20	1880	4	40	0.03	<5
P385139		20	2.07	10	10	0.87	836	3	2.43	<5	33	2090	7	40	0.04	<5
P385139_PD		20	1.99	10	10	0.86	805	3	2.36	<5	31	2040	6	40	0.04	<5
P385140		20	2.18	<10	20	1.10	1510	12	2.13	<5	11	870	37	60	1.84	10
P385141		20	1.57	10	10	0.63	954	1	2.00	<5	23	2020	4	40	0.06	<5
P385141_CD		20	1.58	10	10	0.58	1015	2	1.99	<5	22	2060	6	40	0.05	9
P385142		20	1.47	10	20	0.76	911	1	1.47	<5	22	2030	3	40	0.03	<5
P385143		20	1.38	10	20	0.90	1050	2	1.37	<5	22	1910	4	60	0.04	<5
P385144		20	1.31	<10	20	1.08	1055	1	0.76	<5	186	1190	<2	60	0.07	6
P385145		10	1.46	10	20	1.50	1190	1	0.66	<5	169	1250	4	60	0.05	7
P385146		10	1.75	10	20	1.11	1095	1	0.78	<5	166	1400	4	70	0.05	<5
P385147		20	1.68	10	10	1.66	822	1	1.84	<5	136	1690	4	60	0.03	5
P385148		20	2.79	10	20	2.41	1030	3	1.82	<5	181	1670	<2	100	0.23	<5
P385149		20	3.07	10	10	1.12	677	3	2.59	<5	32	2050	<2	70	0.06	<5

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	10	1	10	10	20	0.01	10	10	1	10	10	2	5
P385114		13	<10	<10	647	<10	<10	<20	0.39	<10	<10	222	<10	20	39	26
P385114_PD		12	<10	<10	668	<10	<10	<20	0.42	<10	<10	236	<10	10	41	27
P385115		14	<10	<10	657	<10	<10	<20	0.39	<10	<10	237	<10	20	40	30
P385115_CD		15	<10	<10	704	<10	<10	<20	0.41	<10	<10	249	<10	20	42	29
P385116		9	<10	<10	741	<10	<10	<20	0.35	<10	<10	236	<10	10	35	28
P385117		7	<10	<10	688	<10	<10	<20	0.32	<10	<10	237	<10	10	30	28
P385118		8	<10	<10	699	<10	<10	<20	0.33	<10	<10	234	<10	10	31	27
P385119		7	<10	<10	559	<10	<10	<20	0.29	<10	<10	195	<10	20	26	28
P385120		13	<10	<10	426	<10	<10	<20	0.31	<10	<10	156	<10	10	336	48
P385121		8	<10	<10	622	<10	<10	<20	0.31	<10	<10	254	<10	10	29	28
P385122		7	<10	<10	578	<10	<10	<20	0.29	<10	<10	239	<10	10	29	22
P385123		8	<10	<10	605	<10	<10	<20	0.30	<10	<10	230	<10	10	27	30
P385124		5	<10	<10	753	<10	<10	<20	0.28	<10	<10	179	10	10	16	30
P385125		5	<10	10	594	<10	<10	<20	0.28	<10	<10	175	<10	10	19	32
P385126		16	10	<10	714	<10	<10	<20	0.41	<10	<10	251	<10	20	70	25
P385127		18	<10	<10	659	<10	<10	<20	0.43	<10	<10	244	<10	20	48	23
P385128		14	<10	<10	705	<10	<10	<20	0.42	<10	<10	235	<10	20	38	23
P385129		7	<10	<10	504	<10	<10	<20	0.35	<10	<10	196	<10	10	23	34
P385130		<1	<10	10	51	<10	<10	<20	0.01	<10	<10	3	<10	<10	17	<5
P385131		8	<10	<10	497	<10	<10	<20	0.37	<10	<10	201	<10	20	29	30
P385132		17	<10	<10	501	<10	<10	<20	0.43	<10	<10	246	<10	20	39	25
P385133		13	<10	<10	444	<10	<10	<20	0.40	<10	<10	238	<10	10	36	30
P385134		18	<10	<10	636	<10	<10	<20	0.45	<10	<10	240	<10	20	45	24
P385135		15	<10	<10	579	<10	<10	<20	0.40	<10	<10	222	<10	20	42	24
P385136		14	<10	<10	411	<10	<10	<20	0.44	<10	<10	242	<10	10	36	25
P385137		16	<10	<10	379	<10	<10	<20	0.44	<10	<10	227	<10	10	37	20
P385138		17	<10	<10	363	<10	<10	<20	0.43	<10	<10	224	<10	20	45	15
P385139		17	<10	<10	549	<10	<10	<20	0.47	<10	<10	248	<10	20	69	16
P385139_PD		17	<10	<10	536	<10	<10	<20	0.46	<10	<10	241	<10	20	67	17
P385140		16	<10	<10	379	<10	10	<20	0.33	<10	<10	176	<10	20	196	46
P385141		16	<10	<10	362	<10	<10	<20	0.43	<10	<10	239	<10	20	47	16
P385141_CD		15	<10	<10	367	<10	<10	<20	0.44	<10	<10	246	<10	20	46	16
P385142		16	<10	<10	264	<10	<10	<20	0.45	<10	<10	243	<10	20	52	15
P385143		17	<10	<10	253	<10	<10	<20	0.42	<10	<10	226	<10	20	53	15
P385144		21	<10	<10	274	<10	<10	<20	0.31	<10	<10	196	<10	10	59	23
P385145		23	<10	<10	277	<10	<10	<20	0.31	<10	<10	224	<10	10	56	23
P385146		25	<10	<10	299	<10	<10	<20	0.35	<10	<10	241	<10	10	52	26
P385147		18	<10	<10	412	<10	<10	<20	0.36	<10	<10	212	<10	20	42	22
P385148		18	<10	<10	566	<10	<10	<20	0.36	<10	<10	235	<10	10	63	29
P385149		15	<10	<10	520	<10	<10	<20	0.42	<10	<10	253	<10	10	39	25

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method Analyte Units LOR	Cu- OG62 Cu % 0.001
P385114		
P385114_PD		
P385115		
P385115_CD		
P385116		
P385117		
P385118		
P385119		
P385120		0.190
P385121		
P385122		
P385123		
P385124		
P385125		
P385126		1.040
P385127		
P385128		
P385129		
P385130		
P385131		
P385132		
P385133		
P385134		
P385135		
P385136		
P385137		
P385138		
P385139		
P385139_PD		
P385140		0.277
P385141		
P385141_CD		
P385142		
P385143		
P385144		
P385145		
P385146		
P385147		
P385148		
P385149		

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP61 Ag ppm 0.5	ME- ICP61 Al % 0.01	ME- ICP61 As ppm 5	ME- ICP61 Ba ppm 10	ME- ICP61 Be ppm 0.5	ME- ICP61 Bi ppm 2	ME- ICP61 Ca % 0.01	ME- ICP61 Cd ppm 0.5	ME- ICP61 Ce ppm 50	ME- ICP61 Co ppm 1	ME- ICP61 Cr ppm 1	ME- ICP61 Cu ppm 1	ME- ICP61 Fe % 0.01
P385150		4.08	0.005	<0.5	0.10	<5	60	<0.5	<2	20.3	<0.5	<50	1	<1	2	0.51
P385151		3.52	0.016	<0.5	6.30	35	540	0.5	<2	10.50	<0.5	<50	12	34	81	4.09
P385152		4.60	0.020	<0.5	7.39	31	620	0.6	<2	8.62	<0.5	<50	13	26	180	4.31
P385153		4.88	0.020	<0.5	7.23	28	580	0.5	<2	7.79	<0.5	<50	13	46	170	4.09
P385154		5.06	0.041	<0.5	5.47	32	940	<0.5	<2	12.20	<0.5	<50	13	10	155	4.00
P385155		4.98	0.031	<0.5	3.45	28	1130	<0.5	<2	15.9	<0.5	<50	18	13	90	4.90
P385156		4.82	0.008	<0.5	6.40	22	480	0.5	<2	9.42	<0.5	<50	9	63	54	3.50
P385157		4.88	0.069	<0.5	4.49	36	440	<0.5	<2	14.5	<0.5	<50	16	64	83	4.38
P385158		5.00	0.006	<0.5	6.27	28	330	<0.5	<2	9.73	<0.5	<50	15	54	27	5.16
P385159		3.24	0.014	<0.5	4.96	20	360	<0.5	<2	13.40	<0.5	<50	14	14	85	4.40
P385160		0.14	0.294	2.3	7.21	74	1930	0.7	2	3.57	2.3	<50	23	13	1860	6.34
P385161		4.00	0.017	<0.5	7.80	20	470	<0.5	<2	5.15	<0.5	<50	8	12	44	3.77
P385162		4.76	0.009	<0.5	7.74	26	570	0.5	<2	4.27	<0.5	<50	11	13	40	4.70
P385163		4.94	0.004	<0.5	7.75	17	520	0.6	<2	4.24	<0.5	<50	11	9	25	4.10
P385164		4.94	0.007	<0.5	7.78	16	630	0.7	<2	4.91	<0.5	<50	12	10	45	4.67
P385164_PD		<0.02	0.008	<0.5	8.20	13	660	0.7	<2	5.01	<0.5	<50	13	10	41	4.81
P385165		4.96	0.014	<0.5	7.10	16	500	<0.5	<2	6.23	<0.5	<50	11	8	50	4.21
P385165_CD		<0.02	0.019	<0.5	7.32	18	470	<0.5	<2	6.00	<0.5	<50	11	9	46	4.17
P385166		4.96	0.005	<0.5	7.27	13	980	<0.5	<2	6.36	<0.5	<50	10	9	14	4.09
P385167		4.54	0.004	<0.5	6.89	20	630	<0.5	<2	6.61	<0.5	<50	11	7	29	3.85
P385168		1.38	0.008	<0.5	6.99	22	430	0.7	<2	6.26	<0.5	<50	9	7	39	3.58
P385169		3.48	0.007	<0.5	7.54	15	330	0.5	<2	5.02	<0.5	<50	8	8	34	3.53
P385170		2.36	<0.001	<0.5	0.09	<5	140	<0.5	<2	19.8	<0.5	<50	2	<1	<1	0.50
P385171		2.54	0.006	<0.5	7.40	20	440	<0.5	<2	4.85	<0.5	<50	10	12	39	3.56
P385172		3.06	0.010	<0.5	7.19	27	500	0.5	<2	7.64	<0.5	<50	13	8	82	4.16
P385173		3.82	0.009	<0.5	7.84	14	610	0.7	<2	5.63	<0.5	<50	12	11	37	4.45
P385174		3.84	0.009	<0.5	8.08	16	670	0.7	<2	5.48	<0.5	<50	13	13	27	4.56
P385175		4.62	0.008	<0.5	8.70	17	810	0.7	<2	5.24	<0.5	<50	13	11	54	4.72
P385176		5.06	0.006	<0.5	8.42	19	1040	0.6	<2	5.63	<0.5	<50	13	9	60	4.47
P385177		4.84	0.015	<0.5	8.15	18	900	0.6	<2	4.41	<0.5	<50	13	10	106	4.62
P385178		4.94	0.039	<0.5	8.48	15	950	0.6	<2	4.12	<0.5	<50	13	12	166	4.67
P385179		4.28	0.023	<0.5	8.06	17	940	0.7	<2	5.12	<0.5	<50	12	11	180	4.48
P385180		0.14	0.702	1.4	6.78	85	1470	0.6	<2	2.89	1.0	<50	34	12	2520	7.60
P385181		5.32	0.009	<0.5	7.86	14	850	0.7	<2	5.03	<0.5	<50	11	11	98	4.22
P385182		4.26	0.010	<0.5	8.44	15	780	0.7	<2	4.22	<0.5	<50	12	9	139	4.55
P385183		4.82	0.015	<0.5	8.12	20	770	0.6	<2	4.20	<0.5	<50	13	12	148	4.64
P385184		4.08	0.014	<0.5	8.92	23	590	0.6	<2	4.74	<0.5	<50	15	11	69	5.36
P385185		4.72	0.003	<0.5	8.31	17	850	0.6	<2	4.18	<0.5	<50	12	8	25	4.30
P385186		4.64	0.094	<0.5	8.11	14	600	0.6	<2	4.19	<0.5	<50	12	9	31	4.43
P385187		4.10	0.005	<0.5	8.20	13	600	0.6	<2	4.78	<0.5	<50	12	8	25	4.81

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Ga	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.01	10	10	0.01	5	1	0.01	5	1	10	2	10	0.01	5
P385150		<10	0.04	<10	<10	12.85	221	1	0.02	<5	<1	200	<2	10	0.01	<5
P385151		10	1.10	10	10	1.16	1010	2	1.33	<5	21	1560	4	40	0.03	<5
P385152		20	1.37	10	20	0.74	924	3	1.07	<5	17	1960	3	50	0.04	<5
P385153		20	1.38	10	20	0.92	853	3	1.54	<5	19	1860	2	40	0.04	<5
P385154		10	1.38	10	10	1.79	1245	2	1.26	<5	13	1190	4	40	0.04	<5
P385155		10	0.52	10	10	2.89	1830	1	0.56	<5	20	770	4	30	0.05	<5
P385156		10	1.24	<10	10	1.06	1005	2	2.31	<5	20	830	<2	40	0.02	<5
P385157		10	0.58	<10	10	1.96	1480	2	0.83	<5	22	610	<2	30	0.05	<5
P385158		10	0.88	<10	20	1.46	1005	2	1.31	<5	14	770	4	30	0.02	6
P385159		10	0.66	<10	10	2.72	1440	1	1.33	<5	13	620	4	20	0.02	<5
P385160		20	2.19	10	20	0.96	1215	30	2.38	<5	10	850	64	50	1.50	<5
P385161		20	1.19	<10	10	0.70	599	1	2.99	<5	8	1100	2	30	0.03	<5
P385162		20	1.25	<10	20	1.15	620	<1	2.13	<5	7	1080	<2	20	0.02	<5
P385163		20	1.23	<10	20	0.85	618	1	2.50	<5	4	960	2	30	0.02	<5
P385164		20	1.12	<10	20	1.03	720	1	2.29	<5	4	960	<2	20	0.02	<5
P385164_PD		20	1.16	<10	20	1.06	733	1	2.35	<5	4	1010	5	30	0.02	<5
P385165		20	0.94	<10	20	1.71	820	1	2.28	<5	7	810	2	30	0.02	<5
P385165_CD		20	0.97	<10	10	1.57	794	1	2.48	<5	9	830	2	30	0.02	<5
P385166		20	0.97	<10	10	1.56	855	2	2.79	<5	8	930	3	20	0.03	<5
P385167		20	0.94	<10	20	1.81	849	2	1.42	<5	9	800	5	30	0.02	<5
P385168		20	1.22	<10	20	0.92	723	1	0.75	<5	10	840	<2	30	0.02	<5
P385169		20	0.94	<10	20	1.09	656	1	1.76	<5	7	900	4	20	0.02	<5
P385170		<10	0.02	<10	<10	12.50	224	1	0.01	<5	<1	180	3	20	0.01	<5
P385171		20	1.12	<10	10	1.09	658	<1	3.00	<5	6	960	<2	30	0.02	<5
P385172		20	0.96	<10	10	1.69	918	1	2.66	<5	7	870	<2	40	0.03	<5
P385173		20	1.60	<10	10	0.46	614	1	3.62	<5	5	1080	4	30	0.02	<5
P385174		20	1.67	<10	10	0.48	597	1	3.57	<5	5	1080	3	40	0.02	<5
P385175		20	1.76	<10	10	1.40	809	1	3.99	<5	4	1070	2	30	0.02	<5
P385176		20	2.30	<10	10	1.61	945	1	3.44	<5	3	990	6	40	0.01	<5
P385177		20	1.51	<10	10	1.25	739	1	4.04	<5	3	980	2	30	0.04	<5
P385178		20	1.87	<10	10	1.28	743	1	4.32	<5	4	1030	5	40	0.04	<5
P385179		20	1.81	<10	10	1.10	799	1	3.79	<5	5	1010	<2	40	0.06	<5
P385180		20	2.04	<10	20	1.03	1425	12	2.00	<5	10	830	31	60	1.73	11
P385181		20	1.68	<10	10	1.12	718	1	3.79	<5	2	960	<2	40	0.05	<5
P385182		20	1.59	<10	10	1.57	714	1	4.20	<5	3	1030	2	40	0.04	<5
P385183		20	1.68	<10	10	1.74	742	1	4.08	<5	3	980	4	40	0.06	<5
P385184		20	1.26	<10	10	2.10	971	1	3.40	<5	4	1020	<2	30	0.06	<5
P385185		20	1.88	<10	10	1.80	759	1	3.85	<5	3	960	3	40	0.01	<5
P385186		20	1.50	<10	10	1.53	695	<1	4.18	<5	3	950	2	30	0.02	<5
P385187		20	1.80	<10	10	1.53	721	2	3.43	<5	3	930	5	50	0.01	<5

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	10	1	10	10	20	0.01	10	10	1	10	10	2	5
P385150		<1	<10	<10	53	<10	<10	<20	0.01	<10	<10	3	<10	<10	16	<5
P385151		14	<10	<10	281	<10	<10	<20	0.34	<10	<10	190	<10	20	37	15
P385152		18	<10	<10	218	<10	<10	<20	0.43	<10	<10	242	<10	20	40	21
P385153		17	<10	<10	304	<10	<10	<20	0.40	<10	<10	217	<10	20	35	19
P385154		8	<10	<10	273	<10	<10	<20	0.25	<10	<10	135	<10	10	43	18
P385155		8	<10	<10	270	<10	<10	<20	0.17	<10	10	153	<10	20	64	9
P385156		13	<10	<10	378	<10	<10	<20	0.24	<10	<10	128	<10	10	30	16
P385157		11	<10	<10	222	<10	<10	<20	0.18	<10	<10	123	<10	10	55	12
P385158		13	<10	<10	198	<10	<10	<20	0.26	<10	<10	129	<10	10	42	16
P385159		10	<10	<10	228	<10	10	<20	0.19	<10	<10	119	<10	20	44	12
P385160		13	<10	<10	408	<10	<10	<20	0.31	<10	<10	155	<10	10	326	48
P385161		13	<10	<10	306	<10	<10	<20	0.39	<10	<10	164	<10	10	21	23
P385162		13	<10	<10	247	<10	<10	<20	0.38	<10	<10	167	<10	10	28	19
P385163		11	<10	<10	384	<10	<10	<20	0.30	<10	<10	121	<10	10	28	11
P385164		12	<10	<10	482	<10	<10	<20	0.33	<10	<10	139	<10	10	34	14
P385164_PD		13	<10	<10	500	<10	<10	<20	0.33	<10	<10	144	<10	10	35	14
P385165		12	<10	<10	278	<10	<10	<20	0.27	<10	<10	138	<10	10	39	13
P385165_CD		12	<10	<10	285	<10	<10	<20	0.28	<10	<10	137	<10	10	37	13
P385166		10	<10	<10	335	<10	<10	<20	0.26	<10	<10	130	<10	10	34	21
P385167		10	<10	<10	200	<10	<10	<20	0.23	<10	<10	119	<10	10	38	14
P385168		10	<10	<10	142	<10	<10	<20	0.25	<10	<10	125	<10	10	44	14
P385169		10	<10	<10	183	<10	<10	<20	0.26	<10	<10	122	<10	10	31	16
P385170		<1	<10	<10	50	<10	<10	<20	<0.01	<10	10	2	<10	<10	15	<5
P385171		10	<10	<10	322	<10	<10	<20	0.27	<10	<10	116	<10	10	30	15
P385172		12	<10	<10	354	<10	<10	<20	0.25	<10	<10	134	<10	10	38	17
P385173		13	<10	<10	636	<10	<10	<20	0.33	<10	<10	155	<10	10	32	22
P385174		14	<10	<10	626	<10	<10	<20	0.34	<10	<10	156	<10	10	31	23
P385175		17	<10	<10	717	<10	<10	<20	0.36	<10	<10	159	<10	20	41	23
P385176		15	<10	<10	731	<10	<10	<20	0.35	<10	<10	164	<10	10	55	22
P385177		13	<10	<10	681	<10	<10	<20	0.32	<10	<10	146	<10	10	38	16
P385178		13	<10	<10	614	<10	<10	<20	0.32	<10	<10	146	<10	10	43	21
P385179		13	<10	<10	698	<10	<10	<20	0.32	<10	<10	150	<10	10	43	21
P385180		15	<10	<10	358	<10	10	<20	0.31	<10	<10	166	<10	20	182	44
P385181		13	<10	<10	509	<10	<10	<20	0.30	<10	<10	141	<10	10	38	20
P385182		13	<10	<10	683	<10	<10	<20	0.32	<10	<10	145	<10	10	31	17
P385183		14	<10	<10	618	<10	<10	<20	0.33	<10	<10	156	<10	10	31	18
P385184		15	<10	<10	827	<10	<10	<20	0.35	<10	<10	172	<10	10	41	16
P385185		14	<10	<10	729	<10	<10	<20	0.32	<10	<10	148	<10	10	32	19
P385186		13	<10	<10	622	<10	<10	<20	0.32	<10	<10	149	<10	10	31	17
P385187		14	<10	<10	605	<10	<10	<20	0.32	<10	<10	157	<10	10	26	20

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method Analyte Units LOR	Cu- OG62 Cu % 0.001
P385150		
P385151		
P385152		
P385153		
P385154		
P385155		
P385156		
P385157		
P385158		
P385159		
P385160		0.203
P385161		
P385162		
P385163		
P385164		
P385164_PD		
P385165		
P385165_CD		
P385166		
P385167		
P385168		
P385169		
P385170		
P385171		
P385172		
P385173		
P385174		
P385175		
P385176		
P385177		
P385178		
P385179		
P385180		0.267
P385181		
P385182		
P385183		
P385184		
P385185		
P385186		
P385187		

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Ce ppm 50	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
P385188		2.74	0.004	<0.5	7.73	24	690	0.5	<2	5.83	<0.5	<50	11	8	18	4.40
P385189		4.92	0.003	<0.5	7.59	23	610	0.6	<2	5.80	<0.5	<50	11	11	21	4.60
P385189_PD		<0.02	0.003	<0.5	7.73	16	610	0.6	<2	5.69	<0.5	<50	11	11	19	4.56
P385190		2.50	0.001	<0.5	0.06	<5	50	<0.5	<2	21.1	<0.5	<50	1	<1	<1	0.51
P385191		5.04	0.030	<0.5	7.93	18	1030	0.9	<2	5.97	<0.5	<50	12	28	46	4.61
P385191_CD		<0.02	0.008	<0.5	8.01	17	1030	0.9	<2	5.53	<0.5	<50	13	31	32	4.60
P385192		4.94	0.005	<0.5	7.99	14	730	0.6	<2	5.08	<0.5	<50	12	14	18	3.97
P385193		3.34	0.006	<0.5	8.28	14	710	0.6	<2	4.29	<0.5	<50	12	10	27	3.97
P385194		3.58	0.034	<0.5	7.58	20	740	0.9	<2	6.07	<0.5	<50	10	12	158	2.73
P385195		4.54	0.017	<0.5	6.53	19	2320	0.7	2	4.41	<0.5	<50	4	<1	11	1.04
P385196		4.68	0.019	<0.5	7.13	17	1580	0.8	<2	4.39	<0.5	<50	4	1	2	1.65
P385197		4.36	0.026	<0.5	7.17	19	1070	0.8	<2	4.08	<0.5	<50	5	<1	2	1.69
P385198		4.02	0.009	<0.5	7.51	12	1540	0.8	<2	3.72	<0.5	<50	5	1	1	2.43
P385199		2.96	0.009	<0.5	8.09	26	780	0.7	<2	4.02	<0.5	<50	11	18	55	4.08
P385200		0.14	0.286	2.6	7.30	86	2060	0.7	<2	3.40	2.3	<50	25	12	1880	6.28
P385201		4.06	0.013	<0.5	8.08	33	940	0.6	<2	3.80	<0.5	<50	10	10	52	3.99
P385202		3.82	0.014	<0.5	8.12	28	970	0.6	<2	3.74	<0.5	<50	10	9	70	4.06
P385203		4.70	0.017	<0.5	7.72	37	1140	0.6	<2	4.43	<0.5	<50	11	10	75	4.32
P385204		4.76	0.009	<0.5	8.19	36	1010	0.6	<2	4.22	<0.5	<50	11	30	60	4.12
P385205		3.86	0.007	<0.5	7.50	39	590	0.6	<2	4.57	<0.5	<50	12	16	42	4.55
P385206		4.86	0.012	<0.5	8.07	42	580	0.6	<2	5.22	<0.5	<50	14	26	98	5.17
P385207		4.26	0.004	<0.5	7.67	29	810	0.6	<2	4.55	<0.5	<50	13	44	24	4.80
P385208		5.08	0.005	<0.5	7.08	32	770	0.5	<2	4.10	<0.5	<50	13	37	27	4.92
P385209		3.82	0.021	<0.5	6.58	35	650	0.6	<2	4.71	<0.5	<50	13	30	139	4.55
P385210		2.46	0.001	<0.5	0.10	<5	30	<0.5	<2	21.0	<0.5	<50	1	<1	<1	0.55
P385211		2.80	0.029	<0.5	7.08	31	700	0.6	<2	4.54	<0.5	<50	12	38	258	4.54
P385212		4.40	0.010	<0.5	7.75	20	780	0.7	<2	4.45	<0.5	<50	13	37	72	4.78
P385213		4.54	0.006	<0.5	7.47	22	850	0.6	<2	5.61	<0.5	<50	11	23	37	4.28
P385214		4.44	0.004	<0.5	7.43	34	800	0.6	<2	4.59	<0.5	<50	15	32	16	4.97
P385214_PD		<0.02	0.002	<0.5	8.04	32	850	0.6	<2	4.81	<0.5	<50	16	33	16	5.24
P385215		4.76	0.007	<0.5	8.27	35	1070	0.6	<2	6.02	<0.5	<50	18	120	53	4.82
P385215_CD		<0.02	0.013	<0.5	7.85	40	1050	0.6	<2	5.92	<0.5	<50	15	115	68	4.67
P385216		4.72	0.018	<0.5	7.96	48	1210	0.7	<2	6.70	<0.5	<50	22	167	243	5.08
P385217		4.96	0.141	0.6	7.93	54	960	0.7	<2	7.45	<0.5	<50	54	167	1310	6.21
P385218		4.44	0.006	<0.5	7.79	44	1150	0.7	<2	6.39	<0.5	<50	16	186	59	5.57
P385219		4.86	0.058	<0.5	7.98	68	2050	0.7	<2	5.65	<0.5	<50	23	65	580	3.39
P385220		0.14	0.704	1.5	7.04	92	1550	0.6	<2	3.08	1.1	<50	37	12	2730	8.12
P385221		2.94	0.045	<0.5	7.85	35	670	0.9	<2	7.59	<0.5	<50	42	129	664	5.46
P385222		5.00	0.036	<0.5	7.71	37	860	0.7	<2	5.82	<0.5	<50	17	179	467	5.35
P385223		5.42	0.002	<0.5	7.55	36	680	0.6	<2	6.68	<0.5	<50	11	154	13	4.35

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Ga	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.01	10	10	0.01	5	1	0.01	5	1	10	2	10	0.01	5
P385188		20	1.55	<10	10	0.68	696	1	2.68	<5	4	1030	<2	30	0.03	<5
P385189		20	1.46	<10	10	0.63	662	1	3.59	<5	3	970	<2	40	0.02	<5
P385189_PD		20	1.45	<10	10	0.64	651	1	3.51	<5	6	960	<2	40	0.02	<5
P385190		<10	0.02	<10	<10	13.25	227	1	0.01	<5	<1	180	3	20	0.01	<5
P385191		20	1.87	10	10	1.34	838	1	3.49	<5	7	1670	2	40	0.02	<5
P385191_CD		20	1.89	10	10	1.34	790	1	3.48	<5	6	1680	<2	40	0.02	<5
P385192		20	1.56	<10	10	1.03	736	1	4.15	<5	5	940	<2	30	0.02	<5
P385193		20	1.47	<10	10	1.21	712	1	4.26	<5	4	990	<2	40	0.03	<5
P385194		20	1.79	<10	10	1.42	866	4	3.53	<5	3	880	2	40	0.08	<5
P385195		20	4.90	<10	10	0.44	539	2	2.92	<5	8	980	<2	80	0.02	<5
P385196		20	2.90	<10	10	0.41	506	3	4.66	<5	8	1000	<2	50	0.02	<5
P385197		20	2.74	<10	<10	0.35	442	2	4.73	<5	5	1010	3	50	0.01	<5
P385198		20	2.66	<10	10	0.65	545	1	4.39	<5	6	1010	<2	40	0.02	<5
P385199		20	1.63	<10	10	1.66	731	1	4.16	<5	4	1100	<2	40	0.02	<5
P385200		20	2.18	<10	20	0.94	1230	29	2.35	<5	8	880	64	60	1.51	<5
P385201		20	1.52	<10	10	1.90	830	1	4.13	<5	4	1150	<2	30	0.03	<5
P385202		20	1.58	<10	10	1.95	843	1	4.17	<5	3	1170	3	30	0.03	<5
P385203		20	1.47	<10	10	1.89	1015	1	3.99	<5	3	1160	2	20	0.03	<5
P385204		20	1.49	<10	10	1.73	896	2	3.86	<5	4	1090	2	30	0.02	<5
P385205		20	1.20	<10	10	1.87	1030	1	3.80	<5	6	990	2	20	0.02	<5
P385206		20	1.16	<10	10	2.10	1035	<1	3.62	<5	9	1120	5	20	0.03	<5
P385207		20	1.36	<10	10	2.16	1015	1	3.86	<5	13	1110	2	20	0.01	<5
P385208		20	1.34	<10	10	1.96	1000	1	3.89	<5	11	1120	<2	20	0.02	<5
P385209		20	1.20	<10	10	1.91	988	<1	3.62	<5	13	1040	<2	20	0.03	<5
P385210		<10	0.04	<10	<10	13.30	235	1	0.02	<5	<1	190	<2	10	0.01	<5
P385211		20	1.32	<10	10	1.76	959	1	3.80	<5	14	1040	4	20	0.05	<5
P385212		20	1.64	<10	10	1.92	944	1	3.83	<5	14	1140	5	30	0.02	<5
P385213		20	1.66	<10	10	2.02	977	1	3.43	<5	16	960	15	30	0.01	<5
P385214		20	1.49	<10	10	2.29	1035	1	3.29	<5	12	980	2	30	0.01	<5
P385214_PD		20	1.57	<10	10	2.45	1085	<1	3.44	<5	10	1030	<2	20	0.01	<5
P385215		20	2.00	10	10	2.58	1225	1	3.08	<5	33	1270	4	40	0.03	<5
P385215_CD		20	1.96	<10	10	2.48	1210	<1	3.11	<5	36	1300	<2	40	0.04	<5
P385216		20	2.24	10	10	2.47	1290	1	2.82	<5	47	1460	<2	50	0.27	<5
P385217		20	1.86	10	10	2.40	1320	2	2.81	<5	64	1720	3	50	0.64	<5
P385218		20	2.11	10	20	2.87	1305	1	2.88	<5	61	1310	<2	40	0.05	<5
P385219		20	3.11	10	10	0.97	667	2	3.15	<5	36	2830	<2	50	0.44	<5
P385220		20	2.20	<10	20	1.09	1530	12	2.17	<5	9	890	33	50	1.87	14
P385221		20	1.56	10	10	2.32	1180	1	2.79	<5	117	1290	3	40	0.66	<5
P385222		20	1.76	10	10	2.59	1075	<1	3.15	<5	67	1350	2	40	0.16	<5
P385223		20	1.48	10	10	2.72	1010	1	3.02	<5	54	1180	<2	30	0.03	<5

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	10	1	10	10	20	0.01	10	10	1	10	10	2	5
P385188		13	<10	<10	355	<10	<10	<20	0.33	<10	<10	146	<10	10	24	19
P385189		13	<10	<10	531	<10	<10	<20	0.34	<10	<10	164	<10	10	26	21
P385189_PD		14	<10	<10	522	<10	<10	<20	0.34	<10	<10	163	<10	10	25	21
P385190		<1	<10	<10	56	<10	<10	<20	<0.01	<10	<10	2	<10	<10	18	<5
P385191		13	<10	<10	664	<10	<10	<20	0.43	<10	<10	184	<10	20	29	28
P385191_CD		14	<10	<10	668	<10	<10	<20	0.43	<10	<10	187	<10	20	30	28
P385192		14	<10	<10	506	<10	<10	<20	0.31	<10	<10	149	<10	10	30	18
P385193		12	<10	<10	538	<10	<10	<20	0.30	<10	<10	138	<10	10	33	16
P385194		12	<10	<10	314	<10	<10	<20	0.27	<10	<10	128	<10	10	38	18
P385195		5	<10	<10	319	<10	<10	<20	0.27	<10	<10	107	<10	10	22	46
P385196		5	<10	<10	370	<10	<10	<20	0.28	<10	<10	126	<10	10	29	52
P385197		5	<10	<10	321	<10	<10	<20	0.28	<10	<10	102	<10	10	32	52
P385198		6	<10	<10	323	<10	<10	<20	0.28	<10	<10	120	<10	10	38	60
P385199		14	<10	<10	470	<10	<10	<20	0.31	<10	<10	142	<10	10	31	19
P385200		13	<10	<10	424	<10	<10	<20	0.31	<10	<10	156	<10	10	343	48
P385201		13	<10	<10	625	<10	<10	<20	0.30	<10	<10	144	<10	10	30	18
P385202		14	<10	<10	634	<10	<10	<20	0.31	<10	<10	146	<10	10	31	19
P385203		12	<10	<10	617	<10	<10	<20	0.31	<10	<10	146	<10	10	29	19
P385204		14	<10	<10	645	<10	<10	<20	0.32	<10	<10	139	<10	10	31	19
P385205		13	<10	<10	577	<10	<10	<20	0.34	<10	<10	165	<10	10	34	17
P385206		17	<10	<10	699	<10	<10	<20	0.37	<10	<10	193	<10	10	37	22
P385207		15	<10	<10	679	<10	<10	<20	0.36	<10	<10	181	<10	10	35	19
P385208		14	<10	<10	647	<10	<10	<20	0.35	<10	<10	182	<10	10	37	18
P385209		13	<10	<10	525	<10	<10	<20	0.34	<10	<10	176	<10	10	35	18
P385210		<1	<10	<10	55	<10	10	<20	0.01	<10	10	2	<10	<10	17	<5
P385211		14	<10	<10	385	<10	<10	<20	0.33	<10	<10	174	<10	10	36	18
P385212		15	<10	<10	593	<10	<10	<20	0.35	<10	<10	178	<10	10	32	22
P385213		15	<10	<10	730	<10	<10	<20	0.34	<10	<10	166	<10	10	49	21
P385214		16	<10	<10	730	<10	<10	<20	0.38	<10	<10	191	<10	10	35	18
P385214_PD		18	<10	<10	766	<10	<10	<20	0.40	<10	<10	200	<10	10	36	17
P385215		20	<10	<10	694	<10	<10	<20	0.41	<10	<10	205	<10	20	35	22
P385215_CD		18	<10	<10	674	<10	<10	<20	0.40	<10	<10	202	<10	20	35	22
P385216		20	<10	<10	749	<10	<10	<20	0.38	<10	<10	200	<10	20	38	28
P385217		20	10	<10	831	<10	<10	<20	0.38	<10	<10	185	<10	20	49	33
P385218		25	<10	<10	802	<10	<10	<20	0.43	<10	<10	244	<10	20	37	26
P385219		8	<10	<10	922	<10	<10	<20	0.36	<10	<10	226	<10	10	24	40
P385220		16	<10	<10	386	<10	<10	<20	0.33	<10	<10	177	<10	20	196	46
P385221		18	<10	<10	784	<10	<10	<20	0.34	<10	<10	177	<10	20	46	37
P385222		20	<10	<10	745	<10	10	<20	0.37	<10	<10	193	<10	20	45	29
P385223		21	<10	<10	559	<10	<10	<20	0.41	<10	<10	210	<10	20	33	25

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method Analyte Units LOR	Cu- OG62 Cu % 0.001
P385188		
P385189		
P385189_PD		
P385190		
P385191		
P385191_CD		
P385192		
P385193		
P385194		
P385195		
P385196		
P385197		
P385198		
P385199		
P385200		0.194
P385201		
P385202		
P385203		
P385204		
P385205		
P385206		
P385207		
P385208		
P385209		
P385210		
P385211		
P385212		
P385213		
P385214		
P385214_PD		
P385215		
P385215_CD		
P385216		
P385217		0.128
P385218		
P385219		
P385220		0.264
P385221		
P385222		
P385223		

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Ce ppm 50	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
P385224		5.50	0.030	<0.5	7.44	32	550	0.7	<2	6.60	<0.5	<50	41	201	358	7.17
P385225		5.12	0.009	<0.5	7.93	33	1230	0.7	<2	6.08	<0.5	<50	27	225	96	5.78
P385226		2.52	0.022	<0.5	7.76	30	1110	0.7	<2	6.33	<0.5	<50	38	210	354	6.93
P385227		3.12	0.007	<0.5	7.98	25	690	0.6	<2	6.57	<0.5	<50	20	215	38	7.15

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Ga	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.01	10	10	0.01	5	1	0.01	5	1	10	2	10	0.01	5
P385224		20	1.10	10	10	2.88	1195	1	2.94	<5	88	1370	<2	30	0.59	<5
P385225		20	2.08	10	10	2.94	1140	<1	3.03	<5	67	1340	<2	40	0.16	<5
P385226		20	2.01	10	10	3.07	1230	1	2.69	<5	65	1340	<2	50	0.36	<5
P385227		20	1.40	10	10	3.21	1210	<1	2.94	<5	84	1300	<2	50	0.03	<5

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	10	1	10	10	20	0.01	10	10	1	10	10	2	5
P385224		22	<10	<10	678	<10	<10	<20	0.40	<10	<10	213	<10	20	45	27
P385225		23	<10	<10	753	<10	<10	<20	0.41	<10	<10	216	<10	20	40	28
P385226		24	<10	<10	741	<10	<10	<20	0.42	<10	<10	229	<10	20	42	29
P385227		26	<10	<10	760	<10	<10	<20	0.45	<10	<10	258	<10	20	39	31

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12272211

Sample Description	Method Analyte Units LOR	Cu- OG62 Cu % 0.001
P385224		
P385225		
P385226		
P385227		

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 13- DEC- 2012
Account: GOFICA

CERTIFICATE VA12277388

Project: Red Gold

P.O. No.: RG- 2012- 010c

This report is for 204 Crushed Core samples submitted to our lab in Vancouver, BC, Canada on 5- DEC- 2012.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL	NATE BREWER	MATT ECKFELDT
JULIANNE MADSEN	AMELIA RAINBOW	ROSS SHERLOCK
TWILA SKINNER	TIM STUBLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
SPL- 21d	Split sample - duplicate
PUL- 32d	Pulverize Split - Dup 85% < 75um
LOG- 21d	Sample logging - ClientBarCode Dup
LOG- 23	Pulp Login - Rcvd with Barcode
SPL- 34	Pulp Splitting Charge
LOG- 22	Sample login - Rcd w/o BarCode
SPL- 21	Split sample - riffle splitter
WEI- 25	Wt. of Crushed Reject
BAG- 01	Bulk Master for Storage
PUL- 32	Pulverize 1000g to 85% < 75 um
PUL- QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 13- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277388

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P385038		0.003	0.540
P385039		0.012	3.38
P385040		0.279	
P385041		0.015	2.66
P385042		0.017	0.660
P385043		0.044	2.72
P385044		0.035	0.940
P385045		0.038	3.16
P385046		0.008	1.020
P385047		0.050	2.74
P385048		0.076	1.240
P385049		0.351	3.18
P385050		0.001	3.70
P385051		0.829	1.300
P385052		0.099	2.56
P385053		0.028	3.30
P385054		0.037	3.26
P385055		0.039	2.98
P385056		0.174	1.080
P385057		0.007	1.760
P385058		0.036	2.24
P385059		0.017	3.50
P385060		0.680	
P385061		0.038	3.10
P385062		0.213	3.54
P385063		0.070	3.10
P385064		0.100	1.300
P385064_PD		0.091	
P385065		0.015	2.00
P385065_CD		0.019	
P385066		0.060	3.44
P385067		0.075	3.58
P385068		0.069	3.34
P385069		0.126	3.24
P385070		0.001	1.960
P385071		0.044	3.44
P385072		0.132	0.320
P385073		0.090	3.20
P385074		0.061	3.28
P385075		0.050	3.22

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 13- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277388

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P385076		0.044	3.00
P385077		0.186	3.26
P385078		0.131	3.06
P385079		0.038	1.700
P385080		0.287	
P385081		0.019	1.400
P385082		0.010	3.14
P385083		0.020	3.28
P385084		0.011	3.36
P385085		0.009	3.40
P385086		0.012	3.34
P385087		0.013	3.50
P385088		0.027	3.58
P385088_PD		0.046	
P385089		0.011	1.620
P385089_CD		0.012	
P385090		<0.001	3.10
P385091		0.008	2.74
P385092		0.020	3.10
P385093		0.338	3.02
P385094		0.010	3.20
P385095		0.049	3.32
P385096		0.153	2.96
P385097		0.050	3.16
P385098		0.012	3.14
P385099		0.009	1.100
P385100		0.648	
P385101		0.010	1.840
P385102		0.011	2.84
P385103		0.080	3.04
P385104		0.016	3.16
P385105		0.023	2.58
P385106		0.039	0.980
P385107		0.038	2.68
P385108		0.035	3.44
P385109		0.055	3.08
P385110		0.001	2.66
P385111		0.076	3.42
P385112		0.108	2.96
P385113		0.029	2.94

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 13- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277388

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P385114		0.023	3.38
P385114_PD		0.022	
P385115		0.155	0.940
P385115_CD		0.126	
P385116		0.067	1.540
P385117		0.152	3.26
P385118		0.104	2.28
P385119		0.070	2.78
P385120		0.344	
P385121		0.043	3.36
P385122		0.068	3.06
P385123		0.065	2.52
P385124		0.036	2.90
P385125		0.041	1.720
P385126		1.630	1.620
P385127		0.018	0.680
P385128		0.229	1.380
P385129		0.037	2.02
P385130		<0.001	1.800
P385131		0.088	1.880
P385132		0.045	1.900
P385133		0.052	2.80
P385134		0.008	2.90
P385135		0.012	3.28
P385136		0.045	0.720
P385137		0.032	3.26
P385138		0.035	2.78
P385139		0.021	3.12
P385139_PD		0.019	
P385140		0.716	
P385141		0.066	1.880
P385141_CD		0.062	
P385142		0.026	3.30
P385143		0.014	3.08
P385144		0.087	3.08
P385145		0.047	3.24
P385146		0.046	3.10
P385147		0.025	3.20
P385148		0.052	3.36
P385149		0.103	1.740

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 13- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277388

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P385150		0.001	2.58
P385151		0.014	2.06
P385152		0.028	3.24
P385153		0.032	3.46
P385154		0.054	3.68
P385155		0.032	3.64
P385156		0.006	3.44
P385157		0.049	3.46
P385158		0.009	3.54
P385159		0.033	1.640
P385160		0.285	
P385161		0.023	2.82
P385162		0.011	3.52
P385163		0.003	3.62
P385164		0.007	3.60
P385164_PD		0.008	
P385165		0.011	2.44
P385165_CD		0.012	
P385166		0.006	3.58
P385167		0.005	3.24
P385168		0.007	<0.001
P385169		0.006	2.14
P385170		0.001	0.940
P385171		0.010	1.220
P385172		0.011	1.640
P385173		0.010	2.48
P385174		0.010	2.54
P385175		0.010	3.30
P385176		0.005	3.60
P385177		0.017	3.52
P385178		0.033	3.60
P385179		0.024	3.02
P385180		0.706	
P385181		0.013	3.92
P385182		0.010	2.98
P385183		0.025	3.54
P385184		0.009	2.92
P385185		0.003	3.40
P385186		0.011	3.34
P385187		0.006	2.74

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 13- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277388

Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm 0.001	WEI-25 Reject W kg 0.001
P385188		0.005	1.420
P385189		0.004	3.54
P385189_PD		0.006	
P385190		0.001	1.020
P385191		0.023	2.52
P385191_CD		0.013	
P385192		0.006	3.60
P385193		0.005	1.900
P385194		0.034	2.32
P385195		0.039	3.20
P385196		0.016	3.22
P385197		0.022	3.16
P385198		0.010	2.96
P385199		0.010	1.620
P385200		0.272	
P385201		0.017	2.84
P385202		0.010	2.38
P385203		0.019	3.38
P385204		0.007	3.40
P385205		0.007	2.68
P385206		0.011	3.56
P385207		0.003	3.06
P385208		0.007	3.70
P385209		0.019	2.68
P385210		0.001	1.240
P385211		0.027	1.520
P385212		0.012	3.22
P385213		0.007	3.28
P385214		0.002	3.20
P385214_PD		0.002	
P385215		0.007	2.34
P385215_CD		0.005	
P385216		0.028	3.40
P385217		0.180	3.62
P385218		0.005	3.18
P385219		0.044	3.52
P385220		0.673	
P385221		0.049	1.660
P385222		0.060	3.66
P385223		0.002	3.92

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 13- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277388

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P385224		0.025	4.10
P385225		0.024	3.76
P385226		0.015	1.100
P385227		0.008	1.760

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 19-DEC-2012
This copy reported on
22-FEB-2013
Account: GOFICA

CERTIFICATE VA12295093

Project: GOFICA_VA12277388

P.O. No.:

This report is for 14 Crushed Core samples submitted to our lab in Vancouver, BC, Canada on 17-DEC-2012.

The following have access to data associated with this certificate:

JULIANNE MADSEN		

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Comments: **Re-analysis Results for Samples Originally Reported on Certificate VA12277388.**

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 19-DEC-2012
Account: GOFICA

Project: GOFICA_VA12277388

CERTIFICATE OF ANALYSIS VA12295093

Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm 0.001
P385115		0.078
P385116		0.063
P385117		0.138
P385118		0.089
P385119		0.055
P385120		0.298
P385121		0.034
P385122		0.070
P385123		0.110
P385124		0.032
P385125		0.062
P385126		3.69
P385127		0.014
P385128		0.065

Comments: **Re-analysis Results for Samples Originally Reported on Certificate VA12277388.**

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
This copy reported on
3- DEC- 2012
Account: GOFICA

CERTIFICATE VA12273900

Project: RedGold

P.O. No.: RG- 2012- 011c

This report is for 190 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 20- NOV- 2012.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL	NATE BREWER	MATT ECKFELDT
JULIANNE MADSEN	AMELIA RAINBOW	ROSS SHERLOCK
TWILA SKINNER	TIM STUBLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
SPL- 34	Pulp Splitting Charge
LOG- 21	Sample logging - ClientBarCode
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70% <2mm
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
LOG- 21d	Sample logging - ClientBarCode Dup
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP61	33 element four acid ICP- AES	ICP- AES
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Cu- OG62	Ore Grade Cu - Four Acid	VARIABLE

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Ce ppm 50	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
P385228		2.42	0.009	<0.5	7.79	10	1050	0.6	<2	6.44	<0.5	<50	15	224	130	4.38
P385229		2.24	0.008	<0.5	8.09	11	1720	0.7	<2	6.61	<0.5	<50	10	186	126	3.80
P385230		2.72	0.002	<0.5	0.06	<5	20	<0.5	<2	20.9	<0.5	<50	3	<1	1	0.50
P385231		3.96	0.007	<0.5	8.32	8	630	0.7	<2	5.97	<0.5	<50	9	138	58	2.29
P385232		4.18	0.017	<0.5	8.78	11	690	0.7	<2	6.51	<0.5	<50	11	138	110	2.79
P385233		4.10	0.050	<0.5	8.41	12	900	0.7	<2	5.20	<0.5	<50	21	177	202	5.16
P385234		2.00	0.039	<0.5	8.35	21	700	0.7	<2	6.37	<0.5	<50	25	159	696	5.55
P385235		3.76	0.015	<0.5	8.09	23	1020	0.6	<2	5.24	<0.5	<50	17	151	161	4.45
P385236		2.78	0.010	<0.5	7.90	17	1460	0.6	<2	8.08	<0.5	<50	15	131	163	4.84
P385237		4.64	0.006	<0.5	8.09	18	1170	0.7	<2	5.51	<0.5	<50	18	165	48	5.23
P385238		4.56	0.008	<0.5	7.70	16	850	0.6	<2	6.36	<0.5	<50	21	152	78	5.58
P385239		4.56	0.015	<0.5	8.13	13	1150	0.7	<2	7.80	0.6	<50	22	212	397	6.17
P385240		0.12	0.324	2.5	7.37	85	2130	0.6	2	3.46	2.5	<50	26	13	1825	6.15
P385241		4.56	0.031	0.5	7.75	20	840	0.7	3	8.38	1.0	<50	22	176	416	5.18
P385242		4.72	0.027	<0.5	8.07	16	1330	0.7	<2	7.08	0.7	<50	24	143	322	4.12
P385243		4.70	0.008	<0.5	7.96	12	920	0.6	<2	6.81	<0.5	<50	16	172	120	4.88
P385244		4.70	0.017	<0.5	8.08	9	910	0.6	<2	5.72	<0.5	<50	24	140	190	5.38
P385245		4.96	0.011	<0.5	8.13	10	890	0.6	<2	5.85	<0.5	<50	25	165	148	4.90
P385245_PB		0.14	0.001	<0.5	0.56	<5	20	<0.5	<2	0.04	<0.5	<50	2	7	2	0.35
P385246		4.60	0.007	<0.5	8.30	7	1010	0.6	<2	6.15	0.6	<50	18	216	51	4.70
P385247		4.74	0.014	<0.5	8.29	7	580	0.6	2	6.39	0.6	<50	23	178	126	5.46
P385248		4.80	0.032	<0.5	8.65	11	930	0.6	2	5.39	5.6	<50	21	144	258	4.94
P385249		4.88	0.032	<0.5	8.37	7	600	0.6	<2	5.75	<0.5	<50	19	141	306	4.94
P385250		2.72	0.002	<0.5	0.07	<5	20	<0.5	<2	20.6	<0.5	<50	3	<1	1	0.47
P385251		4.84	0.013	<0.5	8.04	11	830	0.6	3	6.45	<0.5	<50	18	161	158	5.09
P385252		4.80	0.020	<0.5	7.97	11	730	0.6	<2	6.53	1.1	<50	23	132	407	5.20
P385253		4.74	0.014	<0.5	8.10	15	660	0.6	<2	6.49	3.5	<50	18	133	179	4.56
P385254		4.68	0.031	<0.5	8.09	12	890	0.6	<2	6.01	0.6	<50	21	151	233	4.70
P385255		4.08	0.025	<0.5	8.33	11	810	0.6	<2	6.50	1.1	<50	22	153	262	4.82
P385255_PD		<0.02	0.020	<0.5	7.91	13	750	0.6	<2	6.28	0.7	<50	20	139	264	4.69
P385256		4.62	0.201	<0.5	8.23	5	830	0.6	<2	5.60	<0.5	<50	17	138	92	4.46
P385256_CD		<0.02	0.011	<0.5	8.28	6	830	0.6	<2	5.73	<0.5	<50	17	140	100	4.56
P385257		4.80	0.045	<0.5	8.57	15	760	0.6	<2	4.97	<0.5	<50	19	144	81	5.04
P385258		4.84	0.025	<0.5	8.45	14	870	0.7	<2	6.75	<0.5	<50	28	140	345	6.03
P385259		4.94	0.020	<0.5	8.48	5	1100	0.7	<2	6.18	<0.5	<50	16	130	197	4.84
P385260		0.12	0.673	1.3	7.37	89	1490	0.6	<2	3.12	0.8	<50	35	13	2670	7.82
P385261		4.96	0.501	2.2	7.31	16	830	0.6	<2	7.80	0.9	<50	45	151	3740	6.81
P385262		5.12	1.095	2.0	7.38	19	1240	0.7	<2	8.43	1.3	<50	62	154	2220	8.22
P385263		4.96	0.113	0.5	7.46	28	1180	0.9	<2	8.60	<0.5	<50	35	210	793	6.76
P385264		5.04	0.019	<0.5	7.96	13	1190	0.8	<2	7.07	1.6	<50	26	234	119	5.19

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01	ME-ICP61 La ppm 10	ME-ICP61 Li ppm 10	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Nb ppm 5	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 Rb ppm 10	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5
P385228		20	1.88	10	10	3.45	1150	2	2.46	<5	73	1190	2	40	0.04	<5
P385229		20	2.51	10	10	3.10	1060	1	2.56	<5	62	1180	3	50	0.05	<5
P385230		<10	0.02	<10	<10	12.85	229	2	0.01	<5	<1	170	3	20	<0.01	<5
P385231		20	1.48	10	10	2.79	819	1	3.51	<5	46	910	2	40	0.01	<5
P385232		20	1.39	10	10	2.75	852	2	3.46	<5	66	990	2	30	0.01	<5
P385233		20	1.85	10	<10	3.08	930	2	2.96	<5	72	1140	3	60	0.02	<5
P385234		20	1.54	10	<10	3.15	906	2	2.46	<5	76	1090	4	50	0.25	<5
P385235		20	2.05	10	<10	2.79	783	2	2.62	<5	69	1020	2	50	0.06	<5
P385236		20	2.23	10	<10	2.73	1140	2	2.13	<5	68	1160	11	70	0.19	<5
P385237		20	2.15	10	10	3.06	989	1	2.71	<5	67	1130	105	40	0.05	<5
P385238		20	1.67	10	10	3.79	1150	1	2.22	<5	67	1020	111	40	0.08	<5
P385239		20	1.91	10	10	3.46	1395	3	2.16	<5	80	1450	232	60	0.32	<5
P385240		20	2.17	10	20	0.96	1195	30	2.36	<5	9	840	62	60	1.50	<5
P385241		20	1.30	10	20	3.15	1260	2	1.64	<5	82	1430	1055	50	0.56	<5
P385242		20	1.89	10	10	2.98	1185	2	2.47	<5	87	1370	37	50	0.40	<5
P385243		20	1.56	10	10	3.52	1220	1	2.57	<5	66	1090	13	40	0.10	<5
P385244		20	1.95	10	10	2.78	1140	1	2.86	<5	73	1100	32	40	0.63	<5
P385245		20	1.79	10	10	3.27	1100	1	2.86	<5	73	1060	12	40	0.48	<5
P385245_PB		<10	0.24	10	<10	0.04	28	2	0.02	<5	<1	30	<2	10	0.01	<5
P385246		20	1.94	10	10	3.14	1085	2	2.90	<5	81	1150	39	50	0.15	<5
P385247		20	1.38	10	10	2.88	1060	2	2.90	<5	86	1200	21	40	0.22	<5
P385248		20	1.96	10	10	2.80	1055	2	3.13	<5	77	1150	456	60	0.35	<5
P385249		20	1.54	10	10	2.53	971	2	3.34	<5	58	1120	44	40	0.34	<5
P385250		<10	0.02	<10	<10	12.60	202	2	0.01	<5	<1	170	2	20	<0.01	<5
P385251		20	1.57	10	10	2.68	1085	2	2.98	<5	56	1090	11	40	0.28	<5
P385252		20	1.54	10	10	2.39	1150	2	2.80	<5	63	1060	57	50	0.68	<5
P385253		20	1.65	10	10	2.38	1115	2	2.98	<5	71	1200	87	50	0.35	<5
P385254		20	1.86	10	20	2.45	1025	3	2.76	<5	70	1100	216	60	0.40	<5
P385255		20	1.77	10	20	2.54	1095	2	2.86	<5	71	1110	386	60	0.50	<5
P385255_PD		20	1.73	10	10	2.42	1100	<1	2.81	<5	73	1090	374	60	0.51	<5
P385256		20	1.99	10	10	2.48	973	2	3.02	<5	71	1150	56	60	0.07	<5
P385256_CD		20	1.98	10	10	2.51	1000	1	3.03	<5	68	1170	47	60	0.08	<5
P385257		20	1.90	10	10	2.70	944	<1	3.21	<5	67	1090	17	40	0.11	<5
P385258		20	1.87	10	10	2.66	1205	<1	2.68	<5	75	1330	10	50	0.75	<5
P385259		20	2.25	10	10	2.41	1125	<1	2.75	<5	59	1190	4	50	0.26	<5
P385260		20	2.22	10	20	1.11	1525	11	2.13	<5	8	850	32	60	1.81	13
P385261		20	1.66	10	10	2.48	1420	12	1.98	<5	78	1300	30	50	2.11	<5
P385262		20	2.13	10	10	2.22	1700	1	1.83	<5	242	1670	60	60	2.96	6
P385263		20	1.90	10	10	2.47	1370	<1	2.10	<5	167	3850	13	70	1.46	<5
P385264		20	2.01	10	10	3.07	977	<1	2.51	<5	105	1990	985	50	0.07	<5

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method Analyte Units LOR	ME-ICP61 Sc ppm 1	ME-ICP61 Se ppm 10	ME-ICP61 Sn ppm 10	ME-ICP61 Sr ppm 1	ME-ICP61 Ta ppm 10	ME-ICP61 Te ppm 10	ME-ICP61 Th ppm 20	ME-ICP61 Ti % 0.01	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Y ppm 10	ME-ICP61 Zn ppm 2	ME-ICP61 Zr ppm 5
P385228		27	<10	<10	360	<10	<10	<20	0.46	<10	<10	249	<10	20	48	30
P385229		22	<10	<10	529	<10	<10	<20	0.42	<10	<10	210	<10	20	39	30
P385230		<1	<10	<10	52	<10	10	<20	<0.01	<10	<10	3	<10	<10	17	<5
P385231		17	<10	<10	508	<10	<10	<20	0.39	<10	<10	172	<10	20	25	28
P385232		18	<10	<10	531	<10	<10	<20	0.42	<10	<10	179	<10	20	32	31
P385233		22	<10	<10	528	<10	10	<20	0.39	<10	<10	206	<10	20	42	29
P385234		22	<10	<10	413	<10	<10	<20	0.40	<10	<10	218	<10	20	43	32
P385235		18	<10	<10	604	<10	<10	<20	0.37	<10	<10	197	<10	10	33	29
P385236		18	<10	<10	534	<10	10	<20	0.34	<10	<10	182	<10	20	49	31
P385237		20	<10	<10	857	<10	<10	<20	0.40	<10	<10	220	<10	20	43	25
P385238		24	<10	<10	662	<10	<10	<20	0.42	<10	<10	257	<10	10	52	25
P385239		25	<10	<10	486	<10	10	<20	0.41	<10	<10	250	<10	20	123	38
P385240		13	<10	<10	417	<10	<10	<20	0.30	<10	<10	153	<10	10	331	47
P385241		22	<10	<10	425	<10	10	<20	0.38	<10	<10	241	<10	20	199	36
P385242		20	<10	<10	691	<10	<10	<20	0.37	<10	<10	201	<10	20	124	30
P385243		25	<10	<10	788	<10	<10	<20	0.43	<10	<10	250	<10	20	65	26
P385244		18	<10	<10	750	<10	<10	<20	0.40	<10	<10	199	<10	20	65	33
P385245		22	<10	<10	857	<10	<10	<20	0.41	<10	<10	222	<10	20	75	28
P385245_PB		1	<10	<10	9	<10	<10	<20	0.04	<10	<10	5	<10	<10	<2	12
P385246		23	<10	<10	758	<10	<10	<20	0.40	<10	<10	214	<10	20	109	32
P385247		21	<10	<10	713	<10	<10	<20	0.39	<10	<10	198	<10	20	93	41
P385248		20	<10	<10	967	<10	<10	<20	0.40	<10	<10	198	<10	20	664	33
P385249		17	<10	<10	853	<10	<10	<20	0.37	<10	<10	188	<10	20	71	31
P385250		<1	<10	<10	51	<10	<10	<20	<0.01	<10	<10	3	<10	<10	15	<5
P385251		19	<10	<10	863	<10	<10	<20	0.35	<10	<10	184	<10	20	53	29
P385252		18	<10	<10	610	<10	<10	<20	0.34	<10	<10	168	<10	20	167	35
P385253		16	<10	<10	708	<10	<10	<20	0.35	<10	<10	173	<10	20	413	35
P385254		19	<10	<10	661	<10	<10	<20	0.36	<10	<10	187	<10	20	126	31
P385255		20	<10	<10	634	<10	<10	<20	0.38	<10	<10	188	<10	20	141	45
P385255_PD		19	<10	<10	626	<10	10	<20	0.37	<10	<10	185	<10	20	133	30
P385256		19	<10	<10	753	<10	10	<20	0.38	<10	<10	188	<10	20	105	32
P385256_CD		19	<10	<10	762	<10	10	<20	0.39	<10	<10	190	<10	20	104	32
P385257		18	<10	<10	886	<10	10	<20	0.39	10	<10	189	<10	20	66	36
P385258		21	<10	<10	1005	<10	10	<20	0.40	<10	<10	205	<10	20	65	35
P385259		19	<10	<10	797	<10	10	<20	0.39	<10	<10	195	<10	20	47	34
P385260		16	<10	<10	375	<10	<10	<20	0.33	<10	<10	172	<10	20	185	46
P385261		20	10	<10	748	<10	<10	<20	0.39	<10	<10	214	<10	20	147	34
P385262		19	<10	<10	827	<10	<10	<20	0.38	<10	<10	243	<10	20	276	40
P385263		22	<10	<10	788	<10	10	<20	0.39	<10	10	272	<10	20	83	65
P385264		23	<10	<10	818	<10	<10	<20	0.43	<10	<10	281	<10	20	255	53

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method Analyte Units LOR	Cu-OG62 Cu % 0.001
P385228		
P385229		
P385230		
P385231		
P385232		
P385233		
P385234		
P385235		
P385236		
P385237		
P385238		
P385239		
P385240		0.190
P385241		
P385242		
P385243		
P385244		
P385245		
P385245_PB		
P385246		
P385247		
P385248		
P385249		
P385250		
P385251		
P385252		
P385253		
P385254		
P385255		
P385255_PD		
P385256		
P385256_CD		
P385257		
P385258		
P385259		
P385260		0.259
P385261		0.376
P385262		0.223
P385263		
P385264		

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Ce ppm 50	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
P385265		5.00	0.023	<0.5	6.93	15	1320	0.6	<2	8.97	0.8	<50	27	189	501	5.81
P385265_PB		0.16	0.001	<0.5	0.51	<5	20	<0.5	4	0.04	<0.5	<50	1	8	3	0.38
P385266		5.14	0.011	<0.5	7.97	11	1010	0.8	<2	6.90	<0.5	<50	27	229	181	5.06
P385267		2.72	0.014	<0.5	8.19	14	1250	0.9	<2	8.01	<0.5	<50	20	225	141	5.22
P385268		3.90	0.014	<0.5	8.49	7	1820	0.6	<2	5.03	<0.5	<50	31	122	171	5.71
P385269		5.78	0.013	<0.5	8.21	8	800	0.9	<2	7.20	0.5	<50	29	217	283	5.63
P385270		3.02	0.001	<0.5	0.08	<5	30	<0.5	<2	22.0	<0.5	<50	2	<1	2	0.52
P385271		5.32	0.041	<0.5	7.78	13	800	0.9	<2	6.10	<0.5	<50	35	219	423	6.04
P385272		4.84	0.017	<0.5	7.72	16	640	0.9	<2	6.35	<0.5	<50	27	233	166	5.65
P385273		5.30	0.027	<0.5	7.53	16	1130	0.9	<2	6.96	<0.5	<50	34	212	381	6.06
P385274		5.02	0.038	<0.5	7.69	10	1030	0.9	<2	7.67	<0.5	<50	33	218	494	6.13
P385275		5.42	0.039	<0.5	7.51	13	980	0.9	<2	6.92	<0.5	<50	38	226	252	6.56
P385276		4.76	0.024	<0.5	7.36	9	1040	0.8	<2	6.82	<0.5	<50	46	225	295	6.66
P385277		5.38	0.049	<0.5	7.25	9	800	0.8	<2	8.74	<0.5	<50	33	205	804	6.57
P385278		5.42	0.063	<0.5	7.33	15	1390	0.9	<2	7.85	<0.5	<50	32	202	920	5.80
P385279		5.18	0.089	<0.5	7.30	12	1380	0.9	<2	8.12	<0.5	<50	35	217	1370	6.30
P385280		0.12	0.269	2.5	7.45	83	1910	0.6	<2	3.46	2.4	<50	24	13	1885	6.30
P385281		5.22	0.056	<0.5	7.22	12	1210	0.8	<2	8.40	<0.5	<50	33	207	1170	5.97
P385281_PD		<0.02	0.061	<0.5	7.40	7	1230	0.8	<2	8.46	<0.5	<50	32	207	1175	6.08
P385282		2.36	0.040	0.5	6.80	20	610	0.8	<2	9.54	0.7	<50	31	197	1110	6.72
P385282_CD		<0.02	0.043	0.5	6.80	18	610	0.8	<2	9.57	0.6	<50	30	204	1085	6.72
P385283		2.18	0.058	0.5	6.83	19	610	0.8	<2	9.43	0.6	<50	29	192	1120	6.72
P385284		2.80	0.076	<0.5	7.28	17	960	0.8	<2	9.05	<0.5	<50	27	190	1300	7.10
P385285		4.74	0.051	<0.5	7.33	11	1240	0.8	<2	8.77	<0.5	<50	24	190	1195	5.64
P385285_PB		0.16	<0.001	<0.5	0.53	<5	20	<0.5	<2	0.03	<0.5	<50	1	7	4	0.35
P385286		4.54	0.045	<0.5	7.14	7	900	0.8	3	9.38	<0.5	<50	22	192	807	5.92
P385287		5.00	0.056	<0.5	6.86	14	920	0.8	4	9.66	<0.5	<50	24	187	1050	5.49
P385288		5.08	0.071	<0.5	6.85	12	1060	0.8	4	8.76	<0.5	<50	24	201	1250	5.55
P385289		4.70	0.180	<0.5	6.78	6	1150	0.8	<2	7.62	<0.5	<50	22	231	1855	5.45
P385290		2.64	0.002	<0.5	0.07	<5	20	<0.5	<2	20.5	<0.5	<50	<1	<1	6	0.48
P385291		5.46	0.042	<0.5	7.63	17	870	0.9	4	9.19	<0.5	<50	23	216	492	5.02
P385292		5.38	0.051	<0.5	6.96	15	780	0.8	4	8.85	<0.5	<50	27	206	1025	6.23
P385293		5.10	0.049	<0.5	6.88	7	330	0.8	3	9.64	<0.5	<50	45	180	1395	6.10
P385294		5.14	0.042	<0.5	7.15	15	660	0.8	3	10.70	<0.5	<50	31	179	566	6.35
P385295		5.12	0.140	0.5	7.35	14	1550	0.9	4	9.91	<0.5	<50	37	204	1170	5.45
P385296		5.26	0.041	<0.5	7.17	24	1410	0.9	2	9.95	<0.5	<50	32	195	449	5.56
P385297		5.22	0.058	<0.5	7.48	21	1150	0.9	5	10.25	<0.5	<50	23	201	583	5.73
P385298		4.98	0.048	<0.5	7.16	16	1100	0.8	4	11.45	<0.5	<50	24	192	411	5.62
P385299		4.76	0.078	<0.5	7.16	12	860	0.9	<2	10.95	<0.5	<50	27	194	931	5.71
P385300		0.12	0.699	1.3	6.82	86	1490	0.6	6	3.04	0.7	<50	35	13	2600	7.69

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description / Method / Analyte / Units / LOR	ME- ICP61 Ga ppm 10	ME- ICP61 K % 0.01	ME- ICP61 La ppm 10	ME- ICP61 Li ppm 10	ME- ICP61 Mg % 0.01	ME- ICP61 Mn ppm 5	ME- ICP61 Mo ppm 1	ME- ICP61 Na % 0.01	ME- ICP61 Nb ppm 5	ME- ICP61 Ni ppm 1	ME- ICP61 P ppm 10	ME- ICP61 Pb ppm 2	ME- ICP61 Rb ppm 10	ME- ICP61 S % 0.01	ME- ICP61 Sb ppm 5
P385265	10	2.20	10	20	2.88	1495	<1	1.41	<5	77	1320	181	70	1.20	5
P385265_PB	<10	0.22	10	<10	0.03	36	<1	0.01	<5	<1	30	<2	10	0.01	<5
P385266	20	1.90	10	10	3.04	1040	<1	2.51	<5	90	1830	4	60	0.33	<5
P385267	20	1.94	10	20	3.06	1085	1	2.23	<5	91	2740	4	60	0.20	<5
P385268	20	2.40	10	20	3.62	935	<1	2.53	<5	72	1100	69	50	0.15	<5
P385269	20	1.51	10	20	3.29	1155	<1	2.49	<5	108	2080	74	50	0.29	<5
P385270	<10	0.03	<10	<10	12.85	233	<1	0.01	<5	<1	270	<2	20	<0.01	<5
P385271	20	1.58	10	10	3.40	1155	<1	2.47	<5	137	1970	2	40	0.67	<5
P385272	20	1.50	10	10	3.44	958	<1	2.44	<5	109	1860	<2	40	0.22	6
P385273	20	1.69	10	20	3.51	1085	<1	2.26	<5	142	1800	<2	50	1.14	<5
P385274	20	1.70	10	10	3.30	1070	<1	2.12	<5	136	1710	<2	50	1.54	<5
P385275	20	1.77	10	10	3.72	1045	<1	2.23	<5	193	1680	<2	70	0.47	5
P385276	20	2.03	10	10	3.90	1085	<1	2.14	<5	216	1730	8	70	0.44	<5
P385277	20	1.25	10	20	3.38	1215	<1	1.85	<5	202	1950	<2	50	1.55	<5
P385278	20	2.28	10	20	3.30	1090	<1	1.77	<5	151	1860	<2	70	1.46	<5
P385279	20	2.45	10	10	3.60	1105	<1	1.72	<5	131	2030	<2	70	1.82	<5
P385280	20	2.21	10	20	0.95	1250	29	2.39	<5	8	870	64	60	1.49	9
P385281	20	2.35	10	10	3.26	1135	1	1.59	<5	120	1930	<2	70	1.64	<5
P385281_PD	20	2.38	10	10	3.33	1145	1	1.62	<5	124	1970	<2	70	1.67	<5
P385282	20	1.78	10	10	2.96	1495	<1	1.61	<5	112	2050	48	70	2.02	<5
P385282_CD	20	1.77	10	20	2.99	1505	<1	1.61	<5	110	2070	41	60	1.97	<5
P385283	20	1.81	10	10	2.88	1440	1	1.58	<5	108	2160	33	60	1.96	<5
P385284	20	1.72	10	10	3.19	1465	<1	1.68	<5	112	2020	8	60	1.89	<5
P385285	20	1.80	10	10	3.37	1350	<1	1.78	<5	123	2050	3	60	1.38	<5
P385285_PB	<10	0.23	10	<10	0.03	26	<1	0.01	<5	<1	30	<2	20	0.01	<5
P385286	20	1.27	10	10	3.30	1625	1	1.50	<5	113	2040	6	40	1.32	<5
P385287	20	1.18	10	10	3.27	1815	<1	1.63	<5	106	2110	<2	40	1.33	<5
P385288	20	1.53	10	10	3.15	1590	<1	1.90	<5	91	2110	<2	50	1.42	<5
P385289	20	2.40	10	10	3.20	1330	1	2.05	<5	95	1910	9	70	0.98	<5
P385290	<10	0.03	<10	<10	12.25	226	<1	0.01	<5	<1	170	<2	20	<0.01	<5
P385291	20	1.27	10	10	3.23	1645	<1	2.00	<5	108	2010	4	40	1.16	<5
P385292	20	1.24	10	10	3.29	1745	<1	1.82	<5	108	1900	5	40	1.57	<5
P385293	20	0.72	10	10	3.41	1695	9	1.96	<5	158	2060	11	30	2.71	<5
P385294	20	0.85	10	10	3.28	2590	1	1.20	<5	116	2550	<2	30	1.66	<5
P385295	20	1.47	10	20	3.26	1710	14	1.54	<5	138	2140	13	50	1.59	<5
P385296	20	1.34	10	10	3.45	2030	1	1.48	<5	127	2200	9	40	1.56	<5
P385297	20	1.01	10	10	3.22	2160	1	1.48	<5	102	2320	3	30	1.45	<5
P385298	20	1.03	10	10	3.35	2420	1	1.16	<5	110	2180	3	40	1.17	<5
P385299	20	0.98	10	10	3.17	2060	1	1.29	<5	112	2170	<2	40	1.00	<5
P385300	20	2.13	10	20	1.06	1470	10	2.08	<5	9	810	34	50	1.78	8

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 Sc ppm 1	ME-ICP61 Se ppm 10	ME-ICP61 Sn ppm 10	ME-ICP61 Sr ppm 1	ME-ICP61 Ta ppm 10	ME-ICP61 Te ppm 10	ME-ICP61 Th ppm 20	ME-ICP61 Ti % 0.01	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Y ppm 10	ME-ICP61 Zn ppm 2	ME-ICP61 Zr ppm 5
P385265		26	<10	<10	783	<10	10	<20	0.38	<10	<10	229	<10	20	135	33
P385265_PB		1	<10	<10	9	<10	<10	<20	0.04	<10	<10	5	<10	<10	<2	9
P385266		24	<10	<10	775	<10	10	<20	0.42	<10	<10	264	<10	20	85	46
P385267		25	<10	<10	661	<10	10	<20	0.43	<10	<10	272	<10	20	65	46
P385268		24	<10	<10	718	<10	10	<20	0.40	<10	<10	249	<10	10	60	30
P385269		23	<10	10	705	<10	10	<20	0.43	<10	<10	285	<10	20	110	50
P385270		<1	<10	<10	55	<10	10	<20	<0.01	<10	<10	3	<10	<10	16	<5
P385271		22	<10	<10	777	<10	<10	<20	0.41	<10	<10	278	<10	10	65	49
P385272		23	<10	<10	831	<10	<10	<20	0.42	<10	<10	281	<10	10	54	49
P385273		23	10	<10	647	<10	<10	<20	0.40	<10	<10	273	<10	10	43	45
P385274		23	<10	<10	719	<10	10	<20	0.41	<10	<10	273	<10	10	41	45
P385275		24	<10	<10	784	<10	10	<20	0.40	<10	<10	271	<10	10	47	44
P385276		24	<10	<10	528	<10	<10	<20	0.40	<10	<10	272	<10	20	69	44
P385277		23	<10	<10	445	10	10	<20	0.39	<10	<10	263	<10	10	41	42
P385278		22	<10	<10	598	<10	10	<20	0.39	<10	<10	270	<10	10	39	40
P385279		23	<10	<10	653	<10	10	<20	0.40	<10	<10	278	<10	10	38	40
P385280		13	<10	<10	422	<10	<10	<20	0.30	<10	<10	157	<10	10	325	47
P385281		22	10	<10	480	<10	10	<20	0.39	<10	<10	275	<10	10	45	39
P385281_PD		22	10	<10	489	<10	<10	<20	0.39	<10	<10	274	<10	10	45	40
P385282		22	10	<10	517	10	<10	<20	0.37	<10	<10	260	<10	10	128	45
P385282_CD		22	10	<10	526	<10	10	<20	0.37	<10	<10	263	<10	10	126	41
P385283		21	10	<10	524	<10	10	<20	0.37	<10	<10	258	<10	10	121	42
P385284		22	10	<10	741	<10	10	<20	0.37	<10	<10	258	<10	10	71	44
P385285		22	10	<10	479	<10	10	<20	0.38	<10	<10	261	<10	10	64	48
P385285_PB		1	<10	<10	8	<10	<10	<20	0.04	<10	<10	5	<10	<10	<2	9
P385286		22	<10	<10	611	<10	<10	<20	0.37	<10	<10	258	<10	10	69	54
P385287		20	<10	<10	786	<10	<10	<20	0.35	<10	<10	250	<10	10	62	56
P385288		21	<10	<10	593	<10	<10	<20	0.36	<10	<10	253	<10	10	54	53
P385289		21	<10	<10	349	<10	<10	<20	0.36	<10	<10	269	<10	10	77	43
P385290		<1	<10	<10	51	<10	10	<20	<0.01	<10	<10	2	<10	<10	16	<5
P385291		23	<10	<10	737	<10	<10	<20	0.40	<10	<10	269	<10	10	64	58
P385292		21	<10	<10	769	<10	<10	<20	0.36	<10	<10	259	<10	10	67	51
P385293		21	10	<10	598	<10	<10	<20	0.36	<10	<10	240	<10	10	86	49
P385294		20	<10	<10	983	<10	<10	<20	0.36	<10	<10	254	<10	10	77	59
P385295		22	<10	<10	526	<10	<10	<20	0.38	<10	<10	252	<10	10	103	57
P385296		22	<10	<10	763	<10	<10	<20	0.38	<10	<10	258	<10	10	111	58
P385297		22	<10	<10	819	<10	<10	<20	0.39	<10	<10	268	<10	10	118	61
P385298		22	<10	<10	828	<10	<10	<20	0.37	<10	<10	250	<10	10	200	59
P385299		21	<10	<10	816	<10	10	<20	0.37	<10	<10	250	<10	10	169	56
P385300		15	<10	<10	364	<10	<10	<20	0.31	<10	<10	168	<10	10	179	43

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method Analyte Units LOR	Cu- OG62 Cu % 0.001
P385265		
P385265_PB		
P385266		
P385267		
P385268		
P385269		
P385270		
P385271		
P385272		
P385273		
P385274		
P385275		
P385276		
P385277		
P385278		
P385279		0.133
P385280		0.191
P385281		0.112
P385281_PD		0.114
P385282		0.110
P385282_CD		0.108
P385283		0.116
P385284		0.127
P385285		0.122
P385285_PB		
P385286		
P385287		0.101
P385288		0.152
P385289		0.184
P385290		
P385291		
P385292		0.097
P385293		0.134
P385294		
P385295		0.113
P385296		
P385297		
P385298		
P385299		
P385300		0.254

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	50	1	1	1	0.01
P385301		3.96	0.117	<0.5	7.78	13	1170	0.9	5	9.25	<0.5	<50	34	209	1555	5.58
P385302		3.92	0.034	<0.5	7.44	7	1250	0.9	<2	7.71	<0.5	<50	30	206	698	5.67
P385303		5.26	0.114	<0.5	7.15	12	790	0.9	4	8.45	<0.5	<50	27	212	1200	5.24
P385304		4.72	0.074	<0.5	6.92	16	690	0.8	<2	8.53	<0.5	<50	20	198	960	5.33
P385305		4.18	0.037	<0.5	6.65	14	1090	0.8	3	9.82	<0.5	<50	18	186	488	4.89
P385305_PB		0.16	0.001	<0.5	0.54	<5	20	<0.5	<2	0.05	<0.5	<50	<1	8	3	0.34
P385306		3.84	0.036	<0.5	6.66	7	850	0.9	2	9.45	<0.5	<50	22	190	530	5.36
P385307		3.50	0.066	<0.5	6.92	11	960	0.8	3	9.10	<0.5	<50	27	198	1185	5.55
P385307_PD		<0.02	0.069	<0.5	6.85	10	960	0.8	3	9.04	<0.5	<50	27	202	1155	5.51
P385308		4.34	0.067	<0.5	7.41	14	1120	0.9	3	9.00	<0.5	<50	38	197	1040	6.42
P385308_CD		<0.02	0.217	<0.5	7.35	18	1070	0.9	2	9.23	<0.5	<50	40	198	1085	6.70
P385309		5.40	0.148	0.5	6.65	19	1220	0.9	5	9.37	<0.5	<50	50	190	2610	7.72
P385310		2.84	0.002	<0.5	0.07	<5	40	<0.5	<2	21.2	<0.5	<50	<1	<1	7	0.52
P385311		4.46	0.617	<0.5	6.59	16	1360	0.8	4	9.16	<0.5	<50	44	193	2930	7.60
P385312		5.16	0.074	<0.5	7.34	15	1490	0.9	4	8.72	<0.5	<50	26	199	1075	5.63
P385313		4.96	0.076	<0.5	7.06	14	1310	0.8	3	8.23	<0.5	<50	27	207	1085	5.70
P385314		3.72	0.026	<0.5	7.12	8	1700	0.8	2	7.68	<0.5	<50	29	224	561	5.38
P385314_PB		0.20	0.001	<0.5	0.50	<5	20	<0.5	<2	0.03	<0.5	<50	<1	7	3	0.36
P385315		3.82	0.120	<0.5	7.10	16	1050	0.9	3	8.73	<0.5	<50	25	202	1675	5.07
P385316		3.26	0.383	0.7	7.26	10	820	0.9	5	7.40	<0.5	<50	22	199	3440	5.06
P385317		4.98	0.350	1.0	7.27	11	1090	1.1	3	7.00	<0.5	<50	23	212	4100	5.74
P385318		5.32	0.313	0.7	7.70	5	1420	1.1	<2	9.11	0.5	<50	26	217	3300	6.42
P385319		5.34	0.139	<0.5	7.65	9	1210	1.1	<2	8.50	<0.5	<50	27	219	1180	5.90
P385320		0.14	0.283	2.3	7.78	82	2010	0.7	2	3.48	2.3	<50	26	12	1970	6.47
P385321		5.10	0.159	<0.5	7.57	11	1250	1.0	<2	8.82	<0.5	<50	25	219	1320	5.88
P385322		5.26	0.034	<0.5	7.61	30	680	0.9	<2	9.86	<0.5	<50	21	202	356	5.75
P385323		5.24	0.053	<0.5	7.77	30	550	0.9	<2	9.46	<0.5	<50	24	209	363	5.71
P385324		5.14	0.048	<0.5	7.64	15	760	0.9	<2	9.63	<0.5	<50	30	211	459	5.58
P385325		4.94	0.075	<0.5	7.74	10	1140	1.0	<2	9.36	<0.5	<50	25	216	893	5.43
P385326		5.44	0.311	<0.5	7.69	27	690	1.0	<2	9.00	<0.5	<50	28	214	2480	5.95
P385327		5.18	1.280	2.8	7.52	104	880	0.9	<2	6.84	<0.5	<50	19	235	9670	5.90
P385328		5.22	0.077	<0.5	8.06	9	860	1.0	<2	9.71	<0.5	<50	30	232	888	5.86
P385329		5.12	0.244	<0.5	7.86	7	810	0.9	<2	9.22	<0.5	<50	22	219	823	6.25
P385330		2.52	0.002	<0.5	0.09	<5	40	<0.5	<2	21.7	<0.5	<50	<1	<1	13	0.52
P385331		4.46	0.074	<0.5	7.79	<5	750	0.9	<2	9.56	<0.5	<50	22	216	798	6.14
P385332		5.42	0.075	<0.5	7.72	14	990	0.9	<2	9.66	<0.5	<50	22	219	923	6.25
P385333		5.50	0.074	<0.5	7.72	15	810	0.9	<2	9.49	<0.5	<50	27	215	601	6.01
P385333_PD		<0.02	0.080	<0.5	7.79	14	810	0.9	<2	9.40	<0.5	<50	27	217	595	6.04
P385334		4.80	0.059	<0.5	7.67	16	760	0.9	<2	9.26	<0.5	<50	25	217	516	6.16
P385334_CD		<0.02	0.062	<0.5	7.66	14	780	0.9	<2	9.35	<0.5	<50	27	221	512	6.30

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Ga	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.01	10	10	0.01	5	1	0.01	5	1	10	2	10	0.01	5
P385301		20	1.37	10	10	3.25	1375	1	1.97	<5	141	2280	2	50	1.56	<5
P385302		20	1.82	10	20	4.30	1230	<1	1.85	<5	133	1940	<2	60	0.72	<5
P385303		20	1.49	10	10	3.28	1355	<1	1.76	<5	120	2010	<2	60	0.85	<5
P385304		20	1.35	10	20	3.57	1580	<1	1.75	<5	113	1990	2	60	0.98	<5
P385305		10	1.71	10	20	2.69	1340	<1	1.14	<5	96	1940	2	60	0.52	<5
P385305_PB		<10	0.23	10	<10	0.03	28	<1	0.01	<5	<1	30	<2	10	0.01	<5
P385306		10	1.44	10	20	3.15	1405	<1	1.17	<5	104	1930	<2	60	0.47	<5
P385307		10	1.62	10	20	3.76	1360	<1	1.30	<5	114	2030	<2	60	0.66	<5
P385307_PD		10	1.59	10	20	3.74	1350	1	1.29	<5	113	2020	<2	60	0.66	<5
P385308		20	1.35	10	20	3.16	1470	1	1.76	<5	120	2100	3	50	1.66	<5
P385308_CD		20	1.31	10	20	3.20	1510	<1	1.72	<5	115	2070	3	50	1.75	<5
P385309		20	1.63	10	20	3.41	1460	<1	1.57	<5	137	1880	<2	60	1.60	<5
P385310		<10	0.02	<10	<10	12.60	232	<1	0.01	<5	<1	170	<2	10	0.01	<5
P385311		20	1.73	10	20	3.26	1400	<1	1.52	<5	147	1860	<2	50	1.53	<5
P385312		20	1.73	10	20	3.59	1470	<1	1.83	<5	132	2080	2	60	1.45	<5
P385313		20	1.86	10	20	3.79	1670	<1	1.68	<5	123	1950	<2	60	1.30	<5
P385314		20	1.94	10	20	4.28	1360	<1	1.81	<5	125	1940	<2	60	0.85	<5
P385314_PB		<10	0.22	10	<10	0.03	30	<1	0.01	<5	<1	30	<2	10	0.01	<5
P385315		20	1.67	10	10	3.32	1570	<1	1.78	<5	104	1980	<2	50	1.05	<5
P385316		20	2.17	10	10	3.22	1285	1	2.28	<5	89	2150	2	60	0.65	<5
P385317		20	2.44	10	10	3.02	1290	<1	2.18	<5	113	1990	<2	70	0.81	<5
P385318		20	2.21	10	10	3.39	1605	2	1.76	<5	138	2000	6	50	1.56	<5
P385319		20	2.17	10	10	3.02	1535	2	1.89	<5	126	2060	4	60	1.49	<5
P385320		20	2.19	10	20	0.96	1280	31	2.48	<5	9	880	68	50	1.52	<5
P385321		20	2.16	10	10	3.15	1415	3	1.60	<5	105	2010	3	50	1.44	<5
P385322		20	1.01	10	10	3.42	1570	2	1.21	<5	115	2110	<2	30	0.93	<5
P385323		20	0.99	10	10	3.43	1415	2	1.52	<5	126	2020	2	40	0.69	<5
P385324		20	1.17	10	20	3.44	1320	2	1.65	<5	133	2050	<2	40	1.28	<5
P385325		20	1.82	10	20	3.15	1370	3	1.54	<5	125	2190	2	60	1.42	<5
P385326		20	1.50	10	10	3.67	1340	14	1.52	<5	131	2100	3	60	1.29	<5
P385327		20	3.08	10	10	2.92	1195	2	1.78	<5	105	2010	5	70	0.97	<5
P385328		20	1.50	10	10	3.22	1425	2	1.42	<5	119	2190	3	50	1.57	<5
P385329		20	1.45	10	10	3.07	1450	3	1.45	<5	105	2250	5	40	1.38	<5
P385330		<10	0.03	<10	<10	12.95	251	1	0.01	<5	<1	180	<2	10	<0.01	<5
P385331		20	1.33	10	10	3.08	1495	2	1.24	<5	99	2130	<2	40	1.50	<5
P385332		20	1.55	10	10	2.91	1525	2	1.44	<5	111	2090	7	40	1.97	<5
P385333		20	1.33	10	10	3.13	1480	2	1.63	<5	123	2070	3	40	1.63	<5
P385333_PD		20	1.31	10	10	3.14	1465	2	1.63	<5	121	2080	3	40	1.61	<5
P385334		20	1.22	10	10	3.13	1695	1	1.81	<5	123	2100	2	40	1.65	<5
P385334_CD		20	1.24	10	10	3.21	1745	2	1.81	<5	127	2080	6	40	1.74	<5

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	10	1	10	10	20	0.01	10	10	1	10	10	2	5
P385301		23	<10	<10	669	<10	<10	<20	0.39	<10	<10	269	<10	20	87	57
P385302		22	<10	<10	698	<10	<10	<20	0.38	<10	<10	264	<10	10	69	55
P385303		21	<10	<10	1170	<10	<10	<20	0.38	<10	<10	259	<10	20	69	55
P385304		20	<10	<10	713	<10	<10	<20	0.36	<10	<10	255	<10	10	76	51
P385305		20	<10	<10	1200	<10	<10	<20	0.34	<10	<10	244	<10	10	76	50
P385305_PB		1	<10	<10	11	<10	<10	<20	0.04	<10	<10	5	<10	<10	<2	10
P385306		20	<10	<10	1240	<10	<10	<20	0.35	<10	<10	240	<10	10	68	48
P385307		21	<10	<10	963	<10	<10	<20	0.37	<10	<10	247	<10	10	61	51
P385307_PD		21	<10	<10	955	<10	<10	<20	0.36	<10	<10	247	<10	10	61	50
P385308		22	<10	<10	890	<10	<10	<20	0.38	<10	<10	263	<10	10	49	57
P385308_CD		22	<10	<10	852	<10	<10	<20	0.38	<10	<10	271	<10	10	52	56
P385309		21	<10	<10	686	<10	<10	<20	0.35	<10	<10	274	<10	10	51	48
P385310		<1	<10	<10	54	<10	10	<20	<0.01	<10	<10	3	<10	<10	16	<5
P385311		20	<10	<10	682	<10	<10	<20	0.35	<10	<10	281	<10	10	51	48
P385312		22	<10	<10	657	<10	<10	<20	0.38	<10	<10	266	<10	10	47	52
P385313		21	<10	<10	618	<10	<10	<20	0.37	<10	<10	256	<10	10	58	53
P385314		21	<10	<10	807	<10	<10	<20	0.37	<10	<10	262	<10	10	49	43
P385314_PB		1	<10	<10	8	<10	<10	<20	0.03	<10	<10	5	<10	<10	2	9
P385315		22	10	<10	890	<10	<10	<20	0.37	<10	<10	257	<10	10	58	47
P385316		21	<10	<10	760	<10	<10	<20	0.38	<10	<10	298	<10	10	49	41
P385317		22	10	<10	764	<10	<10	<20	0.37	<10	<10	326	<10	10	61	46
P385318		24	<10	<10	635	<10	<10	<20	0.41	<10	<10	312	<10	20	65	56
P385319		24	10	<10	649	<10	<10	<20	0.39	<10	<10	273	<10	10	68	54
P385320		14	<10	<10	428	<10	<10	<20	0.31	<10	<10	159	<10	10	334	48
P385321		23	10	<10	811	<10	<10	<20	0.39	<10	<10	281	<10	10	61	54
P385322		24	<10	<10	1305	<10	<10	<20	0.39	<10	<10	270	<10	20	68	59
P385323		23	<10	<10	1035	<10	<10	<20	0.38	<10	<10	274	<10	10	63	55
P385324		24	<10	<10	1125	<10	<10	<20	0.39	<10	<10	270	<10	10	58	55
P385325		24	<10	<10	1875	<10	<10	<20	0.41	<10	<10	281	<10	20	56	58
P385326		24	<10	10	1225	<10	<10	<20	0.39	<10	<10	277	<10	10	63	55
P385327		22	20	<10	1050	<10	<10	<20	0.40	<10	<10	405	<10	10	51	42
P385328		25	10	<10	1675	<10	<10	<20	0.42	<10	<10	298	<10	20	60	66
P385329		25	<10	<10	1225	<10	<10	<20	0.40	<10	<10	311	<10	20	62	65
P385330		1	<10	<10	53	<10	<10	<20	<0.01	<10	<10	3	<10	<10	16	<5
P385331		24	10	<10	1425	<10	10	<20	0.39	<10	<10	295	<10	20	65	63
P385332		24	10	<10	1695	<10	<10	<20	0.41	<10	<10	287	<10	20	78	64
P385333		24	<10	<10	1550	<10	<10	<20	0.40	<10	<10	269	<10	20	68	64
P385333_PD		24	10	<10	1560	<10	<10	<20	0.40	<10	<10	265	<10	20	68	63
P385334		24	<10	<10	1005	<10	<10	<20	0.40	<10	<10	276	<10	20	74	63
P385334_CD		24	<10	<10	1050	<10	<10	<20	0.40	<10	<10	282	<10	20	75	65

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method Analyte Units LOR	Cu- OG62 Cu % 0.001
P385301		0.147
P385302		
P385303		0.125
P385304		
P385305		
P385305_PB		
P385306		
P385307		0.111
P385307_PD		0.112
P385308		0.100
P385308_CD		0.103
P385309		0.302
P385310		
P385311		0.273
P385312		0.108
P385313		0.105
P385314		
P385314_PB		
P385315		0.164
P385316		0.327
P385317		0.400
P385318		0.295
P385319		0.109
P385320		0.186
P385321		0.123
P385322		
P385323		
P385324		
P385325		
P385326		0.230
P385327		0.917
P385328		
P385329		
P385330		
P385331		
P385332		
P385333		
P385333_PD		
P385334		
P385334_CD		

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	50	1	1	1	0.01
P385335		4.48	0.060	<0.5	7.66	8	490	0.9	<2	9.46	<0.5	<50	28	232	769	6.06
P385336		5.36	0.053	<0.5	7.71	10	190	0.9	<2	10.05	<0.5	<50	28	215	322	6.40
P385337		5.12	0.146	<0.5	7.54	16	590	0.9	<2	9.40	<0.5	<50	27	210	719	6.07
P385338		3.88	0.129	<0.5	7.64	18	610	0.9	<2	9.63	<0.5	<50	24	212	672	6.18
P385339		5.30	0.231	<0.5	7.89	17	630	0.9	<2	9.66	0.5	<50	33	218	914	4.37
P385340		0.14	0.695	1.2	7.30	88	1440	0.6	3	2.96	0.9	<50	34	11	2660	7.93
P385341		2.36	0.651	1.2	7.50	20	720	0.9	<2	9.40	<0.5	<50	53	211	3380	5.20
P385342		3.86	0.184	<0.5	7.48	20	430	0.9	<2	9.51	<0.5	<50	34	203	962	5.76
P385343		3.52	0.145	<0.5	7.55	9	700	0.9	<2	9.95	<0.5	<50	28	196	1250	6.66
P385344		5.58	0.106	<0.5	7.66	15	450	1.0	<2	11.10	<0.5	<50	29	205	882	6.85
P385345		5.34	0.189	0.8	7.65	13	580	1.1	<2	10.00	0.7	<50	29	219	1905	8.50
P385346		5.26	0.098	<0.5	7.54	9	1150	1.0	<2	8.71	<0.5	<50	21	221	813	9.37
P385347		5.74	0.113	0.5	7.01	18	320	1.0	<2	11.15	<0.5	<50	41	220	1735	8.11
P385348		5.38	0.074	<0.5	6.97	15	280	0.8	<2	12.00	<0.5	<50	24	201	680	7.03
P385349		5.08	0.091	<0.5	7.73	<5	440	1.0	<2	9.01	<0.5	<50	19	224	579	6.09
P385350		3.20	0.002	<0.5	0.06	<5	20	<0.5	<2	21.5	<0.5	<50	<1	<1	3	0.50
P385351		5.22	0.107	<0.5	7.70	11	380	0.9	<2	9.05	<0.5	<50	16	227	637	5.02
P385352		4.74	0.101	<0.5	7.86	6	280	0.8	2	9.53	<0.5	<50	13	209	529	3.57
P385353		2.64	0.034	<0.5	7.70	11	340	0.9	<2	9.39	<0.5	<50	14	212	191	3.50
P385354		4.78	0.030	<0.5	7.73	<5	310	0.9	<2	9.27	<0.5	<50	12	263	296	3.36
P385355		3.16	0.096	<0.5	7.24	9	370	0.9	2	8.85	<0.5	<50	13	260	580	3.99
P385356		5.30	0.020	<0.5	7.28	14	290	0.9	<2	10.45	<0.5	<50	34	218	272	6.81
P385357		4.86	0.062	<0.5	6.84	9	170	0.8	<2	12.00	0.5	<50	38	206	581	8.74
P385358		4.94	0.015	<0.5	7.37	10	170	0.9	<2	11.15	<0.5	<50	37	213	247	6.92
P385359		4.86	0.041	<0.5	7.03	6	200	0.9	<2	10.80	<0.5	<50	25	209	358	7.57
P385360		0.14	0.274	2.2	7.72	84	1970	0.7	4	3.58	2.5	<50	25	13	1920	6.53
P385361		5.06	0.028	<0.5	7.24	18	190	0.9	2	10.90	<0.5	<50	30	205	246	6.92
P385361_PD		<0.02	0.029	<0.5	7.33	13	190	0.9	<2	10.90	<0.5	<50	30	201	248	7.05
P385362		5.30	0.054	<0.5	7.35	13	120	0.9	2	11.10	<0.5	<50	28	217	484	7.20
P385362_CD		<0.02	0.063	<0.5	7.50	15	130	0.9	2	10.80	<0.5	<50	30	207	491	7.05
P385363		4.58	0.040	<0.5	7.47	12	250	0.9	3	10.30	<0.5	<50	36	212	784	6.91
P385364		4.54	0.044	<0.5	7.42	7	190	0.9	<2	10.80	<0.5	<50	47	220	986	7.96
P385365		4.84	0.016	<0.5	7.10	6	220	0.8	<2	10.70	<0.5	<50	30	219	332	8.61
P385366		4.80	0.024	<0.5	7.12	8	200	0.9	2	11.20	<0.5	<50	34	224	353	8.45
P385367		4.84	0.015	<0.5	6.92	9	190	0.9	3	11.05	<0.5	<50	29	229	164	7.91
P385368		4.70	0.139	<0.5	7.26	18	140	0.9	<2	10.60	<0.5	<50	32	238	1190	7.89
P385369		5.16	0.164	<0.5	6.96	10	150	0.8	5	10.25	<0.5	<50	31	221	1290	8.12
P385370		2.98	0.002	<0.5	0.08	<5	20	<0.5	<2	21.4	<0.5	<50	<1	<1	8	0.55
P385371		4.94	0.031	<0.5	7.59	11	280	0.9	3	10.10	<0.5	<50	21	225	638	5.32
P385372		5.24	0.118	<0.5	7.30	11	300	0.9	3	9.93	<0.5	<50	38	217	1155	5.35

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Ga	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.01	10	10	0.01	5	1	0.01	5	1	10	2	10	0.01	5
P385335		20	0.97	10	20	3.39	1765	1	1.74	<5	140	2060	5	30	1.10	<5
P385336		20	0.51	10	10	3.18	1590	2	1.36	<5	124	2110	3	20	1.47	<5
P385337		20	0.95	10	10	2.94	1575	3	1.83	<5	136	2070	4	30	1.65	<5
P385338		20	1.00	10	10	3.07	1645	3	1.88	<5	131	2060	5	30	1.58	<5
P385339		20	1.06	10	20	3.26	1515	2	2.56	<5	128	1990	38	30	1.08	<5
P385340		20	2.06	10	20	1.07	1495	11	2.12	<5	9	830	36	50	1.76	7
P385341		20	1.18	10	10	3.21	1395	2	2.02	<5	217	1910	5	40	1.99	<5
P385342		20	0.76	10	10	3.16	1460	3	1.71	<5	135	2020	5	30	1.83	<5
P385343		10	1.33	10	10	3.05	1945	2	1.36	<5	120	2070	2	40	0.80	<5
P385344		20	0.81	20	10	3.16	2190	2	1.08	<5	116	2350	5	20	1.13	<5
P385345		20	1.01	10	10	3.19	1790	2	1.32	<5	131	2280	15	20	0.93	<5
P385346		20	1.77	10	20	2.93	1660	2	1.59	<5	116	2210	14	40	0.63	<5
P385347		20	0.71	10	10	3.24	2110	<1	1.58	<5	139	2180	6	40	0.66	<5
P385348		20	0.62	10	10	3.01	2090	<1	1.52	<5	141	2080	7	30	0.12	<5
P385349		20	1.28	10	20	3.55	1465	1	2.05	<5	121	2150	33	50	0.07	<5
P385350		<10	0.02	<10	<10	12.75	231	<1	0.01	<5	<1	210	<2	10	0.01	<5
P385351		20	1.01	10	20	3.71	1360	1	2.33	<5	86	2240	7	30	0.07	<5
P385352		20	0.88	10	10	3.67	1160	<1	2.39	<5	56	2450	10	30	0.07	<5
P385353		20	0.99	10	10	3.75	1180	<1	2.43	<5	53	2520	<2	40	0.04	<5
P385354		10	0.91	10	10	3.85	1160	<1	2.55	<5	51	1080	2	40	0.04	<5
P385355		10	0.84	10	20	3.68	1245	<1	2.53	<5	55	910	5	40	0.07	<5
P385356		20	0.46	10	10	3.33	1735	<1	1.92	<5	156	2040	2	20	0.10	<5
P385357		20	0.43	10	10	3.10	2220	<1	1.13	<5	148	1920	2	30	0.16	<5
P385358		20	0.41	10	10	3.29	1740	<1	1.61	<5	160	1970	<2	30	0.20	<5
P385359		20	0.56	10	10	3.15	1970	<1	1.72	<5	164	1900	<2	30	0.19	<5
P385360		20	2.22	10	10	0.95	1265	27	2.40	<5	9	870	63	60	1.50	<5
P385361		20	0.37	10	10	3.04	1955	<1	1.82	<5	163	1990	<2	10	0.11	<5
P385361_PD		20	0.37	10	10	3.10	1950	<1	1.85	<5	161	2020	<2	30	0.11	<5
P385362		20	0.27	10	10	3.07	1735	<1	1.91	<5	164	2040	<2	10	0.14	<5
P385362_CD		20	0.28	10	10	3.01	1675	<1	1.96	<5	164	2060	<2	20	0.16	<5
P385363		20	0.44	10	10	3.20	1675	<1	1.86	<5	169	2070	<2	20	0.22	<5
P385364		20	0.30	10	10	3.39	1805	<1	1.76	<5	202	2020	2	20	0.22	<5
P385365		20	0.34	10	10	3.37	1955	<1	1.66	<5	159	1940	2	20	0.10	<5
P385366		20	0.32	10	10	3.47	2020	<1	1.60	<5	159	1940	<2	20	0.11	<5
P385367		20	0.33	10	10	3.33	1955	<1	1.57	<5	162	1950	<2	20	0.06	<5
P385368		20	0.36	10	10	3.15	1550	<1	1.85	<5	188	2010	2	20	0.17	<5
P385369		20	0.38	10	10	3.47	1590	<1	1.66	<5	216	1910	2	20	0.18	<5
P385370		<10	0.02	<10	<10	12.70	235	<1	0.01	<5	<1	180	5	10	0.01	<5
P385371		20	0.57	10	10	3.41	1490	<1	1.89	<5	159	2100	<2	30	0.10	<5
P385372		20	0.58	10	10	3.71	1340	<1	1.88	<5	259	2180	5	30	0.37	<5

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method Analyte Units LOR	ME-ICP61 Sc ppm 1	ME-ICP61 Se ppm 10	ME-ICP61 Sn ppm 10	ME-ICP61 Sr ppm 1	ME-ICP61 Ta ppm 10	ME-ICP61 Te ppm 10	ME-ICP61 Th ppm 20	ME-ICP61 Ti % 0.01	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Y ppm 10	ME-ICP61 Zn ppm 2	ME-ICP61 Zr ppm 5
P385335		25	<10	<10	956	<10	<10	<20	0.41	<10	<10	273	<10	10	75	63
P385336		25	<10	<10	1230	<10	<10	<20	0.40	<10	<10	282	<10	20	66	63
P385337		23	<10	10	1060	<10	<10	<20	0.38	<10	<10	292	<10	10	54	62
P385338		23	10	<10	1085	<10	<10	<20	0.39	<10	<10	306	<10	10	54	61
P385339		24	<10	<10	807	<10	<10	<20	0.40	<10	<10	260	<10	20	102	61
P385340		16	<10	<10	366	<10	<10	<20	0.31	<10	<10	168	<10	20	177	43
P385341		23	10	<10	1020	<10	<10	<20	0.39	<10	<10	223	<10	10	63	60
P385342		23	<10	10	1690	<10	<10	<20	0.38	<10	<10	275	<10	20	58	61
P385343		21	<10	<10	444	<10	<10	<20	0.37	<10	<10	332	<10	10	68	61
P385344		24	<10	<10	377	<10	<10	<20	0.39	<10	<10	295	<10	20	106	66
P385345		24	<10	<10	358	<10	<10	<20	0.40	<10	<10	315	<10	20	114	60
P385346		23	<10	<10	424	<10	<10	<20	0.39	<10	<10	300	<10	20	108	59
P385347		23	<10	<10	812	<10	<10	<20	0.38	<10	10	282	<10	10	77	62
P385348		21	<10	<10	669	<10	<10	<20	0.36	<10	10	261	<10	10	78	61
P385349		24	<10	<10	697	<10	10	<20	0.40	<10	<10	286	<10	10	67	56
P385350		1	<10	<10	52	<10	10	<20	<0.01	<10	<10	2	<10	<10	18	<5
P385351		25	<10	<10	477	<10	<10	<20	0.40	<10	<10	246	<10	20	64	47
P385352		25	<10	<10	459	<10	<10	<20	0.40	<10	<10	198	<10	10	65	42
P385353		25	<10	<10	645	<10	<10	<20	0.39	<10	<10	189	<10	20	57	44
P385354		32	<10	<10	681	<10	<10	<20	0.41	<10	<10	179	<10	20	58	42
P385355		28	<10	<10	542	<10	<10	<20	0.40	<10	<10	201	<10	10	63	38
P385356		22	10	<10	1145	<10	<10	<20	0.38	<10	<10	274	<10	20	75	61
P385357		22	<10	<10	1135	<10	<10	<20	0.35	<10	<10	275	<10	10	83	59
P385358		22	<10	<10	1160	<10	<10	<20	0.37	<10	<10	240	<10	10	77	62
P385359		19	<10	<10	976	<10	<10	<20	0.37	<10	<10	261	<10	10	92	61
P385360		13	<10	<10	418	<10	<10	<20	0.31	<10	<10	160	<10	10	341	47
P385361		20	10	10	913	<10	<10	<20	0.37	<10	<10	251	<10	10	83	62
P385361_PD		20	<10	<10	932	<10	<10	<20	0.36	<10	<10	253	<10	20	82	62
P385362		21	<10	10	559	<10	<10	<20	0.38	<10	<10	255	<10	10	81	61
P385362_CD		20	<10	10	615	<10	<10	<20	0.38	<10	<10	250	<10	10	78	60
P385363		21	<10	<10	1205	<10	<10	<20	0.38	<10	<10	260	<10	20	79	61
P385364		23	<10	<10	1125	<10	<10	<20	0.38	<10	<10	255	<10	10	94	59
P385365		22	10	<10	1080	<10	<10	<20	0.37	10	<10	267	<10	20	76	58
P385366		23	<10	<10	1025	<10	<10	<20	0.38	10	<10	261	<10	20	81	60
P385367		22	<10	10	1110	<10	<10	<20	0.38	<10	<10	276	<10	20	81	59
P385368		23	<10	10	694	<10	<10	<20	0.38	<10	<10	266	<10	10	83	57
P385369		22	<10	<10	968	<10	<10	<20	0.37	<10	<10	281	<10	10	89	50
P385370		<1	<10	<10	52	<10	<10	<20	<0.01	<10	<10	3	<10	<10	17	<5
P385371		23	<10	<10	1235	<10	<10	<20	0.40	<10	<10	237	<10	10	72	54
P385372		22	<10	10	994	<10	<10	<20	0.38	<10	<10	224	<10	10	63	53

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method Analyte Units LOR	Cu- OG62 Cu % 0.001
P385335		
P385336		
P385337		
P385338		
P385339		
P385340		0.259
P385341		0.309
P385342		
P385343		0.116
P385344		
P385345		0.170
P385346		
P385347		0.166
P385348		
P385349		
P385350		
P385351		
P385352		
P385353		
P385354		
P385355		
P385356		
P385357		
P385358		
P385359		
P385360		0.181
P385361		
P385361_PD		
P385362		
P385362_CD		
P385363		
P385364		
P385365		
P385366		
P385367		
P385368		0.107
P385369		0.120
P385370		
P385371		
P385372		0.104

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Ce ppm 50	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
P385373		5.12	0.069	<0.5	7.35	16	240	0.9	<2	10.65	<0.5	<50	29	233	1015	6.01
P385374		4.78	0.060	<0.5	7.50	11	250	0.9	2	10.40	<0.5	<50	35	236	783	5.54
P385375		4.94	0.063	<0.5	7.62	8	200	0.9	4	10.55	<0.5	<50	30	236	785	5.86
P385376		4.96	0.190	<0.5	7.14	13	230	0.9	<2	10.35	<0.5	<50	25	240	1220	5.68
P385377		4.72	0.074	<0.5	7.55	8	220	0.8	<2	10.90	<0.5	<50	23	235	1480	4.83
P385378		5.06	0.067	<0.5	7.48	13	210	0.8	<2	10.50	<0.5	<50	23	232	1250	4.86
P385379		5.04	0.069	<0.5	7.62	13	220	0.8	<2	10.25	<0.5	<50	30	221	1515	4.99
P385380		0.14	0.686	1.2	7.30	94	1280	0.6	4	3.11	0.9	<50	34	12	2610	8.08
P385381		5.24	0.043	<0.5	7.10	15	270	0.9	<2	9.67	<0.5	<50	53	242	942	6.10
P385382		4.92	0.065	<0.5	7.13	12	230	0.9	<2	10.05	<0.5	<50	35	234	807	6.02
P385383		5.18	0.088	<0.5	7.38	22	210	0.9	2	10.30	<0.5	<50	38	226	1420	5.40
P385384		2.48	0.069	<0.5	7.40	20	240	0.8	<2	10.10	<0.5	<50	37	213	1415	5.48
P385385		3.58	0.145	<0.5	7.37	23	230	0.9	<2	9.89	<0.5	<50	33	226	1870	5.64
P385385_PD		<0.02	0.154	0.6	7.50	23	250	1.0	3	10.35	<0.5	<50	36	267	1920	5.77
P385386		3.54	0.014	<0.5	8.49	6	440	1.0	<2	7.30	<0.5	<50	12	15	155	4.86
P385386_CD		<0.02	0.022	<0.5	8.39	6	330	1.0	<2	8.08	<0.5	<50	12	13	136	4.61
P385387		4.10	0.074	<0.5	7.96	9	670	0.9	<2	5.31	<0.5	<50	22	40	828	5.33
P385388		2.56	0.111	<0.5	7.92	18	290	1.0	<2	10.55	<0.5	<50	46	278	929	6.86
P385389		4.48	0.043	<0.5	8.74	10	590	1.0	2	7.63	<0.5	<50	18	47	387	4.28
P385390		3.04	0.001	<0.5	0.12	<5	40	<0.5	<2	21.5	<0.5	<50	1	<1	2	0.56
P385391		3.10	0.073	<0.5	7.26	36	180	1.0	<2	11.45	<0.5	<50	49	266	1290	6.02
P385392		5.04	0.045	<0.5	7.34	23	300	0.9	2	10.65	<0.5	<50	84	246	1095	5.96
P385393		5.36	0.017	<0.5	7.74	19	280	1.0	3	11.40	<0.5	<50	22	255	285	5.40
P385394		4.94	0.023	<0.5	7.67	12	490	1.0	<2	12.35	<0.5	<50	46	244	621	5.65
P385395		4.58	0.020	<0.5	7.81	15	700	1.0	<2	12.00	<0.5	<50	40	252	595	5.87
P385396		5.20	0.020	<0.5	7.47	8	1400	1.0	<2	10.20	<0.5	<50	37	266	479	6.59
P385397		5.50	0.030	<0.5	7.28	10	640	1.0	<2	10.25	<0.5	<50	47	258	578	6.82
P385398		5.38	0.021	<0.5	7.53	<5	1640	1.0	<2	9.74	0.6	<50	36	266	469	6.69
P385399		2.82	0.020	<0.5	7.84	10	430	1.0	<2	11.30	<0.5	<50	36	245	400	6.37
P385400		0.12	0.287	2.9	7.87	92	2170	0.7	<2	3.55	2.5	<50	28	14	2020	6.67

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method Analyte Units LOR	ME- ICP61 Ga ppm 10	ME- ICP61 K % 0.01	ME- ICP61 La ppm 10	ME- ICP61 Li ppm 10	ME- ICP61 Mg % 0.01	ME- ICP61 Mn ppm 5	ME- ICP61 Mo ppm 1	ME- ICP61 Na % 0.01	ME- ICP61 Nb ppm 5	ME- ICP61 Ni ppm 1	ME- ICP61 P ppm 10	ME- ICP61 Pb ppm 2	ME- ICP61 Rb ppm 10	ME- ICP61 S % 0.01	ME- ICP61 Sb ppm 5
P385373		20	0.36	10	10	3.53	1460	<1	1.90	<5	269	2310	<2	30	0.14	<5
P385374		20	0.48	10	10	3.72	1415	<1	1.92	<5	191	2250	2	30	0.22	<5
P385375		20	0.50	10	10	3.85	1425	<1	1.89	<5	171	2180	<2	30	0.15	<5
P385376		10	0.52	10	10	3.67	1385	<1	1.87	<5	193	2250	<2	30	0.17	<5
P385377		20	0.41	10	10	3.72	1400	<1	1.82	<5	249	2240	4	20	0.24	<5
P385378		10	0.41	10	10	3.57	1330	<1	1.91	<5	299	2120	<2	20	0.20	<5
P385379		20	0.35	10	10	3.53	1250	<1	2.03	<5	247	2110	2	20	0.29	<5
P385380		20	2.13	10	20	1.08	1495	8	2.09	<5	9	830	32	60	1.72	6
P385381		10	0.41	10	10	3.64	1390	<1	2.30	<5	185	2090	<2	30	0.42	<5
P385382		20	0.52	10	10	3.58	1400	<1	2.05	<5	212	2010	<2	30	0.17	<5
P385383		20	0.53	10	10	3.55	1345	<1	2.05	<5	201	2070	6	30	0.25	<5
P385384		10	0.50	10	10	3.61	1380	<1	1.78	<5	198	2300	<2	30	0.21	<5
P385385		20	0.58	10	10	3.44	1355	<1	2.06	<5	167	2270	2	30	0.28	<5
P385385_PD		10	0.57	10	10	3.65	1395	1	2.12	<5	172	2490	2	30	0.29	<5
P385386		20	0.89	10	10	1.56	769	1	3.42	<5	10	2050	<2	20	0.06	<5
P385386_CD		20	0.64	10	10	1.40	694	2	2.93	<5	8	1890	<2	20	0.06	<5
P385387		20	1.36	10	10	1.83	898	1	3.81	<5	45	1960	3	30	0.18	<5
P385388		20	0.59	10	10	3.17	1405	2	1.96	<5	147	1790	<2	30	0.27	<5
P385389		20	1.17	10	10	1.86	929	1	3.41	<5	27	1910	3	30	0.13	<5
P385390		<10	0.03	<10	<10	13.60	235	<1	0.02	<5	<1	180	<2	10	0.01	<5
P385391		20	0.51	10	10	3.65	1535	<1	1.93	<5	129	2100	3	30	0.32	<5
P385392		20	0.50	10	10	3.71	1360	1	2.04	<5	216	2130	5	30	0.56	<5
P385393		20	0.33	10	10	3.70	1395	1	2.14	<5	89	2240	<2	30	0.14	<5
P385394		20	0.47	10	10	3.68	1310	6	1.36	<5	154	2180	<2	30	1.25	<5
P385395		20	0.63	10	10	3.98	1335	3	1.52	<5	157	2330	<2	30	1.21	<5
P385396		20	1.44	10	20	4.09	1335	2	1.45	<5	164	2200	<2	50	1.25	<5
P385397		20	0.86	10	10	3.95	1335	1	1.95	<5	185	2110	<2	40	1.57	<5
P385398		20	1.59	10	20	3.89	1380	1	1.84	<5	167	2190	12	50	1.05	<5
P385399		20	0.66	10	10	3.72	1225	1	1.52	<5	156	2140	2	20	1.31	<5
P385400		20	2.23	10	20	1.01	1320	30	2.50	<5	9	940	70	70	1.56	8

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method Analyte Units LOR	ME- ICP61 Sc ppm 1	ME- ICP61 Se ppm 10	ME- ICP61 Sn ppm 10	ME- ICP61 Sr ppm 1	ME- ICP61 Ta ppm 10	ME- ICP61 Te ppm 10	ME- ICP61 Th ppm 20	ME- ICP61 Ti % 0.01	ME- ICP61 Tl ppm 10	ME- ICP61 U ppm 10	ME- ICP61 V ppm 1	ME- ICP61 W ppm 10	ME- ICP61 Y ppm 10	ME- ICP61 Zn ppm 2	ME- ICP61 Zr ppm 5
P385373		23	<10	10	521	<10	<10	<20	0.39	<10	<10	230	<10	20	78	51
P385374		23	<10	<10	782	<10	<10	<20	0.39	<10	<10	221	<10	20	68	49
P385375		24	<10	<10	725	<10	<10	<20	0.40	<10	<10	222	<10	10	70	53
P385376		22	<10	10	1000	<10	<10	<20	0.39	<10	<10	222	<10	20	75	49
P385377		23	<10	10	715	<10	<10	<20	0.40	<10	<10	199	<10	10	78	50
P385378		23	<10	10	615	<10	<10	<20	0.39	<10	<10	203	<10	10	70	51
P385379		23	<10	<10	401	<10	<10	<20	0.38	<10	<10	220	<10	10	67	52
P385380		16	<10	10	362	<10	<10	<20	0.31	<10	<10	171	<10	20	186	42
P385381		22	<10	<10	551	<10	<10	<20	0.38	<10	<10	290	<10	10	65	52
P385382		22	<10	10	791	<10	<10	<20	0.38	<10	<10	241	<10	10	62	51
P385383		22	<10	<10	833	<10	<10	<20	0.39	<10	<10	221	<10	10	72	54
P385384		22	<10	10	1505	<10	<10	<20	0.38	<10	<10	188	<10	10	74	49
P385385		22	<10	10	1075	<10	<10	<20	0.39	<10	<10	218	<10	10	72	53
P385385_PD		24	<10	<10	1160	<10	<10	<20	0.41	<10	<10	223	<10	20	76	54
P385386		12	<10	<10	386	<10	<10	<20	0.49	<10	<10	203	10	20	43	68
P385386_CD		12	<10	<10	276	<10	<10	<20	0.46	<10	<10	192	10	20	40	63
P385387		12	<10	<10	582	<10	<10	<20	0.47	<10	<10	213	<10	20	54	63
P385388		21	10	<10	1020	<10	<10	<20	0.45	<10	<10	316	<10	20	55	60
P385389		15	<10	<10	676	<10	<10	<20	0.46	<10	<10	197	<10	20	44	62
P385390		<1	<10	<10	57	<10	10	<20	0.01	<10	<10	4	<10	<10	18	<5
P385391		23	<10	<10	910	<10	10	<20	0.41	<10	<10	297	<10	20	61	58
P385392		23	<10	<10	656	<10	<10	<20	0.39	<10	<10	275	<10	10	48	60
P385393		24	<10	<10	490	<10	<10	<20	0.42	<10	<10	317	<10	20	52	60
P385394		22	<10	<10	312	<10	<10	<20	0.40	<10	<10	275	<10	10	60	62
P385395		25	<10	<10	323	<10	<10	<20	0.42	<10	<10	285	<10	20	59	66
P385396		26	<10	<10	663	<10	<10	<20	0.43	<10	<10	292	<10	20	66	68
P385397		23	<10	<10	693	<10	<10	<20	0.40	<10	<10	268	<10	10	67	62
P385398		24	10	<10	727	<10	<10	<20	0.42	<10	<10	281	<10	20	128	65
P385399		24	<10	<10	403	<10	<10	<20	0.41	<10	<10	277	<10	10	76	64
P385400		14	<10	<10	455	<10	<10	<20	0.33	<10	<10	166	<10	10	357	50

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 30- NOV- 2012
Account: GOFICA

Project: RedGold

CERTIFICATE OF ANALYSIS VA12273900

Sample Description	Method Analyte Units LOR	Cu- OG62 Cu % 0.001
P385373		0.091
P385374		
P385375		
P385376		0.110
P385377		0.141
P385378		0.122
P385379		0.149
P385380		0.256
P385381		
P385382		
P385383		0.134
P385384		0.137
P385385		0.178
P385385_PD		0.187
P385386		
P385386_CD		
P385387		
P385388		
P385389		
P385390		
P385391		0.124
P385392		0.104
P385393		
P385394		
P385395		
P385396		
P385397		
P385398		
P385399		
P385400		0.193

Comments: ***Corrected copy with Project name Woodjam North corrected to RedGold***

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4-JAN-2013
Account: GOFICA

CERTIFICATE VA13001830

Project: Red Gold

P.O. No.: RG-2012-011c

This report is for 190 Crushed Core samples submitted to our lab in Vancouver, BC, Canada on 2-JAN-2013.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL	NATE BREWER	MATT ECKFELDT
JULIANNE MADSEN	AMELIA RAINBOW	ROSS SHERLOCK
TWILA SKINNER	TIM STUBLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WSH-22	"Wash" pulverizers
SPL-21d	Split sample - duplicate
PUL-32d	Pulverize Split - Dup 85% < 75um
LOG-21d	Sample logging - ClientBarCode Dup
LOG-23	Pulp Login - Rcvd with Barcode
SPL-34	Pulp Splitting Charge
WEI-25	Wt. of Crushed Reject
BAG-01	Bulk Master for Storage
LOG-22	Sample login - Rcd w/o BarCode
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- JAN- 2013
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA13001830

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P385228		0.011	1.140
P385229		0.005	1.060
P385230		0.001	1.540
P385231		0.006	2.10
P385232		0.012	2.86
P385233		0.042	2.76
P385234		0.038	0.780
P385235		0.016	2.50
P385236		0.011	1.520
P385237		0.008	3.32
P385238		0.006	3.14
P385239		0.019	3.20
P385240		0.325	
P385241		0.025	3.22
P385242		0.026	3.36
P385243		0.007	3.34
P385244		0.014	3.28
P385245		0.011	3.70
P385245_PB		0.001	
P385246		0.007	3.24
P385247		0.014	3.36
P385248		0.031	3.48
P385249		0.045	3.52
P385250		<0.001	1.420
P385251		0.014	3.44
P385252		0.020	3.42
P385253		0.012	3.38
P385254		0.019	3.32
P385255		0.026	2.82
P385255_PD		0.022	
P385256		0.012	1.880
P385256_CD		0.011	
P385257		0.007	3.40
P385258		0.015	3.40
P385259		0.017	3.48
P385260		0.729	
P385261		0.664	3.52
P385262		1.120	3.58
P385263		0.107	3.42
P385264		0.016	3.56

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4-JAN-2013
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA13001830

Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm 0.001	WEI-25 Reject W kg 0.001
P385265		0.024	3.62
P385265_PB		0.001	
P385266		0.008	3.76
P385267		0.009	1.380
P385268		0.009	2.60
P385269		0.014	4.46
P385270		0.002	1.720
P385271		0.036	3.96
P385272		0.014	3.52
P385273		0.026	3.94
P385274		0.046	3.68
P385275		0.025	4.06
P385276		0.025	3.44
P385277		0.052	3.96
P385278		0.066	4.06
P385279		0.114	3.82
P385280		0.289	
P385281		0.060	3.62
P385281_PD		0.056	
P385282		0.048	0.020
P385282_CD		0.038	
P385283		0.053	0.800
P385284		0.088	1.540
P385285		0.063	3.12
P385285_PB		<0.001	
P385286		0.048	3.04
P385287		0.065	3.52
P385288		0.093	3.66
P385289		0.170	3.34
P385290		0.001	1.240
P385291		0.040	3.98
P385292		0.056	3.76
P385293		0.039	3.62
P385294		0.030	3.66
P385295		0.122	3.66
P385296		0.036	3.76
P385297		0.051	3.68
P385298		0.046	3.44
P385299		0.088	3.22
P385300		0.677	

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- JAN- 2013
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA13001830

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P385301		0.110	2.46
P385302		0.035	2.50
P385303		0.094	3.64
P385304		0.063	3.22
P385305		0.035	2.88
P385305_PB		0.001	
P385306		0.036	2.48
P385307		0.074	2.08
P385307_PD		0.063	
P385308		0.052	1.660
P385308_CD		0.048	
P385309		0.142	3.84
P385310		0.001	1.480
P385311		0.194	2.92
P385312		0.051	3.58
P385313		0.060	3.26
P385314		0.026	2.18
P385314_PB		0.001	
P385315		0.115	2.28
P385316		0.372	1.820
P385317		0.308	3.30
P385318		0.294	3.72
P385319		0.147	3.76
P385320		0.323	
P385321		0.182	3.56
P385322		0.054	3.66
P385323		0.039	3.64
P385324		0.042	3.56
P385325		0.074	3.36
P385326		0.416	3.92
P385327		1.225	3.64
P385328		0.071	3.46
P385329		0.187	3.58
P385330		0.001	1.180
P385331		0.088	2.82
P385332		0.079	3.98
P385333		0.072	3.84
P385333_PD		0.084	
P385334		0.064	2.08
P385334_CD		0.055	

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- JAN- 2013
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA13001830

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P385335		0.055	3.14
P385336		0.064	3.94
P385337		0.119	3.74
P385338		0.184	2.56
P385339		0.272	3.96
P385340		0.699	
P385341		0.656	1.040
P385342		0.184	2.50
P385343		0.201	2.16
P385344		0.086	4.18
P385345		0.194	3.94
P385346		0.082	3.88
P385347		0.141	4.38
P385348		0.069	3.88
P385349		0.091	3.66
P385350		0.001	2.18
P385351		0.094	3.78
P385352		0.095	3.44
P385353		0.031	1.360
P385354		0.066	3.56
P385355		0.063	1.820
P385356		0.016	3.92
P385357		0.052	3.52
P385358		0.018	3.66
P385359		0.022	3.52
P385360		0.276	
P385361		0.024	3.70
P385361_PD		0.029	
P385362		0.060	2.64
P385362_CD		0.053	
P385363		0.041	3.28
P385364		0.046	3.26
P385365		0.022	3.52
P385366		0.025	3.48
P385367		0.012	3.44
P385368		0.160	3.36
P385369		0.193	3.74
P385370		0.002	1.840
P385371		0.039	3.66
P385372		0.072	3.82

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- JAN- 2013
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA13001830

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P385373		0.060	3.68
P385374		0.064	3.40
P385375		0.071	3.50
P385376		0.123	3.56
P385377		0.080	3.44
P385378		0.068	3.62
P385379		0.075	3.68
P385380		0.706	
P385381		0.039	3.76
P385382		0.031	3.48
P385383		0.090	3.70
P385384		0.066	1.120
P385385		0.095	2.18
P385385_PD		0.112	
P385386		0.014	0.540
P385386_CD		0.015	
P385387		0.097	2.76
P385388		0.132	1.200
P385389		0.042	3.16
P385390		0.002	1.460
P385391		0.066	1.760
P385392		0.055	3.58
P385393		0.020	3.86
P385394		0.025	3.50
P385395		0.028	3.16
P385396		0.021	3.76
P385397		0.023	4.08
P385398		0.029	3.94
P385399		0.021	1.360
P385400		0.289	

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4-JAN-2013
Account: GOFICA

CERTIFICATE VA13001830

Project: Red Gold

P.O. No.: RG-2012-011c

This report is for 190 Crushed Core samples submitted to our lab in Vancouver, BC, Canada on 2-JAN-2013.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL	NATE BREWER	MATT ECKFELDT
JULIANNE MADSEN	AMELIA RAINBOW	ROSS SHERLOCK
TWILA SKINNER	TIM STUBLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WSH-22	"Wash" pulverizers
SPL-21d	Split sample - duplicate
PUL-32d	Pulverize Split - Dup 85% < 75um
LOG-21d	Sample logging - ClientBarCode Dup
LOG-23	Pulp Login - Rcvd with Barcode
SPL-34	Pulp Splitting Charge
WEI-25	Wt. of Crushed Reject
BAG-01	Bulk Master for Storage
LOG-22	Sample login - Rcd w/o BarCode
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- JAN- 2013
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA13001830

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P385228		0.011	1.140
P385229		0.005	1.060
P385230		0.001	1.540
P385231		0.006	2.10
P385232		0.012	2.86
P385233		0.042	2.76
P385234		0.038	0.780
P385235		0.016	2.50
P385236		0.011	1.520
P385237		0.008	3.32
P385238		0.006	3.14
P385239		0.019	3.20
P385240		0.325	
P385241		0.025	3.22
P385242		0.026	3.36
P385243		0.007	3.34
P385244		0.014	3.28
P385245		0.011	3.70
P385245_PB		0.001	
P385246		0.007	3.24
P385247		0.014	3.36
P385248		0.031	3.48
P385249		0.045	3.52
P385250		<0.001	1.420
P385251		0.014	3.44
P385252		0.020	3.42
P385253		0.012	3.38
P385254		0.019	3.32
P385255		0.026	2.82
P385255_PD		0.022	
P385256		0.012	1.880
P385256_CD		0.011	
P385257		0.007	3.40
P385258		0.015	3.40
P385259		0.017	3.48
P385260		0.729	
P385261		0.664	3.52
P385262		1.120	3.58
P385263		0.107	3.42
P385264		0.016	3.56

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- JAN- 2013
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA13001830

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P385265		0.024	3.62
P385265_PB		0.001	
P385266		0.008	3.76
P385267		0.009	1.380
P385268		0.009	2.60
P385269		0.014	4.46
P385270		0.002	1.720
P385271		0.036	3.96
P385272		0.014	3.52
P385273		0.026	3.94
P385274		0.046	3.68
P385275		0.025	4.06
P385276		0.025	3.44
P385277		0.052	3.96
P385278		0.066	4.06
P385279		0.114	3.82
P385280		0.289	
P385281		0.060	3.62
P385281_PD		0.056	
P385282		0.048	0.020
P385282_CD		0.038	
P385283		0.053	0.800
P385284		0.088	1.540
P385285		0.063	3.12
P385285_PB		<0.001	
P385286		0.048	3.04
P385287		0.065	3.52
P385288		0.093	3.66
P385289		0.170	3.34
P385290		0.001	1.240
P385291		0.040	3.98
P385292		0.056	3.76
P385293		0.039	3.62
P385294		0.030	3.66
P385295		0.122	3.66
P385296		0.036	3.76
P385297		0.051	3.68
P385298		0.046	3.44
P385299		0.088	3.22
P385300		0.677	

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- JAN- 2013
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA13001830

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P385301		0.110	2.46
P385302		0.035	2.50
P385303		0.094	3.64
P385304		0.063	3.22
P385305		0.035	2.88
P385305_PB		0.001	
P385306		0.036	2.48
P385307		0.074	2.08
P385307_PD		0.063	
P385308		0.052	1.660
P385308_CD		0.048	
P385309		0.142	3.84
P385310		0.001	1.480
P385311		0.194	2.92
P385312		0.051	3.58
P385313		0.060	3.26
P385314		0.026	2.18
P385314_PB		0.001	
P385315		0.115	2.28
P385316		0.372	1.820
P385317		0.308	3.30
P385318		0.294	3.72
P385319		0.147	3.76
P385320		0.323	
P385321		0.182	3.56
P385322		0.054	3.66
P385323		0.039	3.64
P385324		0.042	3.56
P385325		0.074	3.36
P385326		0.416	3.92
P385327		1.225	3.64
P385328		0.071	3.46
P385329		0.187	3.58
P385330		0.001	1.180
P385331		0.088	2.82
P385332		0.079	3.98
P385333		0.072	3.84
P385333_PD		0.084	
P385334		0.064	2.08
P385334_CD		0.055	

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- JAN- 2013
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA13001830

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P385335		0.055	3.14
P385336		0.064	3.94
P385337		0.119	3.74
P385338		0.184	2.56
P385339		0.272	3.96
P385340		0.699	
P385341		0.656	1.040
P385342		0.184	2.50
P385343		0.201	2.16
P385344		0.086	4.18
P385345		0.194	3.94
P385346		0.082	3.88
P385347		0.141	4.38
P385348		0.069	3.88
P385349		0.091	3.66
P385350		0.001	2.18
P385351		0.094	3.78
P385352		0.095	3.44
P385353		0.031	1.360
P385354		0.066	3.56
P385355		0.063	1.820
P385356		0.016	3.92
P385357		0.052	3.52
P385358		0.018	3.66
P385359		0.022	3.52
P385360		0.276	
P385361		0.024	3.70
P385361_PD		0.029	
P385362		0.060	2.64
P385362_CD		0.053	
P385363		0.041	3.28
P385364		0.046	3.26
P385365		0.022	3.52
P385366		0.025	3.48
P385367		0.012	3.44
P385368		0.160	3.36
P385369		0.193	3.74
P385370		0.002	1.840
P385371		0.039	3.66
P385372		0.072	3.82

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- JAN- 2013
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA13001830

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P385373		0.060	3.68
P385374		0.064	3.40
P385375		0.071	3.50
P385376		0.123	3.56
P385377		0.080	3.44
P385378		0.068	3.62
P385379		0.075	3.68
P385380		0.706	
P385381		0.039	3.76
P385382		0.031	3.48
P385383		0.090	3.70
P385384		0.066	1.120
P385385		0.095	2.18
P385385_PD		0.112	
P385386		0.014	0.540
P385386_CD		0.015	
P385387		0.097	2.76
P385388		0.132	1.200
P385389		0.042	3.16
P385390		0.002	1.460
P385391		0.066	1.760
P385392		0.055	3.58
P385393		0.020	3.86
P385394		0.025	3.50
P385395		0.028	3.16
P385396		0.021	3.76
P385397		0.023	4.08
P385398		0.029	3.94
P385399		0.021	1.360
P385400		0.289	

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4-JAN-2013
Account: GOFICA

CERTIFICATE VA13001830

Project: Red Gold

P.O. No.: RG-2012-011c

This report is for 190 Crushed Core samples submitted to our lab in Vancouver, BC, Canada on 2-JAN-2013.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL	NATE BREWER	MATT ECKFELDT
JULIANNE MADSEN	AMELIA RAINBOW	ROSS SHERLOCK
TWILA SKINNER	TIM STUBLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WSH-22	"Wash" pulverizers
SPL-21d	Split sample - duplicate
PUL-32d	Pulverize Split - Dup 85% < 75um
LOG-21d	Sample logging - ClientBarCode Dup
LOG-23	Pulp Login - Rcvd with Barcode
SPL-34	Pulp Splitting Charge
WEI-25	Wt. of Crushed Reject
BAG-01	Bulk Master for Storage
LOG-22	Sample login - Rcd w/o BarCode
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- JAN- 2013
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA13001830

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P385228		0.011	1.140
P385229		0.005	1.060
P385230		0.001	1.540
P385231		0.006	2.10
P385232		0.012	2.86
P385233		0.042	2.76
P385234		0.038	0.780
P385235		0.016	2.50
P385236		0.011	1.520
P385237		0.008	3.32
P385238		0.006	3.14
P385239		0.019	3.20
P385240		0.325	
P385241		0.025	3.22
P385242		0.026	3.36
P385243		0.007	3.34
P385244		0.014	3.28
P385245		0.011	3.70
P385245_PB		0.001	
P385246		0.007	3.24
P385247		0.014	3.36
P385248		0.031	3.48
P385249		0.045	3.52
P385250		<0.001	1.420
P385251		0.014	3.44
P385252		0.020	3.42
P385253		0.012	3.38
P385254		0.019	3.32
P385255		0.026	2.82
P385255_PD		0.022	
P385256		0.012	1.880
P385256_CD		0.011	
P385257		0.007	3.40
P385258		0.015	3.40
P385259		0.017	3.48
P385260		0.729	
P385261		0.664	3.52
P385262		1.120	3.58
P385263		0.107	3.42
P385264		0.016	3.56

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4-JAN-2013
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA13001830

Sample Description	Method / Analyte / Units / LOR	Au-ICP21 Au ppm 0.001	WEI-25 Reject W kg 0.001
P385265		0.024	3.62
P385265_PB		0.001	
P385266		0.008	3.76
P385267		0.009	1.380
P385268		0.009	2.60
P385269		0.014	4.46
P385270		0.002	1.720
P385271		0.036	3.96
P385272		0.014	3.52
P385273		0.026	3.94
P385274		0.046	3.68
P385275		0.025	4.06
P385276		0.025	3.44
P385277		0.052	3.96
P385278		0.066	4.06
P385279		0.114	3.82
P385280		0.289	
P385281		0.060	3.62
P385281_PD		0.056	
P385282		0.048	0.020
P385282_CD		0.038	
P385283		0.053	0.800
P385284		0.088	1.540
P385285		0.063	3.12
P385285_PB		<0.001	
P385286		0.048	3.04
P385287		0.065	3.52
P385288		0.093	3.66
P385289		0.170	3.34
P385290		0.001	1.240
P385291		0.040	3.98
P385292		0.056	3.76
P385293		0.039	3.62
P385294		0.030	3.66
P385295		0.122	3.66
P385296		0.036	3.76
P385297		0.051	3.68
P385298		0.046	3.44
P385299		0.088	3.22
P385300		0.677	

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- JAN- 2013
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA13001830

Sample Description	Method / Analyte / Units / LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P385301		0.110	2.46
P385302		0.035	2.50
P385303		0.094	3.64
P385304		0.063	3.22
P385305		0.035	2.88
P385305_PB		0.001	
P385306		0.036	2.48
P385307		0.074	2.08
P385307_PD		0.063	
P385308		0.052	1.660
P385308_CD		0.048	
P385309		0.142	3.84
P385310		0.001	1.480
P385311		0.194	2.92
P385312		0.051	3.58
P385313		0.060	3.26
P385314		0.026	2.18
P385314_PB		0.001	
P385315		0.115	2.28
P385316		0.372	1.820
P385317		0.308	3.30
P385318		0.294	3.72
P385319		0.147	3.76
P385320		0.323	
P385321		0.182	3.56
P385322		0.054	3.66
P385323		0.039	3.64
P385324		0.042	3.56
P385325		0.074	3.36
P385326		0.416	3.92
P385327		1.225	3.64
P385328		0.071	3.46
P385329		0.187	3.58
P385330		0.001	1.180
P385331		0.088	2.82
P385332		0.079	3.98
P385333		0.072	3.84
P385333_PD		0.084	
P385334		0.064	2.08
P385334_CD		0.055	

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4-JAN-2013
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA13001830

Sample Description	Method / Analyte / Units / LOR	Au-ICP21 Au ppm 0.001	WEI-25 Reject W kg 0.001
P385335		0.055	3.14
P385336		0.064	3.94
P385337		0.119	3.74
P385338		0.184	2.56
P385339		0.272	3.96
P385340		0.699	
P385341		0.656	1.040
P385342		0.184	2.50
P385343		0.201	2.16
P385344		0.086	4.18
P385345		0.194	3.94
P385346		0.082	3.88
P385347		0.141	4.38
P385348		0.069	3.88
P385349		0.091	3.66
P385350		0.001	2.18
P385351		0.094	3.78
P385352		0.095	3.44
P385353		0.031	1.360
P385354		0.066	3.56
P385355		0.063	1.820
P385356		0.016	3.92
P385357		0.052	3.52
P385358		0.018	3.66
P385359		0.022	3.52
P385360		0.276	
P385361		0.024	3.70
P385361_PD		0.029	
P385362		0.060	2.64
P385362_CD		0.053	
P385363		0.041	3.28
P385364		0.046	3.26
P385365		0.022	3.52
P385366		0.025	3.48
P385367		0.012	3.44
P385368		0.160	3.36
P385369		0.193	3.74
P385370		0.002	1.840
P385371		0.039	3.66
P385372		0.072	3.82

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 4- JAN- 2013
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA13001830

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P385373		0.060	3.68
P385374		0.064	3.40
P385375		0.071	3.50
P385376		0.123	3.56
P385377		0.080	3.44
P385378		0.068	3.62
P385379		0.075	3.68
P385380		0.706	
P385381		0.039	3.76
P385382		0.031	3.48
P385383		0.090	3.70
P385384		0.066	1.120
P385385		0.095	2.18
P385385_PD		0.112	
P385386		0.014	0.540
P385386_CD		0.015	
P385387		0.097	2.76
P385388		0.132	1.200
P385389		0.042	3.16
P385390		0.002	1.460
P385391		0.066	1.760
P385392		0.055	3.58
P385393		0.020	3.86
P385394		0.025	3.50
P385395		0.028	3.16
P385396		0.021	3.76
P385397		0.023	4.08
P385398		0.029	3.94
P385399		0.021	1.360
P385400		0.289	

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

CERTIFICATE VA12279959

Project: Red Gold

P.O. No.: RG- 2012- 012c

This report is for 132 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 27- NOV- 2012.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL	NATE BREWER	MATT ECKFELDT
JULIANNE MADSEN	AMELIA RAINBOW	ROSS SHERLOCK
TWILA SKINNER	TIM STUBLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
SPL- 34	Pulp Splitting Charge
LOG- 21	Sample logging - ClientBarCode
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
LOG- 21d	Sample logging - ClientBarCode Dup
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP61	33 element four acid ICP- AES	ICP- AES
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Cu- OG62	Ore Grade Cu - Four Acid	VARIABLE

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12279959

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	50	1	1	1	0.01
P385401		3.64	0.056	<0.5	7.95	16	1130	0.7	<2	2.79	<0.5	<50	14	14	1010	4.07
P385402		4.66	0.040	<0.5	7.01	11	1170	0.8	<2	3.31	<0.5	<50	8	7	461	3.87
P385403		4.36	0.399	0.5	6.70	11	980	0.7	<2	3.91	<0.5	<50	10	9	1840	3.43
P385404		4.52	0.046	<0.5	7.60	26	1540	0.7	<2	4.49	<0.5	<50	35	8	775	3.87
P385405		4.66	0.079	<0.5	7.23	19	1030	0.7	<2	3.46	<0.5	<50	14	9	1015	3.00
P385406		4.64	0.033	<0.5	7.74	18	980	0.6	<2	3.12	<0.5	<50	13	9	829	4.05
P385407		3.74	0.018	<0.5	7.41	18	1020	0.6	<2	3.75	<0.5	<50	9	10	263	4.21
P385408		4.56	0.131	<0.5	7.48	16	1100	0.6	<2	3.37	<0.5	<50	8	12	431	4.29
P385409		4.66	0.051	<0.5	7.42	17	1050	0.7	<2	2.94	<0.5	<50	7	10	520	3.77
P385410		2.68	0.001	<0.5	0.09	<5	30	<0.5	<2	21.0	<0.5	<50	1	<1	6	0.51
P385411		4.42	0.077	<0.5	7.39	20	980	0.9	<2	3.96	<0.5	<50	17	122	1110	4.95
P385412		4.66	0.034	<0.5	7.61	16	1090	0.7	<2	4.18	<0.5	<50	10	36	229	4.59
P385413		4.04	0.022	<0.5	7.56	13	1080	0.8	4	5.11	<0.5	<50	12	93	306	4.12
P385414		4.54	0.076	<0.5	7.76	14	860	0.9	2	5.26	<0.5	<50	25	184	1005	5.36
P385415		4.98	0.056	<0.5	7.52	16	1000	1.0	2	5.17	<0.5	<50	27	232	680	5.20
P385416		4.24	0.039	<0.5	7.49	10	910	1.0	<2	3.97	<0.5	<50	17	183	351	4.06
P385417		4.36	0.024	<0.5	8.56	10	950	0.6	<2	4.20	<0.5	<50	11	12	447	4.76
P385418		4.78	0.031	<0.5	8.48	13	920	0.6	3	3.89	<0.5	<50	14	14	431	5.04
P385419		4.08	0.058	<0.5	7.57	7	960	1.0	<2	4.09	<0.5	<50	12	106	420	3.58
P385420		0.14	0.688	1.5	7.32	82	1360	0.6	3	3.21	0.8	<50	36	12	2730	8.41
P385421		3.70	0.059	<0.5	7.37	10	1070	0.8	<2	4.11	<0.5	<50	15	70	545	4.25
P385422		4.52	0.049	<0.5	7.33	19	870	0.9	<2	4.13	<0.5	<50	12	71	506	4.40
P385423		4.06	0.021	<0.5	7.09	<5	990	1.1	<2	3.41	<0.5	<50	15	146	242	3.21
P385424		4.48	0.035	<0.5	7.28	8	1040	1.1	<2	3.85	<0.5	<50	19	227	491	3.84
P385424_PD		<0.02	0.039	<0.5	7.18	12	1000	1.1	<2	3.71	<0.5	<50	19	230	480	3.72
P385425		4.70	0.021	<0.5	7.51	8	1240	1.1	<2	3.25	<0.5	<50	12	133	267	3.04
P385425_CD		<0.02	0.017	<0.5	7.24	5	1190	1.0	<2	3.23	<0.5	<50	12	128	273	2.92
P385426		4.52	0.071	<0.5	7.34	13	1190	1.2	<2	3.33	<0.5	<50	12	118	640	3.15
P385427		4.28	0.056	<0.5	7.53	12	1260	1.1	<2	3.18	<0.5	<50	12	114	539	3.09
P385428		1.44	0.063	<0.5	7.03	9	930	1.2	<2	3.66	<0.5	<50	13	146	642	2.88
P385429		3.08	0.021	<0.5	7.03	7	880	0.9	<2	3.52	<0.5	<50	12	92	207	3.57
P385430		3.84	0.001	<0.5	0.07	<5	20	<0.5	<2	21.6	<0.5	<50	<1	<1	4	0.53
P385431		4.12	0.030	<0.5	8.03	13	800	0.6	<2	3.88	<0.5	<50	16	15	422	4.86
P385432		4.18	0.025	<0.5	8.36	21	810	0.6	<2	4.12	<0.5	<50	11	14	283	5.13
P385433		4.62	0.042	<0.5	8.57	28	1090	0.6	<2	4.18	<0.5	<50	17	17	253	4.83
P385434		4.52	0.035	<0.5	8.63	21	930	0.6	<2	4.82	<0.5	<50	20	18	474	4.46
P385435		4.22	0.066	<0.5	8.29	17	1170	0.6	<2	5.36	<0.5	<50	12	18	506	4.32
P385436		4.20	0.032	<0.5	7.96	11	1270	0.6	<2	5.24	<0.5	<50	12	11	391	3.60
P385437		3.96	0.036	<0.5	7.99	17	1130	0.7	<2	5.67	<0.5	<50	12	11	369	4.16
P385438		4.88	0.014	<0.5	7.99	20	1090	0.7	4	5.57	<0.5	<50	18	46	147	5.90

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12279959

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Ga	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.01	10	10	0.01	5	1	0.01	5	1	10	2	10	0.01	5
P385401		20	3.25	10	10	1.53	447	<1	3.39	<5	5	920	<2	50	0.80	<5
P385402		20	4.26	10	10	1.74	514	<1	3.20	<5	6	1030	<2	50	0.10	<5
P385403		20	4.09	10	10	2.07	552	<1	2.86	<5	10	1060	<2	50	0.23	<5
P385404		20	2.86	10	10	2.33	471	4	3.17	<5	5	1460	<2	50	1.18	<5
P385405		20	2.66	<10	10	1.45	424	1	3.76	<5	3	920	<2	30	0.41	<5
P385406		20	2.44	10	10	1.44	496	<1	3.74	<5	5	1020	<2	30	0.53	<5
P385407		20	2.35	<10	10	1.31	463	<1	3.77	<5	3	950	<2	40	0.23	<5
P385408		20	2.58	10	10	1.45	479	1	3.86	<5	4	970	<2	40	0.11	<5
P385409		20	2.98	10	10	1.34	464	<1	3.68	<5	6	930	<2	50	0.14	<5
P385410		<10	0.03	<10	<10	12.55	215	<1	0.02	<5	<1	230	<2	10	<0.01	<5
P385411		20	3.04	10	10	2.49	801	<1	3.34	<5	65	1060	2	40	0.27	<5
P385412		20	2.03	10	10	1.90	671	<1	3.79	<5	20	1070	<2	30	0.05	<5
P385413		20	1.95	10	10	2.01	830	<1	3.59	<5	51	1350	<2	30	0.11	7
P385414		20	2.31	10	10	3.09	948	<1	3.10	<5	99	1320	<2	50	0.70	<5
P385415		20	2.38	10	10	3.73	877	1	2.82	<5	130	1390	<2	50	0.47	5
P385416		20	3.10	10	10	3.36	799	<1	3.12	<5	100	1090	<2	60	0.05	<5
P385417		20	1.53	10	10	1.85	654	<1	3.90	<5	7	1080	<2	30	0.53	<5
P385418		20	1.59	10	10	1.90	642	<1	4.11	<5	5	1010	<2	40	0.50	5
P385419		20	3.66	10	<10	2.36	758	<1	3.16	<5	57	1000	<2	70	0.06	<5
P385420		20	2.20	10	20	1.14	1560	11	2.28	<5	10	910	35	50	1.84	12
P385421		20	2.96	10	<10	2.02	776	<1	3.34	<5	37	1060	2	50	0.16	<5
P385422		20	2.68	10	<10	1.87	750	<1	3.53	<5	40	1040	<2	40	0.08	<5
P385423		20	4.42	10	<10	2.59	789	<1	2.91	<5	88	960	<2	60	0.03	<5
P385424		20	4.19	10	10	3.47	923	<1	2.54	<5	136	1120	2	80	0.07	<5
P385424_PD		20	4.22	10	10	3.37	890	<1	2.50	<5	131	1050	<2	70	0.07	<5
P385425		20	5.67	10	10	2.13	637	<1	2.28	<5	65	900	<2	90	0.03	<5
P385425_CD		20	5.38	10	10	2.10	621	<1	2.20	<5	65	880	<2	90	0.04	<5
P385426		20	4.73	10	10	1.89	611	1	2.76	<5	63	1130	2	70	0.09	<5
P385427		20	4.69	10	10	1.88	581	1	2.69	<5	64	1110	<2	80	0.08	<5
P385428		20	3.96	10	<10	2.21	684	<1	3.15	<5	96	960	<2	60	0.07	<5
P385429		20	2.82	10	<10	2.00	668	<1	3.66	<5	51	1030	<2	40	0.03	<5
P385430		<10	0.04	<10	<10	13.45	224	<1	0.01	<5	<1	260	2	10	<0.01	7
P385431		20	1.32	<10	<10	1.81	672	<1	4.01	<5	3	1000	<2	30	0.35	<5
P385432		20	1.37	10	<10	2.11	671	<1	3.88	<5	5	1010	<2	30	0.05	<5
P385433		20	1.60	10	10	2.26	739	<1	3.89	<5	3	1050	<2	30	0.55	<5
P385434		20	1.67	10	10	2.09	709	<1	3.62	<5	7	1040	<2	40	0.22	<5
P385435		20	1.60	10	10	2.04	867	<1	3.69	<5	6	1020	<2	30	0.59	<5
P385436		20	2.04	10	10	1.88	751	<1	3.37	<5	4	950	<2	40	0.35	<5
P385437		20	1.80	<10	10	1.68	748	1	3.25	<5	4	990	<2	40	0.33	<5
P385438		20	1.46	10	10	3.01	884	<1	2.66	<5	21	1410	<2	40	0.28	5

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12279959

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 Sc ppm 1	ME-ICP61 Se ppm 10	ME-ICP61 Sn ppm 10	ME-ICP61 Sr ppm 1	ME-ICP61 Ta ppm 10	ME-ICP61 Te ppm 10	ME-ICP61 Th ppm 20	ME-ICP61 Ti % 0.01	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Y ppm 10	ME-ICP61 Zn ppm 2	ME-ICP61 Zr ppm 5
P385401		12	<10	<10	601	<10	<10	<20	0.30	<10	<10	162	<10	10	18	27
P385402		9	<10	<10	536	<10	<10	<20	0.30	<10	<10	183	<10	10	17	34
P385403		8	<10	<10	500	<10	<10	<20	0.27	<10	<10	162	<10	10	19	30
P385404		13	<10	<10	731	<10	<10	<20	0.36	<10	<10	173	<10	20	13	33
P385405		10	<10	<10	524	<10	<10	<20	0.28	<10	<10	140	<10	10	14	23
P385406		12	<10	<10	669	<10	<10	<20	0.32	<10	<10	152	<10	10	15	27
P385407		11	<10	<10	754	<10	<10	<20	0.31	<10	<10	134	<10	10	16	24
P385408		12	<10	<10	582	<10	<10	<20	0.31	<10	<10	132	<10	10	12	24
P385409		11	<10	<10	511	<10	<10	<20	0.28	<10	<10	133	<10	10	16	24
P385410		<1	<10	<10	52	<10	<10	<20	<0.01	<10	<10	3	<10	<10	15	<5
P385411		14	<10	<10	521	<10	<10	<20	0.33	<10	<10	202	<10	10	26	28
P385412		12	<10	<10	712	<10	<10	<20	0.32	<10	<10	164	<10	10	20	29
P385413		13	<10	<10	643	<10	<10	<20	0.29	<10	10	163	<10	10	23	30
P385414		19	<10	<10	519	<10	10	<20	0.34	<10	10	218	<10	20	31	33
P385415		22	<10	<10	569	<10	10	<20	0.33	<10	<10	227	<10	10	32	30
P385416		19	<10	<10	387	<10	<10	<20	0.30	<10	<10	194	<10	10	32	25
P385417		15	<10	<10	744	<10	<10	<20	0.33	<10	<10	166	<10	10	23	19
P385418		16	<10	<10	839	<10	<10	<20	0.32	<10	10	158	<10	10	19	21
P385419		15	<10	<10	375	<10	<10	<20	0.28	<10	<10	188	<10	10	25	24
P385420		16	<10	<10	390	<10	10	<20	0.33	<10	10	175	<10	10	194	43
P385421		14	<10	<10	542	<10	10	<20	0.29	<10	<10	189	<10	10	29	23
P385422		13	<10	<10	602	<10	10	<20	0.29	<10	<10	170	<10	10	26	23
P385423		14	<10	<10	288	<10	10	<20	0.26	<10	10	189	<10	10	28	26
P385424		17	<10	<10	325	<10	<10	<20	0.28	<10	10	200	<10	10	38	28
P385424_PD		17	<10	<10	314	<10	<10	<20	0.28	<10	<10	198	<10	10	37	25
P385425		13	<10	<10	309	<10	<10	<20	0.25	<10	<10	198	<10	10	23	28
P385425_CD		13	<10	<10	298	<10	<10	<20	0.24	<10	<10	192	<10	10	23	26
P385426		12	<10	<10	387	<10	<10	<20	0.28	<10	<10	203	<10	10	27	28
P385427		12	<10	<10	404	<10	<10	<20	0.27	<10	<10	192	<10	10	24	26
P385428		12	<10	<10	266	<10	<10	<20	0.26	<10	<10	161	<10	10	24	24
P385429		12	<10	<10	427	<10	<10	<20	0.28	<10	10	166	<10	10	23	26
P385430		<1	<10	<10	51	<10	10	<20	<0.01	<10	<10	3	<10	<10	15	<5
P385431		13	<10	<10	624	<10	<10	<20	0.30	<10	<10	145	<10	10	19	19
P385432		14	<10	<10	647	<10	10	<20	0.33	<10	<10	159	<10	10	17	20
P385433		15	<10	<10	803	<10	<10	<20	0.34	<10	<10	171	<10	10	20	19
P385434		15	<10	<10	623	<10	<10	<20	0.31	<10	10	156	<10	10	21	19
P385435		14	<10	<10	998	<10	10	<20	0.31	<10	<10	158	<10	10	20	16
P385436		13	<10	<10	640	<10	10	<20	0.28	<10	<10	137	<10	10	19	16
P385437		13	<10	<10	623	<10	10	<20	0.29	<10	10	144	<10	10	18	17
P385438		25	<10	<10	1060	<10	<10	<20	0.45	<10	10	224	<10	20	36	20

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12279959

Sample Description	Method Analyte Units LOR	Cu-OG62 Cu % 0.001
P385401		0.102
P385402		
P385403		0.187
P385404		
P385405		0.102
P385406		
P385407		
P385408		
P385409		
P385410		
P385411		0.110
P385412		
P385413		
P385414		0.098
P385415		
P385416		
P385417		
P385418		
P385419		
P385420		0.263
P385421		
P385422		
P385423		
P385424		
P385424_PD		
P385425		
P385425_CD		
P385426		
P385427		
P385428		
P385429		
P385430		
P385431		
P385432		
P385433		
P385434		
P385435		
P385436		
P385437		
P385438		

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12279959

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	50	1	1	1	0.01
P385439		4.76	0.015	<0.5	7.77	35	890	0.7	<2	6.44	<0.5	<50	24	53	159	6.16
P385440		0.14	0.324	2.5	7.17	69	1590	0.6	2	3.45	2.3	<50	25	13	1865	6.40
P385441		3.90	0.010	<0.5	8.23	17	1890	0.6	2	6.80	<0.5	<50	9	10	241	3.69
P385442		4.64	0.025	<0.5	8.36	18	1170	0.7	<2	7.20	<0.5	<50	10	8	472	2.91
P385443		4.54	0.004	<0.5	8.54	20	460	0.6	2	6.42	<0.5	<50	3	12	33	1.40
P385444		5.20	0.009	<0.5	8.73	30	840	0.8	<2	5.82	<0.5	<50	8	19	91	2.17
P385445		3.90	0.019	<0.5	9.01	30	1000	0.7	<2	5.22	<0.5	<50	25	15	199	4.49
P385446		4.50	0.012	<0.5	7.86	24	950	0.6	<2	6.47	<0.5	<50	13	12	117	3.56
P385446_PD		<0.02	0.011	<0.5	7.74	23	970	0.6	<2	6.72	<0.5	<50	15	13	123	3.70
P385447		4.40	0.015	<0.5	7.62	39	1030	0.6	<2	5.13	<0.5	<50	14	14	110	4.27
P385447_CD		<0.02	0.020	<0.5	7.69	44	1040	0.6	<2	5.16	<0.5	<50	16	14	123	4.23
P385448		4.80	0.011	<0.5	7.66	31	1580	0.6	<2	4.90	<0.5	<50	13	19	62	3.96
P385449		4.48	0.033	<0.5	7.82	34	1340	0.6	<2	5.05	<0.5	<50	16	13	192	4.16
P385450		3.54	0.001	<0.5	0.08	<5	30	<0.5	<2	21.0	<0.5	<50	1	<1	<1	0.49
P385451		3.68	0.011	<0.5	7.70	36	1190	0.8	<2	4.56	<0.5	<50	19	25	97	4.84
P385452		3.12	0.003	<0.5	8.07	17	1070	0.7	<2	3.95	<0.5	<50	11	21	13	5.16
P385453		4.94	0.003	<0.5	8.21	24	690	0.6	<2	4.18	<0.5	<50	10	11	11	5.39
P385454		4.40	0.003	<0.5	7.87	24	530	0.5	<2	4.43	<0.5	<50	11	13	6	4.86
P385455		4.30	0.002	<0.5	8.10	22	540	0.5	<2	4.71	<0.5	<50	11	10	4	5.03
P385456		4.92	0.003	<0.5	8.15	26	600	0.6	<2	4.71	<0.5	<50	12	10	24	5.01
P385457		5.12	0.008	<0.5	7.93	19	610	0.6	<2	4.02	<0.5	<50	11	16	39	4.40
P385458		4.62	0.021	<0.5	7.67	24	860	0.6	<2	4.66	<0.5	<50	22	16	320	3.64
P385459		3.38	0.020	<0.5	8.08	25	1000	0.6	<2	4.69	<0.5	<50	28	13	333	4.59
P385460		0.14	0.679	1.4	6.69	75	1500	0.6	<2	3.02	0.7	<50	34	12	2690	7.89
P385461		3.56	0.038	<0.5	7.38	22	1240	0.6	<2	4.16	<0.5	<50	15	17	319	4.48
P385462		2.42	0.029	<0.5	7.19	21	1060	0.7	<2	4.36	<0.5	<50	11	13	211	3.75
P385463		4.12	0.029	<0.5	8.15	20	630	0.5	<2	5.37	<0.5	<50	16	19	161	5.56
P385464		4.84	0.032	<0.5	8.48	18	700	0.5	<2	5.55	<0.5	<50	13	15	149	5.77
P385465		2.30	0.060	<0.5	8.20	27	780	0.6	<2	4.75	<0.5	<50	14	18	326	5.35
P385466		4.26	0.004	<0.5	8.09	28	610	0.6	<2	4.87	<0.5	<50	14	20	28	5.37
P385467		5.20	0.030	<0.5	7.42	36	1350	0.7	<2	5.64	<0.5	<50	24	42	208	6.00
P385468		3.00	0.022	<0.5	7.50	54	1220	0.7	<2	5.71	<0.5	<50	19	45	165	5.80
P385468_PD		<0.02	0.024	<0.5	7.41	55	1250	0.7	<2	5.85	<0.5	<50	19	44	164	5.76
P385469		4.38	0.064	<0.5	7.80	42	730	0.6	<2	6.96	<0.5	<50	40	22	1045	5.56
P385469_CD		<0.02	0.082	<0.5	7.80	40	700	0.6	<2	6.84	<0.5	<50	37	21	963	5.35
P385470		3.54	0.001	<0.5	0.08	<5	80	<0.5	<2	21.0	<0.5	<50	1	<1	2	0.49
P385471		4.98	0.006	<0.5	8.08	15	840	0.5	<2	4.43	<0.5	<50	10	14	22	4.61
P385472		5.02	0.024	<0.5	7.57	18	700	0.5	<2	4.40	<0.5	<50	11	18	70	5.03
P385473		4.62	0.055	<0.5	7.70	36	620	0.6	<2	4.90	<0.5	<50	26	26	428	5.12
P385474		5.14	0.024	<0.5	7.52	50	800	0.6	<2	5.48	<0.5	<50	19	19	166	4.76

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12279959

Sample Description	Method Analyte Units LOR	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01	ME-ICP61 La ppm 10	ME-ICP61 Li ppm 10	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Nb ppm 5	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 Rb ppm 10	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5
P385439		20	1.34	10	20	3.44	1015	<1	2.07	<5	28	1350	<2	30	0.27	5
P385440		20	2.14	10	20	0.94	1230	28	2.48	<5	9	910	65	50	1.47	<5
P385441		20	2.89	10	10	1.73	883	<1	2.41	<5	2	900	<2	50	0.32	<5
P385442		20	1.83	10	<10	1.76	990	5	3.35	<5	2	940	<2	30	0.35	6
P385443		20	1.20	<10	10	1.62	777	<1	4.34	<5	1	840	<2	20	0.04	<5
P385444		20	1.64	10	10	1.73	728	<1	3.90	<5	6	1180	<2	30	0.33	5
P385445		20	1.82	10	10	2.01	691	<1	3.77	<5	6	1140	2	30	1.15	<5
P385446		20	1.44	10	10	1.60	884	<1	3.20	<5	3	980	2	20	0.35	<5
P385446_PD		20	1.52	<10	<10	1.62	910	<1	3.25	<5	7	960	3	20	0.39	<5
P385447		20	1.63	<10	<10	1.48	742	3	3.74	<5	8	980	2	20	0.24	<5
P385447_CD		20	1.63	<10	10	1.52	753	3	3.47	<5	8	990	<2	20	0.31	<5
P385448		20	2.34	<10	10	1.52	770	<1	3.31	<5	8	980	3	30	0.23	<5
P385449		20	2.23	<10	10	1.43	706	18	3.23	<5	6	980	2	30	0.32	<5
P385450		<10	0.03	<10	<10	12.60	213	<1	0.01	<5	<1	190	<2	<10	<0.01	<5
P385451		20	1.92	10	10	1.73	724	1	3.25	<5	12	1370	<2	30	0.46	<5
P385452		20	2.20	10	10	1.94	790	<1	3.71	<5	9	1180	<2	50	0.06	<5
P385453		20	1.94	<10	10	1.91	698	<1	3.35	<5	7	1040	<2	40	0.02	<5
P385454		20	1.26	<10	10	1.76	672	<1	3.21	<5	6	930	2	20	<0.01	<5
P385455		20	1.29	<10	10	1.83	700	<1	3.16	<5	4	930	<2	20	<0.01	<5
P385456		20	1.34	<10	10	1.82	722	<1	3.10	<5	5	930	<2	30	0.02	<5
P385457		20	1.92	<10	10	1.60	615	<1	3.62	<5	4	900	<2	40	0.02	<5
P385458		20	2.60	<10	10	1.47	617	<1	3.63	<5	5	920	2	50	0.39	5
P385459		20	2.16	<10	<10	1.71	688	<1	3.67	<5	5	930	<2	40	0.44	<5
P385460		20	2.18	<10	20	1.05	1460	10	2.13	<5	8	830	35	40	1.77	11
P385461		20	3.82	<10	10	1.49	528	<1	3.11	<5	8	920	<2	60	0.08	<5
P385462		20	3.71	<10	10	1.28	465	<1	3.33	<5	10	960	<2	50	0.04	<5
P385463		20	1.81	<10	10	2.09	816	<1	3.07	<5	10	1010	<2	30	0.12	<5
P385464		20	1.42	<10	10	2.07	793	<1	2.93	<5	9	1110	<2	20	0.06	<5
P385465		20	2.85	10	10	1.87	731	<1	2.60	<5	8	1000	<2	70	0.09	7
P385466		20	2.09	<10	10	1.93	722	<1	2.86	<5	10	1020	<2	40	0.03	<5
P385467		20	2.35	10	10	2.85	1030	<1	2.46	<5	23	1480	<2	40	0.25	5
P385468		20	2.47	10	20	2.79	913	<1	2.46	<5	22	1350	<2	50	0.15	<5
P385468_PD		20	2.47	10	10	2.84	937	<1	2.52	<5	23	1400	<2	50	0.15	<5
P385469		20	2.13	10	10	2.40	1075	1	2.62	<5	17	1020	<2	50	1.14	<5
P385469_CD		20	2.13	10	10	2.38	1070	<1	2.64	<5	15	1000	<2	50	1.01	5
P385470		<10	0.02	<10	<10	12.65	199	<1	0.02	<5	1	560	<2	<10	<0.01	<5
P385471		20	2.19	<10	<10	1.60	621	<1	3.46	<5	11	960	2	40	0.02	<5
P385472		20	2.30	<10	<10	1.66	689	<1	3.32	<5	11	1010	<2	30	0.04	<5
P385473		20	1.89	<10	10	1.85	708	2	3.38	<5	14	1010	<2	30	0.36	<5
P385474		20	1.72	<10	10	1.79	712	<1	3.60	<5	11	1000	<2	30	0.19	<5

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12279959

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 Sc ppm 1	ME-ICP61 Se ppm 10	ME-ICP61 Sn ppm 10	ME-ICP61 Sr ppm 1	ME-ICP61 Ta ppm 10	ME-ICP61 Te ppm 10	ME-ICP61 Th ppm 20	ME-ICP61 Ti % 0.01	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Y ppm 10	ME-ICP61 Zn ppm 2	ME-ICP61 Zr ppm 5
P385439		28	<10	<10	478	<10	10	<20	0.49	<10	10	239	<10	20	32	17
P385440		13	<10	<10	426	<10	10	<20	0.29	<10	10	151	<10	10	330	44
P385441		13	<10	<10	551	<10	<10	<20	0.28	<10	<10	145	<10	10	26	20
P385442		13	<10	<10	898	<10	10	<20	0.30	<10	10	128	<10	10	30	19
P385443		13	<10	<10	916	<10	10	<20	0.34	<10	<10	134	<10	10	26	22
P385444		12	<10	<10	974	<10	<10	<20	0.32	<10	<10	143	<10	10	33	33
P385445		15	<10	<10	887	<10	10	<20	0.33	<10	<10	162	<10	10	29	22
P385446		13	<10	<10	712	<10	10	<20	0.30	<10	<10	146	<10	10	28	15
P385446_PD		13	<10	<10	733	<10	<10	<20	0.32	<10	<10	155	<10	10	30	18
P385447		12	<10	<10	811	<10	<10	<20	0.33	<10	<10	157	<10	10	26	19
P385447_CD		13	<10	<10	809	<10	<10	<20	0.32	<10	<10	155	<10	10	26	19
P385448		12	<10	<10	818	<10	<10	<20	0.31	<10	<10	149	<10	10	29	19
P385449		12	<10	<10	641	<10	<10	<20	0.31	<10	<10	149	<10	10	30	18
P385450		<1	<10	<10	52	<10	<10	<20	<0.01	<10	<10	3	<10	<10	14	<5
P385451		14	<10	<10	841	<10	<10	<20	0.40	<10	<10	187	<10	20	31	26
P385452		15	<10	<10	808	<10	<10	<20	0.38	<10	<10	182	<10	20	29	26
P385453		13	<10	<10	798	<10	<10	<20	0.33	<10	<10	165	<10	10	31	22
P385454		13	<10	<10	789	<10	<10	<20	0.30	<10	<10	149	<10	10	26	18
P385455		14	<10	<10	839	<10	<10	<20	0.31	<10	<10	154	<10	10	26	19
P385456		13	<10	<10	797	<10	<10	<20	0.32	<10	<10	158	<10	10	25	19
P385457		12	<10	<10	697	<10	<10	<20	0.30	<10	<10	149	<10	10	22	23
P385458		11	<10	<10	791	<10	<10	<20	0.30	<10	<10	149	<10	10	24	21
P385459		13	<10	<10	815	<10	<10	<20	0.33	<10	<10	169	<10	10	22	18
P385460		15	<10	<10	373	<10	<10	<20	0.32	<10	<10	169	<10	10	183	44
P385461		12	<10	<10	668	<10	<10	<20	0.31	<10	<10	167	<10	10	19	21
P385462		11	<10	<10	614	<10	<10	<20	0.28	<10	<10	143	<10	10	17	23
P385463		17	<10	<10	730	<10	<10	<20	0.36	<10	<10	198	<10	10	27	17
P385464		19	<10	<10	699	<10	<10	<20	0.37	<10	<10	200	<10	10	29	19
P385465		17	<10	<10	777	<10	<10	<20	0.34	<10	<10	186	<10	10	27	19
P385466		18	<10	<10	751	<10	<10	<20	0.35	<10	<10	189	<10	10	26	20
P385467		22	<10	<10	810	<10	<10	<20	0.51	<10	<10	239	<10	20	38	21
P385468		24	<10	<10	652	<10	<10	<20	0.50	<10	<10	230	<10	20	35	23
P385468_PD		24	<10	<10	671	<10	<10	<20	0.50	<10	<10	234	<10	20	37	22
P385469		17	<10	<10	1005	<10	<10	<20	0.35	<10	<10	171	<10	20	30	19
P385469_CD		17	<10	<10	1015	<10	<10	<20	0.35	<10	<10	169	<10	20	28	19
P385470		<1	<10	<10	52	<10	<10	<20	<0.01	<10	<10	3	<10	<10	14	<5
P385471		13	<10	<10	783	<10	<10	<20	0.30	<10	<10	151	<10	10	21	19
P385472		13	<10	<10	782	<10	<10	<20	0.32	<10	<10	159	<10	10	23	19
P385473		15	<10	<10	843	<10	<10	<20	0.34	<10	<10	171	<10	10	25	21
P385474		14	<10	<10	764	<10	10	<20	0.34	<10	<10	171	<10	10	21	19

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12279959

Sample Description	Method Analyte Units LOR	Cu- OG62 Cu % 0.001
P385439 P385440 P385441 P385442 P385443		0.190
P385444 P385445 P385446 P385446_PD P385447		
P385447_CD P385448 P385449 P385450 P385451		
P385452 P385453 P385454 P385455 P385456		
P385457 P385458 P385459 P385460 P385461		0.262
P385462 P385463 P385464 P385465 P385466		
P385467 P385468 P385468_PD P385469 P385469_CD		0.102
P385470 P385471 P385472 P385473 P385474		

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12279959

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Ce ppm 50	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
P385475		5.18	0.009	<0.5	7.90	22	1130	0.6	<2	5.53	<0.5	<50	13	30	77	4.70
P385476		4.70	0.007	<0.5	7.67	32	1480	0.5	<2	5.09	<0.5	<50	10	23	44	4.88
P385477		2.74	0.012	<0.5	8.04	40	1270	0.6	<2	6.90	<0.5	<50	14	15	180	5.15
P385478		5.54	0.107	<0.5	7.07	57	950	<0.5	<2	8.75	<0.5	<50	87	23	1700	11.20
P385479		5.08	0.076	<0.5	7.90	33	1150	0.5	<2	7.87	<0.5	<50	33	44	539	6.26
P385480		0.16	0.316	2.7	7.72	86	2130	0.7	4	3.64	2.6	<50	26	13	1975	6.64
P385481		4.96	0.051	<0.5	8.05	26	1590	0.7	<2	6.65	<0.5	<50	29	143	381	4.21
P385482		4.62	0.052	<0.5	8.61	27	1340	0.7	<2	7.24	<0.5	<50	25	194	262	4.63
P385483		4.20	0.025	<0.5	8.87	25	1460	0.7	<2	7.12	<0.5	<50	22	182	170	4.48
P385484		2.52	0.032	<0.5	6.56	25	300	0.6	3	10.85	<0.5	<50	19	133	275	4.50
P385485		4.72	0.021	<0.5	8.15	27	1320	0.7	<2	7.36	<0.5	<50	22	265	174	4.45
P385486		4.14	0.028	<0.5	8.51	29	1650	0.7	5	7.56	<0.5	<50	22	214	260	4.58
P385487		3.20	0.024	<0.5	7.97	30	800	0.6	2	7.80	<0.5	<50	66	163	549	6.01
P385488		5.16	0.014	<0.5	7.88	19	1190	0.6	<2	6.13	<0.5	<50	21	178	124	4.24
P385489		5.26	0.016	<0.5	8.19	35	970	0.6	<2	6.30	<0.5	<50	23	163	124	5.07
P385490		3.82	0.001	<0.5	0.07	5	20	<0.5	3	22.4	<0.5	<50	1	<1	2	0.55
P385491		4.48	0.012	<0.5	8.06	23	1190	0.6	<2	5.57	<0.5	<50	21	188	86	4.84
P385491_PD		<0.02	0.014	<0.5	7.92	22	1180	0.6	<2	5.46	<0.5	<50	20	176	86	4.76
P385492		5.08	0.004	<0.5	7.58	21	930	0.6	<2	5.24	<0.5	<50	16	171	23	5.23
P385492_CD		<0.02	0.009	<0.5	7.87	14	930	0.6	<2	5.17	<0.5	<50	15	171	23	5.38
P385493		4.72	0.004	<0.5	7.12	29	990	0.7	<2	5.24	<0.5	<50	12	202	19	5.28
P385494		4.90	0.003	<0.5	7.77	23	730	0.6	<2	5.54	<0.5	<50	15	196	11	5.95
P385495		5.04	0.006	<0.5	7.73	32	840	0.6	<2	6.11	<0.5	<50	20	182	46	5.47
P385496		5.02	0.024	<0.5	7.56	23	1110	0.5	<2	6.01	<0.5	<50	20	188	147	4.95
P385497		5.04	0.059	<0.5	7.67	40	1180	0.6	<2	7.87	<0.5	<50	17	205	418	5.15
P385498		4.14	0.078	<0.5	8.23	30	1180	0.6	<2	6.86	<0.5	<50	20	174	366	4.36
P385499		5.24	0.036	<0.5	7.66	41	740	0.6	<2	8.85	<0.5	<50	28	183	446	5.87
P385500		0.14	0.707	1.5	7.84	91	1660	0.6	<2	3.42	0.6	<50	37	16	2930	8.91
P377501		2.46	0.005	<0.5	8.68	19	1300	0.7	<2	6.25	<0.5	<50	15	175	36	5.24
P377502		3.58	0.016	<0.5	7.47	20	1100	0.7	<2	6.51	<0.5	<50	11	142	180	4.48
P377503		3.82	0.010	<0.5	8.23	33	1290	0.6	<2	7.43	<0.5	<50	15	153	199	6.06
P377504		4.42	0.094	<0.5	7.23	52	1200	0.6	<2	8.29	<0.5	<50	27	125	1435	6.11
P377505		4.98	0.059	<0.5	7.43	39	1660	0.7	<2	7.45	<0.5	<50	22	137	1195	5.93
P377506		4.94	0.081	<0.5	7.70	36	1500	0.7	<2	8.37	<0.5	<50	21	126	1745	5.82
P377507		4.38	0.012	<0.5	7.95	20	1470	0.6	<2	7.69	<0.5	<50	8	136	86	2.92
P377508		2.20	0.009	<0.5	8.14	16	1640	0.7	<2	5.27	<0.5	<50	10	120	38	4.48
P377509		4.32	0.362	0.6	7.49	30	1340	0.7	<2	5.11	<0.5	<50	37	134	2070	5.36
P377510		2.78	0.003	<0.5	0.11	<5	280	<0.5	<2	21.0	<0.5	<50	1	<1	11	0.54
P377511		4.10	0.271	0.6	7.73	26	1440	0.7	<2	5.33	<0.5	<50	40	156	1815	5.68
P377512		4.80	0.458	1.2	7.41	43	1390	0.6	<2	7.69	<0.5	<50	32	139	3630	5.80

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12279959

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Ga	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.01	10	10	0.01	5	1	0.01	5	1	10	2	10	0.01	5
P385475		20	2.06	<10	10	1.97	825	<1	3.10	<5	11	950	<2	30	0.07	<5
P385476		20	3.04	<10	10	1.86	800	<1	2.87	<5	10	970	<2	50	0.02	<5
P385477		20	2.47	<10	10	1.68	826	<1	2.74	<5	9	1010	<2	40	0.22	<5
P385478		20	1.76	10	10	1.74	1600	1	1.33	<5	15	1150	<2	50	3.45	5
P385479		20	2.04	<10	20	1.88	1250	1	1.95	<5	16	1140	2	50	1.02	8
P385480		20	2.30	10	20	0.98	1280	29	2.47	<5	10	920	68	60	1.54	12
P385481		20	2.85	10	20	2.44	948	3	2.59	<5	56	1260	<2	50	0.61	5
P385482		20	2.64	10	20	2.40	980	1	2.56	<5	70	1460	4	60	0.68	5
P385483		20	2.82	10	20	2.38	956	1	2.61	<5	69	1380	4	70	0.64	7
P385484		10	1.31	10	20	1.51	1040	<1	1.66	<5	47	1100	4	50	0.46	<5
P385485		20	2.65	10	20	2.94	986	<1	2.34	<5	119	1260	5	60	0.75	6
P385486		20	2.92	10	20	2.70	1000	1	2.40	<5	61	1600	<2	80	0.61	5
P385487		20	1.57	10	20	2.77	1025	<1	2.53	<5	68	1260	<2	50	1.31	10
P385488		20	2.69	10	10	2.86	875	<1	2.68	<5	67	1150	<2	70	0.38	5
P385489		20	2.35	10	10	2.91	948	1	2.80	<5	68	1220	<2	50	0.69	<5
P385490		<10	0.02	<10	<10	13.50	230	<1	0.01	<5	<1	170	<2	10	0.01	<5
P385491		20	2.70	10	10	3.18	857	<1	2.67	<5	75	1150	<2	60	0.54	<5
P385491_PD		20	2.69	10	10	3.13	843	1	2.65	<5	76	1110	<2	60	0.53	<5
P385492		20	2.38	10	10	3.04	845	<1	2.88	<5	64	1070	<2	50	0.16	<5
P385492_CD		20	2.37	10	10	3.08	847	<1	2.92	<5	64	1080	<2	60	0.16	<5
P385493		20	3.34	10	10	3.10	860	<1	2.25	<5	82	1050	<2	60	0.05	10
P385494		20	1.96	10	10	3.27	874	<1	2.90	<5	82	1080	4	40	0.02	<5
P385495		20	2.06	10	10	3.40	953	<1	2.56	<5	80	1040	<2	50	0.37	<5
P385496		20	2.43	10	20	3.26	944	2	2.70	<5	79	1090	2	40	0.31	<5
P385497		20	2.40	10	20	3.01	1095	2	2.26	<5	72	1130	<2	60	0.24	<5
P385498		20	2.66	10	20	2.92	973	<1	2.73	<5	74	1170	<2	70	0.28	<5
P385499		20	1.42	10	20	2.95	1235	5	2.37	<5	63	1130	<2	40	0.91	<5
P385500		20	2.45	10	20	1.23	1615	12	2.40	<5	11	940	38	60	1.94	13
P377501		20	2.34	10	20	2.90	999	<1	3.61	<5	75	1240	<2	40	0.02	<5
P377502		20	3.12	10	20	2.39	964	<1	2.57	<5	49	1250	<2	70	0.03	<5
P377503		20	2.91	10	20	2.57	1200	1	2.56	<5	49	1300	<2	70	0.39	<5
P377504		20	3.21	10	20	2.35	1490	1	1.45	<5	58	1110	<2	90	1.23	11
P377505		20	4.38	10	20	2.25	1315	<1	1.28	<5	68	1230	<2	110	1.09	<5
P377506		20	2.40	10	10	2.29	1370	2	2.03	<5	56	1180	<2	50	0.92	<5
P377507		20	2.71	10	20	2.60	1000	2	2.56	<5	53	1180	<2	50	0.06	<5
P377508		20	3.00	10	20	2.26	739	<1	2.65	<5	55	1370	<2	60	0.06	<5
P377509		20	4.10	10	20	2.46	854	15	1.92	<5	60	1220	16	80	0.82	<5
P377510		<10	0.05	<10	<10	12.55	221	<1	0.02	<5	2	190	<2	<10	0.01	<5
P377511		20	4.29	10	20	2.63	907	17	1.97	<5	67	1280	24	100	0.82	<5
P377512		20	3.05	10	10	2.48	1170	9	1.79	<5	49	1220	3	70	1.04	7

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12279959

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	10	1	10	10	20	0.01	10	10	1	10	10	2	5
P385475		16	<10	<10	760	<10	<10	<20	0.36	<10	<10	182	<10	10	26	19
P385476		15	<10	<10	810	<10	<10	<20	0.35	<10	<10	182	<10	10	26	17
P385477		16	<10	<10	587	<10	<10	<20	0.34	<10	<10	185	<10	10	30	17
P385478		16	10	<10	1050	<10	10	<20	0.29	<10	<10	173	<10	10	44	27
P385479		17	<10	<10	650	<10	10	<20	0.30	<10	<10	165	<10	10	34	26
P385480		14	10	<10	440	<10	10	<20	0.31	<10	<10	163	<10	10	346	50
P385481		18	10	<10	659	<10	10	<20	0.37	<10	<10	191	<10	20	29	24
P385482		23	<10	<10	735	<10	10	<20	0.39	10	<10	213	<10	20	34	28
P385483		22	10	<10	772	<10	10	<20	0.39	<10	<10	204	<10	20	36	32
P385484		16	<10	<10	459	<10	<10	<20	0.29	<10	<10	161	<10	20	34	27
P385485		21	<10	<10	768	<10	10	<20	0.37	<10	<10	193	<10	20	26	27
P385486		22	10	<10	939	<10	10	<20	0.38	<10	<10	210	<10	20	26	33
P385487		22	<10	<10	897	<10	<10	<20	0.38	<10	<10	204	<10	20	24	28
P385488		21	<10	<10	903	<10	<10	<20	0.39	<10	<10	208	<10	20	23	25
P385489		22	<10	<10	1065	<10	<10	<20	0.43	<10	<10	225	<10	20	28	22
P385490		<1	<10	<10	55	<10	<10	<20	<0.01	<10	<10	3	<10	<10	15	<5
P385491		22	<10	<10	978	<10	<10	<20	0.40	<10	<10	213	<10	20	29	23
P385491_PD		22	<10	<10	965	<10	<10	<20	0.40	<10	<10	209	<10	20	28	22
P385492		21	<10	<10	769	<10	<10	<20	0.41	<10	<10	221	<10	20	32	22
P385492_CD		22	<10	<10	785	<10	<10	<20	0.41	<10	<10	223	<10	20	31	23
P385493		20	<10	<10	706	<10	<10	<20	0.39	<10	<10	214	<10	20	34	21
P385494		24	<10	<10	849	<10	<10	<20	0.42	<10	<10	239	<10	20	35	22
P385495		25	<10	<10	993	<10	<10	<20	0.42	<10	<10	257	<10	20	34	22
P385496		23	<10	<10	880	<10	<10	<20	0.42	<10	<10	242	<10	20	33	21
P385497		24	<10	<10	940	<10	<10	<20	0.40	<10	<10	237	<10	20	44	29
P385498		23	<10	<10	633	<10	<10	<20	0.39	<10	<10	205	<10	20	26	28
P385499		23	<10	<10	869	<10	<10	<20	0.39	<10	<10	224	<10	20	29	32
P385500		18	<10	<10	428	<10	<10	<20	0.36	<10	<10	191	<10	20	198	50
P377501		20	<10	<10	1210	<10	<10	<20	0.44	<10	<10	225	10	20	27	23
P377502		18	<10	<10	994	<10	<10	<20	0.38	<10	<10	187	<10	20	21	26
P377503		20	<10	<10	975	<10	<10	<20	0.42	<10	<10	226	<10	20	33	36
P377504		19	<10	<10	1200	<10	10	<20	0.36	<10	<10	184	<10	20	35	39
P377505		18	<10	<10	1025	<10	<10	<20	0.36	<10	<10	217	<10	20	35	42
P377506		19	<10	<10	871	<10	<10	<20	0.37	<10	<10	207	<10	20	41	40
P377507		20	<10	<10	640	<10	<10	<20	0.39	<10	<10	191	<10	20	28	32
P377508		18	<10	<10	727	<10	<10	<20	0.40	<10	<10	203	<10	20	29	24
P377509		16	<10	<10	912	<10	<10	<20	0.37	<10	<10	201	<10	10	50	28
P377510		<1	<10	<10	64	<10	<10	<20	0.01	<10	<10	4	<10	<10	16	<5
P377511		18	<10	<10	970	<10	<10	<20	0.39	<10	<10	214	<10	20	57	29
P377512		18	<10	<10	786	<10	<10	<20	0.37	<10	<10	208	<10	20	54	38

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12279959

Sample Description	Method Analyte Units LOR	Cu-OG62 Cu % 0.001
P385475		
P385476		
P385477		
P385478		0.165
P385479		
P385480		0.190
P385481		
P385482		
P385483		
P385484		
P385485		
P385486		
P385487		
P385488		
P385489		
P385490		
P385491		
P385491_PD		
P385492		
P385492_CD		
P385493		
P385494		
P385495		
P385496		
P385497		
P385498		
P385499		
P385500		0.264
P377501		
P377502		
P377503		
P377504		0.140
P377505		0.116
P377506		0.168
P377507		
P377508		
P377509		0.203
P377510		
P377511		0.173
P377512		0.364

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12279959

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Ce ppm 50	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
P377512_PD		<0.02	0.464	1.0	7.77	38	1380	0.7	3	7.80	<0.5	<50	32	137	3460	5.84
P377513		5.12	0.283	0.6	7.62	59	420	0.7	<2	9.78	<0.5	<50	41	131	2370	7.78
P377513_CD		<0.02	0.299	0.6	7.73	61	440	0.7	<2	9.89	<0.5	<50	40	126	2530	7.77
P377514		5.46	0.128	<0.5	7.94	41	690	0.7	<2	9.33	<0.5	<50	34	148	1450	6.18
P377515		3.82	0.233	0.6	7.91	33	1230	0.7	2	7.96	<0.5	<50	25	146	1630	3.81
P377516		3.52	0.019	<0.5	8.33	26	1000	0.9	2	2.67	<0.5	<50	5	3	15	3.09
P377517		4.42	0.072	<0.5	8.74	16	230	1.0	3	2.90	<0.5	<50	7	2	28	1.74
P377518		4.78	0.013	<0.5	8.34	19	810	0.8	2	2.66	<0.5	<50	5	2	12	2.89
P377519		4.38	0.016	<0.5	8.57	13	750	0.9	3	2.81	<0.5	<50	8	2	36	2.39
P377520		0.14	0.296	2.5	7.32	67	1630	0.7	2	3.50	2.5	<50	23	13	1820	6.29
P377521		2.16	0.063	<0.5	8.25	16	220	0.9	2	3.44	<0.5	<50	5	1	291	1.50
P377522		3.98	0.020	<0.5	8.99	25	300	1.1	2	4.38	<0.5	<50	6	1	22	1.94

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12279959

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Ga	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.01	10	10	0.01	5	1	0.01	5	1	10	2	10	0.01	5
P377512_PD		20	2.89	10	10	2.57	1175	7	1.76	<5	51	1220	3	70	1.03	<5
P377513		20	0.82	10	10	2.72	1685	1	1.92	<5	60	1360	<2	20	1.81	<5
P377513_CD		20	0.86	10	10	2.64	1680	<1	1.93	<5	59	1340	4	30	1.81	<5
P377514		20	1.29	10	20	2.64	1465	7	2.27	<5	69	1310	7	40	1.21	<5
P377515		20	2.23	10	20	2.31	1060	12	2.21	<5	55	1190	10	70	0.61	<5
P377516		20	2.95	<10	<10	0.97	364	<1	4.37	<5	8	960	<2	60	0.01	<5
P377517		20	0.70	10	10	0.99	373	<1	6.07	<5	7	1020	<2	10	0.04	<5
P377518		20	2.53	<10	10	0.93	413	<1	4.57	<5	5	950	<2	40	0.01	<5
P377519		20	2.57	<10	10	0.94	380	4	4.88	<5	8	950	4	50	0.01	<5
P377520		20	2.13	10	10	0.95	1215	26	2.26	<5	8	810	62	50	1.40	6
P377521		20	0.80	<10	10	0.92	400	6	5.81	<5	10	1000	3	10	0.03	<5
P377522		20	0.98	<10	10	1.00	428	5	6.38	<5	7	1030	<2	10	0.01	6

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12279959

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	10	1	10	10	20	0.01	10	10	1	10	10	2	5
P377512_PD		18	<10	<10	762	<10	<10	<20	0.36	<10	<10	204	<10	20	58	37
P377513		18	<10	<10	969	<10	10	<20	0.34	<10	<10	228	<10	20	44	41
P377513_CD		18	<10	<10	984	<10	<10	<20	0.35	<10	<10	231	<10	20	45	42
P377514		19	<10	<10	984	<10	10	<20	0.38	<10	<10	211	<10	20	56	42
P377515		18	<10	<10	670	<10	<10	<20	0.36	<10	<10	194	<10	20	55	35
P377516		6	<10	<10	316	<10	10	<20	0.27	<10	<10	134	<10	10	20	59
P377517		6	<10	<10	362	<10	<10	<20	0.29	<10	<10	101	<10	10	26	47
P377518		6	<10	<10	280	<10	<10	<20	0.27	<10	<10	123	<10	10	30	49
P377519		6	<10	<10	232	<10	<10	<20	0.27	<10	<10	110	<10	10	30	49
P377520		12	10	<10	396	<10	<10	<20	0.30	<10	<10	152	<10	10	336	45
P377521		6	<10	<10	292	<10	<10	<20	0.28	<10	<10	104	<10	10	29	44
P377522		6	<10	<10	354	<10	<10	<20	0.29	<10	<10	114	<10	10	28	44

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12279959

Sample Description	Method Analyte Units LOR	Cu- OG62 Cu % 0.001
P377512_PD		0.351
P377513		0.239
P377513_CD		0.247
P377514		0.139
P377515		0.169
P377516		
P377517		
P377518		
P377519		
P377520		0.194
P377521		
P377522		

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 18- DEC- 2012
Account: GOFICA

CERTIFICATE VA12285481

Project: Red Gold

P.O. No.: RG- 2012- 012c

This report is for 132 Crushed Core samples submitted to our lab in Vancouver, BC, Canada on 5- DEC- 2012.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL	NATE BREWER	MATT ECKFELDT
JULIANNE MADSEN	AMELIA RAINBOW	ROSS SHERLOCK
TWILA SKINNER	TIM STUBLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
SPL- 21d	Split sample - duplicate
PUL- 32d	Pulverize Split - Dup 85% < 75um
LOG- 21d	Sample logging - ClientBarCode Dup
LOG- 23	Pulp Login - Rcvd with Barcode
SPL- 34	Pulp Splitting Charge
WEI- 25	Wt. of Crushed Reject
BAG- 01	Bulk Master for Storage
LOG- 22	Sample login - Rcd w/o BarCode
SPL- 21	Split sample - riffle splitter
PUL- 32	Pulverize 1000g to 85% < 75 um
PUL- QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 18- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285481

Sample Description	Method Analyte Units LOR	WEI-25 Reject W kg 0.001	Au-ICP21 Au ppm 0.001
P385401		2.46	0.056
P385402		3.40	0.051
P385403		3.10	0.418
P385404		3.32	0.034
P385405		3.44	0.066
P385406		3.38	0.039
P385407		2.58	0.018
P385408		3.32	0.030
P385409		3.40	0.053
P385410		1.220	0.001
P385411		3.18	0.085
P385412		3.34	0.030
P385413		2.80	0.031
P385414		3.26	0.069
P385415		3.70	0.048
P385416		2.96	0.044
P385417		3.22	0.025
P385418		3.60	0.023
P385419		2.08	0.039
P385420			0.722
P385421		2.48	0.061
P385422		3.24	0.033
P385423		2.76	0.032
P385424		3.22	0.019
P385424_PD			0.024
P385425		2.24	0.018
P385425_CD			0.028
P385426		3.24	0.073
P385427		3.10	0.047
P385428		0.280	0.063
P385429		1.880	0.016
P385430		2.64	0.001
P385431		2.88	0.029
P385432		2.92	0.027
P385433		3.30	0.046
P385434		3.24	0.040
P385435		3.02	0.063
P385436		2.92	0.029
P385437		2.64	0.028
P385438		3.54	0.018

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 18- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285481

Sample Description	Method Analyte Units LOR	WEI-25 Reject W kg 0.001	Au-ICP21 Au ppm 0.001
P385439		3.38	0.010
P385440			0.303
P385441		2.54	0.017
P385442		3.36	0.030
P385443		3.22	0.005
P385444		3.94	0.010
P385445		2.66	0.018
P385446		3.26	0.011
P385446_PD			0.011
P385447		2.06	0.011
P385447_CD			0.015
P385448		3.44	0.009
P385449		3.41	0.026
P385450		2.24	0.001
P385451		2.30	0.011
P385452		1.780	0.002
P385453		2.34	0.002
P385454		3.06	0.001
P385455		2.94	0.002
P385456		3.54	0.003
P385457		3.78	0.010
P385458		3.22	0.023
P385459		2.02	0.023
P385460			0.733
P385461		2.18	0.035
P385462		1.080	0.028
P385463		2.78	0.018
P385464		3.50	0.028
P385465		0.940	0.068
P385466		2.90	0.004
P385467		3.82	0.038
P385468		1.620	0.023
P385468_PD			0.022
P385469		1.660	0.055
P385469_CD			0.058
P385470		2.24	<0.001
P385471		3.62	0.005
P385472		3.64	0.030
P385473		3.26	0.052
P385474		3.76	0.017

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 18- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285481

Sample Description	Method Analyte Units LOR	WEI-25 Reject W kg 0.001	Au-ICP21 Au ppm 0.001
P385475		3.84	0.009
P385476		3.32	0.008
P385477		1.180	0.024
P385478		4.04	0.097
P385479		3.68	0.075
P385480			0.294
P385481		3.60	0.059
P385482		3.28	0.036
P385483		2.84	0.030
P385484		1.000	0.031
P385485		3.36	0.022
P385486		2.78	0.031
P385487		1.880	0.036
P385488		3.72	0.011
P385489		3.84	0.015
P385490		2.30	0.001
P385491		3.10	0.013
P385491_PD			0.013
P385492		2.36	0.004
P385492_CD			0.004
P385493		3.32	0.005
P385494		3.48	0.002
P385495		3.68	0.007
P385496		3.60	0.024
P385497		3.50	0.069
P385498		2.78	0.035
P385499		3.84	0.036
P385500			0.740
P377501		1.100	0.008
P377502		2.10	0.020
P377503		2.48	0.011
P377504		3.00	0.092
P377505		3.62	0.062
P377506		2.30	0.072
P377507		2.96	0.011
P377508		0.860	0.008
P377509		2.96	0.341
P377510		1.440	0.002
P377511		2.78	0.312
P377512		3.56	0.527

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 18- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285481

Sample Description	Method Analyte Units LOR	WEI-25 Reject W kg 0.001	Au-ICP21 Au ppm 0.001
P377512_PD			0.573
P377513		2.50	0.278
P377513_CD			0.273
P377514		4.12	0.133
P377515		2.56	0.236
P377516		2.16	0.008
P377517		3.14	0.034
P377518		3.52	0.016
P377519		3.04	0.020
P377520			NSS
P377521		0.880	0.110
P377522		2.74	0.025

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 18- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285481

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non- sufficient sample.

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

CERTIFICATE VA12280021

Project: Red Gold

P.O. No.: RG- 2012- 013c

This report is for 140 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 27- NOV- 2012.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL	NATE BREWER	MATT ECKFELDT
JULIANNE MADSEN	AMELIA RAINBOW	ROSS SHERLOCK
TWILA SKINNER	TIM STUBLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
SPL- 34	Pulp Splitting Charge
LOG- 21	Sample logging - ClientBarCode
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
LOG- 21d	Sample logging - ClientBarCode Dup
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP61	33 element four acid ICP- AES	ICP- AES
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Cu- OG62	Ore Grade Cu - Four Acid	VARIABLE

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12280021

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP61 Ag ppm 0.5	ME- ICP61 Al % 0.01	ME- ICP61 As ppm 5	ME- ICP61 Ba ppm 10	ME- ICP61 Be ppm 0.5	ME- ICP61 Bi ppm 2	ME- ICP61 Ca % 0.01	ME- ICP61 Cd ppm 0.5	ME- ICP61 Ce ppm 50	ME- ICP61 Co ppm 1	ME- ICP61 Cr ppm 1	ME- ICP61 Cu ppm 1	ME- ICP61 Fe % 0.01
P377523		4.02	0.126	<0.5	7.16	17	150	0.9	<2	9.52	0.5	<50	45	238	1170	9.94
P377524		5.22	0.272	0.5	6.67	24	130	0.8	3	9.60	<0.5	<50	83	216	1740	11.50
P377525		5.16	0.081	<0.5	6.79	15	200	0.9	<2	10.05	<0.5	<50	48	212	1050	12.45
P377526		4.76	0.051	<0.5	7.67	14	320	0.9	2	9.73	<0.5	<50	23	251	567	7.31
P377527		4.34	0.028	<0.5	7.36	25	350	0.9	<2	9.91	<0.5	<50	19	226	342	4.91
P377528		4.62	0.163	<0.5	7.69	17	250	0.9	2	10.25	<0.5	<50	51	227	1040	5.61
P377529		4.54	0.146	<0.5	7.43	16	350	0.9	<2	9.21	<0.5	<50	65	228	1670	6.77
P377530		2.00	0.002	<0.5	0.07	<5	20	<0.5	2	21.4	<0.5	<50	1	<1	7	0.54
P377531		2.36	0.071	<0.5	8.19	12	720	0.8	2	7.98	<0.5	<50	22	162	973	4.58
P377532		4.12	0.060	<0.5	7.19	16	240	0.9	<2	10.85	<0.5	<50	53	228	1740	9.17
P377533		2.66	0.008	<0.5	7.92	12	1200	0.9	<2	8.07	<0.5	<50	23	228	152	6.96
P377534		3.32	0.032	<0.5	7.66	7	610	1.0	<2	9.83	<0.5	<50	23	206	235	5.33
P377535		4.58	0.045	<0.5	8.02	8	1240	0.9	2	7.45	<0.5	<50	35	240	257	6.18
P377536		4.26	0.015	<0.5	7.61	12	1150	0.8	2	7.44	<0.5	<50	33	223	221	5.76
P377537		3.04	0.013	<0.5	7.80	10	820	0.9	<2	8.25	<0.5	<50	18	228	101	4.74
P377538		4.76	0.057	<0.5	7.28	13	430	0.9	<2	8.43	<0.5	<50	36	205	671	4.61
P377539		4.42	0.015	<0.5	7.31	12	1420	0.8	<2	6.39	<0.5	<50	28	226	218	5.40
P377540		0.14	0.702	1.4	7.01	75	1270	0.6	<2	2.96	0.9	<50	34	12	2470	8.04
P377541		5.30	0.257	<0.5	7.97	11	1060	0.9	2	6.41	<0.5	<50	24	240	1700	4.98
P377542		3.88	0.036	<0.5	7.34	14	670	0.9	2	9.24	<0.5	<50	30	206	622	5.80
P377543		4.08	0.225	<0.5	6.95	14	560	0.9	<2	8.74	<0.5	<50	20	163	1040	4.67
P377544		4.74	0.083	<0.5	7.45	20	260	0.9	<2	11.05	<0.5	<50	30	202	1400	6.77
P377545		4.70	0.091	<0.5	6.71	21	290	0.8	5	9.77	<0.5	<50	42	204	1870	7.25
P377546		3.60	0.125	<0.5	6.69	16	210	0.8	3	9.41	<0.5	<50	30	220	1650	7.42
P377547		4.58	0.107	<0.5	7.05	17	440	0.9	<2	9.10	<0.5	<50	19	226	1050	4.93
P377547_PD		<0.02	0.111	<0.5	7.13	13	460	0.9	3	9.38	<0.5	<50	19	238	1100	4.99
P377548		4.08	0.064	<0.5	7.07	12	210	0.9	<2	9.44	<0.5	<50	37	210	1420	6.46
P377548_CD		<0.02	0.061	<0.5	7.13	9	210	0.9	<2	9.54	0.5	<50	40	213	1410	6.44
P377549		4.22	0.046	<0.5	7.29	11	220	0.9	<2	9.67	<0.5	<50	46	219	1280	6.50
P377550		3.28	0.002	<0.5	0.08	<5	40	<0.5	2	21.0	<0.5	<50	2	<1	9	0.59
P377551		2.12	0.197	<0.5	7.62	21	260	1.0	2	9.21	<0.5	<50	41	256	1860	7.29
P377552		4.06	0.329	0.5	6.91	20	470	0.9	3	8.74	<0.5	<50	21	203	1870	5.61
P377553		3.90	0.052	<0.5	6.91	13	360	0.8	<2	9.62	<0.5	<50	17	208	382	6.27
P377554		4.72	0.069	<0.5	7.04	23	200	0.8	<2	10.60	<0.5	<50	19	208	522	6.78
P377555		4.58	0.106	<0.5	7.74	26	240	0.9	<2	10.60	<0.5	<50	29	233	1275	7.41
P377556		4.78	0.204	<0.5	7.16	16	540	0.9	2	9.59	<0.5	<50	23	203	1615	6.33
P377557		4.42	0.076	<0.5	7.81	14	480	0.9	<2	10.70	<0.5	<50	15	215	605	5.21
P377558		4.92	0.199	0.8	6.96	15	270	0.9	<2	9.57	<0.5	<50	74	193	4530	10.95
P377559		4.70	0.241	0.7	7.34	19	460	1.0	3	9.65	<0.5	<50	44	264	3520	8.67
P377560		0.14	0.282	2.8	7.93	93	2210	0.7	<2	3.70	2.7	<50	27	13	2000	6.81

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12280021

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Ga	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.01	10	10	0.01	5	1	0.01	5	1	10	2	10	0.01	5
P377523		20	0.45	10	10	3.35	1375	1	2.16	<5	170	1970	16	20	2.08	<5
P377524		20	0.41	10	10	2.97	1325	2	1.80	<5	197	1800	3	20	3.39	<5
P377525		20	0.52	10	10	3.11	1645	<1	1.57	<5	113	1820	3	20	2.57	<5
P377526		20	0.72	10	10	3.30	1290	<1	2.18	<5	92	2040	4	30	0.84	<5
P377527		10	0.83	10	10	3.56	1205	<1	2.13	<5	136	1940	<2	30	0.45	<5
P377528		20	0.56	10	20	3.04	1175	<1	2.23	<5	141	1910	<2	20	1.25	<5
P377529		20	0.81	10	10	3.21	1090	<1	2.41	<5	228	1980	2	30	1.64	<5
P377530		<10	0.02	<10	<10	13.55	226	<1	0.01	<5	1	170	2	<10	0.01	<5
P377531		20	1.99	10	10	2.62	907	<1	2.91	<5	109	1740	<2	50	1.52	<5
P377532		20	0.61	10	10	3.13	1295	<1	1.92	<5	99	1860	2	30	2.53	<5
P377533		20	1.30	10	20	3.93	1145	<1	2.45	<5	171	1920	<2	50	0.25	<5
P377534		20	0.91	10	10	3.93	1050	<1	1.78	<5	136	1700	2	40	0.11	<5
P377535		20	2.13	10	10	4.09	860	<1	2.14	<5	206	1700	<2	50	0.21	<5
P377536		20	1.73	10	20	3.94	877	<1	2.04	<5	161	1780	<2	60	0.40	<5
P377537		20	1.37	10	10	4.10	938	<1	2.20	<5	188	1850	2	50	0.07	<5
P377538		20	0.95	10	20	3.72	915	<1	2.08	<5	179	1870	2	40	0.88	<5
P377539		20	1.91	10	20	3.49	776	<1	1.96	<5	135	1780	2	60	0.46	<5
P377540		20	2.00	<10	20	1.09	1395	8	2.03	<5	9	800	32	50	1.69	12
P377541		20	1.68	10	10	3.41	729	<1	2.56	<5	232	1960	<2	60	0.60	<5
P377542		20	1.26	10	20	3.95	1080	<1	1.51	<5	134	2040	<2	50	0.81	<5
P377543		20	1.55	10	20	3.18	934	<1	1.57	<5	107	1900	3	50	0.67	<5
P377544		20	0.67	10	10	3.29	1195	<1	1.58	<5	103	2070	2	20	1.40	<5
P377545		20	0.70	10	10	3.36	1135	<1	1.60	<5	158	1930	3	30	1.87	<5
P377546		20	0.57	10	10	3.24	1175	<1	1.63	<5	126	1870	4	20	1.67	<5
P377547		20	0.72	10	10	3.56	1130	<1	1.90	<5	111	2010	<2	30	0.61	<5
P377547_PD		10	0.76	10	10	3.65	1165	<1	1.95	<5	118	2080	<2	20	0.64	<5
P377548		20	0.44	10	10	4.06	1210	<1	1.87	<5	222	2060	3	10	1.07	<5
P377548_CD		20	0.44	10	20	3.98	1220	<1	1.85	<5	219	2050	<2	10	1.14	<5
P377549		20	0.48	10	10	4.08	1220	<1	1.91	<5	185	2080	4	30	1.20	<5
P377550		<10	0.02	<10	<10	13.25	219	<1	0.01	<5	2	270	3	<10	0.04	<5
P377551		20	0.66	10	20	4.07	1220	<1	2.12	<5	217	2210	4	30	1.08	<5
P377552		20	1.09	10	20	3.84	1150	<1	1.87	<5	109	2360	5	40	0.57	<5
P377553		20	1.00	<10	20	4.36	1315	<1	1.42	<5	90	1880	<2	50	0.52	<5
P377554		20	0.73	10	20	4.27	1370	<1	1.41	<5	122	2040	4	40	0.76	<5
P377555		20	0.74	10	10	3.52	1310	2	1.95	<5	130	2250	4	40	1.22	6
P377556		20	1.12	10	10	3.68	1320	1	2.03	<5	119	2430	3	40	0.62	10
P377557		20	1.04	10	10	3.74	1360	2	1.97	<5	83	2420	<2	40	0.18	9
P377558		20	0.56	10	10	2.99	1350	1	1.66	<5	110	2160	3	20	3.40	7
P377559		20	0.91	10	10	3.23	1455	1	1.87	<5	103	2450	3	30	1.69	13
P377560		20	2.33	10	20	1.00	1295	30	2.53	<5	10	940	68	60	1.59	10

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12280021

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	10	1	10	10	20	0.01	10	10	1	10	10	2	5
P377523		20	<10	<10	728	<10	10	<20	0.37	<10	<10	281	<10	10	93	41
P377524		18	<10	<10	703	<10	<10	<20	0.33	<10	<10	243	<10	10	47	37
P377525		19	<10	<10	818	<10	10	<20	0.34	<10	<10	253	<10	10	47	42
P377526		22	<10	<10	821	<10	<10	<20	0.39	<10	<10	259	<10	10	42	43
P377527		21	<10	<10	721	<10	<10	<20	0.38	<10	<10	261	<10	10	33	43
P377528		21	<10	<10	705	<10	<10	<20	0.38	<10	<10	265	<10	10	32	39
P377529		21	<10	<10	577	<10	<10	<20	0.37	<10	<10	226	<10	10	40	36
P377530		<1	<10	<10	56	<10	<10	<20	<0.01	<10	<10	2	<10	<10	17	<5
P377531		17	10	<10	629	<10	<10	<20	0.34	<10	<10	216	<10	10	24	41
P377532		21	<10	<10	576	<10	10	<20	0.37	<10	<10	268	<10	10	31	41
P377533		23	<10	<10	796	<10	10	<20	0.40	<10	<10	273	<10	20	34	46
P377534		22	<10	<10	536	<10	<10	<20	0.38	10	<10	249	<10	20	35	40
P377535		22	<10	<10	522	<10	<10	<20	0.40	<10	<10	285	<10	10	30	51
P377536		23	<10	<10	753	<10	<10	<20	0.39	<10	<10	273	<10	10	27	44
P377537		23	<10	<10	895	<10	<10	<20	0.41	10	<10	276	<10	20	27	45
P377538		20	<10	<10	691	<10	<10	<20	0.36	<10	<10	248	<10	20	27	42
P377539		21	<10	<10	640	<10	<10	<20	0.37	<10	<10	251	<10	10	25	42
P377540		15	<10	<10	353	<10	<10	<20	0.30	<10	<10	163	<10	10	173	41
P377541		22	<10	<10	858	<10	10	<20	0.40	<10	<10	264	<10	20	27	46
P377542		21	<10	<10	639	<10	10	<20	0.37	<10	<10	254	<10	10	32	43
P377543		18	<10	<10	619	<10	<10	<20	0.33	<10	<10	228	<10	10	32	32
P377544		21	<10	<10	738	<10	<10	<20	0.37	<10	<10	250	<10	20	33	40
P377545		20	<10	<10	797	<10	10	<20	0.34	<10	<10	266	<10	10	35	36
P377546		19	<10	<10	418	<10	10	<20	0.34	<10	<10	254	<10	10	38	39
P377547		21	<10	<10	944	<10	<10	<20	0.35	<10	<10	215	<10	20	33	36
P377547_PD		22	<10	<10	974	<10	<10	<20	0.36	<10	<10	223	<10	20	34	37
P377548		21	<10	<10	990	<10	10	<20	0.35	<10	<10	238	<10	10	34	40
P377548_CD		20	<10	<10	964	<10	<10	<20	0.35	<10	<10	238	<10	10	33	41
P377549		21	<10	<10	992	<10	<10	<20	0.37	10	<10	236	<10	20	35	42
P377550		<1	<10	<10	55	<10	<10	<20	<0.01	10	<10	3	<10	<10	16	<5
P377551		23	<10	<10	687	<10	10	<20	0.39	<10	<10	324	<10	20	39	43
P377552		20	<10	<10	471	<10	<10	<20	0.35	<10	<10	265	<10	20	46	39
P377553		20	<10	<10	605	<10	<10	<20	0.35	<10	<10	246	<10	10	43	36
P377554		21	<10	<10	712	<10	10	<20	0.36	<10	<10	264	<10	10	47	37
P377555		23	10	<10	831	<10	20	<20	0.39	<10	<10	277	<10	20	48	43
P377556		22	<10	<10	723	<10	10	<20	0.38	10	<10	285	<10	20	45	43
P377557		23	10	<10	567	<10	10	<20	0.40	<10	<10	271	<10	20	43	49
P377558		20	<10	<10	810	<10	10	<20	0.35	10	<10	320	<10	10	50	43
P377559		23	<10	<10	953	<10	10	<20	0.38	<10	<10	305	<10	20	57	49
P377560		14	10	<10	449	<10	10	<20	0.31	<10	<10	164	<10	10	354	48

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12280021

Sample Description	Method Analyte Units LOR	Cu-OG62 Cu % 0.001
P377523		0.113
P377524		0.176
P377525		0.102
P377526		
P377527		
P377528		0.104
P377529		0.172
P377530		
P377531		
P377532		0.161
P377533		
P377534		
P377535		
P377536		
P377537		
P377538		
P377539		
P377540		0.236
P377541		0.173
P377542		
P377543		0.111
P377544		0.141
P377545		0.199
P377546		0.181
P377547		0.115
P377547_PD		0.114
P377548		0.148
P377548_CD		0.145
P377549		0.129
P377550		
P377551		0.178
P377552		0.193
P377553		
P377554		
P377555		0.117
P377556		0.156
P377557		
P377558		0.445
P377559		0.330
P377560		0.196

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12280021

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Ce ppm 50	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
P377561		4.88	0.212	<0.5	7.01	10	500	0.9	4	10.05	<0.5	<50	29	248	2570	6.51
P377562		5.10	0.277	0.7	7.06	12	580	0.9	2	10.20	<0.5	<50	27	238	2980	5.88
P377563		4.18	0.175	0.5	7.24	47	970	0.9	<2	7.87	<0.5	<50	15	240	1330	3.83
P377564		4.46	0.546	1.6	7.08	32	840	1.0	4	8.15	<0.5	<50	30	249	4510	4.44
P377565		4.56	0.059	<0.5	7.01	25	390	0.8	2	10.00	<0.5	<50	24	227	917	6.64
P377566		4.84	0.030	<0.5	7.25	22	320	0.8	<2	10.40	<0.5	<50	30	232	988	6.25
P377567		4.78	0.741	0.9	6.72	22	360	0.9	2	9.35	<0.5	<50	37	213	3450	6.69
P377568		4.72	0.240	<0.5	7.21	16	440	0.9	3	8.94	<0.5	<50	18	250	1600	5.94
P377569		5.22	0.980	1.4	6.81	20	340	1.0	2	8.56	<0.5	<50	50	237	5700	9.90
P377570		2.94	0.001	<0.5	0.15	<5	30	<0.5	<2	18.7	<0.5	<50	2	1	57	0.55
P377571		2.44	0.429	1.0	7.44	25	490	1.0	4	8.64	<0.5	<50	41	259	3310	7.10
P377571_PD		<0.02	0.428	1.2	7.54	22	500	1.0	2	8.84	<0.5	<50	42	271	3320	7.26
P377572		4.08	0.723	1.6	7.08	14	450	1.0	2	8.77	<0.5	<50	55	227	5480	8.01
P377572_CD		<0.02	0.684	1.5	7.13	16	480	1.0	2	8.33	<0.5	<50	49	235	5240	7.83
P377573		4.78	0.153	<0.5	7.22	6	420	0.9	3	9.44	<0.5	<50	26	225	1540	6.26
P377574		4.70	0.237	0.8	7.15	8	740	1.0	<2	7.82	<0.5	<50	31	203	3470	5.86
P377575		4.84	0.179	<0.5	6.89	20	550	1.0	<2	9.38	<0.5	<50	31	203	2140	7.68
P377576		4.68	0.164	<0.5	7.21	14	380	0.9	2	10.25	<0.5	<50	28	218	1700	6.49
P377577		4.32	0.155	0.6	6.90	22	340	0.9	<2	10.05	<0.5	<50	24	219	1220	5.72
P377578		3.98	0.142	<0.5	7.15	22	350	0.9	<2	10.35	<0.5	<50	21	213	917	5.66
P377579		4.86	0.163	0.6	6.65	16	390	0.9	<2	10.90	<0.5	<50	34	220	2340	8.41
P377580		0.16	0.709	1.4	7.18	81	1380	0.6	<2	3.20	0.7	<50	32	12	2550	8.12
P377581		4.92	0.123	0.5	6.79	22	490	0.9	<2	10.40	<0.5	<50	29	223	1670	6.48
P377582		4.84	0.428	0.7	7.14	13	390	0.9	<2	9.67	<0.5	<50	37	231	3160	6.21
P377583		3.54	0.138	<0.5	6.76	18	500	0.9	<2	10.40	<0.5	<50	22	194	1580	5.78
P377584		3.84	0.105	0.5	7.06	19	530	0.9	<2	10.05	<0.5	<50	26	219	1965	7.39
P377585		4.16	0.278	0.9	6.68	12	590	0.9	<2	8.98	<0.5	<50	25	209	3160	8.34
P377586		3.94	0.249	0.6	6.60	20	620	0.9	<2	8.89	<0.5	<50	19	216	2260	6.77
P377587		4.66	0.224	0.6	6.89	13	610	0.9	<2	8.98	<0.5	<50	19	228	1815	6.00
P377588		4.54	0.248	1.0	6.91	11	560	0.9	<2	8.74	<0.5	<50	36	217	3410	7.27
P377589		4.32	0.177	0.8	6.66	6	360	0.9	<2	9.62	<0.5	<50	28	197	2590	7.05
P377590		2.44	0.001	<0.5	0.08	<5	20	<0.5	<2	21.3	<0.5	<50	<1	<1	9	0.51
P377591		4.62	0.218	0.5	6.89	9	280	0.9	<2	10.75	<0.5	<50	30	217	2760	7.14
P377592		4.44	0.382	1.4	6.64	16	490	0.9	<2	9.28	<0.5	<50	36	217	6080	8.93
P377593		2.16	0.192	0.5	7.22	10	440	1.0	<2	9.66	<0.5	50	17	218	1590	6.30
P377593_PD		<0.02	0.196	0.7	6.85	11	410	0.9	<2	8.93	<0.5	<50	15	198	1460	5.97
P377594		3.44	0.403	1.0	7.04	18	900	0.9	<2	8.81	<0.5	50	15	190	2530	5.19
P377594_PB		0.22	0.001	<0.5	0.49	<5	20	<0.5	2	0.05	<0.5	<50	1	6	9	0.41
P377595		2.38	0.354	0.6	7.68	10	1340	0.8	<2	5.20	<0.5	<50	19	79	1655	5.13
P377595_CD		<0.02	0.385	0.7	7.96	10	1400	0.8	<2	5.02	<0.5	50	19	70	1725	5.02

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12280021

Sample Description / Method / Analyte / Units / LOR	ME- ICP61 Ga ppm 10	ME- ICP61 K % 0.01	ME- ICP61 La ppm 10	ME- ICP61 Li ppm 10	ME- ICP61 Mg % 0.01	ME- ICP61 Mn ppm 5	ME- ICP61 Mo ppm 1	ME- ICP61 Na % 0.01	ME- ICP61 Nb ppm 5	ME- ICP61 Ni ppm 1	ME- ICP61 P ppm 10	ME- ICP61 Pb ppm 2	ME- ICP61 Rb ppm 10	ME- ICP61 S % 0.01	ME- ICP61 Sb ppm 5
P377561	20	0.85	10	20	2.98	1355	<1	1.65	<5	86	2060	3	30	0.94	<5
P377562	20	1.00	10	20	3.44	1365	<1	1.60	<5	98	2080	2	20	0.69	<5
P377563	20	1.72	10	20	2.91	1005	<1	2.08	<5	54	1850	<2	50	0.25	<5
P377564	20	1.52	10	20	2.76	1030	<1	1.99	<5	116	1990	2	40	0.68	<5
P377565	20	0.67	10	20	3.28	1550	<1	1.67	<5	123	1890	<2	20	0.93	<5
P377566	20	0.61	10	20	3.03	1385	4	1.80	<5	126	1880	<2	20	1.37	<5
P377567	20	0.80	10	20	3.43	1375	<1	1.55	<5	120	1970	<2	20	1.59	<5
P377568	20	1.01	10	20	3.40	1195	<1	1.96	<5	82	2090	3	30	0.73	<5
P377569	20	0.74	10	20	2.78	1245	<1	1.90	<5	84	1970	<2	20	2.29	<5
P377570	<10	0.04	<10	<10	11.85	212	<1	0.03	<5	4	180	<2	<10	0.02	<5
P377571	20	0.98	10	20	3.11	1315	<1	2.16	<5	122	2000	6	30	1.54	<5
P377571_PD	20	1.00	10	20	3.16	1340	<1	2.18	<5	126	2030	9	30	1.56	<5
P377572	20	1.06	10	10	2.81	1205	<1	1.90	<5	112	1830	2	40	2.25	<5
P377572_CD	20	1.13	10	10	2.62	1155	<1	1.98	<5	104	1840	<2	30	2.26	<5
P377573	20	0.83	10	20	3.20	1435	<1	1.72	<5	134	1890	2	30	1.01	<5
P377574	20	2.00	10	10	3.12	1220	<1	1.93	<5	127	1540	<2	40	0.83	<5
P377575	20	1.35	10	10	2.68	1740	<1	1.58	<5	129	1710	2	30	1.64	<5
P377576	20	0.89	10	10	3.15	1750	<1	1.81	<5	175	1940	<2	30	1.01	<5
P377577	20	0.75	10	10	3.30	1670	1	2.00	<5	265	1950	8	30	0.65	<5
P377578	20	0.75	10	10	3.32	1690	<1	2.10	<5	248	2010	4	30	0.55	<5
P377579	20	0.85	10	10	2.96	1990	<1	1.50	<5	199	1950	<2	30	2.10	<5
P377580	20	2.18	10	20	1.13	1470	10	2.17	<5	10	820	31	60	1.83	9
P377581	10	1.07	10	10	3.08	1720	<1	1.64	<5	175	1890	2	40	1.21	<5
P377582	20	1.04	10	10	3.32	1390	<1	2.33	<5	296	1900	<2	40	0.74	<5
P377583	20	1.24	10	20	2.92	1325	<1	1.51	<5	166	1670	<2	40	0.81	<5
P377584	20	1.21	20	10	2.91	1340	<1	1.77	<5	215	1950	<2	40	1.76	<5
P377585	20	1.58	10	10	2.53	1180	<1	1.88	<5	139	1880	<2	40	1.50	<5
P377586	10	1.34	10	10	3.01	1135	<1	1.80	<5	129	2120	<2	40	0.40	<5
P377587	20	1.36	10	10	3.23	1140	<1	2.10	<5	196	1860	<2	40	0.34	<5
P377588	20	1.22	20	10	2.72	1225	<1	1.87	<5	132	2010	3	30	1.35	<5
P377589	10	0.87	10	10	2.69	1435	<1	1.61	<5	98	1990	<2	30	1.31	<5
P377590	<10	0.02	<10	<10	12.40	217	<1	0.01	<5	1	230	<2	<10	0.01	<5
P377591	10	0.72	10	10	2.93	1860	<1	1.61	<5	209	1940	<2	20	1.17	<5
P377592	20	1.46	20	10	2.78	1460	<1	1.67	<5	144	1920	<2	40	1.39	<5
P377593	20	1.13	20	10	2.76	1455	<1	2.08	<5	92	2100	<2	20	0.28	<5
P377593_PD	20	1.05	20	10	2.62	1340	<1	1.97	<5	87	2000	<2	30	0.26	<5
P377594	20	2.34	20	10	2.47	1295	<1	2.15	<5	90	2380	<2	40	0.34	<5
P377594_PB	<10	0.22	10	10	0.03	35	<1	0.02	<5	<1	30	<2	10	0.01	<5
P377595	20	4.02	20	10	1.92	852	<1	2.69	<5	41	1850	<2	70	0.24	<5
P377595_CD	20	4.21	20	10	1.86	814	<1	2.81	<5	39	2070	<2	70	0.23	<5

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12280021

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	10	1	10	10	20	0.01	10	10	1	10	10	2	5
P377561		21	<10	<10	752	<10	<10	<20	0.36	<10	<10	267	<10	20	45	45
P377562		21	<10	<10	593	<10	<10	<20	0.36	10	<10	299	<10	20	45	44
P377563		20	<10	<10	853	<10	<10	<20	0.36	<10	<10	232	<10	20	29	40
P377564		20	<10	<10	782	<10	<10	<20	0.36	10	<10	275	<10	20	46	38
P377565		20	<10	<10	795	<10	<10	<20	0.35	<10	<10	238	<10	10	55	47
P377566		20	<10	<10	656	<10	<10	<20	0.35	<10	<10	231	<10	10	40	48
P377567		19	<10	<10	932	<10	<10	<20	0.34	<10	<10	276	<10	10	50	50
P377568		20	<10	<10	1205	<10	<10	<20	0.37	10	<10	306	<10	20	45	52
P377569		19	<10	<10	655	<10	<10	<20	0.34	<10	<10	388	<10	20	63	48
P377570		<1	<10	<10	55	<10	10	<20	0.01	<10	<10	6	<10	<10	14	<5
P377571		22	<10	<10	710	<10	<10	<20	0.37	<10	<10	291	<10	20	68	56
P377571_PD		22	<10	<10	719	<10	<10	<20	0.38	<10	<10	296	<10	20	72	54
P377572		19	<10	<10	910	<10	<10	<20	0.34	<10	<10	322	<10	20	62	51
P377572_CD		18	<10	<10	871	<10	<10	<20	0.33	<10	<10	315	<10	20	62	51
P377573		20	<10	<10	1085	<10	<10	<20	0.35	<10	<10	257	<10	10	42	47
P377574		18	<10	<10	955	<10	<10	<20	0.31	<10	<10	262	<10	10	46	49
P377575		18	<10	<10	621	<10	<10	<20	0.32	<10	<10	312	<10	20	50	54
P377576		20	<10	<10	768	<10	<10	<20	0.36	<10	<10	288	<10	20	50	53
P377577		22	<10	<10	616	<10	<10	<20	0.38	<10	<10	251	<10	20	67	52
P377578		22	<10	<10	624	<10	<10	<20	0.39	<10	<10	250	<10	20	63	54
P377579		20	<10	<10	783	<10	<10	<20	0.37	<10	10	285	<10	20	62	54
P377580		16	<10	<10	370	<10	<10	<20	0.33	<10	<10	167	<10	20	182	43
P377581		21	<10	<10	999	<10	<10	<20	0.37	<10	10	257	<10	10	60	48
P377582		22	10	<10	816	<10	<10	<20	0.39	<10	10	260	<10	20	41	45
P377583		19	<10	<10	552	<10	<10	<20	0.35	<10	10	246	<10	10	43	42
P377584		20	10	<10	747	<10	<10	<20	0.37	<10	<10	270	<10	20	43	48
P377585		18	<10	<10	829	<10	<10	<20	0.34	<10	10	297	<10	20	56	41
P377586		19	<10	<10	1200	<10	<10	<20	0.35	<10	<10	281	<10	20	47	35
P377587		21	<10	<10	1340	<10	<10	<20	0.38	<10	<10	291	<10	20	46	39
P377588		20	10	<10	1505	<10	<10	<20	0.37	<10	10	309	<10	20	60	43
P377589		17	10	<10	1625	<10	<10	<20	0.36	<10	10	281	<10	10	49	49
P377590		<1	<10	<10	60	<10	<10	<20	<0.01	<10	<10	3	<10	<10	15	<5
P377591		20	<10	<10	1445	<10	<10	<20	0.38	<10	10	263	<10	10	52	58
P377592		19	10	<10	1015	<10	<10	<20	0.36	<10	<10	369	<10	20	53	44
P377593		20	10	<10	849	<10	<10	<20	0.39	<10	10	304	<10	20	41	53
P377593_PD		19	<10	<10	805	<10	<10	<20	0.36	<10	10	285	<10	20	38	49
P377594		19	<10	<10	761	<10	<10	<20	0.36	<10	<10	292	<10	20	35	45
P377594_PB		1	<10	<10	9	<10	<10	<20	0.04	<10	<10	5	<10	<10	<2	9
P377595		19	<10	<10	520	<10	<10	<20	0.40	<10	<10	313	<10	20	28	27
P377595_CD		18	<10	<10	527	<10	<10	<20	0.41	<10	<10	305	<10	20	27	25

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12280021

Sample Description	Method / Analyte / Units / LOR	Cu-OG62 Cu % 0.001
P377561		0.263
P377562		0.306
P377563		0.144
P377564		0.480
P377565		
P377566		
P377567		0.363
P377568		0.170
P377569		0.581
P377570		
P377571		0.334
P377571_PD		0.331
P377572		0.557
P377572_CD		0.519
P377573		0.163
P377574		0.353
P377575		0.224
P377576		0.176
P377577		0.132
P377578		
P377579		0.235
P377580		0.256
P377581		0.172
P377582		0.309
P377583		0.166
P377584		0.194
P377585		0.320
P377586		0.236
P377587		0.180
P377588		0.340
P377589		0.270
P377590		
P377591		0.277
P377592		0.603
P377593		0.161
P377593_PD		0.159
P377594		0.254
P377594_PB		
P377595		0.174
P377595_CD		0.180

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12280021

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	50	1	1	1	0.01
P377596		3.88	0.784	1.2	7.78	11	1590	0.7	<2	4.72	<0.5	50	16	36	3180	4.81
P377597		2.18	0.142	0.5	7.85	7	1440	0.7	<2	4.72	<0.5	60	19	29	1130	5.10
P377598		1.56	0.459	0.8	7.06	10	1040	0.9	<2	8.19	<0.5	<50	26	189	2630	5.74
P377599		3.46	0.269	0.7	7.43	7	770	0.9	<2	7.44	<0.5	<50	22	178	2660	5.43
P377600		0.14	0.273	2.5	7.39	75	1980	0.7	<2	3.57	2.3	<50	24	12	1820	6.38
P377601		3.38	0.341	0.6	7.79	7	1420	0.7	<2	4.77	<0.5	<50	19	48	1950	5.14
P377602		1.92	0.228	0.7	7.95	6	1510	0.6	<2	4.49	<0.5	<50	19	21	1680	5.42
P377603		2.64	0.151	<0.5	8.00	<5	1420	0.7	<2	3.99	<0.5	<50	18	20	1100	5.20
P377604		3.66	0.637	1.1	6.94	16	710	0.9	<2	8.09	<0.5	60	25	176	3290	6.61
P377605		3.90	0.205	0.5	6.74	11	570	0.9	<2	8.78	<0.5	<50	19	195	1670	5.46
P377606		4.06	0.244	<0.5	7.17	<5	560	1.0	<2	10.60	<0.5	<50	16	191	1225	5.06
P377607		4.20	0.142	<0.5	7.40	10	530	1.0	<2	10.75	<0.5	<50	16	194	1110	4.99
P377608		4.44	0.584	1.3	7.20	15	940	0.9	<2	7.66	<0.5	<50	18	204	2720	5.57
P377609		4.00	0.272	0.6	7.63	8	1250	0.9	<2	7.71	<0.5	<50	25	160	1595	5.68
P377610		2.34	0.001	<0.5	0.10	<5	40	<0.5	4	20.9	<0.5	<50	1	<1	3	0.50
P377611		4.36	0.530	<0.5	7.45	<5	1190	0.9	<2	7.30	<0.5	<50	23	205	1905	5.03
P377612		4.72	0.443	<0.5	7.45	5	1370	0.9	<2	7.61	<0.5	<50	20	218	1510	5.19
P377613		4.68	0.217	0.5	7.27	6	670	0.9	<2	8.26	<0.5	<50	41	198	2500	5.76
P377614		4.58	0.152	1.0	7.18	<5	480	1.0	<2	9.34	<0.5	<50	30	197	2100	6.19
P377614_PB		0.18	<0.001	<0.5	0.52	<5	20	<0.5	<2	0.04	<0.5	<50	<1	8	10	0.35
P377615		4.62	0.191	<0.5	7.59	5	620	0.9	<2	9.10	<0.5	<50	25	203	1580	4.63
P377615_PD		<0.02	0.153	<0.5	7.16	8	590	0.9	<2	8.70	<0.5	<50	24	203	1495	4.39
P377616		4.14	0.097	<0.5	7.78	6	700	0.9	<2	8.83	<0.5	<50	23	181	992	4.07
P377616_CD		<0.02	0.093	<0.5	7.60	10	690	0.8	<2	8.38	<0.5	<50	23	173	965	3.99
P377617		4.20	0.213	0.5	7.64	7	700	0.9	<2	7.49	0.5	<50	30	189	2360	5.05
P377618		3.92	0.203	0.6	7.49	14	920	0.8	<2	6.97	<0.5	<50	27	169	2150	5.71
P377619		4.22	0.182	<0.5	8.30	15	1330	0.8	<2	5.70	<0.5	<50	15	96	1335	5.03
P377620		0.14	0.709	1.5	8.00	100	1580	0.6	6	3.31	0.9	<50	36	12	2820	8.84
P377621		4.46	0.055	<0.5	8.24	24	840	0.9	2	9.02	<0.5	<50	24	144	677	5.25
P377622		1.90	0.056	<0.5	7.91	21	950	0.8	<2	6.33	<0.5	<50	12	91	339	3.64
P377623		3.30	0.060	<0.5	7.66	15	790	1.0	<2	10.60	<0.5	<50	23	177	495	5.76
P377624		2.38	0.147	<0.5	8.44	15	2220	0.8	<2	5.24	<0.5	<50	14	109	1060	4.28
P377625		4.00	0.429	0.8	7.92	<5	1690	0.8	<2	5.50	<0.5	<50	40	96	3380	5.78
P377626		3.84	0.151	0.5	8.18	10	1540	0.9	<2	5.92	<0.5	<50	25	116	1810	4.73
P377627		3.76	0.238	0.5	6.95	6	900	0.9	<2	8.16	<0.5	<50	25	294	2070	8.72
P377628		4.16	0.186	0.5	7.43	9	970	0.8	<2	7.20	<0.5	<50	40	178	3350	7.96
P377629		4.12	0.205	0.6	6.55	8	580	0.7	<2	8.62	0.6	<50	36	325	4580	10.65
P377630		3.12	0.002	<0.5	0.15	<5	50	<0.5	3	19.9	<0.5	<50	1	<1	20	0.52
P377631		3.60	0.126	<0.5	6.11	10	610	0.7	<2	9.56	<0.5	<50	29	366	1190	9.97
P377632		4.40	0.053	<0.5	6.35	11	900	0.7	<2	7.75	<0.5	<50	32	425	468	5.89

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12280021

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Ga	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.01	10	10	0.01	5	1	0.01	5	1	10	2	10	0.01	5
P377596		20	4.40	20	10	1.83	735	<1	2.56	<5	36	2230	<2	70	0.39	<5
P377597		20	4.05	30	10	1.84	778	<1	2.73	<5	31	2670	<2	70	0.26	<5
P377598		20	2.26	20	10	2.58	1160	<1	2.16	<5	112	2000	<2	50	0.72	<5
P377599		20	2.80	20	10	2.12	1050	<1	2.34	<5	101	1630	<2	60	0.93	<5
P377600		20	2.23	10	20	0.98	1205	28	2.45	<5	8	850	60	70	1.55	<5
P377601		20	4.20	10	10	1.89	796	<1	2.73	<5	41	1540	<2	60	0.31	<5
P377602		20	4.07	10	10	1.92	743	<1	2.85	<5	27	1570	<2	70	0.28	<5
P377603		20	3.94	10	10	1.79	705	<1	2.91	<5	22	1340	<2	70	0.27	<5
P377604		20	1.98	30	10	2.45	1250	<1	2.27	<5	127	2110	<2	40	0.74	<5
P377605		10	1.48	20	10	2.51	1310	<1	2.16	<5	114	1820	<2	40	0.40	<5
P377606		20	1.43	20	10	2.70	1165	<1	2.10	<5	103	1760	<2	30	0.17	<5
P377607		20	1.29	20	10	2.73	1170	<1	2.08	<5	103	1730	<2	30	0.15	<5
P377608		20	2.02	10	10	3.07	1110	<1	2.67	<5	116	1710	<2	50	0.27	<5
P377609		20	2.51	20	10	2.68	1050	<1	2.58	<5	125	1830	<2	60	0.25	<5
P377610		<10	0.04	<10	<10	12.65	216	1	0.01	<5	<1	190	2	<10	0.01	<5
P377611		20	2.45	10	10	2.84	1110	<1	2.36	<5	148	1730	2	50	0.21	<5
P377612		20	2.24	10	10	2.95	1155	<1	2.34	<5	146	1830	2	50	0.18	<5
P377613		20	1.61	10	10	2.86	1285	<1	2.01	<5	163	1790	<2	40	0.98	<5
P377614		20	1.19	10	10	2.72	1775	<1	1.83	<5	139	1880	<2	30	0.50	<5
P377614_PB		<10	0.22	10	<10	0.03	28	<1	0.02	<5	1	30	<2	10	0.01	<5
P377615		20	1.54	20	10	2.68	1485	<1	2.17	<5	159	2040	<2	40	0.33	<5
P377615_PD		20	1.45	10	10	2.54	1410	<1	2.06	<5	151	1920	<2	30	0.32	<5
P377616		20	2.05	10	10	2.58	1235	<1	2.28	<5	111	1860	<2	40	0.31	<5
P377616_CD		20	1.98	10	10	2.57	1200	<1	2.25	<5	107	1810	<2	40	0.30	<5
P377617		20	1.90	10	10	2.55	1200	1	2.49	<5	103	1780	17	40	0.49	<5
P377618		20	2.47	10	10	2.28	1285	<1	2.41	<5	97	1560	<2	40	0.49	<5
P377619		20	3.66	10	10	1.75	994	<1	2.85	<5	50	1490	5	60	0.26	7
P377620		20	2.32	10	30	1.18	1585	11	2.28	<5	13	940	38	70	1.92	23
P377621		20	2.25	10	10	2.50	1980	<1	1.78	<5	48	1990	2	60	0.20	<5
P377622		20	3.47	10	10	1.47	1340	<1	2.56	<5	33	1240	<2	50	0.10	<5
P377623		20	1.39	10	10	2.85	2450	1	1.51	<5	70	2240	<2	50	0.10	<5
P377624		20	4.38	10	10	1.84	1345	<1	2.45	<5	42	1370	<2	90	0.15	<5
P377625		20	2.99	10	10	1.73	1055	<1	2.70	<5	79	1590	<2	60	1.21	<5
P377626		20	3.00	10	10	2.05	1005	<1	2.80	<5	63	1740	<2	60	0.43	<5
P377627		20	1.90	10	10	2.77	1825	<1	2.13	<5	115	1560	<2	40	0.32	<5
P377628		20	2.26	10	10	2.55	1375	<1	2.28	<5	71	1610	<2	50	0.88	<5
P377629		20	1.41	10	10	3.36	1725	<1	1.69	<5	157	1260	<2	50	0.54	<5
P377630		<10	0.08	<10	<10	12.00	201	1	0.01	<5	2	160	2	<10	0.02	<5
P377631		20	1.52	10	10	4.18	1805	<1	1.43	<5	208	1180	<2	50	0.27	<5
P377632		20	2.16	10	20	5.53	1340	<1	1.65	<5	238	1020	<2	70	0.08	<5

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12280021

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	10	1	10	10	20	0.01	10	10	1	10	10	2	5
P377596		19	<10	<10	510	<10	<10	<20	0.43	<10	<10	309	<10	20	32	24
P377597		19	<10	<10	515	<10	<10	<20	0.46	<10	<10	322	<10	20	36	18
P377598		18	10	<10	836	<10	<10	<20	0.36	<10	<10	309	<10	20	39	39
P377599		17	10	<10	695	<10	<10	<20	0.35	<10	10	245	<10	20	35	44
P377600		13	<10	<10	419	<10	<10	<20	0.30	<10	<10	153	<10	10	329	45
P377601		20	<10	<10	464	<10	<10	<20	0.46	<10	10	335	<10	20	37	21
P377602		22	<10	<10	499	<10	<10	<20	0.49	<10	<10	345	<10	20	30	17
P377603		20	10	<10	491	<10	<10	<20	0.46	<10	<10	321	<10	20	33	17
P377604		19	10	<10	757	<10	<10	<20	0.37	<10	<10	270	<10	20	44	42
P377605		18	10	<10	544	<10	<10	<20	0.34	<10	<10	252	<10	20	40	48
P377606		18	<10	<10	243	<10	10	<20	0.35	<10	<10	275	<10	20	39	49
P377607		19	<10	<10	245	<10	<10	<20	0.35	<10	<10	279	<10	20	38	47
P377608		19	<10	<10	417	<10	<10	<20	0.37	<10	<10	308	<10	20	37	39
P377609		17	<10	<10	663	<10	<10	<20	0.35	<10	<10	267	<10	20	37	35
P377610		<1	<10	<10	54	<10	<10	<20	<0.01	<10	<10	4	<10	<10	16	<5
P377611		19	<10	<10	469	<10	<10	<20	0.32	<10	<10	265	<10	20	38	37
P377612		20	10	<10	908	<10	<10	<20	0.33	<10	<10	258	<10	20	40	41
P377613		20	10	<10	1075	<10	<10	<20	0.33	<10	<10	253	<10	20	45	44
P377614		20	<10	<10	1005	<10	<10	<20	0.34	<10	<10	260	<10	20	44	54
P377614_PB		1	<10	<10	10	<10	<10	<20	0.03	<10	<10	5	<10	<10	<2	8
P377615		19	<10	<10	723	<10	<10	<20	0.35	<10	<10	234	<10	20	44	55
P377615_PD		18	<10	<10	680	<10	<10	<20	0.33	<10	<10	225	<10	20	41	51
P377616		18	<10	<10	661	<10	<10	<20	0.33	<10	<10	220	<10	20	36	53
P377616_CD		18	<10	<10	689	<10	<10	<20	0.33	<10	<10	213	<10	20	35	52
P377617		19	10	<10	650	<10	<10	<20	0.35	<10	<10	240	<10	20	64	47
P377618		18	10	<10	617	<10	<10	<20	0.31	<10	<10	257	<10	20	46	44
P377619		14	<10	<10	544	<10	10	<20	0.31	<10	<10	213	<10	10	38	33
P377620		18	10	<10	404	<10	10	<20	0.34	10	<10	187	<10	20	198	52
P377621		15	<10	<10	582	<10	<10	<20	0.35	<10	<10	236	<10	20	59	59
P377622		9	<10	<10	615	<10	<10	<20	0.28	<10	<10	168	<10	20	40	45
P377623		20	<10	<10	979	<10	<10	<20	0.38	<10	<10	263	<10	20	64	66
P377624		13	<10	<10	403	<10	<10	<20	0.27	<10	<10	231	<10	10	38	46
P377625		16	10	<10	528	<10	<10	<20	0.31	<10	<10	237	<10	20	37	31
P377626		19	<10	<10	586	<10	<10	<20	0.31	<10	<10	243	<10	20	33	35
P377627		25	<10	<10	431	<10	<10	<20	0.32	<10	<10	322	<10	20	50	31
P377628		23	10	<10	435	<10	<10	<20	0.35	<10	<10	277	<10	20	46	31
P377629		27	<10	<10	383	<10	<10	<20	0.31	<10	<10	279	<10	20	62	30
P377630		<1	<10	<10	52	<10	<10	<20	0.01	<10	<10	4	<10	<10	15	<5
P377631		31	<10	<10	453	<10	<10	<20	0.29	<10	<10	278	<10	10	59	28
P377632		34	<10	<10	533	<10	<10	<20	0.33	<10	<10	236	<10	20	45	24

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12280021

Sample Description	Method Analyte Units LOR	Cu-OG62 Cu % 0.001
P377596		0.328
P377597		0.116
P377598		0.270
P377599		0.280
P377600		0.190
P377601		0.196
P377602		0.173
P377603		0.119
P377604		0.347
P377605		0.181
P377606		0.126
P377607		0.109
P377608		0.277
P377609		0.163
P377610		
P377611		0.179
P377612		0.143
P377613		0.245
P377614		0.208
P377614_PB		
P377615		0.153
P377615_PD		0.151
P377616		
P377616_CD		
P377617		0.223
P377618		0.207
P377619		0.128
P377620		0.264
P377621		
P377622		
P377623		
P377624		0.099
P377625		0.331
P377626		0.171
P377627		0.194
P377628		0.307
P377629		0.416
P377630		
P377631		0.108
P377632		

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12280021

Sample Description / Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Ce ppm 50	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
P377633	3.82	0.084	<0.5	6.57	6	980	0.8	<2	6.84	<0.5	<50	32	391	656	5.15
P377634	4.02	0.215	<0.5	6.12	9	660	0.8	<2	6.48	<0.5	<50	37	404	1455	5.45
P377635	4.16	0.158	<0.5	6.07	9	650	0.9	<2	6.65	<0.5	<50	37	394	1450	5.53
P377636	2.08	0.013	<0.5	5.49	9	410	0.7	<2	8.62	<0.5	<50	47	671	312	6.34
P377637	3.74	0.008	<0.5	5.69	<5	410	0.6	<2	8.25	<0.5	<50	45	548	137	6.35
P377637_PD	<0.02	0.007	<0.5	5.73	<5	420	0.6	<2	8.25	<0.5	<50	45	530	141	6.36
P377638	3.28	0.021	<0.5	7.16	<5	800	0.6	<2	6.54	<0.5	<50	36	255	258	5.29
P377638_CD	<0.02	0.017	<0.5	7.10	11	790	0.6	<2	6.54	<0.5	<50	36	251	242	5.35
P377639	3.66	0.020	<0.5	7.74	<5	940	0.6	<2	5.93	<0.5	<50	35	150	330	5.45
P377640	0.14	0.309	2.6	7.35	77	2160	0.6	<2	3.33	2.4	<50	25	12	1930	5.87
P377641	4.22	0.035	<0.5	7.95	7	650	0.7	2	6.93	<0.5	<50	30	127	586	5.05
P377642	3.02	0.021	<0.5	7.75	13	770	0.7	<2	5.61	<0.5	<50	24	130	138	5.09
P377643	2.76	0.176	<0.5	7.90	8	750	0.8	<2	6.08	<0.5	<50	23	118	1600	4.27
P377644	3.58	0.023	<0.5	7.82	9	900	0.7	3	6.52	<0.5	<50	24	129	228	4.57
P377645	2.62	0.137	<0.5	7.41	10	580	0.8	<2	7.43	<0.5	<50	30	190	1410	4.76
P377646	3.04	0.070	<0.5	5.92	6	370	0.7	<2	7.56	<0.5	<50	44	509	970	6.62
P377647	1.66	0.119	<0.5	5.20	11	320	0.7	<2	7.51	<0.5	<50	51	799	1080	7.32
P377648	2.48	0.036	<0.5	7.41	11	820	0.7	<2	6.04	<0.5	<50	28	231	537	5.00
P377649	1.10	0.104	<0.5	7.81	6	1310	0.6	3	2.34	<0.5	<50	21	73	789	3.81
P377650	2.52	0.001	<0.5	0.08	<5	20	<0.5	2	20.0	<0.5	<50	1	<1	10	0.51

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12280021

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Ga	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.01	10	10	0.01	5	1	0.01	5	1	10	2	10	0.01	5
P377633		20	2.49	10	20	5.56	1255	<1	1.91	<5	228	910	<2	70	0.05	<5
P377634		20	2.27	10	20	6.11	1275	<1	1.72	<5	239	1020	<2	70	0.12	<5
P377635		20	2.26	10	20	6.02	1275	<1	1.75	<5	235	850	<2	70	0.13	<5
P377636		20	1.47	10	20	7.83	1580	<1	0.86	<5	447	970	4	50	0.20	<5
P377637		20	1.64	10	20	7.66	1575	<1	0.92	<5	350	980	<2	60	0.03	<5
P377637_PD		10	1.66	10	20	7.64	1580	<1	0.92	<5	347	970	<2	60	0.03	<5
P377638		20	2.39	10	30	5.38	1290	<1	1.49	<5	169	1130	3	80	0.09	<5
P377638_CD		20	2.36	10	30	5.28	1290	<1	1.48	<5	170	1110	3	80	0.09	<5
P377639		20	2.31	10	20	4.37	994	<1	1.97	<5	120	1180	7	60	0.07	<5
P377640		20	2.18	10	20	0.91	1225	29	2.30	<5	9	880	60	50	1.43	6
P377641		20	2.20	10	20	3.28	998	<1	2.05	<5	89	1010	24	80	0.43	<5
P377642		20	2.03	<10	20	4.05	929	<1	2.33	<5	105	1020	8	50	0.02	<5
P377643		20	2.36	<10	20	2.99	815	<1	2.68	<5	76	1020	2	50	0.33	<5
P377644		20	1.95	<10	20	4.01	836	<1	2.21	<5	108	1050	<2	60	0.06	<5
P377645		10	1.97	10	20	3.70	933	<1	2.00	<5	127	1030	<2	70	0.60	<5
P377646		10	1.40	<10	20	6.02	1195	<1	1.56	<5	307	870	<2	60	0.61	<5
P377647		10	0.98	<10	30	7.53	1265	<1	1.21	<5	457	860	<2	40	0.54	<5
P377648		20	1.97	<10	20	4.71	851	<1	2.20	<5	165	1010	<2	60	0.34	<5
P377649		20	4.29	10	20	2.19	396	<1	2.64	<5	48	1310	<2	70	0.42	<5
P377650		<10	0.03	<10	<10	12.65	201	<1	0.01	<5	3	190	10	<10	<0.01	<5

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12280021

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	10	1	10	10	20	0.01	10	10	1	10	10	2	5
P377633		32	<10	<10	441	<10	<10	<20	0.32	<10	<10	245	<10	20	39	26
P377634		32	<10	<10	432	<10	<10	<20	0.31	<10	<10	260	<10	10	43	25
P377635		32	<10	<10	393	<10	<10	<20	0.30	<10	<10	270	<10	10	43	25
P377636		31	<10	<10	258	<10	<10	<20	0.28	<10	<10	201	<10	10	59	22
P377637		35	<10	<10	348	<10	<10	<20	0.32	<10	<10	231	<10	10	67	28
P377637_PD		35	<10	<10	350	<10	<10	<20	0.32	<10	<10	231	<10	10	67	28
P377638		34	<10	<10	530	<10	<10	<20	0.37	<10	<10	244	<10	20	58	17
P377638_CD		34	<10	<10	527	<10	<10	<20	0.37	<10	<10	243	<10	20	58	17
P377639		30	<10	<10	659	<10	<10	<20	0.39	<10	<10	252	<10	10	63	12
P377640		13	<10	<10	436	<10	<10	<20	0.29	<10	<10	152	<10	10	325	45
P377641		25	<10	<10	624	<10	<10	<20	0.33	<10	<10	225	<10	10	71	19
P377642		26	<10	<10	514	<10	<10	<20	0.36	<10	<10	230	<10	10	47	13
P377643		23	<10	<10	584	<10	<10	<20	0.31	<10	<10	219	<10	10	28	22
P377644		26	<10	<10	661	<10	<10	<20	0.35	<10	<10	229	<10	20	26	17
P377645		27	<10	<10	589	<10	<10	<20	0.32	<10	<10	218	<10	20	32	25
P377646		24	<10	<10	302	<10	<10	<20	0.25	<10	<10	205	<10	10	40	22
P377647		24	<10	<10	250	<10	10	<20	0.23	<10	<10	196	<10	10	50	19
P377648		27	<10	<10	625	<10	<10	<20	0.35	<10	<10	249	<10	10	32	17
P377649		14	<10	<10	605	<10	<10	<20	0.36	<10	<10	252	<10	10	23	21
P377650		<1	<10	<10	51	<10	<10	<20	<0.01	<10	<10	3	<10	<10	18	<5

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12280021

Sample Description	Method Analyte Units LOR	Cu-OG62 Cu % 0.001
P377633		
P377634		0.139
P377635		0.137
P377636		
P377637		
P377637_PD		
P377638		
P377638_CD		
P377639		
P377640		0.193
P377641		
P377642		
P377643		0.164
P377644		
P377645		0.149
P377646		
P377647		0.114
P377648		
P377649		
P377650		

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 15- DEC- 2012
Account: GOFICA

CERTIFICATE VA12285480

Project: Red Gold

P.O. No.: RG- 2012- 013c

This report is for 140 Crushed Core samples submitted to our lab in Vancouver, BC, Canada on 5- DEC- 2012.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL	NATE BREWER	MATT ECKFELDT
JULIANNE MADSEN	AMELIA RAINBOW	ROSS SHERLOCK
TWILA SKINNER	TIM STUBLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WSH- 22	"Wash" pulverizers
SPL- 21d	Split sample - duplicate
PUL- 32d	Pulverize Split - Dup 85% <75um
LOG- 21d	Sample logging - ClientBarCode Dup
LOG- 23	Pulp Login - Rcvd with Barcode
SPL- 34	Pulp Splitting Charge
WEI- 25	Wt. of Crushed Reject
BAG- 01	Bulk Master for Storage
LOG- 22	Sample login - Rcd w/o BarCode
SPL- 21	Split sample - riffle splitter
PUL- 32	Pulverize 1000g to 85% < 75 um
PUL- QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 15- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285480

Sample Description	Method Analyte Units LOR	WEI- 25 Reject W kg 0.001	Au- ICP21 Au ppm 0.001
P377523		3.72	0.140
P377524		4.94	0.238
P377525		4.86	0.093
P377526		4.44	0.058
P377527		4.02	0.031
P377528		4.28	0.087
P377529		4.22	0.191
P377530		1.780	0.001
P377531		2.02	0.057
P377532		3.78	0.056
P377533		2.40	0.017
P377534		2.98	0.029
P377535		4.30	0.037
P377536		3.92	0.017
P377537		2.56	0.013
P377538		4.40	0.047
P377539		4.12	0.015
P377540			0.710
P377541		5.18	0.304
P377542		3.58	0.041
P377543		3.76	0.195
P377544		4.36	0.078
P377545		4.36	0.101
P377546		3.26	0.122
P377547		4.22	0.092
P377547_PD			0.117
P377548		3.56	0.077
P377548_CD			0.064
P377549		4.04	0.038
P377550		3.00	0.001
P377551		1.700	0.187
P377552		3.70	0.355
P377553		3.50	0.043
P377554		4.42	0.058
P377555		4.22	0.126
P377556		4.46	0.231
P377557		4.06	0.078
P377558		4.58	0.176
P377559		4.34	0.191
P377560			0.312

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 15- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285480

Sample Description	Method Analyte Units LOR	WEI- 25 Reject W kg 0.001	Au- ICP21 Au ppm 0.001
P377561		4.52	0.189
P377562		4.34	0.298
P377563		3.82	0.187
P377564		4.10	0.407
P377565		4.22	0.050
P377566		4.48	0.035
P377567		4.46	0.645
P377568		4.32	0.255
P377569		4.88	0.878
P377570		2.68	0.002
P377571		2.12	0.379
P377571_PD			0.364
P377572		3.42	0.818
P377572_CD			0.134
P377573		4.48	0.246
P377574		4.30	0.229
P377575		4.18	0.149
P377576		4.30	0.136
P377577		3.88	0.129
P377578		3.58	0.110
P377579		4.42	0.164
P377580			0.702
P377581		4.52	0.114
P377582		4.46	0.396
P377583		3.14	0.114
P377584		3.42	0.105
P377585		3.74	0.291
P377586		3.50	0.238
P377587		4.24	0.230
P377588		4.06	0.227
P377589		3.88	0.199
P377590		2.10	<0.001
P377591		4.22	0.202
P377592		3.96	0.404
P377593		1.760	0.192
P377593_PD			0.200
P377594		2.96	0.384
P377594_PB			0.003
P377595		1.780	0.306
P377595_CD			0.344

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 15- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285480

Sample Description	Method Analyte Units LOR	WEI- 25 Reject W kg 0.001	Au- ICP21 Au ppm 0.001
P377596		3.24	0.699
P377597		1.700	0.160
P377598		1.220	0.276
P377599		3.06	0.263
P377600			0.280
P377601		2.98	0.267
P377602		1.580	0.241
P377603		2.26	0.136
P377604		3.02	0.460
P377605		3.34	0.255
P377606		3.64	0.187
P377607		3.80	0.189
P377608		3.98	0.911
P377609		3.64	0.250
P377610		1.940	0.001
P377611		3.96	0.210
P377612		4.32	0.362
P377613		4.28	0.237
P377614		4.08	0.164
P377614_PB			0.002
P377615		4.62	0.208
P377615_PD			0.171
P377616		3.48	0.085
P377616_CD			0.082
P377617		3.82	0.176
P377618		3.60	0.215
P377619		3.84	0.160
P377620			0.676
P377621		4.12	0.066
P377622		1.380	0.044
P377623		2.96	0.047
P377624		2.12	0.180
P377625		3.68	0.349
P377626		3.48	0.157
P377627		3.38	0.211
P377628		3.28	0.174
P377629		3.70	0.215
P377630		2.84	<0.001
P377631		3.20	0.076
P377632		4.08	0.064

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 15- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285480

Sample Description	Method Analyte Units LOR	WEI-25 Reject W kg 0.001	Au-ICP21 Au ppm 0.001
P377633		3.32	0.081
P377634		3.70	0.189
P377635		3.80	0.161
P377636		1.800	0.045
P377637		3.12	0.007
P377637_PD			0.010
P377638		2.76	0.018
P377638_CD			0.018
P377639		3.38	0.019
P377640			0.279
P377641		4.02	0.038
P377642		2.70	0.017
P377643		2.38	0.188
P377644		3.12	0.024
P377645		2.32	0.128
P377646		2.72	0.067
P377647		1.400	0.116
P377648		2.20	0.041
P377649		0.840	0.097
P377650		2.28	<0.001

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 15-DEC-2012
This copy reported on 3-JAN-2013
Account: GOFICA

CERTIFICATE VA12290061

Project: GOFICA_VA12280021

P.O. No.:

This report is for 9 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 10-DEC-2012.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL JULIANNE MADSEN	NATE BREWER AMELIA RAINBOW	MATT ECKFELDT

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Cu-OG62	Ore Grade Cu - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

Comments: **Re-analysis Results for Samples Originally Reported on Certificate VA12280021.**

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 15-DEC-2012
Account: GOFICA

Project: GOFICA_VA12280021

CERTIFICATE OF ANALYSIS VA12290061

Sample Description	Method Analyte Units LOR	Cu-OG62 Cu % 0.001
P377540		0.247
P377541		0.167
P377543		0.107
P377544		0.134
P377545		0.194
P377546		0.166
P377547		0.111
P377548		0.143
P377549		0.122

Comments: **Re-analysis Results for Samples Originally Reported on Certificate VA12280021.**

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 15- DEC- 2012
This copy reported on
3- JAN- 2013
Account: GOFICA

CERTIFICATE VA12290061

Project: GOFICA_VA12280021

P.O. No.:

This report is for 9 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 10- DEC- 2012.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL JULIANNE MADSEN	NATE BREWER AMELIA RAINBOW	MATT ECKFELDT

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Cu- OG62	Ore Grade Cu - Four Acid	VARIABLE
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

Comments: **Re- analysis Results for Samples Originally Reported on Certificate VA12280021.**

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 15- DEC- 2012
Account: GOFICA

Project: GOFICA_VA12280021

CERTIFICATE OF ANALYSIS VA12290061

Sample Description	Method Analyte Units LOR	Cu- OG62 Cu % 0.001
P377540		0.247
P377541		0.167
P377543		0.107
P377544		0.134
P377545		0.194
P377546		0.166
P377547		0.111
P377548		0.143
P377549		0.122

Comments: **Re- analysis Results for Samples Originally Reported on Certificate VA12280021.**

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

CERTIFICATE VA12277381

Project: Red Gold

P.O. No.: RG- 2012- 014c

This report is for 127 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 28- NOV- 2012.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL	NATE BREWER	MATT ECKFELDT
JULIANNE MADSEN	AMELIA RAINBOW	ROSS SHERLOCK
TWILA SKINNER	TIM STUBLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
SPL- 34	Pulp Splitting Charge
LOG- 21	Sample logging - ClientBarCode
WSH- 22	"Wash" pulverizers
CRU- 31	Fine crushing - 70% < 2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
SPL- 21d	Split sample - duplicate
PUL- 31d	Pulverize Split - duplicate
LOG- 21d	Sample logging - ClientBarCode Dup
LOG- 23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP61	33 element four acid ICP- AES	ICP- AES
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Cu- OG62	Ore Grade Cu - Four Acid	VARIABLE

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277381

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Ce ppm 50	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
P377651		1.02	0.021	<0.5	7.57	7	1560	0.9	<2	8.97	<0.5	<50	29	208	208	5.77
P377652		5.24	0.023	<0.5	7.63	9	1350	0.9	<2	10.25	<0.5	<50	33	231	265	6.01
P377653		5.12	0.029	<0.5	7.21	10	1390	0.9	<2	9.85	<0.5	<50	31	198	257	5.48
P377654		5.02	0.028	<0.5	7.06	11	1160	0.9	<2	9.89	<0.5	<50	29	205	313	5.69
P377655		4.42	0.017	<0.5	6.92	9	1330	0.8	<2	9.08	<0.5	<50	33	199	217	5.95
P377656		5.38	0.020	<0.5	7.31	6	1150	0.8	<2	8.96	<0.5	<50	25	153	102	6.23
P377657		4.90	0.020	<0.5	7.30	10	960	0.8	<2	9.60	<0.5	<50	28	170	147	5.87
P377658		4.80	0.031	<0.5	6.84	13	980	0.8	<2	9.31	<0.5	<50	35	200	217	6.33
P377659		4.78	0.045	0.6	11.25	22	2500	1.6	<2	18.7	<0.5	50	55	333	540	10.50
P377660		0.14	0.768	1.4	7.00	86	1510	0.6	<2	3.10	0.9	<50	34	13	2580	7.71
P377661		4.40	0.024	<0.5	7.02	12	740	0.9	<2	11.20	<0.5	<50	26	196	206	5.58
P377662		4.72	0.011	<0.5	7.17	8	1490	0.8	<2	9.08	<0.5	<50	30	231	159	5.91
P377663		4.36	0.005	0.5	7.28	9	1070	0.9	<2	10.10	<0.5	<50	36	248	196	6.47
P377664		5.06	0.010	<0.5	7.56	11	1250	0.9	<2	10.35	<0.5	<50	35	228	218	6.14
P377664_PB		0.22	0.001	<0.5	0.60	<5	30	<0.5	<2	0.14	<0.5	<50	<1	12	4	0.43
P377665		4.76	0.024	<0.5	7.19	12	1240	0.9	<2	9.34	<0.5	<50	36	223	194	6.00
P377666		2.42	0.014	<0.5	7.17	20	1220	0.8	<2	9.34	<0.5	<50	45	222	139	6.04
P377667		3.76	0.020	<0.5	7.21	14	1240	0.9	<2	9.97	<0.5	<50	34	230	213	5.97
P377668		2.02	0.040	<0.5	6.31	15	960	0.7	<2	13.40	<0.5	<50	16	140	157	5.48
P377669		4.12	0.031	<0.5	7.45	13	1250	0.9	<2	10.25	<0.5	<50	31	240	225	6.15
P377670		2.36	<0.001	<0.5	0.08	6	60	<0.5	<2	20.8	<0.5	<50	<1	<1	3	0.50
P377671		4.98	0.013	<0.5	7.31	9	1370	0.9	<2	9.99	<0.5	<50	32	237	215	6.25
P377672		5.34	0.010	<0.5	7.25	7	1290	0.9	<2	9.87	<0.5	<50	34	237	221	6.22
P377672_PD		<0.02	0.010	<0.5	7.33	<5	1300	0.9	<2	9.92	<0.5	<50	34	231	218	6.26
P377673		5.02	0.012	<0.5	7.38	<5	1650	0.9	<2	9.65	<0.5	<50	33	232	235	6.06
P377673_CD		<0.02	0.012	<0.5	7.49	8	1680	0.9	<2	9.53	<0.5	<50	34	246	243	6.14
P377674		5.10	0.006	<0.5	6.96	7	1000	0.8	<2	11.60	<0.5	<50	29	219	195	5.73
P377675		5.14	0.006	<0.5	7.30	6	1420	0.8	<2	9.48	<0.5	<50	30	236	200	5.95
P377676		5.08	0.005	<0.5	7.35	6	1480	0.9	<2	9.72	<0.5	<50	30	234	204	5.92
P377677		4.70	0.005	<0.5	7.20	<5	1470	0.9	<2	9.91	<0.5	<50	30	238	206	5.84
P377678		4.96	0.013	<0.5	7.15	10	1490	0.9	<2	10.30	<0.5	<50	28	226	327	5.85
P377679		4.98	0.004	<0.5	7.28	6	1490	0.9	<2	10.35	<0.5	<50	30	214	165	5.86
P377680		0.14	0.321	2.5	7.13	81	2130	0.7	<2	3.49	2.4	<50	24	13	1835	6.13
P377681		5.16	0.005	<0.5	7.05	10	1340	0.9	<2	9.77	<0.5	<50	30	226	165	6.13
P377682		4.96	0.008	<0.5	7.04	8	1170	0.9	<2	10.00	<0.5	<50	27	216	198	5.84
P377683		4.92	0.015	<0.5	6.81	9	1280	0.8	<2	9.13	<0.5	<50	32	215	187	5.89
P377684		4.14	0.085	0.5	7.04	13	1080	0.8	<2	8.96	<0.5	<50	33	216	483	6.13
P377684_PB		0.22	<0.001	<0.5	0.56	<5	<10	<0.5	2	0.04	<0.5	<50	<1	8	5	0.57
P377685		3.24	0.031	<0.5	8.35	7	1450	1.0	2	6.46	<0.5	<50	13	18	126	5.80
P377686		4.84	0.004	<0.5	8.32	28	1530	1.1	<2	5.39	<0.5	<50	12	11	56	5.10

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277381

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Ga	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.01	10	10	0.01	5	1	0.01	5	1	10	2	10	0.01	5
P377651		20	2.00	10	10	2.88	1385	2	1.68	<5	152	2050	18	60	0.37	<5
P377652		20	1.73	10	<10	3.18	1500	1	1.42	<5	170	2100	9	70	0.44	<5
P377653		20	1.66	10	<10	2.94	1465	<1	1.29	<5	135	2030	2	60	0.70	<5
P377654		20	1.40	10	10	2.97	1590	<1	1.37	<5	129	1980	<2	50	0.93	<5
P377655		10	1.66	10	10	3.30	1290	<1	1.55	<5	158	1900	<2	60	0.98	<5
P377656		20	1.54	10	10	3.11	1390	<1	1.64	<5	109	1760	2	60	0.61	<5
P377657		20	1.41	10	10	3.18	1490	<1	1.60	<5	119	1940	<2	60	0.74	<5
P377658		20	1.37	10	10	3.44	1650	1	1.65	<5	148	1830	<2	60	1.15	<5
P377659		30	2.82	20	10	4.86	2940	<1	2.03	<5	242	3700	5	80	1.07	5
P377660		20	2.07	10	10	1.07	1490	10	2.07	<5	9	830	32	60	1.80	14
P377661		20	1.14	10	10	3.02	1680	<1	1.16	<5	130	2230	<2	50	0.38	<5
P377662		20	1.75	10	10	3.61	1375	<1	1.50	<5	158	1950	2	60	0.32	<5
P377663		20	1.53	10	10	3.63	1570	<1	1.39	<5	171	1930	<2	50	0.97	<5
P377664		20	1.45	10	10	3.61	1665	<1	1.37	<5	170	1990	<2	60	0.62	<5
P377664_PB		<10	0.24	10	<10	0.06	47	<1	0.03	<5	3	50	<2	20	0.01	<5
P377665		20	1.38	10	10	3.73	1465	<1	1.64	<5	159	2030	<2	50	0.58	<5
P377666		20	1.42	10	20	3.35	1420	1	1.61	<5	140	1960	3	50	0.93	5
P377667		20	1.22	10	10	3.46	1725	1	1.41	<5	150	1960	2	50	0.68	<5
P377668		10	1.07	10	10	2.79	2530	<1	0.72	<5	67	1960	<2	40	0.17	<5
P377669		20	1.55	10	10	3.26	1555	<1	1.62	<5	167	2110	<2	60	0.84	<5
P377670		<10	0.03	<10	<10	12.60	226	<1	0.01	<5	1	180	<2	20	<0.01	<5
P377671		20	1.65	10	10	3.53	1360	<1	1.50	<5	160	1920	3	70	0.75	<5
P377672		20	1.47	10	10	3.58	1340	<1	1.49	<5	159	1950	<2	60	0.54	<5
P377672_PD		20	1.47	10	10	3.61	1355	<1	1.50	<5	158	1960	2	60	0.53	<5
P377673		20	1.69	10	10	3.70	1405	<1	1.45	<5	163	2050	<2	50	0.31	<5
P377673_CD		20	1.76	10	10	3.76	1395	<1	1.50	<5	163	2040	<2	60	0.33	<5
P377674		20	1.29	10	<10	3.36	1600	<1	0.99	<5	138	1860	<2	50	0.33	<5
P377675		20	1.71	10	10	3.62	1390	<1	1.49	<5	138	2000	<2	60	0.50	<5
P377676		20	1.65	10	<10	3.31	1545	<1	1.35	<5	144	2020	3	60	0.51	<5
P377677		20	1.62	10	<10	3.28	1555	<1	1.33	<5	141	1990	3	60	0.53	<5
P377678		20	1.63	10	<10	3.28	1565	<1	1.23	<5	143	1950	4	60	0.56	<5
P377679		10	1.76	10	<10	3.29	1605	<1	1.32	<5	144	1860	3	60	0.56	<5
P377680		20	2.11	10	10	0.93	1235	27	2.35	<5	10	870	65	60	1.51	6
P377681		20	1.73	10	10	3.54	1595	<1	1.25	<5	154	1910	2	70	0.70	<5
P377682		20	1.36	10	10	3.39	1860	<1	1.33	<5	136	1900	<2	50	0.53	<5
P377683		10	1.60	10	10	3.55	1370	<1	1.49	<5	147	1730	3	60	0.52	<5
P377684		20	1.56	10	10	3.83	1400	1	1.61	<5	131	1790	2	60	0.34	<5
P377684_PB		<10	0.24	10	<10	0.03	55	<1	0.02	<5	1	30	<2	10	0.01	<5
P377685		20	3.35	10	20	2.16	1250	<1	2.35	<5	18	2200	3	70	0.02	8
P377686		20	4.16	10	20	1.77	1345	5	2.65	<5	8	2050	8	60	0.02	12

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277381

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	10	1	10	10	20	0.01	10	10	1	10	10	2	5
P377651		21	<10	<10	954	<10	10	<20	0.41	<10	<10	260	<10	20	213	65
P377652		23	<10	<10	1120	<10	20	<20	0.40	<10	<10	272	<10	20	88	67
P377653		21	10	<10	946	<10	10	<20	0.37	<10	<10	247	<10	10	75	62
P377654		21	<10	<10	814	<10	10	<20	0.37	<10	<10	256	<10	10	66	60
P377655		21	<10	<10	783	<10	10	<20	0.37	<10	<10	251	<10	10	56	54
P377656		23	<10	<10	992	<10	10	<20	0.46	<10	<10	273	<10	10	61	52
P377657		22	<10	<10	573	<10	10	<20	0.42	<10	<10	269	<10	10	56	57
P377658		22	10	<10	669	<10	10	<20	0.38	<10	<10	252	<10	10	55	58
P377659		28	10	<10	1900	<10	10	<20	0.65	<10	10	438	<10	20	132	111
P377660		16	<10	<10	372	<10	10	<20	0.32	<10	<10	169	<10	10	185	44
P377661		18	<10	<10	787	<10	10	<20	0.36	<10	<10	257	<10	10	64	63
P377662		22	<10	<10	829	<10	10	<20	0.38	<10	<10	259	<10	10	76	56
P377663		23	10	<10	714	<10	10	<20	0.39	<10	<10	262	<10	10	109	63
P377664		22	<10	<10	742	<10	10	<20	0.39	<10	<10	263	<10	10	88	66
P377664_PB		1	<10	<10	15	<10	<10	<20	0.04	<10	<10	7	<10	<10	2	10
P377665		22	<10	<10	618	<10	10	<20	0.38	<10	<10	253	<10	10	67	56
P377666		22	<10	<10	792	<10	10	<20	0.38	<10	<10	252	<10	10	57	52
P377667		21	<10	<10	725	<10	10	<20	0.37	<10	<10	254	<10	10	67	58
P377668		14	<10	<10	635	<10	10	<20	0.30	<10	<10	254	<10	10	59	58
P377669		22	<10	<10	717	<10	10	<20	0.39	<10	<10	272	<10	10	61	66
P377670		<1	<10	<10	54	<10	10	<20	<0.01	<10	<10	4	<10	<10	19	<5
P377671		22	<10	<10	739	<10	10	<20	0.38	<10	<10	260	<10	10	64	61
P377672		22	<10	<10	1105	<10	10	<20	0.38	<10	<10	263	<10	10	62	59
P377672_PD		22	<10	<10	1115	<10	10	<20	0.39	<10	<10	262	<10	10	61	59
P377673		22	10	<10	1080	<10	10	<20	0.39	<10	<10	259	<10	10	71	61
P377673_CD		22	<10	<10	1070	<10	10	<20	0.39	<10	<10	263	<10	10	72	59
P377674		21	<10	<10	1140	<10	10	<20	0.36	<10	<10	249	<10	10	99	59
P377675		22	<10	<10	964	<10	10	<20	0.38	<10	<10	260	<10	10	119	59
P377676		22	<10	<10	968	<10	10	<20	0.39	<10	<10	260	<10	10	132	66
P377677		22	<10	<10	965	<10	10	<20	0.38	<10	<10	260	<10	10	128	66
P377678		22	<10	<10	1290	<10	10	<20	0.37	<10	10	257	<10	10	115	64
P377679		21	<10	<10	1085	<10	10	<20	0.37	<10	<10	247	<10	10	108	68
P377680		13	10	<10	425	<10	10	<20	0.30	<10	<10	154	<10	10	336	47
P377681		22	<10	<10	834	<10	10	<20	0.38	<10	<10	255	<10	10	92	62
P377682		21	<10	<10	780	<10	10	<20	0.37	<10	<10	249	<10	10	82	65
P377683		21	<10	<10	734	<10	10	<20	0.36	<10	<10	239	<10	10	89	58
P377684		25	<10	<10	618	<10	10	<20	0.38	<10	<10	261	<10	10	100	48
P377684_PB		1	<10	<10	9	<10	<10	<20	0.04	<10	<10	5	<10	<10	<2	13
P377685		19	<10	<10	541	<10	10	<20	0.39	10	<10	274	<10	20	57	40
P377686		15	<10	<10	559	<10	10	<20	0.36	<10	<10	242	<10	10	67	53

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277381

Sample Description	Method Analyte Units LOR	Cu-OG62 Cu % 0.001
P377651		
P377652		
P377653		
P377654		
P377655		
P377656		
P377657		
P377658		
P377659		
P377660		0.254
P377661		
P377662		
P377663		
P377664		
P377664_PB		
P377665		
P377666		
P377667		
P377668		
P377669		
P377670		
P377671		
P377672		
P377672_PD		
P377673		
P377673_CD		
P377674		
P377675		
P377676		
P377677		
P377678		
P377679		
P377680		0.179
P377681		
P377682		
P377683		
P377684		
P377684_PB		
P377685		
P377686		

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277381

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	50	1	1	1	0.01
P377687		4.50	0.009	<0.5	8.21	24	1300	1.1	<2	5.19	<0.5	<50	9	10	60	4.74
P377688		4.56	0.035	<0.5	7.81	15	1330	1.1	<2	5.51	<0.5	<50	10	10	20	4.36
P377689		4.74	0.017	<0.5	9.03	7	1440	1.3	3	6.66	<0.5	<50	14	13	13	4.90
P377690		2.72	0.002	<0.5	0.08	<5	60	<0.5	<2	22.0	<0.5	<50	1	<1	1	0.51
P377691		4.72	0.102	<0.5	8.34	10	1490	1.2	2	5.74	<0.5	<50	13	13	6	4.88
P377692		4.48	0.004	<0.5	8.69	10	1570	1.2	<2	5.87	<0.5	<50	14	12	5	5.54
P377693		4.64	0.093	<0.5	8.61	6	1780	1.2	5	5.17	<0.5	<50	18	12	591	5.28
P377693_PD		<0.02	0.070	<0.5	9.11	10	1870	1.2	<2	5.41	<0.5	<50	20	14	618	5.53
P377694		4.62	0.005	<0.5	8.33	<5	1890	1.1	2	5.43	<0.5	<50	15	14	14	6.02
P377694_CD		<0.02	0.004	<0.5	8.45	7	1860	1.1	<2	5.42	<0.5	<50	14	13	14	5.91
P377695		2.52	0.019	<0.5	7.97	<5	1580	1.0	2	7.21	<0.5	<50	20	55	209	7.65
P377696		2.94	0.018	<0.5	9.12	<5	1370	0.9	<2	7.56	<0.5	<50	26	31	181	8.38
P377697		4.60	0.008	<0.5	8.03	8	1400	0.9	<2	9.21	<0.5	<50	34	249	171	6.90
P377698		4.74	0.010	<0.5	7.97	7	1190	1.0	3	9.99	<0.5	<50	26	232	169	6.70
P377699		3.30	0.015	<0.5	7.52	<5	1290	0.8	<2	9.67	<0.5	<50	42	257	230	6.63
P377700		0.14	0.715	1.4	7.41	96	1230	0.6	3	3.12	0.9	<50	35	13	2690	8.21
P377701		3.66	0.021	<0.5	8.91	9	1060	0.8	4	7.03	<0.5	<50	36	37	332	7.02
P377702		5.14	0.137	<0.5	8.03	11	980	1.0	<2	11.55	<0.5	<50	34	222	388	6.83
P377703		3.92	0.014	<0.5	8.07	<5	1490	1.0	<2	9.85	<0.5	<50	33	236	153	6.60
P377704		5.22	0.056	<0.5	7.72	<5	1390	0.8	2	7.59	<0.5	<50	33	108	211	7.41
P377704_PB		0.24	0.003	<0.5	0.60	<5	<10	<0.5	<2	0.05	<0.5	<50	<1	8	3	0.45
P377705		4.38	0.051	<0.5	8.12	6	1400	0.9	<2	7.89	<0.5	<50	35	105	179	7.79
P377706		6.24	0.044	<0.5	8.23	6	1420	1.0	2	10.45	<0.5	<50	32	203	315	6.83
P377707		5.12	0.024	<0.5	7.90	6	1370	0.9	3	9.54	<0.5	<50	27	243	257	6.56
P377708		5.02	0.028	<0.5	8.05	5	1470	0.9	<2	10.15	<0.5	<50	28	220	316	6.22
P377709		4.78	0.025	<0.5	7.77	5	1270	0.9	<2	10.10	<0.5	<50	33	233	343	6.20
P377710		3.96	0.002	<0.5	0.08	<5	60	<0.5	<2	21.1	<0.5	<50	<1	<1	3	0.51
P377711		5.18	0.013	<0.5	7.54	<5	1220	0.9	<2	9.50	<0.5	<50	32	225	193	6.05
P377712		5.08	0.026	<0.5	7.52	8	940	0.9	<2	10.05	<0.5	<50	38	231	308	6.36
P377713		5.08	0.036	<0.5	7.72	6	1670	1.0	<2	8.56	<0.5	<50	29	226	342	6.24
P377714		5.18	0.039	<0.5	8.12	10	1070	1.0	<2	8.87	<0.5	<50	34	214	381	6.38
P377714_PD		<0.02	0.028	<0.5	7.71	11	1020	1.0	<2	8.49	<0.5	<50	33	207	365	6.13
P377715		5.04	0.011	<0.5	7.48	10	970	0.9	<2	9.48	<0.5	<50	29	196	204	6.03
P377715_CD		<0.02	0.009	<0.5	7.71	6	1160	0.9	<2	9.71	<0.5	<50	31	211	184	6.35
P377716		5.14	0.017	<0.5	7.62	12	990	0.9	<2	9.06	<0.5	<50	27	215	204	6.45
P377717		5.04	0.032	<0.5	7.32	20	690	0.9	<2	10.55	<0.5	<50	22	200	185	6.09
P377718		2.56	0.088	<0.5	7.13	15	720	0.9	<2	10.55	<0.5	<50	32	190	330	6.36
P377719		3.92	0.093	<0.5	7.54	10	720	0.9	<2	5.75	<0.5	<50	27	216	173	5.76
P377720		0.14	0.296	2.6	7.45	90	1340	0.7	<2	3.53	2.5	<50	24	14	1870	6.28
P377721		3.28	0.018	<0.5	7.47	8	2100	0.6	<2	4.89	<0.5	<50	18	92	125	5.45

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277381

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Ga	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.01	10	10	0.01	5	1	0.01	5	1	10	2	10	0.01	5
P377687		20	3.74	10	20	1.70	1250	<1	2.65	<5	8	1940	6	60	0.04	11
P377688		20	3.65	<10	20	1.64	1115	<1	2.79	<5	7	1920	8	60	0.03	13
P377689		20	3.95	10	30	1.96	1105	<1	3.01	<5	10	2170	5	70	0.03	<5
P377690		<10	0.03	<10	<10	13.15	223	<1	0.01	<5	1	180	30	10	0.01	<5
P377691		20	3.88	10	30	1.87	1040	18	2.80	<5	8	2030	9	70	0.01	7
P377692		20	3.73	10	30	2.02	1085	38	2.82	<5	8	2120	2	70	0.02	9
P377693		20	4.00	10	30	2.46	865	3	2.78	<5	10	2140	4	70	0.08	7
P377693_PD		20	4.19	10	30	2.57	898	3	2.94	<5	10	2270	2	60	0.09	8
P377694		20	4.06	<10	20	2.03	878	4	2.71	<5	10	2180	3	70	0.01	7
P377694_CD		20	4.00	10	20	2.01	860	3	2.69	<5	8	2160	2	70	0.01	8
P377695		20	3.35	10	20	2.99	1140	2	2.20	<5	32	1920	2	70	0.03	10
P377696		20	2.84	10	20	3.13	1195	<1	2.24	<5	26	2630	<2	70	0.03	7
P377697		20	2.04	10	20	4.43	1505	<1	1.82	<5	166	2100	3	60	0.08	5
P377698		20	1.65	10	20	4.14	1615	<1	1.86	<5	157	2130	4	60	0.09	9
P377699		20	1.86	10	20	4.11	1515	1	1.55	<5	166	1920	7	60	0.69	8
P377700		20	2.21	10	30	1.10	1500	11	2.15	<5	10	860	34	60	1.81	14
P377701		20	1.69	10	10	2.67	1195	1	3.06	<5	19	1920	6	30	2.57	9
P377702		20	1.27	10	20	3.98	1810	<1	1.62	<5	146	2100	<2	50	0.55	10
P377703		20	1.78	10	20	4.27	1500	<1	1.81	<5	158	2230	5	60	0.32	5
P377704		20	2.41	10	20	3.47	1420	<1	2.00	<5	64	1940	2	70	0.55	9
P377704_PB		<10	0.26	10	<10	0.04	36	<1	0.02	<5	2	40	<2	10	0.01	<5
P377705		20	2.52	10	10	3.65	1475	1	2.13	<5	61	2070	7	70	0.46	<5
P377706		20	1.77	10	20	3.75	1740	<1	1.77	<5	117	2190	7	60	0.31	6
P377707		20	1.74	10	20	3.94	1525	<1	1.80	<5	145	2140	2	50	0.05	7
P377708		20	1.71	10	20	3.58	1575	<1	1.68	<5	124	2230	4	50	0.24	<5
P377709		20	1.50	10	10	3.73	1535	1	1.68	<5	152	2110	8	60	0.23	<5
P377710		<10	0.03	<10	<10	12.70	227	<1	0.01	<5	2	190	<2	10	<0.01	<5
P377711		20	1.56	10	10	3.71	1380	<1	1.60	<5	160	2100	<2	60	0.40	<5
P377712		20	1.22	10	10	3.91	1465	<1	1.58	<5	182	2020	2	60	0.43	<5
P377713		20	1.69	10	30	4.32	1430	<1	1.87	<5	142	2240	2	60	0.21	<5
P377714		20	1.52	10	30	4.85	1480	<1	2.05	<5	146	2270	<2	60	0.40	<5
P377714_PD		20	1.45	10	20	4.63	1415	<1	1.94	<5	140	2180	<2	50	0.38	<5
P377715		20	1.31	10	10	4.13	1430	<1	1.75	<5	140	2090	3	60	0.27	<5
P377715_CD		20	1.49	10	10	4.25	1460	<1	1.77	<5	147	2140	3	60	0.27	<5
P377716		20	1.47	10	20	4.25	1505	<1	1.93	<5	150	2020	2	60	0.20	<5
P377717		20	1.01	10	10	3.71	1780	1	1.66	<5	118	2100	5	50	0.38	<5
P377718		10	1.14	10	20	3.65	1825	<1	1.69	<5	125	2020	4	60	0.85	<5
P377719		20	1.92	10	20	4.09	1215	<1	2.23	<5	141	2030	<2	70	0.35	<5
P377720		20	2.16	10	10	0.96	1245	29	2.37	<5	9	870	66	60	1.51	5
P377721		20	4.81	10	20	2.26	1090	<1	1.62	<5	36	1140	2	70	0.35	<5

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277381

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	10	1	10	10	20	0.01	10	10	1	10	10	2	5
P377687		15	<10	<10	554	<10	10	<20	0.33	<10	<10	226	<10	10	69	49
P377688		14	<10	<10	455	<10	10	<20	0.34	<10	<10	225	<10	10	73	50
P377689		17	<10	<10	448	<10	10	<20	0.38	<10	<10	258	<10	20	75	55
P377690		<1	<10	<10	57	<10	10	<20	<0.01	<10	<10	3	<10	<10	16	<5
P377691		16	<10	<10	415	<10	<10	<20	0.36	<10	<10	242	<10	10	68	49
P377692		17	10	<10	474	<10	10	<20	0.37	10	<10	254	<10	20	51	51
P377693		16	<10	<10	667	<10	10	<20	0.38	<10	<10	256	<10	10	67	47
P377693_PD		18	<10	<10	697	<10	10	<20	0.40	<10	<10	269	<10	20	69	51
P377694		16	<10	<10	744	<10	<10	<20	0.38	10	<10	259	<10	10	35	44
P377694_CD		17	<10	<10	728	<10	10	<20	0.38	<10	<10	257	<10	10	34	43
P377695		29	<10	<10	741	<10	10	<20	0.43	<10	<10	313	10	10	41	38
P377696		30	<10	<10	1055	<10	10	<20	0.48	10	<10	337	<10	20	44	33
P377697		24	<10	<10	1010	<10	10	<20	0.39	<10	<10	276	<10	20	57	53
P377698		23	<10	<10	918	<10	10	<20	0.40	<10	<10	273	<10	20	68	66
P377699		24	<10	<10	1345	<10	10	<20	0.38	<10	<10	258	<10	20	79	58
P377700		16	<10	<10	380	<10	10	<20	0.31	<10	<10	174	<10	20	184	43
P377701		23	<10	<10	870	<10	10	<20	0.60	<10	<10	247	<10	30	51	35
P377702		23	<10	<10	1135	<10	10	<20	0.40	10	<10	266	<10	20	86	70
P377703		24	<10	<10	1130	<10	20	<20	0.40	<10	<10	273	<10	20	75	67
P377704		29	<10	<10	898	<10	10	<20	0.46	<10	<10	295	<10	20	74	47
P377704_PB		1	<10	<10	11	<10	<10	<20	0.04	<10	<10	6	<10	<10	<2	10
P377705		32	10	<10	927	<10	10	<20	0.49	<10	<10	317	<10	20	77	51
P377706		24	<10	<10	805	<10	10	<20	0.41	<10	<10	270	<10	20	103	67
P377707		23	10	<10	816	<10	10	<20	0.40	10	<10	269	<10	20	78	65
P377708		22	10	<10	848	<10	10	<20	0.39	10	<10	257	<10	20	81	68
P377709		22	<10	<10	942	<10	10	<20	0.41	<10	<10	274	<10	10	101	65
P377710		<1	<10	<10	56	<10	10	<20	0.01	<10	<10	3	<10	<10	18	<5
P377711		21	<10	<10	775	<10	10	<20	0.39	<10	<10	264	<10	10	85	55
P377712		22	<10	<10	989	<10	10	<20	0.39	<10	<10	270	<10	10	117	59
P377713		22	<10	<10	1030	<10	10	<20	0.41	<10	<10	277	<10	10	76	65
P377714		22	<10	<10	907	<10	10	<20	0.42	<10	<10	282	<10	20	73	62
P377714_PD		21	<10	<10	873	<10	10	<20	0.41	<10	<10	269	<10	10	71	59
P377715		21	<10	<10	1120	<10	10	<20	0.39	<10	<10	256	<10	10	69	64
P377715_CD		22	<10	<10	1210	<10	10	<20	0.40	<10	<10	275	<10	10	73	66
P377716		23	<10	<10	832	<10	10	<20	0.40	<10	<10	268	<10	20	68	64
P377717		22	<10	<10	824	<10	10	<20	0.39	<10	<10	259	<10	10	74	65
P377718		21	<10	<10	1015	<10	10	<20	0.37	<10	<10	239	<10	10	82	64
P377719		20	<10	<10	978	<10	10	<20	0.40	<10	<10	271	<10	10	55	63
P377720		13	10	<10	428	<10	10	<20	0.30	<10	<10	158	<10	10	341	45
P377721		16	<10	<10	944	<10	10	<20	0.40	<10	<10	196	<10	10	52	37

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277381

Sample Description	Method Analyte Units LOR	Cu-OG62 Cu % 0.001
P377687		
P377688		
P377689		
P377690		
P377691		
P377692		
P377693		
P377693_PD		
P377694		
P377694_CD		
P377695		
P377696		
P377697		
P377698		
P377699		
P377700		0.264
P377701		
P377702		
P377703		
P377704		
P377704_PB		
P377705		
P377706		
P377707		
P377708		
P377709		
P377710		
P377711		
P377712		
P377713		
P377714		
P377714_PD		
P377715		
P377715_CD		
P377716		
P377717		
P377718		
P377719		
P377720		0.186
P377721		

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277381

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Ce ppm 50	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
P377722		4.92	0.009	<0.5	8.00	10	1270	0.7	<2	5.74	<0.5	<50	20	129	79	6.10
P377723		4.74	0.015	<0.5	8.62	17	1380	0.7	<2	7.53	<0.5	<50	21	133	95	6.27
P377724		4.60	0.048	<0.5	7.90	9	890	0.7	<2	6.57	<0.5	<50	18	126	141	6.25
P377724_PB		0.22	<0.001	<0.5	0.50	<5	20	<0.5	<2	0.02	<0.5	<50	<1	8	2	0.38
P377725		4.92	0.032	<0.5	7.64	10	1310	0.7	<2	6.36	<0.5	<50	23	133	262	6.32
P377726		4.84	0.005	<0.5	7.52	9	2520	0.7	<2	7.36	<0.5	<50	19	127	23	6.54
P377727		4.94	0.004	<0.5	7.29	8	2400	0.7	<2	7.09	<0.5	<50	22	191	39	6.54
P377728		4.74	0.026	<0.5	7.44	15	2220	0.6	<2	6.19	<0.5	<50	25	142	89	7.28
P377729		4.78	0.022	<0.5	7.34	9	1950	0.7	<2	5.49	<0.5	<50	27	148	71	7.17
P377730		3.06	0.002	<0.5	0.07	<5	30	<0.5	<2	21.5	<0.5	<50	<1	<1	1	0.51
P377731		4.86	0.005	<0.5	7.51	7	1750	0.8	<2	6.64	<0.5	<50	19	136	35	7.17
P377732		4.76	0.006	<0.5	7.48	8	1620	0.7	<2	6.74	<0.5	<50	21	123	39	7.00
P377733		4.26	0.007	<0.5	7.46	9	1640	0.7	<2	6.78	<0.5	<50	24	125	37	6.95
P377734		4.54	0.058	<0.5	7.28	11	630	0.7	<2	8.21	<0.5	<50	24	193	245	6.84
P377734_PD		<0.02	0.052	<0.5	7.66	13	650	0.7	<2	8.52	<0.5	<50	24	199	253	7.05
P377735		4.98	0.006	<0.5	7.23	7	1760	0.7	<2	7.34	<0.5	<50	15	146	50	5.90
P377735_CD		<0.02	0.008	<0.5	7.10	8	1780	0.7	<2	7.30	<0.5	<50	14	143	43	5.89
P377736		4.62	0.116	<0.5	7.54	19	720	0.7	<2	9.16	<0.5	<50	34	190	356	6.82
P377737		5.02	0.080	<0.5	6.40	13	570	0.6	<2	8.71	<0.5	<50	28	418	270	7.14
P377738		4.28	0.033	<0.5	7.77	13	1160	0.7	<2	8.35	<0.5	<50	36	157	123	6.36
P377739		3.30	0.220	0.6	7.45	15	450	0.7	<2	9.86	<0.5	<50	42	231	1300	6.99
P377740		0.14	0.716	1.4	6.80	81	1390	0.6	<2	2.99	0.9	<50	31	13	2390	7.61
P377741		4.60	0.023	<0.5	7.14	8	820	0.6	<2	9.66	<0.5	<50	17	179	76	6.41
P377742		4.92	0.010	<0.5	7.45	8	470	0.6	<2	8.92	<0.5	<50	18	207	62	6.94
P377743		4.90	0.069	<0.5	7.09	13	440	0.6	<2	9.92	<0.5	<50	37	235	395	6.59
P377744		4.70	0.007	<0.5	7.77	13	470	0.6	<2	9.87	<0.5	<50	17	239	34	6.80
P377744_PB		0.20	0.001	<0.5	0.62	<5	20	<0.5	<2	0.17	<0.5	<50	<1	14	2	0.48
P377745		4.82	0.007	<0.5	6.82	13	360	0.6	<2	10.80	<0.5	<50	22	316	57	7.34
P377746		4.64	0.021	<0.5	6.19	16	130	0.5	<2	12.80	<0.5	<50	26	297	112	7.68
P377747		5.02	0.007	<0.5	6.37	10	400	0.6	<2	11.85	<0.5	<50	24	297	57	7.23
P377748		5.02	0.008	<0.5	6.31	13	270	0.5	<2	11.40	<0.5	<50	21	339	45	7.71
P377749		4.84	0.031	<0.5	6.80	17	430	0.6	<2	11.50	<0.5	<50	32	306	248	8.63
P377750		2.88	0.001	<0.5	0.07	<5	30	<0.5	<2	21.7	<0.5	<50	<1	<1	2	0.55
P377751		5.14	0.044	<0.5	6.22	11	470	0.5	<2	12.40	<0.5	<50	24	333	226	7.88
P377752		3.08	0.019	<0.5	6.08	7	170	0.5	<2	14.7	<0.5	<50	21	346	133	7.73
P377753		4.68	0.020	<0.5	6.34	8	610	0.5	<2	7.62	<0.5	<50	35	385	3	6.29
P377754		5.40	0.001	<0.5	6.15	13	590	0.5	<2	7.12	<0.5	<50	37	412	<1	6.51
P377755		5.06	0.009	<0.5	6.32	7	650	0.5	<2	7.21	<0.5	<50	40	399	26	6.61
P377756		4.96	0.006	<0.5	6.04	9	630	0.5	<2	6.90	<0.5	<50	39	394	19	6.36
P377756_PD		<0.02	0.005	<0.5	6.19	7	640	0.5	<2	7.02	<0.5	<50	39	386	21	6.46

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277381

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01	ME-ICP61 La ppm 10	ME-ICP61 Li ppm 10	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Nb ppm 5	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 Rb ppm 10	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5
P377722		20	2.88	10	20	2.80	1330	<1	2.59	<5	41	1220	4	60	0.41	<5
P377723		20	2.72	10	20	2.66	1590	<1	2.55	<5	42	1210	2	70	0.49	<5
P377724		20	1.74	10	30	3.07	1580	<1	2.86	<5	49	1240	<2	50	0.32	<5
P377724_PB		<10	0.22	10	<10	0.03	30	<1	0.01	<5	<1	30	<2	20	<0.01	<5
P377725		20	2.49	10	20	3.24	1405	1	2.44	<5	51	1290	5	70	0.58	<5
P377726		20	3.77	10	20	4.07	1355	3	1.50	<5	54	1520	<2	100	0.13	<5
P377727		20	3.48	10	30	4.72	1340	2	1.44	<5	104	1430	2	100	0.22	<5
P377728		20	3.22	10	20	4.22	1300	1	1.76	<5	57	1530	<2	80	1.33	<5
P377729		10	2.82	10	20	4.51	1125	1	2.00	<5	59	1490	<2	80	0.95	<5
P377730		<10	0.03	<10	<10	13.00	220	<1	0.01	<5	1	210	<2	10	0.01	<5
P377731		20	2.67	10	20	4.31	1195	1	2.01	<5	58	1500	<2	70	0.02	<5
P377732		20	2.55	10	10	4.02	1190	1	2.07	<5	53	1480	<2	70	0.04	<5
P377733		20	2.60	10	10	4.01	1190	1	2.06	<5	53	1500	2	70	0.05	<5
P377734		20	1.51	10	20	3.98	1765	<1	2.40	<5	80	1440	<2	60	0.11	<5
P377734_PD		20	1.57	10	20	4.10	1825	<1	2.48	<5	82	1480	<2	70	0.11	<5
P377735		10	2.69	10	30	3.88	1370	2	1.89	<5	61	1380	<2	90	0.01	<5
P377735_CD		20	2.71	10	30	3.87	1360	2	1.86	<5	63	1390	<2	80	0.01	<5
P377736		20	1.41	10	20	3.43	1690	<1	1.96	<5	73	1380	4	50	0.18	<5
P377737		10	1.51	10	20	5.27	1795	1	1.85	<5	124	1140	<2	60	0.07	<5
P377738		20	2.21	10	30	4.04	1615	2	2.23	<5	69	1500	3	80	0.22	<5
P377739		20	1.78	10	20	3.57	2460	<1	1.47	<5	103	1300	2	70	0.25	<5
P377740		20	2.04	10	20	1.06	1385	11	2.03	<5	10	780	34	50	1.70	10
P377741		10	2.08	10	20	3.47	2070	1	1.54	<5	69	1240	2	50	0.03	<5
P377742		20	1.69	10	20	3.81	2180	<1	1.97	<5	73	970	<2	60	0.01	<5
P377743		20	1.61	10	30	4.34	2340	2	1.51	<5	95	990	4	60	0.12	<5
P377744		10	1.56	10	30	4.30	2550	<1	1.72	<5	95	1030	<2	60	0.01	<5
P377744_PB		<10	0.25	10	<10	0.09	76	1	0.03	<5	2	40	<2	10	<0.01	<5
P377745		10	1.06	10	30	4.79	2800	<1	1.16	<5	109	1200	<2	40	0.02	<5
P377746		10	0.50	10	20	4.67	2980	<1	0.60	<5	86	1040	2	20	0.03	<5
P377747		10	1.20	10	30	4.78	2720	1	0.66	<5	106	1100	12	40	0.02	<5
P377748		10	0.89	10	30	5.02	2830	<1	0.94	<5	101	1140	2	30	0.01	<5
P377749		10	1.24	10	30	4.81	2870	<1	0.74	<5	104	1210	12	40	0.06	<5
P377750		<10	0.03	<10	<10	13.00	227	1	0.01	<5	2	200	2	10	0.01	<5
P377751		10	1.18	10	30	5.32	3130	<1	0.43	<5	146	1180	7	40	0.04	<5
P377752		10	0.96	10	20	5.27	2900	<1	0.24	<5	188	1040	2	40	0.02	<5
P377753		10	2.55	<10	30	6.44	1280	<1	1.30	<5	263	1000	<2	80	<0.01	<5
P377754		10	2.02	10	20	6.56	963	1	1.47	<5	263	980	<2	50	<0.01	<5
P377755		10	1.91	10	20	6.73	1135	<1	1.52	<5	266	1000	<2	40	<0.01	<5
P377756		10	1.72	10	10	6.57	1125	<1	1.60	<5	270	970	<2	40	0.03	<5
P377756_PD		10	1.74	<10	10	6.74	1140	<1	1.62	<5	271	990	<2	30	0.03	<5

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277381

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	10	1	10	10	20	0.01	10	10	1	10	10	2	5
P377722		24	<10	<10	969	<10	10	<20	0.40	<10	<10	221	<10	20	66	39
P377723		26	<10	<10	1190	<10	10	<20	0.38	<10	<10	221	<10	20	71	39
P377724		26	<10	<10	1045	<10	10	<20	0.39	<10	<10	228	<10	20	71	40
P377724_PB		1	<10	<10	7	<10	<10	<20	0.04	<10	<10	4	<10	<10	3	9
P377725		29	<10	<10	948	<10	10	<20	0.42	<10	<10	251	<10	20	81	44
P377726		38	<10	<10	672	<10	10	<20	0.51	<10	<10	299	<10	20	70	57
P377727		37	<10	<10	664	<10	10	<20	0.51	<10	<10	291	<10	20	71	57
P377728		37	10	<10	722	<10	10	<20	0.51	<10	<10	291	<10	20	62	148
P377729		38	<10	<10	633	<10	20	<20	0.51	<10	<10	293	<10	20	54	60
P377730		<1	<10	<10	55	<10	10	<20	<0.01	<10	<10	3	<10	<10	16	<5
P377731		39	<10	<10	723	<10	10	<20	0.51	<10	<10	301	<10	20	57	60
P377732		36	<10	<10	656	<10	10	<20	0.51	<10	<10	291	<10	20	61	59
P377733		36	<10	<10	659	<10	10	<20	0.52	<10	<10	292	<10	20	62	60
P377734		36	<10	<10	601	<10	10	<20	0.44	<10	<10	268	<10	20	82	45
P377734_PD		38	<10	<10	618	<10	10	<20	0.46	<10	10	276	<10	20	84	51
P377735		35	<10	<10	609	<10	10	<20	0.47	<10	<10	275	<10	20	65	52
P377735_CD		34	<10	<10	606	<10	10	<20	0.46	<10	10	278	<10	20	64	46
P377736		33	<10	<10	869	<10	10	<20	0.42	<10	<10	243	<10	20	73	49
P377737		50	<10	<10	458	<10	10	<20	0.42	<10	<10	301	<10	20	89	34
P377738		39	<10	<10	619	<10	10	<20	0.49	<10	<10	288	<10	20	100	54
P377739		31	10	<10	647	<10	10	<20	0.35	<10	<10	240	<10	20	86	33
P377740		15	<10	<10	342	<10	<10	<20	0.30	<10	<10	152	<10	10	170	40
P377741		29	<10	<10	616	<10	10	<20	0.37	<10	<10	251	<10	20	83	37
P377742		32	<10	<10	544	<10	<10	<20	0.41	<10	<10	266	<10	20	88	34
P377743		33	<10	<10	630	<10	<10	<20	0.35	<10	<10	227	<10	10	122	30
P377744		33	<10	<10	607	<10	10	<20	0.36	<10	<10	230	10	20	138	31
P377744_PB		1	<10	<10	14	<10	<10	<20	0.04	<10	<10	8	<10	<10	3	10
P377745		37	<10	<10	763	10	<10	<20	0.40	<10	<10	264	<10	20	121	34
P377746		41	<10	<10	892	10	10	<20	0.39	<10	<10	278	<10	20	78	30
P377747		36	<10	<10	664	<10	10	<20	0.40	<10	<10	284	<10	20	116	32
P377748		43	<10	<10	730	10	<10	<20	0.43	<10	<10	293	<10	20	125	31
P377749		37	<10	<10	836	10	10	<20	0.44	<10	<10	310	10	20	136	31
P377750		<1	<10	<10	55	<10	<10	<20	<0.01	<10	<10	3	<10	<10	16	<5
P377751		36	<10	<10	628	10	10	<20	0.39	<10	<10	266	<10	10	125	31
P377752		30	<10	<10	538	10	<10	<20	0.32	<10	<10	218	<10	10	80	29
P377753		30	<10	<10	526	<10	<10	<20	0.32	<10	<10	211	<10	10	70	28
P377754		30	<10	<10	530	<10	<10	<20	0.32	<10	<10	210	<10	10	54	28
P377755		31	<10	<10	481	<10	10	<20	0.32	<10	<10	222	<10	10	70	29
P377756		28	<10	<10	458	<10	<10	<20	0.31	<10	<10	193	<10	10	77	28
P377756_PD		29	<10	<10	466	<10	10	<20	0.32	<10	<10	195	<10	10	78	28

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277381

Sample Description	Method Analyte Units LOR	Cu-OG62 Cu % 0.001
P377722		
P377723		
P377724		
P377724_PB		
P377725		
P377726		
P377727		
P377728		
P377729		
P377730		
P377731		
P377732		
P377733		
P377734		
P377734_PD		
P377735		
P377735_CD		
P377736		
P377737		
P377738		
P377739		0.125
P377740		0.259
P377741		
P377742		
P377743		
P377744		
P377744_PB		
P377745		
P377746		
P377747		
P377748		
P377749		
P377750		
P377751		
P377752		
P377753		
P377754		
P377755		
P377756		
P377756_PD		

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277381

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Ce ppm 50	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01
P377757		4.98	0.003	<0.5	6.36	<5	780	0.5	<2	6.87	<0.5	<50	39	402	9	6.56
P377757_CD		<0.02	0.004	<0.5	6.27	9	770	0.5	<2	6.81	<0.5	<50	39	395	6	6.50
P377758		5.26	0.014	<0.5	6.28	<5	860	0.5	<2	6.69	<0.5	<50	39	371	40	6.53
P377759		4.78	0.016	<0.5	6.30	9	770	0.5	<2	6.64	<0.5	<50	37	378	85	6.48
P377760		0.14	0.272	2.4	7.11	72	2130	0.6	<2	3.51	2.4	<50	22	13	1790	6.26
P377761		4.44	0.024	<0.5	6.27	<5	780	0.5	<2	6.68	<0.5	<50	39	390	157	6.55
P377762		3.66	0.026	<0.5	6.24	<5	600	0.5	<2	7.08	<0.5	<50	40	394	6	6.73

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277381

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Ga	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	10	0.01	10	10	0.01	5	1	0.01	5	1	10	2	10	0.01	5
P377757		10	1.99	<10	10	6.66	1175	1	1.51	<5	264	970	2	50	0.01	<5
P377757_CD		10	1.95	<10	10	6.60	1165	<1	1.49	<5	262	970	2	50	0.01	<5
P377758		10	2.22	<10	10	6.70	1150	<1	1.49	<5	270	970	<2	50	0.01	<5
P377759		10	2.24	<10	10	6.55	1100	<1	1.46	<5	262	970	<2	50	0.01	<5
P377760		20	2.14	10	20	0.94	1200	29	2.40	<5	9	820	64	50	1.48	<5
P377761		10	2.22	<10	10	6.66	1100	1	1.48	<5	267	990	<2	50	0.02	<5
P377762		10	2.07	<10	10	6.66	1170	<1	1.37	<5	269	990	<2	50	<0.01	<5

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277381

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	10	10	1	10	10	20	0.01	10	10	1	10	10	2	5
P377757		31	<10	<10	470	<10	10	<20	0.32	<10	<10	211	<10	10	81	29
P377757_CD		30	<10	<10	460	<10	10	<20	0.31	<10	<10	207	<10	10	81	29
P377758		29	<10	<10	479	<10	10	<20	0.32	<10	<10	197	<10	10	74	28
P377759		30	<10	<10	470	<10	<10	<20	0.32	<10	<10	201	<10	10	65	28
P377760		12	<10	<10	406	<10	<10	<20	0.29	<10	<10	145	<10	10	311	44
P377761		29	<10	<10	457	<10	<10	<20	0.32	<10	<10	200	<10	10	66	28
P377762		30	<10	<10	481	<10	<10	<20	0.32	<10	<10	241	<10	10	70	28

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 7- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277381

Sample Description	Method Analyte Units LOR	Cu-OG62 Cu % 0.001
P377757		
P377757_CD		
P377758		
P377759		
P377760		0.187
P377761		
P377762		

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 21- DEC- 2012
Account: GOFICA

CERTIFICATE VA12277387

Project: Red Gold

P.O. No.: RG- 2012- 014c

This report is for 127 Crushed Core samples submitted to our lab in Vancouver, BC, Canada on 5- DEC- 2012.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL	NATE BREWER	MATT ECKFELDT
JULIANNE MADSEN	AMELIA RAINBOW	ROSS SHERLOCK
TWILA SKINNER	TIM STUBLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WSH- 22	"Wash" pulverizers
SPL- 21d	Split sample - duplicate
PUL- 32d	Pulverize Split - Dup 85% <75um
LOG- 21d	Sample logging - ClientBarCode Dup
LOG- 23	Pulp Login - Rcvd with Barcode
SPL- 34	Pulp Splitting Charge
WEI- 25	Wt. of Crushed Reject
BAG- 01	Bulk Master for Storage
LOG- 22	Sample login - Rcd w/o BarCode
SPL- 21	Split sample - riffle splitter
PUL- 32	Pulverize 1000g to 85% < 75 um
PUL- QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 21- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277387

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P377651		0.024	0.700
P377652		0.029	4.90
P377653		0.029	4.76
P377654		0.031	4.66
P377655		0.015	4.08
P377656		0.025	5.06
P377657		0.018	4.50
P377658		0.028	4.46
P377659		0.046	4.46
P377660		0.648	
P377661		0.024	4.00
P377662		0.013	4.40
P377663		0.005	4.02
P377664		0.014	4.72
P377664_PB		0.003	
P377665		0.023	4.42
P377666		0.020	2.12
P377667		0.021	3.46
P377668		0.040	1.720
P377669		0.039	3.80
P377670		0.002	2.06
P377671		0.015	4.62
P377672		0.009	4.96
P377672_PD		0.010	
P377673		0.010	4.44
P377673_CD		0.009	
P377674		0.005	4.74
P377675		0.006	4.86
P377676		0.005	4.72
P377677		0.005	4.34
P377678		0.012	4.58
P377679		0.005	4.62
P377680		0.284	
P377681		0.004	4.84
P377682		0.008	4.62
P377683		0.011	4.56
P377684		0.151	3.80
P377684_PB		0.002	
P377685		0.026	2.92
P377686		0.006	4.50

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 21- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277387

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P377687		0.009	4.16
P377688		0.043	4.20
P377689		0.020	4.40
P377690		0.002	2.36
P377691		0.025	4.40
P377692		0.005	4.14
P377693		0.055	4.30
P377693_PD		0.066	
P377694		0.005	4.04
P377694_CD		0.005	
P377695		0.015	2.22
P377696		0.021	2.66
P377697		0.014	4.30
P377698		0.009	4.56
P377699		0.014	3.00
P377700		0.675	
P377701		0.024	3.36
P377702		0.196	4.78
P377703		0.015	3.58
P377704		0.053	4.64
P377704_PB		<0.001	
P377705		0.052	4.44
P377706		0.045	5.88
P377707		0.019	4.76
P377708		0.021	4.62
P377709		0.024	4.44
P377710		0.002	3.64
P377711		0.011	4.84
P377712		0.024	4.74
P377713		0.033	4.74
P377714		0.044	4.82
P377714_PD		0.032	
P377715		0.010	4.40
P377715_CD		0.009	
P377716		0.020	4.76
P377717		0.035	4.70
P377718		0.098	2.28
P377719		0.047	3.66
P377720		0.278	
P377721		0.021	3.04

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 21- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277387

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P377722		0.022	4.62
P377723		0.017	4.46
P377724		0.035	4.34
P377724_PB		0.002	
P377725		0.037	4.64
P377726		0.006	4.56
P377727		0.006	4.66
P377728		0.027	4.44
P377729		0.019	4.48
P377730		0.003	2.80
P377731		0.011	4.58
P377732		0.008	4.44
P377733		0.006	3.96
P377734		0.079	4.28
P377734_PD		0.042	
P377735		0.012	4.44
P377735_CD		0.009	
P377736		0.128	4.32
P377737		0.052	4.74
P377738		0.049	4.02
P377739		0.245	2.92
P377740		0.716	
P377741		0.019	4.26
P377742		0.018	4.56
P377743		0.082	4.48
P377744		0.006	4.34
P377744_PB		0.001	
P377745		0.010	4.40
P377746		0.021	4.22
P377747		0.013	4.58
P377748		0.009	4.62
P377749		0.044	4.42
P377750		0.002	2.52
P377751		0.029	4.68
P377752		0.013	2.68
P377753		0.020	4.34
P377754		0.003	5.02
P377755		0.009	4.72
P377756		0.005	4.32
P377756_PD		0.006	

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 21- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12277387

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 25 Reject W kg 0.001
P377757		0.004	4.38
P377757_CD		0.003	
P377758		0.016	4.92
P377759		0.014	4.46
P377760		0.314	
P377761		0.025	4.10
P377762		0.027	3.34

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 10- DEC- 2012
Account: GOFICA

CERTIFICATE VA12285463

Project: Red Gold

P.O. No.: RG- 2012- 015c

This report is for 189 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 4- DEC- 2012.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL	NATE BREWER	MATT ECKFELDT
JULIANNE MADSEN	AMELIA RAINBOW	ROSS SHERLOCK
TWILA SKINNER	TIM STUBLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
WSH- 22	"Wash" pulverizers
SPL- 21d	Split sample - duplicate
LOG- 22	Sample login - Rcd w/o BarCode
PUL- 32d	Pulverize Split - Dup 85% <75um
LOG- 21d	Sample logging - ClientBarCode Dup
LOG- 23	Pulp Login - Rcvd with Barcode
SPL- 34	Pulp Splitting Charge
BAG- 01	Bulk Master for Storage
CRU- 31	Fine crushing - 70% <2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 32	Pulverize 1000g to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP61	33 element four acid ICP- AES	ICP- AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 10- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285463

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP61 Ag ppm 0.5	ME- ICP61 Al % 0.01	ME- ICP61 As ppm 5	ME- ICP61 Ba ppm 10	ME- ICP61 Be ppm 0.5	ME- ICP61 Bi ppm 2	ME- ICP61 Ca % 0.01	ME- ICP61 Cd ppm 0.5	ME- ICP61 Co ppm 1	ME- ICP61 Cr ppm 1	ME- ICP61 Cu ppm 1	ME- ICP61 Fe % 0.01	ME- ICP61 Ga ppm 10
P377763		3.08	0.266	<0.5	7.98	11	1470	1.1	<2	3.00	<0.5	16	5	944	4.96	20
P377764		4.72	0.097	<0.5	8.58	6	1580	1.1	<2	3.69	<0.5	17	7	425	5.15	20
P377765		4.64	0.227	<0.5	8.06	<5	1560	1.0	<2	3.67	<0.5	15	6	824	4.87	20
P377766		4.46	0.162	<0.5	8.65	8	1480	1.0	<2	3.90	<0.5	16	5	770	5.04	20
P377767		4.68	0.276	<0.5	8.46	8	1550	1.1	<2	3.60	<0.5	16	7	833	5.31	20
P377768		4.72	0.093	<0.5	8.53	7	1550	1.2	<2	4.00	<0.5	18	5	253	5.36	20
P377769		4.50	0.031	<0.5	8.51	<5	1740	1.1	<2	3.52	<0.5	15	6	301	4.79	20
P377770		3.30	0.001	<0.5	0.07	<5	30	<0.5	<2	21.1	<0.5	<1	<1	2	0.49	<10
P377771		5.12	0.171	<0.5	8.07	<5	1490	1.1	<2	3.93	<0.5	15	5	394	4.84	20
P377772		5.00	0.095	<0.5	8.90	<5	1480	1.2	<2	4.22	<0.5	16	6	314	5.12	20
P377773		2.08	0.365	<0.5	8.71	5	1370	1.3	<2	4.83	<0.5	18	6	383	5.43	20
P377774		4.26	0.110	<0.5	8.48	<5	1730	1.1	<2	4.34	<0.5	15	7	367	5.05	20
P377775		3.50	0.118	<0.5	8.88	6	1720	1.3	<2	4.16	<0.5	11	5	654	4.98	20
P377776		5.00	0.090	<0.5	8.37	<5	2080	0.9	<2	4.65	<0.5	16	7	361	5.24	20
P377777		4.98	0.110	<0.5	8.30	6	1470	0.9	<2	4.58	<0.5	17	7	249	5.13	20
P377778		5.04	0.110	<0.5	8.11	7	1440	0.8	<2	4.85	<0.5	17	6	235	4.98	20
P377779		4.98	0.099	<0.5	8.66	6	1440	0.9	<2	4.79	<0.5	19	7	484	5.69	20
P377780		0.16	0.690	1.5	7.36	95	1360	0.6	<2	3.17	0.7	34	12	2650	8.04	20
P377781		5.26	0.054	<0.5	8.24	<5	1370	0.9	<2	4.75	<0.5	19	7	196	5.69	20
P377782		5.04	0.017	<0.5	8.55	5	1350	1.0	<2	4.84	<0.5	19	7	117	5.70	20
P377783		4.74	0.029	<0.5	8.27	8	1380	1.0	<2	4.64	<0.5	20	7	125	5.57	20
P377784		4.84	0.041	<0.5	7.94	6	1420	0.9	<2	4.69	<0.5	18	7	186	5.49	20
P377785		4.86	0.045	<0.5	8.01	10	1360	0.8	<2	4.44	<0.5	18	6	256	5.23	20
P377786		5.04	0.137	<0.5	8.09	<5	1390	0.8	<2	4.51	<0.5	18	6	484	5.28	20
P377787		5.10	0.045	<0.5	8.39	<5	1470	0.9	<2	4.68	<0.5	18	7	192	5.32	20
P377787_PD		<0.02	0.067	<0.5	8.10	<5	1440	0.8	<2	4.54	<0.5	18	6	188	5.23	20
P377788		4.76	0.073	<0.5	8.35	5	1460	1.0	<2	4.62	<0.5	16	6	125	4.97	20
P377788_CD		<0.02	0.024	<0.5	8.87	5	1530	1.0	<2	4.95	<0.5	17	7	135	5.27	20
P377789		4.74	0.045	<0.5	8.20	7	1420	1.0	<2	4.54	<0.5	16	7	143	4.99	20
P377790		3.20	0.001	<0.5	0.06	<5	40	<0.5	<2	20.9	<0.5	1	<1	1	0.48	<10
P377791		4.96	0.031	<0.5	7.92	5	1460	1.1	<2	4.64	<0.5	16	6	150	5.21	20
P377792		5.06	0.057	<0.5	7.77	9	1390	1.1	<2	4.45	<0.5	18	8	165	5.10	20
P377793		4.80	0.025	<0.5	8.27	10	1570	1.2	<2	4.38	<0.5	16	6	152	5.27	20
P377794		4.62	0.052	<0.5	8.82	9	1560	1.2	<2	5.09	<0.5	17	6	247	5.49	20
P377795		5.04	0.043	<0.5	8.70	11	1480	1.0	<2	5.17	<0.5	18	7	227	5.79	20
P377796		4.96	0.023	<0.5	8.91	5	1660	1.3	<2	4.99	<0.5	17	6	127	5.31	20
P377797		5.16	0.069	<0.5	8.57	5	1400	1.4	<2	5.00	<0.5	18	7	166	5.52	20
P377798		5.06	0.018	<0.5	9.00	6	1200	1.6	<2	5.13	<0.5	18	7	139	5.38	20
P377799		5.08	0.026	<0.5	8.91	5	1470	1.4	<2	5.12	<0.5	19	7	173	5.86	20
P377800		0.14	0.309	2.6	7.34	83	1410	0.7	2	3.45	2.4	24	12	1825	6.13	20

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 10- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285463

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Tl
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
P377763		3.62	10	1.61	624	<1	3.28	3	1990	2	0.10	20	12	705	<20	0.31
P377764		3.79	10	1.72	636	4	3.15	3	2150	2	0.05	10	14	1310	<20	0.33
P377765		3.86	10	1.63	633	5	2.89	4	2010	2	0.08	6	12	1395	<20	0.31
P377766		3.84	10	1.66	663	14	2.92	3	2040	3	0.09	<5	14	1235	<20	0.32
P377767		3.87	10	1.74	615	1	3.13	4	2220	2	0.09	<5	13	1475	<20	0.33
P377768		3.65	10	1.79	612	2	3.12	4	2250	3	0.03	<5	14	1390	<20	0.35
P377769		4.41	10	1.50	649	4	3.20	2	1840	2	0.04	<5	12	817	<20	0.33
P377770		0.03	<10	12.30	231	<1	0.01	1	180	<2	<0.01	<5	<1	53	<20	<0.01
P377771		3.43	10	1.59	583	2	2.89	5	2050	3	0.04	<5	12	1590	<20	0.32
P377772		3.53	10	1.72	622	7	3.12	5	2140	4	0.04	<5	14	1595	<20	0.33
P377773		2.99	10	1.80	683	2	3.28	4	2210	5	0.04	<5	14	1810	<20	0.37
P377774		3.19	10	1.62	623	<1	3.30	5	1990	4	0.04	<5	12	1610	<20	0.33
P377775		3.46	10	1.29	661	1	3.58	3	1790	4	0.07	<5	8	1210	<20	0.31
P377776		3.07	10	1.89	807	<1	3.21	9	2100	3	0.04	<5	13	1280	<20	0.40
P377777		3.04	10	1.85	716	<1	3.00	9	2000	4	0.03	<5	14	475	<20	0.40
P377778		3.05	10	1.78	754	<1	2.97	10	1950	4	0.02	<5	14	764	<20	0.37
P377779		3.29	10	2.04	868	<1	3.20	12	2170	5	0.05	<5	15	1110	<20	0.39
P377780		2.26	10	1.13	1505	13	2.20	11	870	35	1.84	11	17	385	<20	0.32
P377781		3.17	10	2.00	847	<1	3.11	11	2170	3	0.02	<5	15	1125	<20	0.37
P377782		3.16	10	2.04	853	<1	3.03	12	2150	2	0.01	<5	16	1055	<20	0.38
P377783		3.18	10	1.98	887	<1	2.92	13	2120	5	0.01	<5	15	1095	<20	0.37
P377784		3.12	10	1.98	898	<1	2.78	11	2100	5	0.02	<5	14	989	<20	0.35
P377785		3.21	10	1.86	861	1	2.92	9	2010	5	0.03	<5	14	944	<20	0.34
P377786		3.33	10	1.88	907	<1	2.98	10	2050	7	0.03	<5	14	999	<20	0.36
P377787		3.44	10	1.96	948	<1	3.11	10	2100	6	0.02	<5	15	1105	<20	0.38
P377787_PD		3.34	10	1.91	921	<1	3.06	11	2070	3	0.02	<5	14	1085	<20	0.37
P377788		3.50	10	1.69	850	1	3.02	9	1940	5	0.01	<5	13	957	<20	0.36
P377788_CD		3.69	10	1.81	902	<1	3.15	10	2060	6	0.01	<5	14	1000	<20	0.38
P377789		3.45	10	1.72	881	<1	2.94	10	1950	9	0.01	<5	13	913	<20	0.38
P377790		0.03	<10	12.35	213	<1	0.01	<1	160	2	<0.01	<5	<1	50	<20	<0.01
P377791		2.89	10	1.76	847	<1	2.99	8	1990	6	0.01	<5	13	990	<20	0.36
P377792		3.11	10	1.85	838	<1	2.97	10	1990	9	0.01	<5	14	836	<20	0.37
P377793		2.75	10	1.73	836	<1	3.21	8	2040	5	0.01	<5	12	1110	<20	0.34
P377794		2.74	10	1.97	893	<1	3.25	8	2210	3	0.04	<5	14	1170	<20	0.37
P377795		2.95	10	2.03	941	<1	3.03	8	2250	4	0.02	<5	16	1090	<20	0.39
P377796		3.17	10	1.78	901	<1	3.12	7	2070	6	0.01	<5	14	1120	<20	0.36
P377797		3.10	10	1.89	954	<1	3.20	9	2160	7	0.01	<5	14	1100	<20	0.38
P377798		3.16	10	1.88	928	<1	3.16	9	2080	4	0.01	<5	15	1040	<20	0.37
P377799		3.18	10	2.07	1010	<1	3.29	8	2280	6	0.01	<5	16	1050	<20	0.40
P377800		2.13	10	0.96	1215	26	2.29	9	860	67	1.49	7	13	409	<20	0.30

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 10- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285463

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Tl	U	V	W	Zn
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	10	10	1	10	2
P377763		<10	<10	273	<10	33
P377764		<10	<10	296	<10	32
P377765		<10	<10	281	<10	30
P377766		<10	<10	294	<10	31
P377767		<10	<10	309	<10	29
P377768		<10	<10	310	<10	31
P377769		<10	<10	270	<10	29
P377770		<10	<10	3	<10	16
P377771		<10	<10	265	<10	27
P377772		<10	<10	271	<10	27
P377773		<10	<10	292	<10	29
P377774		<10	<10	264	<10	27
P377775		<10	<10	241	<10	28
P377776		<10	<10	254	<10	32
P377777		<10	<10	252	<10	30
P377778		<10	<10	237	<10	30
P377779		<10	<10	252	<10	35
P377780		<10	<10	174	<10	187
P377781		<10	<10	251	<10	35
P377782		<10	<10	251	<10	33
P377783		<10	<10	241	<10	41
P377784		<10	<10	235	<10	46
P377785		<10	<10	225	<10	47
P377786		<10	<10	231	<10	52
P377787		10	<10	244	<10	50
P377787_PD		<10	<10	236	<10	49
P377788		<10	<10	222	<10	43
P377788_CD		<10	<10	239	<10	46
P377789		<10	<10	231	<10	47
P377790		<10	<10	3	<10	15
P377791		<10	<10	239	<10	37
P377792		<10	<10	234	<10	40
P377793		<10	<10	222	<10	39
P377794		<10	<10	248	<10	37
P377795		<10	<10	268	<10	38
P377796		<10	<10	234	<10	41
P377797		<10	<10	244	10	45
P377798		<10	<10	232	<10	43
P377799		<10	<10	258	10	43
P377800		<10	<10	149	<10	324

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 10- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285463

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10
P377801		2.52	0.026	<0.5	8.83	<5	1160	1.3	<2	5.38	<0.5	19	7	169	5.93	20
P377802		3.32	0.017	<0.5	8.50	9	1320	1.1	<2	4.84	<0.5	17	7	145	5.56	20
P377803		2.48	0.032	<0.5	8.43	6	1040	1.1	<2	5.08	<0.5	19	14	231	5.68	20
P377804		4.22	0.037	<0.5	8.14	8	1230	1.0	<2	4.19	<0.5	17	6	213	5.10	20
P377805		4.96	0.038	<0.5	8.56	<5	1460	0.8	<2	4.61	<0.5	17	6	212	5.02	20
P377806		5.14	0.092	<0.5	8.02	8	1340	0.9	<2	4.40	<0.5	16	7	477	4.94	20
P377807		4.98	0.029	<0.5	7.85	7	1250	0.8	<2	4.40	<0.5	16	6	179	4.89	20
P377808		4.92	0.051	<0.5	7.96	6	1300	1.1	<2	4.71	<0.5	17	6	267	5.41	20
P377809		5.14	0.045	<0.5	8.06	11	1320	1.2	<2	4.22	<0.5	16	5	304	5.32	20
P377810		2.86	<0.001	<0.5	0.05	<5	80	<0.5	<2	21.5	<0.5	<1	<1	1	0.49	<10
P377811		4.82	0.123	<0.5	8.42	<5	1390	1.0	<2	4.59	<0.5	17	6	428	5.21	20
P377812		4.94	0.184	<0.5	8.73	9	1310	1.2	<2	4.73	<0.5	18	7	779	5.41	20
P377812_PD		<0.02	0.152	<0.5	8.79	<5	1310	1.2	<2	4.68	<0.5	18	7	757	5.43	20
P377813		5.04	0.045	<0.5	8.89	8	1390	1.2	<2	4.89	<0.5	19	7	339	5.57	20
P377813_CD		<0.02	0.045	<0.5	8.50	5	1310	1.1	<2	4.62	<0.5	18	6	326	5.26	20
P377814		4.60	0.028	<0.5	8.39	<5	1330	1.1	<2	4.80	<0.5	17	7	280	5.24	20
P377815		4.94	0.015	<0.5	7.78	7	1250	0.9	<2	4.26	<0.5	16	6	183	4.81	20
P377816		4.66	0.081	<0.5	8.20	<5	1470	0.9	2	4.20	<0.5	14	7	391	4.65	20
P377817		4.52	0.050	<0.5	7.99	<5	1480	0.9	<2	4.31	<0.5	15	7	386	4.87	20
P377818		4.76	0.029	<0.5	8.09	<5	1340	1.0	<2	4.82	<0.5	18	6	184	5.37	20
P377819		2.76	0.016	<0.5	8.82	6	1430	1.0	<2	5.54	<0.5	22	8	194	6.18	20
P377820		0.14	0.638	1.4	7.33	91	1370	0.6	<2	3.20	0.8	34	13	2680	8.08	20
P377821		4.46	0.036	<0.5	8.58	5	1410	1.0	<2	5.24	<0.5	19	7	324	5.58	20
P377822		1.96	0.021	<0.5	8.94	7	1830	1.3	<2	3.75	<0.5	8	5	206	2.94	20
P377823		3.14	0.016	<0.5	8.35	<5	1430	0.9	<2	4.88	<0.5	19	6	185	5.31	20
P377824		4.86	0.025	<0.5	7.94	<5	1370	0.9	<2	5.09	<0.5	22	7	197	5.71	20
P377825		5.10	0.050	<0.5	8.04	<5	1390	0.9	<2	5.09	<0.5	22	7	264	5.90	20
P377826		4.92	0.034	<0.5	8.12	<5	1420	1.0	<2	5.32	<0.5	20	7	133	5.57	20
P377827		4.90	0.019	<0.5	7.94	<5	1430	1.0	<2	4.80	<0.5	20	6	145	5.57	20
P377828		4.88	0.034	<0.5	8.51	<5	1560	1.0	<2	5.10	<0.5	22	7	199	5.96	20
P377829		3.16	0.025	<0.5	8.29	<5	1220	1.2	2	5.09	<0.5	20	7	177	5.67	20
P377830		2.22	0.001	<0.5	0.08	<5	30	<0.5	<2	21.7	<0.5	<1	<1	2	0.52	<10
P377831		6.14	0.055	<0.5	7.45	<5	1060	1.2	<2	1.59	<0.5	5	13	293	1.76	20
P377832		4.76	0.037	0.5	7.98	<5	1140	1.3	<2	1.95	<0.5	6	15	1355	2.11	20
P377833		5.12	0.019	<0.5	8.42	5	1520	1.1	<2	4.85	<0.5	21	6	235	5.72	20
P377834		5.02	0.019	<0.5	8.42	<5	1510	0.9	<2	5.36	<0.5	21	7	160	5.68	20
P377835		4.98	0.071	<0.5	8.48	<5	1440	0.9	<2	4.71	<0.5	20	6	278	5.57	20
P377836		2.84	0.013	<0.5	8.17	<5	1500	0.9	<2	5.23	<0.5	18	5	235	5.11	20
P377837		4.16	0.043	<0.5	9.15	<5	2110	1.1	<2	2.81	<0.5	8	4	649	3.44	20
P377837_PD		<0.02	0.019	<0.5	8.78	<5	1980	1.0	<2	2.61	<0.5	8	3	597	3.25	20

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 10- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285463

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
P377801		2.72	10	1.99	948	<1	3.31	8	2350	3	0.02	<5	16	895	<20	0.40
P377802		3.25	10	1.83	933	<1	3.07	9	2150	8	0.01	<5	15	867	<20	0.36
P377803		2.44	10	2.03	986	<1	2.97	12	1940	5	0.01	<5	16	1020	<20	0.38
P377804		3.31	10	1.70	882	<1	2.92	7	1920	3	0.01	<5	14	894	<20	0.34
P377805		3.46	10	1.77	928	<1	3.03	8	1960	8	0.01	<5	14	975	<20	0.37
P377806		3.27	10	1.67	843	<1	2.90	8	1890	6	0.03	<5	13	930	<20	0.35
P377807		3.00	10	1.63	867	<1	2.81	8	1880	6	0.01	<5	13	897	<20	0.34
P377808		2.98	10	1.78	982	<1	2.97	6	2030	7	0.02	<5	14	953	<20	0.36
P377809		3.02	10	1.66	936	<1	3.15	6	1830	6	0.02	<5	12	884	<20	0.35
P377810		0.02	<10	12.50	218	<1	0.01	<1	150	<2	<0.01	<5	<1	53	<20	<0.01
P377811		3.36	10	1.77	1020	<1	3.00	9	1990	9	0.02	<5	14	942	<20	0.36
P377812		3.47	10	1.74	1070	<1	3.15	8	2020	3	0.05	<5	14	819	<20	0.36
P377812_PD		3.44	10	1.74	1055	<1	3.16	8	2020	9	0.05	<5	14	826	<20	0.36
P377813		3.45	10	1.86	1140	<1	3.07	9	2140	6	0.02	<5	15	1050	<20	0.38
P377813_CD		3.22	10	1.77	1060	<1	2.92	8	2010	7	0.02	<5	14	991	<20	0.36
P377814		3.22	10	1.72	1090	<1	2.91	9	2010	6	0.02	<5	14	966	<20	0.36
P377815		3.06	10	1.59	972	<1	2.71	6	1840	3	0.01	<5	13	852	<20	0.32
P377816		3.39	10	1.47	969	<1	2.84	6	1730	6	0.02	<5	12	930	<20	0.32
P377817		3.33	10	1.51	1005	<1	2.89	6	1820	7	0.02	<5	12	929	<20	0.33
P377818		3.06	10	1.80	1110	<1	2.84	9	2050	5	0.01	<5	14	935	<20	0.36
P377819		2.87	10	2.18	1220	<1	2.96	11	2400	11	0.01	<5	17	1200	<20	0.42
P377820		2.17	10	1.14	1540	10	2.12	9	860	37	1.88	15	17	375	<20	0.33
P377821		2.93	10	1.93	1165	<1	3.05	8	2130	6	0.02	<5	15	1030	<20	0.39
P377822		3.97	10	0.76	714	<1	3.49	1	1090	11	0.02	<5	5	946	<20	0.23
P377823		2.90	10	1.81	1055	<1	3.07	12	2020	6	0.02	<5	14	1130	<20	0.38
P377824		2.64	<10	2.02	1030	<1	3.07	12	2360	5	0.02	<5	15	1105	<20	0.40
P377825		2.67	10	2.04	1005	<1	3.05	13	2390	<2	0.02	<5	16	940	<20	0.39
P377826		3.09	10	1.91	996	<1	3.05	11	2250	3	0.01	<5	15	981	<20	0.38
P377827		2.92	10	1.88	925	<1	2.88	10	2170	5	0.01	<5	15	1035	<20	0.37
P377828		3.03	10	2.14	1065	<1	3.04	13	2380	4	0.02	<5	16	1165	<20	0.39
P377829		2.45	10	2.05	1040	1	3.19	11	2350	7	0.02	<5	15	1280	<20	0.40
P377830		0.04	<10	13.25	221	<1	0.01	2	200	<2	<0.01	<5	<1	54	<20	0.01
P377831		4.72	<10	0.43	385	2	3.21	2	400	<2	0.06	<5	4	200	<20	0.10
P377832		4.84	<10	0.65	511	6	3.30	4	670	<2	0.16	<5	7	278	<20	0.14
P377833		3.10	10	2.14	1055	5	2.92	13	2330	<2	0.02	<5	16	1090	<20	0.38
P377834		2.64	10	2.09	985	<1	2.73	10	2320	2	0.02	<5	16	1220	<20	0.37
P377835		3.09	10	1.98	909	<1	2.88	11	2200	<2	0.03	<5	15	1155	<20	0.37
P377836		3.13	10	1.87	850	<1	2.65	10	2060	2	0.02	<5	13	1165	<20	0.38
P377837		4.68	10	0.87	566	<1	3.86	2	1180	3	0.07	<5	6	831	<20	0.23
P377837_PD		4.29	10	0.81	523	<1	3.65	3	1120	2	0.06	<5	5	786	<20	0.21

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 10- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285463

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Tl	U	V	W	Zn
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	10	10	1	10	2
P377801		<10	<10	267	<10	43
P377802		<10	<10	244	<10	46
P377803		<10	<10	239	<10	44
P377804		<10	<10	216	<10	42
P377805		<10	<10	235	<10	49
P377806		<10	<10	224	<10	41
P377807		<10	<10	215	<10	46
P377808		<10	<10	241	<10	48
P377809		<10	<10	234	<10	45
P377810		<10	<10	3	<10	14
P377811		<10	<10	232	<10	58
P377812		<10	<10	232	<10	60
P377812_PD		<10	<10	231	<10	60
P377813		<10	<10	241	<10	56
P377813_CD		<10	<10	229	<10	53
P377814		<10	<10	229	<10	52
P377815		<10	<10	207	<10	45
P377816		<10	<10	208	<10	61
P377817		<10	<10	218	<10	62
P377818		<10	<10	247	<10	56
P377819		<10	<10	279	<10	75
P377820		<10	<10	177	<10	189
P377821		<10	<10	256	<10	68
P377822		<10	<10	132	<10	48
P377823		10	<10	245	<10	56
P377824		<10	<10	268	<10	55
P377825		<10	<10	263	<10	47
P377826		<10	<10	257	<10	45
P377827		<10	<10	249	<10	47
P377828		<10	<10	265	<10	57
P377829		<10	<10	266	<10	49
P377830		<10	<10	3	<10	17
P377831		<10	<10	68	<10	17
P377832		<10	<10	86	<10	20
P377833		<10	<10	258	<10	43
P377834		<10	<10	260	<10	41
P377835		10	<10	241	<10	36
P377836		<10	<10	240	<10	36
P377837		<10	<10	153	<10	30
P377837_PD		<10	<10	142	<10	28

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 10- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285463

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP61 Ag ppm 0.5	ME- ICP61 Al % 0.01	ME- ICP61 As ppm 5	ME- ICP61 Ba ppm 10	ME- ICP61 Be ppm 0.5	ME- ICP61 Bi ppm 2	ME- ICP61 Ca % 0.01	ME- ICP61 Cd ppm 0.5	ME- ICP61 Co ppm 1	ME- ICP61 Cr ppm 1	ME- ICP61 Cu ppm 1	ME- ICP61 Fe % 0.01	ME- ICP61 Ga ppm 10
P377838		3.80	0.007	<0.5	9.21	6	1850	1.5	<2	3.24	<0.5	7	4	72	3.35	20
P377838_PB		0.26	<0.001	<0.5	0.52	<5	20	<0.5	<2	0.02	<0.5	<1	8	3	0.51	<10
P377839		3.54	0.025	<0.5	8.52	<5	1410	1.1	<2	5.03	<0.5	20	7	192	5.80	20
P377839_CD		<0.02	0.021	<0.5	8.31	<5	1340	1.1	<2	4.78	<0.5	20	6	174	5.36	20
P377840		0.14	0.314	2.6	7.65	73	1790	0.7	<2	3.53	2.6	25	12	1945	6.51	20
P377841		4.82	0.012	<0.5	8.73	<5	1410	1.2	<2	4.56	<0.5	19	7	141	5.50	20
P377842		4.36	0.030	2.3	8.30	<5	1390	1.2	<2	4.87	<0.5	18	6	159	5.08	20
P377843		5.04	0.015	<0.5	8.20	<5	1440	1.1	<2	4.81	<0.5	19	7	246	4.92	20
P377844		4.80	0.028	<0.5	8.58	<5	1440	1.2	<2	4.78	<0.5	20	6	209	5.54	20
P377845		3.90	0.021	<0.5	8.82	<5	1470	1.2	<2	4.89	<0.5	21	7	206	5.82	20
P377846		4.90	0.018	<0.5	8.39	<5	1390	1.2	<2	4.61	<0.5	19	6	224	5.38	20
P377847		5.16	0.020	<0.5	7.96	<5	1350	1.1	<2	4.51	<0.5	18	5	182	5.06	20
P377848		2.96	0.017	<0.5	8.11	<5	1400	1.1	<2	4.53	<0.5	19	6	198	5.21	20
P377849		3.46	0.021	<0.5	8.00	<5	1200	1.1	<2	5.60	<0.5	17	5	187	5.21	20
P377850		3.50	0.001	<0.5	0.07	<5	160	<0.5	2	22.2	<0.5	<1	<1	2	0.52	<10
P377851		4.40	0.025	<0.5	8.18	<5	1240	1.1	<2	5.32	<0.5	18	5	176	5.48	20
P377852		4.24	0.030	<0.5	7.82	<5	1270	1.1	2	5.13	<0.5	19	6	154	5.36	20
P377853		2.16	0.011	<0.5	7.95	<5	1190	1.1	<2	5.30	<0.5	16	5	238	5.11	20
P377854		2.60	0.031	<0.5	7.93	<5	1230	0.9	<2	4.70	<0.5	17	4	164	5.62	20
P377855		3.70	0.026	<0.5	8.32	<5	1410	1.2	<2	4.65	<0.5	19	6	170	5.41	20
P377856		4.50	0.022	<0.5	7.79	9	1250	1.1	<2	4.24	<0.5	17	5	199	5.06	20
P377857		4.32	0.017	<0.5	7.68	<5	1250	1.1	<2	4.32	<0.5	18	6	155	5.07	20
P377858		4.32	0.025	<0.5	8.00	6	1350	1.1	<2	4.20	<0.5	17	6	228	5.23	20
P377859		4.42	0.018	<0.5	7.74	7	1360	1.1	<2	4.59	<0.5	18	6	206	5.11	20
P377860		0.16	0.659	1.1	6.76	94	1200	0.6	2	3.04	0.8	32	11	2600	7.80	20
P377861		2.40	0.014	<0.5	8.11	5	1370	1.1	<2	4.55	<0.5	16	6	117	5.13	20
P377862		4.22	0.050	<0.5	8.46	5	1660	1.2	<2	2.87	<0.5	9	3	356	3.31	20
P377862_PD		<0.02	0.028	<0.5	8.28	5	1630	1.2	<2	2.80	<0.5	8	2	350	3.27	20
P377863		4.32	0.076	<0.5	8.72	6	1650	1.2	<2	2.98	<0.5	9	3	794	3.52	20
P377863_CD		<0.02	0.053	<0.5	8.67	<5	1640	1.2	<2	2.95	<0.5	8	3	791	3.38	20
P377864		4.36	0.044	<0.5	8.47	7	1420	1.4	2	3.59	<0.5	11	5	355	4.10	20
P377865		1.62	0.028	<0.5	8.25	<5	1290	1.2	2	4.34	<0.5	16	4	290	5.10	20
P377865_PB		0.26	<0.001	<0.5	0.50	<5	20	<0.5	<2	0.02	<0.5	<1	7	1	0.52	<10
P377866		2.90	0.012	<0.5	8.86	<5	1380	1.0	<2	4.78	<0.5	17	6	220	5.35	20
P377867		4.56	0.022	<0.5	8.39	<5	1340	1.1	2	4.59	<0.5	17	6	220	5.14	20
P377868		4.52	0.020	<0.5	8.53	<5	1340	1.0	<2	4.85	<0.5	19	6	207	5.44	20
P377869		4.18	0.022	<0.5	8.32	<5	1330	1.1	4	4.84	<0.5	19	6	216	5.33	20
P377870		3.30	0.001	<0.5	0.08	<5	30	<0.5	<2	20.5	<0.5	1	<1	1	0.49	<10
P377871		4.44	0.024	<0.5	8.34	5	1360	1.2	2	4.79	<0.5	19	6	213	5.43	20
P377872		4.70	0.016	<0.5	8.27	7	1270	1.2	2	4.46	<0.5	17	6	224	5.11	20

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 10- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285463

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
P377838		4.23	10	0.84	655	<1	3.95	4	1110	4	0.01	<5	6	909	<20	0.23
P377838_PB		0.24	10	0.02	41	<1	0.01	<1	30	2	<0.01	<5	1	7	<20	0.04
P377839		3.03	10	1.96	971	1	3.17	11	2300	4	0.02	<5	15	1085	<20	0.39
P377839_CD		2.90	10	1.82	909	1	3.01	10	2120	3	0.02	<5	14	1035	<20	0.36
P377840		2.22	10	0.99	1275	30	2.46	10	900	69	1.49	8	14	442	<20	0.30
P377841		3.41	10	1.86	920	1	3.17	10	2150	5	0.02	<5	14	1025	<20	0.36
P377842		3.29	10	1.53	826	1	3.00	9	2130	5	0.03	<5	14	866	<20	0.36
P377843		3.29	10	1.65	873	1	2.98	9	2050	2	0.03	<5	14	869	<20	0.35
P377844		3.20	10	1.91	1000	1	3.05	12	2210	6	0.02	<5	15	1075	<20	0.37
P377845		3.27	10	1.95	1050	1	3.09	10	2240	2	0.02	<5	15	1085	<20	0.38
P377846		3.15	10	1.83	979	<1	2.97	11	2110	8	0.02	<5	14	995	<20	0.35
P377847		3.07	10	1.73	921	1	2.89	10	2040	2	0.02	<5	13	975	<20	0.35
P377848		3.11	<10	1.75	1000	<1	3.01	11	2100	4	0.02	<5	13	1005	<20	0.35
P377849		3.02	10	1.64	1320	1	2.39	9	2020	<2	0.03	<5	14	796	<20	0.34
P377850		0.03	<10	13.45	230	<1	0.01	2	190	2	<0.01	<5	<1	55	<20	<0.01
P377851		3.06	10	1.66	1290	1	2.55	10	2050	2	0.02	<5	14	802	<20	0.34
P377852		3.30	<10	1.66	1255	1	2.50	10	2080	4	0.02	<5	13	779	<20	0.35
P377853		3.35	10	1.52	1370	1	2.23	8	2010	3	0.03	<5	13	726	<20	0.34
P377854		3.36	10	1.73	1675	1	2.06	12	1980	2	0.06	<5	13	693	<20	0.33
P377855		3.23	10	1.85	1025	1	3.12	10	2150	3	0.01	<5	14	978	<20	0.37
P377856		3.05	10	1.72	870	2	2.91	15	1880	12	0.02	<5	13	890	<20	0.32
P377857		3.09	10	1.73	901	2	2.91	10	1860	4	0.02	<5	12	868	<20	0.33
P377858		3.24	10	1.78	987	1	3.02	7	1930	6	0.02	<5	13	867	<20	0.33
P377859		3.13	10	1.75	920	1	2.87	6	1920	3	0.02	<5	12	979	<20	0.34
P377860		2.14	10	1.09	1495	10	2.04	8	790	31	1.71	7	15	349	<20	0.30
P377861		3.33	10	1.76	962	<1	3.11	7	1910	3	0.02	<5	13	975	<20	0.34
P377862		3.92	10	0.86	532	<1	3.57	1	1060	4	0.04	<5	6	905	<20	0.21
P377862_PD		3.91	10	0.85	527	<1	3.53	1	1060	2	0.04	<5	6	894	<20	0.21
P377863		4.21	10	0.88	576	3	3.73	1	1090	<2	0.09	<5	6	853	<20	0.21
P377863_CD		4.13	10	0.87	554	4	3.70	<1	1100	3	0.08	<5	6	851	<20	0.20
P377864		3.53	10	1.07	653	<1	3.70	3	1350	2	0.04	<5	7	916	<20	0.24
P377865		2.81	10	1.63	820	1	3.43	4	1900	4	0.03	<5	11	1055	<20	0.31
P377865_PB		0.22	10	0.02	49	<1	0.02	<1	30	<2	<0.01	<5	1	9	<20	0.04
P377866		3.35	10	1.82	878	4	3.15	8	2020	4	0.02	<5	14	1075	<20	0.35
P377867		3.45	10	1.73	904	4	3.00	7	1920	4	0.02	<5	13	967	<20	0.34
P377868		3.05	10	1.87	934	2	2.99	7	2050	3	0.02	<5	14	1025	<20	0.35
P377869		3.25	10	1.80	950	3	2.96	7	1990	5	0.02	<5	14	1005	<20	0.35
P377870		0.03	<10	12.95	213	<1	0.01	<1	230	2	<0.01	<5	<1	52	<20	<0.01
P377871		3.20	10	1.88	975	2	2.96	8	2000	4	0.02	<5	14	1045	<20	0.35
P377872		3.16	10	1.72	889	2	2.89	7	1890	5	0.02	<5	13	940	<20	0.33

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 10- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285463

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Tl	U	V	W	Zn
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	10	10	1	10	2
P377838		<10	<10	144	<10	27
P377838_PB		<10	<10	5	<10	<2
P377839		<10	<10	252	<10	41
P377839_CD		<10	<10	231	<10	39
P377840		<10	<10	156	<10	331
P377841		<10	<10	232	<10	42
P377842		<10	<10	221	<10	42
P377843		<10	<10	223	<10	41
P377844		<10	<10	239	<10	51
P377845		<10	<10	247	<10	52
P377846		<10	<10	230	<10	55
P377847		<10	<10	222	<10	49
P377848		<10	<10	227	<10	44
P377849		<10	<10	225	<10	49
P377850		<10	<10	3	<10	18
P377851		<10	<10	233	<10	45
P377852		<10	<10	231	<10	45
P377853		<10	<10	221	<10	40
P377854		<10	<10	229	<10	47
P377855		<10	<10	238	<10	46
P377856		<10	<10	212	<10	45
P377857		<10	<10	215	<10	43
P377858		<10	<10	218	<10	41
P377859		<10	<10	226	<10	40
P377860		<10	<10	169	<10	181
P377861		<10	<10	221	<10	36
P377862		<10	<10	145	<10	25
P377862_PD		<10	<10	142	<10	24
P377863		<10	<10	137	<10	27
P377863_CD		<10	<10	134	<10	27
P377864		<10	<10	164	<10	29
P377865		<10	<10	206	<10	30
P377865_PB		<10	<10	4	<10	<2
P377866		<10	<10	222	<10	33
P377867		<10	<10	219	<10	35
P377868		<10	<10	233	<10	38
P377869		<10	<10	235	<10	41
P377870		<10	<10	3	<10	14
P377871		<10	<10	232	<10	45
P377872		<10	<10	214	<10	41

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 10- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285463

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10
P377873		4.60	0.036	<0.5	8.14	<5	1280	1.2	<2	4.60	<0.5	18	6	237	5.26	20
P377874		4.62	0.015	<0.5	8.40	<5	1330	1.2	<2	4.44	<0.5	18	7	207	5.26	20
P377875		4.54	0.015	<0.5	8.11	5	1270	1.2	<2	4.49	<0.5	16	6	257	5.35	20
P377876		4.58	0.027	<0.5	8.23	<5	1270	1.2	<2	4.45	<0.5	16	6	169	5.12	20
P377877		4.58	0.019	0.7	8.04	14	1370	1.2	<2	4.36	<0.5	19	5	174	5.57	20
P377878		4.58	0.023	<0.5	8.03	7	1370	1.1	<2	4.36	<0.5	17	6	522	5.00	20
P377879		4.10	0.023	<0.5	8.66	7	1120	1.2	<2	4.67	<0.5	16	5	196	5.17	20
P377880		0.16	0.280	2.4	7.25	84	1670	0.7	<2	3.46	2.3	25	11	1900	6.48	20
P377881		4.52	0.021	<0.5	8.55	6	1300	1.2	<2	4.45	<0.5	18	5	193	5.33	20
P377882		4.64	0.023	<0.5	8.20	6	1210	1.2	<2	4.52	<0.5	17	5	185	5.11	20
P377883		4.26	0.015	<0.5	8.10	5	1270	0.9	<2	3.85	<0.5	17	5	227	4.91	20
P377884		2.50	0.023	<0.5	8.45	<5	1720	1.3	<2	3.03	<0.5	6	2	216	3.05	20
P377885		4.38	0.014	<0.5	8.41	7	1690	1.3	<2	3.20	<0.5	7	3	235	3.16	20
P377886		4.34	0.029	<0.5	8.25	8	1740	1.2	<2	2.94	<0.5	7	3	247	3.31	20
P377887		2.28	0.008	<0.5	8.76	7	1690	1.3	<2	3.52	<0.5	9	4	194	3.76	20
P377887_PD		<0.02	0.010	<0.5	8.47	6	1660	1.2	<2	3.34	<0.5	9	4	177	3.72	20
P377888		2.54	0.152	<0.5	8.24	<5	1770	1.3	3	3.34	<0.5	8	2	461	3.43	20
P377888_PB		0.24	<0.001	<0.5	0.46	<5	20	<0.5	<2	0.01	<0.5	1	6	1	0.38	<10
P377889		4.18	0.033	<0.5	7.66	6	1280	1.0	<2	3.99	<0.5	16	5	227	4.47	20
P377889_CD		<0.02	0.023	<0.5	7.26	7	1250	1.0	<2	3.90	<0.5	16	5	249	4.39	20
P377890		4.66	0.001	<0.5	0.06	<5	270	<0.5	<2	19.2	<0.5	<1	<1	<1	0.47	<10
P377891		4.58	0.022	<0.5	7.65	<5	1260	1.1	<2	3.79	<0.5	16	4	255	4.40	20
P377892		4.52	0.021	<0.5	7.74	6	1220	1.1	<2	4.25	<0.5	16	4	211	4.68	20
P377893		4.62	0.020	<0.5	7.69	6	1170	1.2	<2	4.16	<0.5	16	5	292	4.77	20
P377894		4.66	0.019	<0.5	8.02	6	1260	1.1	<2	4.54	<0.5	18	5	208	5.12	20
P377895		4.24	0.020	<0.5	7.98	6	1300	1.1	<2	4.26	<0.5	17	5	186	5.24	20
P377896		4.76	0.026	<0.5	8.37	<5	1320	1.1	<2	4.31	<0.5	17	5	224	5.24	20
P377897		4.72	0.015	<0.5	8.14	7	1240	1.1	<2	4.28	<0.5	17	5	198	5.08	20
P377898		4.92	0.020	<0.5	7.96	6	1450	1.0	2	4.14	<0.5	17	5	221	4.98	20
P377899		2.94	0.032	<0.5	8.23	7	1110	1.0	<2	4.40	<0.5	17	5	242	4.92	20
P377900		0.16	0.683	1.2	6.92	89	1270	0.6	3	3.07	0.8	34	11	2620	7.79	20
P377901		3.88	0.025	<0.5	8.33	<5	1410	1.3	<2	3.17	<0.5	8	4	236	3.32	20
P377902		4.26	0.027	<0.5	8.35	8	1330	1.4	<2	3.37	<0.5	10	4	320	3.66	20
P377903		4.10	0.023	<0.5	8.13	6	1350	1.4	2	3.51	<0.5	9	4	507	3.52	20
P377904		4.24	0.040	<0.5	8.36	5	1330	1.2	2	3.05	<0.5	8	3	360	3.20	20
P377905		2.30	0.020	<0.5	8.57	<5	1540	1.3	2	3.04	<0.5	11	4	187	3.64	20
P377906		4.32	0.040	<0.5	8.31	6	1440	1.2	<2	3.41	<0.5	10	5	336	3.75	20
P377907		4.42	0.023	<0.5	8.41	9	1520	1.0	<2	3.16	<0.5	10	4	186	3.82	20
P377908		4.42	0.051	<0.5	8.06	6	1650	1.1	<2	3.20	<0.5	8	4	309	3.42	20
P377909		4.46	0.093	<0.5	8.37	<5	1740	1.1	<2	2.90	<0.5	7	4	431	3.30	20

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 10- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285463

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
P377873		3.25	10	1.70	920	2	2.97	8	1880	3	0.02	<5	13	963	<20	0.34
P377874		3.36	10	1.78	883	2	3.04	8	1940	4	0.02	<5	13	983	<20	0.34
P377875		3.18	10	1.70	874	1	2.93	7	1850	4	0.03	<5	13	972	<20	0.33
P377876		3.21	10	1.74	877	1	2.88	6	1890	2	0.02	<5	13	939	<20	0.33
P377877		3.21	10	1.72	923	2	3.24	8	1940	5	0.02	<5	12	987	<20	0.34
P377878		3.26	10	1.67	861	2	2.90	7	1830	4	0.05	<5	12	1085	<20	0.32
P377879		3.12	10	1.67	860	2	3.03	8	1780	3	0.02	<5	13	889	<20	0.32
P377880		2.20	<10	0.99	1250	31	2.45	9	870	66	1.50	<5	13	422	<20	0.29
P377881		3.50	10	1.81	918	2	3.12	9	1980	4	0.02	<5	14	972	<20	0.35
P377882		3.22	10	1.72	897	2	2.97	8	1890	3	0.02	<5	13	918	<20	0.33
P377883		3.62	10	1.67	835	3	3.15	6	1850	5	0.02	<5	12	843	<20	0.33
P377884		3.96	10	0.78	582	<1	3.48	<1	1000	4	0.02	<5	5	872	<20	0.20
P377885		3.84	10	0.83	623	<1	3.48	<1	1030	4	0.02	<5	5	928	<20	0.21
P377886		3.84	10	0.78	515	3	3.43	<1	980	2	0.03	<5	5	941	<20	0.20
P377887		3.60	10	0.96	571	<1	3.67	<1	1220	3	0.02	<5	6	1085	<20	0.24
P377887_PD		3.43	10	0.92	540	1	3.60	1	1160	3	0.02	<5	6	1050	<20	0.23
P377888		4.13	10	0.87	643	<1	3.26	1	1080	4	0.04	<5	6	909	<20	0.21
P377888_PB		0.21	10	0.02	32	<1	0.01	<1	30	<2	<0.01	<5	1	7	<20	0.03
P377889		2.95	10	1.52	759	<1	3.12	5	1700	2	0.02	<5	11	865	<20	0.30
P377889_CD		2.89	10	1.48	753	<1	3.04	5	1690	3	0.02	<5	10	837	<20	0.31
P377890		0.02	<10	12.00	208	<1	0.01	<1	160	<2	<0.01	<5	<1	56	<20	<0.01
P377891		3.09	10	1.55	746	<1	3.01	5	1700	3	0.03	<5	11	835	<20	0.29
P377892		3.15	10	1.59	809	<1	2.99	6	1760	4	0.02	<5	12	818	<20	0.31
P377893		3.16	10	1.52	904	1	2.96	5	1680	4	0.03	<5	11	821	<20	0.30
P377894		3.31	10	1.74	979	2	3.01	9	1900	4	0.02	<5	13	931	<20	0.34
P377895		3.23	10	1.64	894	5	2.98	7	1810	7	0.02	<5	12	1025	<20	0.32
P377896		3.18	10	1.77	920	4	3.06	8	1980	5	0.02	<5	13	997	<20	0.32
P377897		3.41	10	1.65	896	3	2.91	7	1790	3	0.02	<5	13	920	<20	0.32
P377898		3.37	10	1.71	844	<1	2.87	6	1870	5	0.03	<5	13	930	<20	0.32
P377899		2.92	10	1.72	788	1	3.19	7	1880	4	0.03	<5	13	753	<20	0.33
P377900		2.15	10	1.09	1500	10	2.06	9	810	32	1.70	8	15	352	<20	0.30
P377901		3.79	10	0.96	627	1	3.54	1	1190	3	0.03	<5	7	652	<20	0.22
P377902		3.98	10	1.06	723	1	3.49	1	1210	2	0.05	<5	7	489	<20	0.22
P377903		4.24	10	0.98	707	1	3.37	2	1110	3	0.07	<5	7	458	<20	0.22
P377904		4.12	10	0.80	623	<1	3.56	1	1040	5	0.04	<5	6	486	<20	0.21
P377905		4.07	10	0.95	625	1	3.61	<1	1200	4	0.02	<5	7	743	<20	0.24
P377906		3.93	10	1.00	697	1	3.56	1	1250	4	0.03	<5	7	728	<20	0.26
P377907		3.67	10	1.02	646	<1	3.65	1	1260	3	0.02	<5	7	719	<20	0.24
P377908		4.00	10	0.83	588	<1	3.32	<1	1110	3	0.03	<5	6	762	<20	0.22
P377909		4.40	10	0.81	595	<1	3.36	<1	1010	5	0.04	<5	5	778	<20	0.21

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 10- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285463

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Tl	U	V	W	Zn
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	10	10	1	10	2
P377873		<10	<10	228	<10	41
P377874		<10	<10	219	<10	36
P377875		<10	<10	225	<10	35
P377876		<10	<10	214	<10	35
P377877		<10	<10	245	<10	41
P377878		<10	<10	213	<10	38
P377879		<10	<10	224	<10	37
P377880		<10	<10	154	<10	321
P377881		<10	<10	227	<10	41
P377882		<10	<10	213	<10	40
P377883		<10	<10	215	<10	36
P377884		<10	<10	137	<10	22
P377885		<10	<10	139	<10	23
P377886		<10	<10	139	<10	24
P377887		<10	<10	160	<10	28
P377887_PD		<10	<10	153	<10	26
P377888		<10	<10	158	<10	25
P377888_PB		<10	<10	4	<10	<2
P377889		<10	<10	199	<10	33
P377889_CD		<10	<10	199	<10	33
P377890		<10	<10	3	<10	14
P377891		<10	<10	191	<10	33
P377892		<10	<10	207	<10	35
P377893		<10	<10	209	<10	39
P377894		<10	<10	228	<10	46
P377895		<10	<10	222	<10	46
P377896		<10	<10	214	<10	42
P377897		<10	<10	221	<10	40
P377898		<10	<10	210	<10	40
P377899		<10	<10	214	<10	35
P377900		<10	<10	167	<10	178
P377901		<10	<10	138	<10	30
P377902		<10	<10	152	<10	31
P377903		<10	<10	148	<10	31
P377904		<10	<10	137	<10	31
P377905		<10	<10	148	<10	32
P377906		<10	<10	166	<10	36
P377907		<10	<10	153	<10	38
P377908		<10	<10	146	<10	34
P377909		<10	10	135	<10	38

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 10- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285463

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10
P377910		4.86	<0.001	<0.5	0.07	<5	170	<0.5	<2	19.7	<0.5	1	<1	1	0.48	<10
P377911		4.32	0.075	<0.5	8.38	<5	1550	1.1	<2	2.92	<0.5	9	4	426	3.33	20
P377912		4.34	0.056	<0.5	8.15	<5	1500	1.1	<2	2.69	<0.5	10	3	396	3.49	20
P377912_PD		<0.02	0.029	<0.5	8.53	<5	1570	1.2	2	2.78	<0.5	10	3	411	3.65	20
P377913		4.44	0.039	<0.5	8.46	<5	1520	1.2	<2	2.94	<0.5	8	4	341	3.51	20
P377913_CD		<0.02	0.050	<0.5	8.52	<5	1500	1.2	<2	2.91	<0.5	9	4	345	3.42	20
P377914		4.36	0.023	<0.5	8.60	6	1490	1.2	<2	2.98	<0.5	8	4	322	3.61	20
P377915		4.26	0.117	<0.5	8.44	5	1740	1.2	<2	2.89	<0.5	9	3	537	3.58	20
P377916		3.10	0.047	<0.5	8.44	<5	1550	1.2	<2	3.29	<0.5	10	4	227	3.73	20
P377917		3.64	0.027	<0.5	8.27	8	1340	1.3	<2	3.50	<0.5	12	5	306	4.09	20
P377918		2.24	0.121	<0.5	8.02	5	1480	1.3	3	3.40	<0.5	11	4	281	4.08	20
P377919		3.30	0.015	<0.5	8.08	5	1250	1.1	<2	3.44	<0.5	13	3	100	4.13	20
P377920		0.14	0.272	2.4	6.92	82	1990	0.7	<2	3.36	2.4	23	13	1900	6.46	20
P377921		3.10	0.016	<0.5	7.95	7	1360	1.2	<2	3.38	<0.5	11	4	126	4.29	20
P377922		2.78	0.012	<0.5	8.39	6	1430	1.2	<2	3.59	<0.5	11	4	91	4.40	20
P377923		3.72	0.020	<0.5	8.08	8	1510	1.2	<2	3.47	<0.5	11	4	135	4.42	20
P377924		4.18	0.094	<0.5	8.06	<5	1360	1.2	<2	3.41	<0.5	12	4	137	4.36	20
P377925		4.28	0.015	<0.5	8.41	7	1510	1.3	<2	3.72	<0.5	13	4	129	4.64	20
P377926		2.74	0.099	<0.5	7.88	<5	1510	1.2	<2	3.81	<0.5	11	4	249	4.44	20
P377927		3.82	0.017	<0.5	8.49	<5	1610	1.2	<2	4.30	<0.5	13	5	150	5.05	20
P377928		4.38	0.020	<0.5	7.94	8	1450	1.0	<2	4.02	<0.5	15	5	142	5.22	20
P377929		4.46	0.035	<0.5	8.33	<5	1510	0.9	<2	3.88	<0.5	17	7	260	5.40	20
P377930		3.50	<0.001	<0.5	0.05	<5	40	<0.5	3	21.1	<0.5	<1	<1	2	0.53	<10
P377931		4.58	0.055	<0.5	8.09	<5	1450	0.9	<2	3.86	<0.5	16	6	260	5.26	20
P377932		4.64	0.041	<0.5	7.78	7	1340	0.9	<2	4.02	<0.5	16	6	270	5.30	20
P377933		4.16	0.028	<0.5	8.19	<5	1350	1.2	<2	4.08	<0.5	16	6	255	5.22	20
P377934		4.34	0.024	<0.5	8.12	<5	1330	1.3	<2	3.98	<0.5	16	6	210	5.21	20
P377935		4.42	0.034	<0.5	8.16	<5	1230	1.3	<2	4.30	<0.5	15	6	196	5.15	20
P377936		2.96	0.015	<0.5	8.27	<5	1400	1.1	<2	4.38	<0.5	17	6	172	5.67	20

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 10- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285463

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
P377910		0.03	<10	12.20	214	<1	0.02	<1	200	2	<0.01	<5	<1	54	<20	<0.01
P377911		4.11	10	0.83	547	4	3.56	<1	990	2	0.04	<5	5	616	<20	0.21
P377912		3.94	10	0.89	558	<1	3.53	<1	1020	3	0.05	<5	5	570	<20	0.21
P377912_PD		3.93	10	0.92	574	<1	3.51	1	1080	5	0.05	<5	5	602	<20	0.21
P377913		3.93	10	0.88	551	<1	3.68	1	1080	3	0.04	<5	5	564	<20	0.21
P377913_CD		4.09	10	0.88	550	<1	3.65	<1	1040	5	0.04	<5	5	559	<20	0.21
P377914		3.84	10	0.88	566	<1	3.74	<1	1100	5	0.04	<5	6	624	<20	0.22
P377915		4.27	10	0.92	586	1	3.43	<1	1110	4	0.06	<5	6	767	<20	0.22
P377916		3.97	10	0.98	631	2	3.59	1	1250	5	0.03	<5	7	771	<20	0.24
P377917		3.84	10	1.18	680	5	3.30	2	1450	7	0.03	<5	9	757	<20	0.27
P377918		3.69	10	1.19	704	2	3.35	3	1420	9	0.04	<5	8	604	<20	0.26
P377919		3.61	10	1.22	697	2	3.32	3	1490	2	0.02	<5	8	723	<20	0.26
P377920		2.17	10	0.93	1235	30	2.36	17	840	69	1.49	6	12	408	<20	0.29
P377921		3.73	10	1.18	685	4	3.19	5	1530	3	0.01	<5	8	954	<20	0.27
P377922		3.94	10	1.24	776	1	3.29	4	1560	5	0.01	<5	9	923	<20	0.29
P377923		3.94	10	1.18	764	3	3.29	3	1530	3	0.02	<5	8	702	<20	0.27
P377924		3.69	10	1.16	729	3	3.39	3	1520	3	0.02	<5	8	529	<20	0.27
P377925		3.80	10	1.24	776	3	3.50	4	1640	4	0.02	<5	9	840	<20	0.29
P377926		3.57	10	1.21	764	2	3.25	4	1580	2	0.03	<5	8	968	<20	0.28
P377927		3.39	10	1.58	861	2	3.12	5	1860	2	0.02	<5	12	1250	<20	0.34
P377928		3.51	10	1.73	1000	2	3.20	8	1920	3	0.03	<5	12	713	<20	0.34
P377929		3.57	10	1.76	920	3	3.14	8	1990	2	0.03	<5	13	966	<20	0.34
P377930		0.02	<10	12.85	220	<1	0.01	<1	210	<2	0.02	<5	<1	49	<20	<0.01
P377931		3.43	10	1.73	886	2	3.08	8	1980	<2	0.03	<5	13	958	<20	0.33
P377932		3.47	10	1.74	928	3	2.93	8	1930	3	0.03	<5	13	911	<20	0.34
P377933		3.90	10	1.75	906	6	3.07	8	1950	2	0.03	<5	13	909	<20	0.35
P377934		3.66	10	1.80	885	4	3.11	9	1940	3	0.03	<5	13	952	<20	0.35
P377935		3.43	10	1.81	910	6	3.01	7	1910	<2	0.03	<5	13	919	<20	0.34
P377936		3.54	10	1.94	938	3	3.22	10	2140	2	0.02	<5	14	1045	<20	0.37

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 10- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285463

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Tl	U	V	W	Zn
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	10	10	1	10	2
P377910		<10	<10	2	<10	14
P377911		<10	<10	136	<10	35
P377912		<10	<10	141	<10	34
P377912_PD		<10	<10	146	<10	35
P377913		<10	<10	144	<10	35
P377913_CD		<10	<10	141	<10	35
P377914		<10	<10	144	<10	41
P377915		<10	<10	143	<10	36
P377916		<10	<10	148	<10	41
P377917		<10	<10	165	<10	41
P377918		<10	<10	165	<10	36
P377919		<10	<10	166	<10	33
P377920		<10	<10	156	<10	329
P377921		<10	<10	173	<10	38
P377922		<10	<10	183	<10	45
P377923		<10	<10	171	<10	40
P377924		<10	<10	169	<10	40
P377925		<10	<10	180	<10	45
P377926		<10	<10	178	<10	40
P377927		<10	<10	221	<10	39
P377928		<10	<10	221	<10	43
P377929		<10	<10	224	<10	41
P377930		<10	<10	3	<10	15
P377931		<10	<10	219	<10	39
P377932		<10	<10	221	<10	39
P377933		<10	<10	226	<10	41
P377934		<10	<10	224	<10	42
P377935		<10	<10	224	<10	38
P377936		<10	<10	246	<10	39

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12- DEC- 2012
Account: GOFICA

CERTIFICATE VA12285464

Project: Red Gold

P.O. No.: RG- 2012- 16c

This report is for 190 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 4- DEC- 2012.

The following have access to data associated with this certificate:

JACQUELINE BLACKWELL	NATE BREWER	MATT ECKFELDT
JULIANNE MADSEN	AMELIA RAINBOW	ROSS SHERLOCK
TWILA SKINNER	TIM STUBLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
WSH- 22	"Wash" pulverizers
SPL- 21d	Split sample - duplicate
LOG- 22	Sample login - Rcd w/o BarCode
PUL- 32d	Pulverize Split - Dup 85% < 75um
LOG- 21d	Sample logging - ClientBarCode Dup
LOG- 23	Pulp Login - Rcvd with Barcode
SPL- 34	Pulp Splitting Charge
BAG- 01	Bulk Master for Storage
CRU- 31	Fine crushing - 70% < 2mm
CRU- QC	Crushing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 32	Pulverize 1000g to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP61	33 element four acid ICP- AES	ICP- AES

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
ATTN: JULIANNE MADSEN
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285464

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10
P377937		3.62	0.017	<0.5	7.45	<5	1270	1.0	<2	6.47	<0.5	28	26	251	7.87	20
P377938		4.88	0.014	<0.5	7.59	<5	1360	0.9	<2	6.44	<0.5	29	25	229	7.86	20
P377939		4.82	0.186	<0.5	7.02	6	1020	0.9	3	6.36	<0.5	29	26	1010	8.05	20
P377940		0.14	0.681	1.5	6.72	89	1340	0.6	<2	2.98	1.0	32	12	2600	8.20	20
P377941		5.00	0.020	<0.5	7.54	5	980	0.8	<2	6.55	<0.5	33	27	269	9.01	20
P377942		2.46	0.014	<0.5	7.26	9	1820	0.7	<2	6.27	<0.5	27	18	191	7.46	20
P377943		4.50	0.096	<0.5	7.76	6	1360	0.9	<2	5.15	<0.5	24	14	468	6.99	20
P377944		4.74	0.028	<0.5	7.82	5	1140	0.9	<2	4.64	<0.5	20	8	143	6.26	20
P377945		2.06	0.046	<0.5	7.88	<5	1020	0.8	<2	5.20	<0.5	21	6	264	6.60	20
P377946		4.82	0.033	<0.5	8.24	<5	1260	0.9	<2	4.76	<0.5	17	7	123	5.98	20
P377947		4.82	0.028	<0.5	7.93	<5	1050	1.1	<2	4.93	<0.5	17	7	187	5.72	20
P377948		4.10	0.020	<0.5	6.90	<5	1280	1.0	<2	4.35	<0.5	15	8	144	5.09	20
P377949		2.50	0.015	<0.5	7.55	<5	810	1.6	<2	1.65	<0.5	4	18	94	2.20	20
P377950		4.08	0.001	<0.5	0.05	<5	20	<0.5	3	20.3	<0.5	<1	<1	2	0.49	<10
P377951		4.52	0.019	<0.5	7.26	<5	850	1.3	<2	2.15	<0.5	4	20	62	2.06	10
P377952		2.20	0.018	<0.5	7.58	<5	1020	1.2	<2	2.50	<0.5	5	16	80	2.78	10
P377953		3.98	0.019	<0.5	8.43	<5	990	1.4	<2	2.45	<0.5	6	19	239	2.34	20
P377954		2.62	0.021	<0.5	7.73	5	1330	1.2	<2	5.17	<0.5	14	7	361	4.91	20
P377954_PB		0.22	<0.001	<0.5	0.66	<5	40	<0.5	<2	0.10	<0.5	1	10	7	0.89	<10
P377955		4.90	0.024	<0.5	7.64	<5	1590	0.9	<2	5.05	<0.5	18	7	217	5.36	20
P377956		4.76	0.027	<0.5	7.88	10	1460	1.0	<2	5.09	<0.5	19	7	234	5.45	20
P377957		4.68	0.012	<0.5	8.60	7	1490	1.2	<2	5.35	<0.5	19	7	172	5.67	20
P377958		4.62	0.014	<0.5	8.47	8	1490	1.1	<2	5.04	<0.5	20	7	176	5.64	20
P377959		4.64	0.026	<0.5	8.56	6	1510	1.1	<2	5.10	<0.5	19	6	183	5.64	20
P377960		0.16	0.308	2.4	7.59	84	2090	0.7	<2	3.66	2.8	26	13	2030	6.59	20
P377961		2.32	0.017	<0.5	8.16	8	1620	0.9	<2	4.88	<0.5	17	7	208	5.35	20
P377961_PD		<0.02	0.021	<0.5	8.85	<5	1660	0.9	<2	5.01	<0.5	18	7	210	5.60	20
P377962		2.22	0.018	<0.5	8.22	<5	1610	0.9	<2	4.82	<0.5	17	6	250	5.31	20
P377962_CD		<0.02	0.022	<0.5	8.51	6	1650	0.9	<2	4.94	<0.5	18	6	242	5.46	20
P377963		2.94	0.029	<0.5	8.59	6	1590	1.1	<2	4.80	<0.5	15	6	330	5.38	20
P377964		4.12	0.037	<0.5	8.17	<5	960	1.8	<2	1.45	<0.5	6	19	672	2.01	20
P377965		3.92	0.047	<0.5	8.18	11	1430	1.2	<2	4.37	<0.5	15	7	186	5.15	20
P377966		4.62	0.013	<0.5	8.58	<5	1430	1.4	<2	4.34	<0.5	16	6	166	5.26	20
P377967		4.70	0.021	<0.5	8.53	10	1430	1.3	<2	4.79	<0.5	17	7	199	5.51	20
P377968		4.58	0.043	<0.5	7.80	7	1430	1.3	<2	4.71	<0.5	18	7	289	5.20	20
P377969		4.52	0.028	<0.5	8.30	7	1400	1.4	<2	4.54	<0.5	18	8	325	5.19	20
P377970		4.00	0.001	<0.5	0.07	6	370	<0.5	<2	22.7	<0.5	<1	<1	1	0.56	<10
P377971		4.70	0.044	<0.5	8.64	<5	1350	1.3	<2	4.81	<0.5	19	6	345	5.34	20
P377972		2.80	0.057	<0.5	8.57	<5	1590	1.1	<2	4.31	<0.5	20	11	710	5.60	20
P377973		4.08	0.011	<0.5	9.23	5	1760	1.5	<2	3.25	<0.5	9	4	119	3.61	20

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285464

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 K % 0.01	ME-ICP61 La ppm 10	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sc ppm 1	ME-ICP61 Sr ppm 1	ME-ICP61 Th ppm 20	ME-ICP61 Ti % 0.01
P377937		2.79	10	2.92	1430	1	2.18	21	2290	4	0.02	<5	28	989	<20	0.44
P377938		2.96	10	2.95	1440	1	2.19	22	2310	<2	0.01	<5	27	1005	<20	0.45
P377939		2.46	10	3.09	1425	1	2.03	23	2150	<2	0.02	<5	29	957	<20	0.45
P377940		2.13	10	1.09	1490	11	2.07	9	830	32	1.77	16	15	360	<20	0.31
P377941		2.74	10	3.42	1555	<1	2.25	24	2250	3	0.02	<5	33	996	<20	0.51
P377942		2.86	10	2.75	1460	1	2.28	19	2250	4	0.01	<5	24	1010	<20	0.47
P377943		3.12	10	2.85	1200	<1	2.63	17	2380	4	0.02	<5	21	838	<20	0.45
P377944		3.10	10	2.56	973	<1	2.81	14	2490	<2	0.01	<5	16	938	<20	0.42
P377945		2.31	10	2.37	1215	<1	2.86	10	2610	6	0.01	<5	15	1070	<20	0.41
P377946		3.26	10	2.12	918	<1	2.83	10	2280	8	0.01	5	15	1065	<20	0.38
P377947		2.46	10	1.95	961	<1	2.95	8	2230	10	0.02	<5	15	998	<20	0.35
P377948		2.87	10	1.66	912	<1	2.83	8	1990	4	0.01	<5	11	890	<20	0.34
P377949		4.46	<10	0.72	389	<1	3.61	4	600	<2	<0.01	<5	7	307	<20	0.15
P377950		0.02	<10	12.55	206	<1	0.01	<1	160	<2	0.01	<5	<1	47	<20	<0.01
P377951		4.15	<10	0.75	372	<1	3.53	4	640	<2	0.01	<5	7	377	<20	0.15
P377952		4.05	10	0.96	504	<1	3.49	6	910	2	0.01	<5	8	485	<20	0.19
P377953		4.54	10	0.84	450	<1	3.79	9	760	4	0.01	<5	8	413	<20	0.17
P377954		3.32	10	1.71	889	1	3.21	11	1950	5	0.03	<5	13	907	<20	0.35
P377954_PB		0.28	10	0.05	92	<1	0.07	2	60	<2	<0.01	<5	1	20	<20	0.04
P377955		3.15	<10	1.86	976	1	3.04	13	2180	5	0.02	<5	13	1010	<20	0.38
P377956		3.02	<10	1.87	1040	1	3.08	14	2190	4	0.02	5	14	1010	<20	0.37
P377957		3.15	10	1.97	1080	<1	3.20	12	2240	3	0.02	<5	15	1000	<20	0.39
P377958		3.33	10	1.87	1060	1	3.04	9	2180	5	0.02	<5	15	1010	<20	0.38
P377959		3.28	10	1.92	1035	1	3.07	11	2200	9	0.02	6	15	1020	<20	0.38
P377960		2.26	10	0.99	1355	30	2.48	12	900	68	1.56	8	14	429	<20	0.31
P377961		3.31	10	1.82	1020	2	3.12	13	2120	19	0.02	<5	13	1070	<20	0.37
P377961_PD		3.42	10	1.91	1045	<1	3.18	10	2150	17	0.02	<5	15	1100	<20	0.39
P377962		3.29	10	1.83	1005	<1	3.17	12	2110	14	0.03	<5	13	1100	<20	0.38
P377962_CD		3.35	10	1.89	1025	<1	3.23	13	2160	16	0.02	<5	14	1120	<20	0.38
P377963		3.45	10	1.84	1025	<1	3.26	9	2100	18	0.03	<5	14	1010	<20	0.39
P377964		4.68	10	0.72	400	<1	3.85	7	650	46	0.06	<5	7	358	<20	0.15
P377965		3.68	10	1.77	979	1	3.22	10	2030	14	0.02	<5	13	957	<20	0.35
P377966		3.77	10	1.83	962	1	3.28	11	2060	23	0.02	<5	14	1020	<20	0.36
P377967		3.60	10	1.87	979	1	3.25	10	2130	2	0.03	6	14	1060	<20	0.37
P377968		3.47	<10	1.75	936	1	3.16	9	2070	<2	0.03	<5	12	998	<20	0.37
P377969		3.48	10	1.82	923	<1	3.21	11	2070	<2	0.04	<5	13	1000	<20	0.36
P377970		0.02	<10	13.90	243	<1	0.01	2	190	<2	0.02	<5	<1	55	<20	<0.01
P377971		3.38	10	1.87	926	<1	3.27	10	2050	<2	0.04	<5	14	936	<20	0.36
P377972		3.35	10	1.79	922	<1	3.34	10	1910	<2	0.08	<5	13	1060	<20	0.41
P377973		4.25	10	0.95	523	<1	3.91	4	1270	<2	0.02	<5	7	996	<20	0.27

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285464

Sample Description	Method Analyte Units LOR	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
P377937		<10	<10	323	<10	89
P377938		<10	<10	327	<10	90
P377939		<10	<10	342	<10	88
P377940		<10	<10	171	<10	180
P377941		<10	<10	359	<10	97
P377942		<10	<10	320	<10	91
P377943		<10	<10	320	<10	72
P377944		<10	<10	275	<10	57
P377945		<10	<10	282	<10	62
P377946		<10	<10	259	<10	60
P377947		<10	<10	243	<10	53
P377948		<10	<10	229	<10	51
P377949		<10	<10	115	<10	23
P377950		<10	<10	2	<10	13
P377951		<10	<10	112	<10	25
P377952		<10	<10	137	<10	31
P377953		<10	<10	133	<10	31
P377954		<10	<10	246	<10	44
P377954_PB		<10	<10	8	<10	<2
P377955		<10	<10	265	<10	50
P377956		<10	<10	256	<10	54
P377957		<10	<10	263	<10	56
P377958		<10	<10	252	<10	61
P377959		<10	<10	256	<10	70
P377960		<10	<10	166	<10	342
P377961		<10	<10	250	<10	65
P377961_PD		<10	<10	253	<10	66
P377962		<10	<10	250	<10	66
P377962_CD		10	<10	256	<10	69
P377963		<10	<10	255	<10	71
P377964		<10	<10	123	<10	62
P377965		<10	<10	234	<10	70
P377966		<10	<10	236	<10	78
P377967		<10	<10	244	<10	37
P377968		<10	<10	241	<10	35
P377969		<10	<10	236	<10	37
P377970		<10	<10	3	<10	17
P377971		<10	<10	237	<10	36
P377972		<10	<10	273	<10	33
P377973		<10	<10	167	<10	18

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285464

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
P377974		4.66	0.031	<0.5	9.44	<5	1720	1.3	2	3.10	<0.5	6	3	119	3.26	20
P377975		4.86	0.009	<0.5	9.36	<5	1720	1.4	<2	2.87	<0.5	6	4	48	3.28	20
P377976		4.78	0.043	<0.5	8.86	<5	1730	1.2	<2	2.95	<0.5	6	4	300	2.91	20
P377977		4.68	0.061	<0.5	9.07	<5	1840	1.1	<2	2.92	<0.5	8	4	627	2.93	20
P377978		4.54	0.020	<0.5	9.14	<5	1800	1.1	<2	2.84	<0.5	6	4	219	2.84	20
P377979		4.56	0.040	<0.5	9.10	6	1900	1.1	<2	2.92	<0.5	7	4	309	3.14	20
P377980		0.16	0.673	1.2	7.08	89	1480	0.6	<2	3.07	0.9	35	12	2760	7.96	20
P377981		4.70	0.129	<0.5	8.42	<5	1760	1.1	<2	2.47	<0.5	8	4	355	2.76	20
P377982		4.70	0.075	<0.5	8.86	<5	1840	1.2	<2	2.73	<0.5	14	4	687	3.05	20
P377983		4.90	0.053	<0.5	9.22	7	2000	1.2	<2	2.39	<0.5	11	5	587	3.08	20
P377984		4.78	0.110	<0.5	8.97	<5	1820	1.1	<2	2.51	<0.5	11	3	827	2.98	20
P377985		4.64	0.129	<0.5	8.93	<5	1720	1.2	2	2.42	<0.5	8	4	588	2.87	20
P377986		4.62	0.134	<0.5	8.11	6	1680	1.1	<2	2.34	<0.5	9	4	694	2.81	20
P377986_PD		<0.02	0.143	<0.5	8.13	<5	1690	1.1	<2	2.43	<0.5	10	4	758	2.83	20
P377987		4.62	0.141	<0.5	8.49	<5	1630	1.2	<2	2.19	<0.5	10	3	538	2.75	20
P377987_CD		<0.02	0.133	<0.5	8.42	6	1610	1.1	<2	2.14	<0.5	9	3	531	2.88	20
P377988		4.40	0.174	<0.5	8.11	<5	1410	1.2	<2	2.43	<0.5	7	3	386	2.76	20
P377989		3.78	0.225	<0.5	8.07	5	1450	1.2	<2	2.28	<0.5	9	3	406	2.75	20
P377990		2.96	0.001	<0.5	0.07	<5	60	<0.5	<2	21.5	<0.5	1	<1	3	0.50	<10
P377991		4.66	0.093	<0.5	8.41	7	1690	1.2	<2	2.48	<0.5	9	3	293	2.90	20
P377992		4.70	0.039	<0.5	8.17	<5	1710	1.1	<2	2.38	<0.5	7	11	176	2.80	20
P377993		4.54	0.069	<0.5	8.30	<5	1780	1.1	<2	2.40	<0.5	9	3	249	2.89	20
P377994		4.74	0.175	<0.5	8.12	<5	1800	1.1	<2	2.49	<0.5	11	3	450	2.78	20
P377995		4.76	0.155	<0.5	8.20	<5	1770	1.1	<2	2.43	<0.5	6	3	323	2.76	20
P377996		4.84	0.310	<0.5	8.09	<5	2180	1.0	<2	2.42	<0.5	9	5	684	2.80	20
P377997		4.62	0.160	<0.5	8.52	5	1930	1.0	<2	1.41	<0.5	7	3	394	2.71	20
P377998		4.44	0.033	<0.5	8.07	<5	1570	1.1	<2	1.74	<0.5	6	3	227	2.65	20
P377999		4.08	0.036	<0.5	8.03	<5	1480	1.2	<2	1.79	<0.5	5	3	186	2.60	20
P378000		0.14	0.307	2.3	6.85	78	2070	0.6	<2	3.46	2.2	23	11	1840	6.13	20
P377301		4.28	0.021	<0.5	8.03	<5	1560	1.1	<2	2.57	<0.5	5	3	165	2.81	20
P377302		2.24	0.073	<0.5	8.08	<5	1350	1.1	<2	2.87	<0.5	6	3	496	2.53	20
P377303		2.62	0.055	<0.5	8.73	<5	1530	1.2	4	3.16	<0.5	7	3	285	2.86	20
P377304		3.66	0.015	<0.5	8.32	7	1680	0.9	3	3.64	<0.5	8	3	87	3.39	20
P377305		4.50	0.004	<0.5	8.22	<5	1460	0.8	3	3.83	<0.5	10	3	19	3.74	20
P377306		4.70	0.008	<0.5	8.32	<5	1630	0.9	3	3.69	<0.5	10	2	22	3.66	20
P377307		4.50	0.016	<0.5	8.07	<5	1500	0.9	2	3.48	<0.5	11	3	193	3.64	20
P377308		4.38	0.046	<0.5	8.09	5	1590	0.9	<2	3.26	<0.5	9	3	229	3.74	20
P377309		4.44	0.013	<0.5	8.17	<5	1880	0.8	3	3.74	<0.5	12	3	58	3.89	20
P377310		3.78	0.001	<0.5	0.06	<5	30	<0.5	<2	20.8	<0.5	1	<1	<1	0.48	<10
P377311		4.42	0.025	<0.5	8.62	5	1900	0.9	2	4.01	<0.5	11	3	89	3.97	20

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285464

Sample Description	Method / Analyte / Units / LOR	ME- ICP61 K % 0.01	ME- ICP61 La ppm 10	ME- ICP61 Mg % 0.01	ME- ICP61 Mn ppm 5	ME- ICP61 Mo ppm 1	ME- ICP61 Na % 0.01	ME- ICP61 Ni ppm 1	ME- ICP61 P ppm 10	ME- ICP61 Pb ppm 2	ME- ICP61 S % 0.01	ME- ICP61 Sb ppm 5	ME- ICP61 Sc ppm 1	ME- ICP61 Sr ppm 1	ME- ICP61 Th ppm 20	ME- ICP61 Ti % 0.01
P377974		4.44	10	0.87	453	<1	4.12	2	1040	<2	0.01	<5	6	903	<20	0.23
P377975		4.59	10	0.85	423	<1	4.12	1	1060	<2	0.01	<5	6	872	<20	0.23
P377976		4.46	10	0.80	397	1	3.83	2	990	<2	0.04	<5	5	927	<20	0.22
P377977		4.49	10	0.80	420	15	3.82	3	990	<2	0.09	<5	5	941	<20	0.22
P377978		4.58	10	0.76	426	1	3.90	3	950	<2	0.03	<5	5	819	<20	0.21
P377979		4.50	10	0.82	474	<1	3.84	3	1000	<2	0.04	<5	5	936	<20	0.22
P377980		2.14	10	1.07	1560	10	2.12	12	830	32	1.78	11	16	362	<20	0.31
P377981		4.18	10	0.74	428	2	3.69	3	940	<2	0.05	<5	5	838	<20	0.21
P377982		4.44	10	0.81	415	3	3.69	2	990	<2	0.10	<5	5	996	<20	0.22
P377983		4.64	10	0.84	419	1	3.91	4	990	<2	0.08	<5	5	984	<20	0.22
P377984		4.66	10	0.76	408	1	3.68	3	920	<2	0.11	<5	5	921	<20	0.21
P377985		4.48	10	0.75	371	1	3.87	1	900	2	0.08	<5	5	904	<20	0.20
P377986		4.27	10	0.72	355	1	3.49	1	910	<2	0.10	<5	5	838	<20	0.19
P377986_PD		4.29	10	0.75	370	1	3.45	2	930	2	0.10	<5	5	843	<20	0.20
P377987		4.38	10	0.76	335	1	3.72	1	900	2	0.08	<5	5	720	<20	0.20
P377987_CD		4.34	10	0.75	335	1	3.66	3	910	<2	0.08	<5	4	710	<20	0.20
P377988		4.13	10	0.76	321	2	3.52	2	890	<2	0.04	<5	4	658	<20	0.20
P377989		4.14	10	0.79	322	1	3.61	1	900	<2	0.04	<5	4	657	<20	0.20
P377990		0.03	<10	12.85	218	1	0.01	<1	280	3	<0.01	<5	<1	54	<20	<0.01
P377991		4.25	10	0.78	364	1	3.77	2	890	<2	0.04	<5	5	940	<20	0.20
P377992		4.16	10	0.73	360	1	3.74	1	880	<2	0.02	<5	5	931	<20	0.20
P377993		4.23	10	0.70	382	<1	3.74	1	850	<2	0.04	<5	4	821	<20	0.19
P377994		4.37	10	0.70	388	1	3.67	1	850	<2	0.06	<5	4	714	<20	0.19
P377995		4.27	10	0.69	377	1	3.63	1	880	<2	0.04	<5	4	803	<20	0.19
P377996		4.69	10	0.67	394	<1	3.57	1	890	<2	0.09	<5	4	956	<20	0.19
P377997		4.89	10	0.62	258	<1	3.52	2	1040	<2	<0.01	<5	4	659	<20	0.20
P377998		4.11	10	0.61	337	<1	3.70	1	960	<2	0.01	<5	4	613	<20	0.19
P377999		4.03	10	0.59	270	<1	3.64	<1	880	<2	<0.01	<5	4	572	<20	0.19
P378000		2.15	10	0.91	1175	27	2.32	8	820	61	1.42	6	12	402	<20	0.29
P377301		4.33	10	0.62	362	1	3.67	<1	790	<2	0.02	<5	4	701	<20	0.19
P377302		4.52	10	0.61	344	1	3.49	1	770	<2	0.06	<5	4	512	<20	0.18
P377303		4.47	10	0.67	389	1	3.80	<1	800	<2	0.03	<5	4	654	<20	0.19
P377304		4.18	10	1.03	540	2	3.39	<1	1140	<2	0.01	<5	7	724	<20	0.25
P377305		3.39	<10	1.12	475	1	3.52	<1	1140	<2	0.01	<5	7	798	<20	0.26
P377306		3.71	<10	1.13	452	1	3.48	<1	1200	<2	0.01	<5	7	838	<20	0.26
P377307		3.45	10	1.28	482	3	3.58	<1	1290	<2	0.02	<5	7	584	<20	0.27
P377308		3.30	10	1.29	489	<1	3.38	<1	1250	<2	0.02	<5	8	880	<20	0.26
P377309		3.67	<10	1.26	623	1	3.38	<1	1310	<2	0.01	<5	8	967	<20	0.28
P377310		0.02	<10	12.35	199	<1	0.01	<1	140	<2	<0.01	<5	<1	50	<20	<0.01
P377311		3.92	10	1.31	607	1	3.47	<1	1460	<2	0.01	<5	8	1025	<20	0.28

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285464

Sample Description	Method Analyte Units LOR	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
P377974		<10	<10	147	<10	17
P377975		<10	<10	153	<10	16
P377976		<10	<10	139	<10	15
P377977		<10	<10	137	<10	17
P377978		<10	<10	127	<10	16
P377979		<10	<10	143	<10	18
P377980		<10	<10	172	<10	181
P377981		<10	<10	124	<10	18
P377982		<10	<10	137	<10	19
P377983		<10	<10	140	<10	24
P377984		<10	<10	135	<10	27
P377985		<10	<10	136	<10	25
P377986		<10	<10	129	<10	20
P377986_PD		<10	<10	128	<10	21
P377987		<10	<10	126	<10	18
P377987_CD		<10	<10	128	<10	18
P377988		<10	<10	133	<10	16
P377989		<10	<10	126	<10	15
P377990		<10	<10	2	<10	16
P377991		<10	<10	131	<10	15
P377992		<10	<10	128	<10	17
P377993		<10	<10	126	<10	17
P377994		<10	<10	125	<10	16
P377995		<10	<10	124	<10	17
P377996		<10	<10	126	<10	21
P377997		<10	<10	129	<10	17
P377998		<10	<10	122	<10	14
P377999		<10	<10	122	<10	14
P378000		<10	<10	149	<10	320
P377301		<10	<10	120	<10	13
P377302		<10	<10	114	<10	15
P377303		<10	<10	130	<10	14
P377304		<10	<10	183	10	17
P377305		<10	<10	207	<10	18
P377306		<10	<10	199	<10	17
P377307		<10	<10	202	<10	18
P377308		<10	<10	206	<10	16
P377309		<10	<10	211	<10	24
P377310		<10	<10	2	<10	14
P377311		<10	<10	217	<10	20

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285464

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
P377311_PD		<0.02	0.028	<0.5	8.30	7	1820	0.8	<2	3.84	<0.5	10	4	82	3.81	20
P377312		4.44	0.018	<0.5	8.27	8	1760	0.8	<2	3.71	<0.5	10	3	75	3.70	20
P377312_CD		<0.02	0.015	<0.5	8.32	<5	1750	0.8	2	3.87	<0.5	10	3	79	3.75	20
P377313		4.36	0.031	<0.5	8.32	<5	1940	0.8	4	3.88	<0.5	10	4	109	3.74	20
P377314		2.30	0.009	<0.5	8.57	<5	1970	0.8	3	4.23	<0.5	11	3	40	3.97	20
P377315		4.02	0.024	<0.5	8.03	6	1990	0.8	<2	4.33	<0.5	11	3	51	3.81	20
P377316		2.74	0.129	<0.5	8.44	<5	1480	1.0	2	3.24	<0.5	7	4	395	3.50	20
P377317		2.72	0.085	<0.5	7.98	<5	1440	1.0	4	3.15	<0.5	7	3	453	3.57	20
P377318		4.30	0.038	<0.5	8.66	<5	1860	1.2	<2	3.15	<0.5	5	3	225	2.86	20
P377319		4.52	0.040	<0.5	8.70	<5	1720	1.0	<2	2.86	<0.5	6	3	143	2.84	20
P377320		0.16	0.688	1.3	6.67	67	1460	0.6	<2	2.99	0.6	32	11	2500	7.48	20
P377321		4.28	0.051	<0.5	8.17	8	1650	0.8	<2	4.00	<0.5	10	3	247	3.67	20
P377322		4.50	0.015	<0.5	8.05	5	1380	0.9	<2	3.85	<0.5	11	2	56	3.75	20
P377323		4.42	0.020	<0.5	9.05	<5	1790	1.0	2	3.89	<0.5	11	3	94	3.99	20
P377324		4.42	0.031	<0.5	8.53	<5	1740	1.1	2	3.60	<0.5	8	3	13	3.37	20
P377325		4.56	0.063	<0.5	8.37	<5	1660	1.0	<2	3.82	<0.5	11	3	20	3.99	20
P377326		2.24	0.019	<0.5	8.20	<5	1600	0.9	2	3.44	<0.5	11	3	27	3.83	20
P377327		3.88	0.014	<0.5	8.26	<5	1660	0.9	3	3.93	<0.5	10	3	16	3.91	20
P377328		2.82	0.143	<0.5	8.34	<5	1700	1.0	<2	2.82	<0.5	5	3	114	2.88	20
P377329		4.30	0.029	<0.5	8.78	<5	1700	1.1	3	2.90	<0.5	6	3	298	2.92	20
P377330		3.84	<0.001	<0.5	0.07	<5	110	<0.5	<2	20.1	<0.5	1	<1	1	0.48	<10
P377331		4.48	0.070	<0.5	8.48	<5	1840	1.1	2	2.41	<0.5	5	3	179	2.63	20
P377332		4.40	0.079	<0.5	8.62	<5	1550	1.1	3	2.82	<0.5	5	2	80	2.88	20
P377333		4.36	0.008	<0.5	7.94	<5	1560	1.1	2	2.57	<0.5	5	3	21	2.54	20
P377334		4.34	0.042	<0.5	8.45	<5	1550	1.1	<2	2.46	<0.5	6	4	193	2.82	20
P377335		4.24	0.035	<0.5	8.01	<5	1600	1.0	<2	2.55	<0.5	6	2	181	2.65	20
P377336		4.40	0.118	<0.5	8.69	<5	1620	1.2	<2	2.39	<0.5	6	3	710	3.20	20
P377336_PD		<0.02	0.132	<0.5	8.79	6	1620	1.2	2	2.41	<0.5	6	3	704	3.19	20
P377337		4.44	0.024	<0.5	9.01	5	1620	1.2	<2	3.02	<0.5	6	2	113	2.95	20
P377337_CD		<0.02	0.059	<0.5	9.21	6	1630	1.2	<2	3.14	<0.5	6	3	117	3.04	20
P377338		4.26	0.016	<0.5	9.08	6	1620	1.1	2	2.56	<0.5	6	3	96	2.83	20
P377339		4.46	0.019	<0.5	8.89	<5	1620	1.3	2	2.82	<0.5	6	3	40	2.85	20
P377340		0.14	0.327	2.5	7.57	83	1360	0.7	2	3.60	2.4	25	13	1975	6.56	20
P377341		4.52	0.119	<0.5	8.60	5	1570	1.1	<2	2.70	<0.5	6	3	88	2.77	20
P377342		4.50	0.006	<0.5	9.13	5	1640	1.1	<2	2.87	<0.5	6	3	95	3.08	20
P377343		4.50	0.072	<0.5	8.66	<5	1550	1.2	2	3.30	<0.5	5	2	116	2.79	20
P377344		4.32	0.015	<0.5	8.80	<5	1580	1.2	<2	2.89	<0.5	6	2	70	2.90	20
P377345		4.38	0.015	<0.5	8.85	5	1630	1.2	<2	3.51	<0.5	6	2	84	2.94	20
P377346		4.42	0.021	<0.5	9.04	7	1540	1.3	<2	2.98	<0.5	6	2	106	3.03	20
P377347		4.24	0.036	<0.5	8.84	7	1550	1.2	<2	2.94	<0.5	5	2	155	3.01	20

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285464

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
P377311_PD		3.75	10	1.24	576	1	3.30	<1	1410	<2	0.01	<5	8	982	<20	0.27
P377312		3.60	<10	1.10	485	1	3.44	<1	1190	<2	0.01	<5	7	888	<20	0.25
P377312_CD		3.68	10	1.20	515	3	3.37	<1	1340	<2	0.01	<5	8	857	<20	0.27
P377313		3.48	10	1.14	554	1	3.23	<1	1180	<2	0.01	<5	8	958	<20	0.26
P377314		3.73	10	1.31	601	<1	3.31	1	1400	<2	0.01	<5	8	1050	<20	0.28
P377315		3.26	<10	1.14	581	1	3.10	<1	1350	<2	0.01	<5	8	1005	<20	0.27
P377316		3.98	10	0.88	481	2	3.81	<1	1060	<2	0.04	<5	6	615	<20	0.23
P377317		3.86	10	0.84	460	3	3.78	<1	1020	<2	0.05	<5	6	605	<20	0.23
P377318		4.70	10	0.75	458	<1	3.60	<1	840	<2	0.02	<5	5	766	<20	0.21
P377319		4.18	10	0.73	431	2	3.85	<1	900	<2	0.01	<5	5	829	<20	0.20
P377320		2.03	10	1.03	1435	10	2.02	8	790	30	1.65	10	15	353	<20	0.30
P377321		3.32	10	1.15	556	8	3.43	<1	1300	<2	0.03	<5	8	804	<20	0.26
P377322		2.93	10	1.16	521	1	3.77	<1	1310	<2	0.01	<5	7	760	<20	0.27
P377323		3.97	10	1.19	532	<1	3.75	1	1300	<2	0.01	<5	8	868	<20	0.28
P377324		3.93	10	0.97	508	<1	3.74	<1	1080	<2	<0.01	<5	6	764	<20	0.24
P377325		3.60	<10	1.16	518	<1	3.57	<1	1310	<2	<0.01	<5	8	844	<20	0.27
P377326		3.42	<10	1.21	503	<1	3.64	<1	1280	<2	<0.01	<5	8	912	<20	0.26
P377327		3.34	<10	1.21	543	<1	3.45	1	1340	<2	<0.01	<5	8	884	<20	0.27
P377328		4.33	10	0.71	374	<1	3.59	<1	850	<2	0.01	<5	5	794	<20	0.19
P377329		4.63	10	0.72	393	3	3.64	<1	870	<2	0.03	<5	4	765	<20	0.20
P377330		0.03	<10	11.90	197	<1	0.01	<1	170	<2	<0.01	<5	<1	53	<20	<0.01
P377331		4.84	10	0.72	352	<1	3.39	<1	810	<2	0.02	<5	4	591	<20	0.19
P377332		4.15	10	0.74	381	<1	3.80	<1	870	<2	0.01	<5	4	600	<20	0.19
P377333		4.18	10	0.68	353	<1	3.54	<1	830	<2	<0.01	<5	4	643	<20	0.18
P377334		4.18	10	0.67	313	<1	3.55	<1	810	<2	0.02	<5	4	641	<20	0.19
P377335		4.35	10	0.68	331	<1	3.33	<1	850	<2	0.02	<5	4	616	<20	0.18
P377336		5.16	10	0.79	403	1	3.58	6	990	5	0.08	<5	5	518	<20	0.21
P377336_PD		4.93	10	0.79	407	<1	3.56	1	980	2	0.07	<5	5	520	<20	0.20
P377337		4.33	10	0.81	436	2	3.89	<1	1010	2	0.01	<5	5	769	<20	0.20
P377337_CD		4.40	10	0.83	446	1	3.95	1	1000	2	0.01	<5	5	775	<20	0.20
P377338		4.42	10	0.81	385	1	3.78	<1	920	2	0.01	<5	5	758	<20	0.19
P377339		4.52	10	0.82	442	1	3.75	<1	900	<2	0.01	<5	5	734	<20	0.20
P377340		2.31	10	1.02	1290	30	2.47	9	880	70	1.50	<5	13	427	<20	0.30
P377341		4.05	10	0.83	409	3	3.58	<1	880	<2	0.02	<5	5	757	<20	0.19
P377342		4.04	10	0.87	415	2	3.93	<1	980	<2	0.01	<5	5	848	<20	0.20
P377343		4.02	10	0.84	419	1	3.65	<1	940	<2	0.01	<5	5	790	<20	0.20
P377344		4.20	10	0.82	445	<1	3.78	1	890	2	0.01	<5	5	752	<20	0.19
P377345		4.33	10	0.85	482	<1	3.84	<1	900	3	0.01	<5	5	761	<20	0.20
P377346		4.18	10	0.90	433	2	3.75	<1	930	<2	0.01	<5	5	757	<20	0.21
P377347		4.81	10	0.81	443	<1	3.70	<1	990	<2	0.01	<5	4	562	<20	0.20

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285464

Sample Description	Method Analyte Units LOR	ME- ICP61 Tl ppm 10	ME- ICP61 U ppm 10	ME- ICP61 V ppm 1	ME- ICP61 W ppm 10	ME- ICP61 Zn ppm 2
P377311_PD		10	<10	204	<10	18
P377312		<10	<10	202	<10	18
P377312_CD		<10	<10	206	<10	20
P377313		<10	<10	200	<10	20
P377314		<10	<10	218	<10	20
P377315		<10	<10	212	<10	20
P377316		<10	<10	184	<10	16
P377317		<10	<10	191	<10	15
P377318		<10	<10	135	<10	17
P377319		<10	<10	139	<10	13
P377320		<10	<10	161	<10	180
P377321		<10	10	214	<10	17
P377322		<10	<10	217	<10	19
P377323		<10	<10	207	<10	19
P377324		<10	<10	176	<10	16
P377325		<10	<10	212	<10	18
P377326		<10	<10	201	<10	17
P377327		<10	<10	208	<10	18
P377328		<10	<10	133	<10	12
P377329		<10	<10	125	<10	15
P377330		<10	<10	3	<10	15
P377331		<10	<10	118	<10	15
P377332		<10	<10	122	<10	13
P377333		<10	<10	118	<10	13
P377334		<10	<10	125	<10	13
P377335		<10	<10	124	10	13
P377336		<10	<10	150	<10	21
P377336_PD		<10	<10	149	<10	16
P377337		<10	<10	132	<10	16
P377337_CD		<10	<10	137	<10	17
P377338		<10	<10	124	<10	15
P377339		<10	<10	130	<10	16
P377340		<10	<10	159	<10	342
P377341		<10	<10	126	<10	16
P377342		<10	<10	137	<10	15
P377343		<10	<10	131	<10	14
P377344		<10	<10	130	<10	17
P377345		<10	<10	133	<10	18
P377346		<10	<10	139	<10	15
P377347		<10	<10	141	<10	17

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285464

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
P377348		4.36	0.072	<0.5	8.82	<5	1620	1.1	<2	2.38	<0.5	5	3	231	2.98	20
P377349		4.16	0.038	<0.5	9.25	5	1600	1.2	<2	2.71	<0.5	6	3	116	2.99	20
P377350		2.96	<0.001	<0.5	0.09	<5	70	<0.5	<2	20.9	<0.5	1	<1	<1	0.49	<10
P377351		4.58	0.023	<0.5	8.68	5	1630	1.1	<2	2.60	<0.5	5	3	126	2.79	20
P377352		4.46	0.251	<0.5	8.68	5	1630	1.1	2	2.46	<0.5	6	4	894	2.87	20
P377353		4.32	0.215	<0.5	8.40	<5	1670	1.0	<2	2.94	<0.5	6	3	200	2.86	20
P377354		4.46	0.137	<0.5	8.84	7	1700	1.2	3	2.85	<0.5	6	3	167	3.15	20
P377355		4.34	0.624	<0.5	8.81	5	1880	1.1	<2	2.96	<0.5	6	3	584	3.41	20
P377356		4.50	0.306	<0.5	8.91	7	1830	1.1	<2	2.85	<0.5	6	3	831	2.86	20
P377357		4.42	3.11	<0.5	8.48	12	1870	0.8	3	3.17	<0.5	7	2	1200	3.25	20
P377358		4.18	0.062	<0.5	8.84	10	2170	0.9	2	4.24	<0.5	9	3	212	3.76	20
P377359		4.44	0.093	<0.5	8.21	13	1930	0.9	2	3.11	<0.5	6	2	432	3.17	20
P377360		0.14	0.683	1.3	7.37	92	850	0.6	<2	3.17	0.8	36	11	2720	8.27	20
P377361		4.62	0.039	<0.5	8.53	9	1620	1.0	<2	2.96	<0.5	7	2	265	3.22	20
P377361_PD		<0.02	0.085	<0.5	9.04	11	1710	1.0	2	3.02	<0.5	7	2	277	3.45	20
P377362		4.18	0.067	<0.5	8.65	7	1850	0.9	<2	2.66	<0.5	6	2	325	2.87	20
P377362_CD		<0.02	0.068	<0.5	8.61	7	1860	0.9	2	2.68	<0.5	5	2	358	2.93	20
P377363		4.16	0.106	<0.5	8.21	5	1810	0.7	<2	2.63	<0.5	5	2	292	3.11	20
P377364		4.48	0.062	<0.5	9.23	<5	2160	0.8	<2	2.22	<0.5	7	3	195	3.99	20
P377365		4.34	0.039	<0.5	9.07	<5	1840	1.0	2	2.80	<0.5	7	3	74	2.89	20
P377366		1.50	0.034	<0.5	8.69	7	1990	0.9	<2	2.27	<0.5	6	3	242	3.01	20
P377367		2.58	0.018	<0.5	9.10	5	1960	1.0	2	2.39	<0.5	6	2	158	2.84	20
P377368		3.32	0.045	<0.5	8.76	6	1910	0.9	<2	3.01	<0.5	8	2	228	3.69	20
P377369		4.18	0.156	<0.5	9.46	8	2270	1.0	2	4.58	<0.5	9	2	597	4.00	20
P377370		4.24	0.001	<0.5	0.05	<5	20	<0.5	2	19.5	<0.5	<1	<1	<1	0.45	<10
P377371		4.42	0.024	<0.5	8.31	<5	1800	0.9	<2	4.20	<0.5	8	2	139	3.70	20
P377372		4.52	0.099	<0.5	9.07	<5	1870	1.0	2	4.06	<0.5	10	3	270	4.09	20
P377373		4.44	0.072	<0.5	8.73	<5	1800	0.9	<2	3.77	<0.5	10	3	249	3.98	20
P377374		4.28	0.009	<0.5	8.70	<5	1800	1.0	<2	3.92	<0.5	9	3	88	3.88	20
P377375		4.28	0.080	<0.5	8.99	<5	1860	1.1	<2	3.52	<0.5	10	3	154	4.02	20
P377376		3.90	0.019	<0.5	8.12	<5	1590	1.0	2	2.52	<0.5	10	3	207	3.96	20
P377377		4.20	0.109	<0.5	8.30	<5	1590	1.0	<2	3.20	<0.5	9	3	357	4.00	20
P377378		4.70	0.030	<0.5	8.80	<5	1530	1.0	<2	3.50	<0.5	10	3	109	4.26	20
P377379		4.48	0.038	<0.5	8.41	9	1540	1.0	<2	3.54	<0.5	10	3	139	4.05	20
P377380		0.16	0.264	2.6	7.84	89	1370	0.7	2	3.56	2.6	24	13	2000	6.51	20
P377381		5.26	0.014	<0.5	8.64	6	1610	1.0	2	3.53	<0.5	10	3	119	4.09	20
P377382		4.84	0.027	<0.5	8.54	5	1660	0.9	<2	3.54	<0.5	10	4	107	4.15	20
P377383		4.64	0.017	<0.5	9.01	<5	1630	1.0	2	3.94	<0.5	10	3	137	4.31	20
P377384		4.88	0.015	<0.5	8.51	<5	1580	0.9	<2	3.41	<0.5	11	10	45	4.16	20
P377385		4.42	0.006	<0.5	8.42	8	1720	0.8	2	4.05	<0.5	8	2	91	3.77	20

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285464

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 K % 0.01	ME-ICP61 La ppm 10	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sc ppm 1	ME-ICP61 Sr ppm 1	ME-ICP61 Th ppm 20	ME-ICP61 Ti % 0.01
P377348		5.31	10	0.82	434	<1	3.59	<1	940	2	0.02	<5	4	633	<20	0.20
P377349		4.29	10	0.81	407	1	3.96	<1	970	<2	0.01	<5	5	784	<20	0.20
P377350		0.04	<10	12.90	213	<1	0.02	<1	270	<2	<0.01	<5	<1	57	<20	0.01
P377351		4.22	10	0.88	426	2	3.64	<1	930	2	0.02	<5	5	801	<20	0.20
P377352		4.51	10	0.96	415	<1	3.62	<1	990	2	0.09	<5	5	615	<20	0.20
P377353		4.28	10	0.79	453	<1	3.36	1	930	<2	0.02	<5	5	806	<20	0.19
P377354		4.94	10	0.76	422	<1	3.54	<1	1020	3	0.02	<5	5	684	<20	0.21
P377355		5.04	10	0.89	526	<1	3.29	<1	1060	3	0.06	<5	6	733	<20	0.22
P377356		4.82	10	0.84	541	<1	3.59	1	880	2	0.08	<5	5	780	<20	0.20
P377357		4.60	10	1.05	610	<1	3.32	<1	1120	4	0.04	<5	6	526	<20	0.22
P377358		4.53	10	1.14	703	<1	2.87	<1	1520	5	0.01	<5	7	846	<20	0.25
P377359		4.85	10	0.66	503	<1	2.94	<1	1050	4	0.03	<5	5	583	<20	0.20
P377360		2.24	10	1.16	1540	11	2.19	9	850	34	1.80	6	16	375	<20	0.32
P377361		4.10	10	0.75	401	<1	3.46	<1	990	3	0.02	<5	5	795	<20	0.19
P377361_PD		4.12	10	0.78	406	<1	3.66	<1	1040	2	0.02	<5	5	844	<20	0.19
P377362		4.80	10	0.80	400	<1	2.93	<1	870	4	0.02	<5	5	500	<20	0.19
P377362_CD		5.36	10	0.79	408	<1	2.90	<1	870	4	0.02	<5	5	503	<20	0.20
P377363		4.91	10	0.66	404	<1	2.61	<1	910	2	0.03	<5	4	370	<20	0.18
P377364		4.78	10	0.79	478	<1	3.34	<1	1180	4	0.02	<5	5	590	<20	0.20
P377365		4.44	10	0.76	450	<1	3.69	<1	990	<2	<0.01	<5	5	849	<20	0.21
P377366		4.34	10	0.78	245	<1	2.90	<1	1920	2	<0.01	<5	5	773	<20	0.22
P377367		4.51	10	0.77	289	<1	3.23	<1	1580	3	<0.01	<5	5	841	<20	0.21
P377368		3.94	10	0.96	483	<1	3.00	1	1400	<2	<0.01	<5	8	782	<20	0.28
P377369		4.65	10	1.24	694	<1	3.23	<1	1440	<2	0.06	<5	9	933	<20	0.31
P377370		0.02	<10	12.10	208	<1	0.01	<1	150	<2	<0.01	<5	<1	44	<20	<0.01
P377371		3.57	<10	1.10	544	<1	2.89	<1	1330	<2	0.02	<5	8	818	<20	0.27
P377372		3.66	10	1.30	609	<1	3.32	1	1450	<2	0.03	<5	9	965	<20	0.30
P377373		3.53	10	1.25	584	1	3.23	1	1410	<2	0.03	<5	9	933	<20	0.29
P377374		3.54	<10	1.20	605	3	3.02	<1	1360	<2	0.01	<5	9	879	<20	0.29
P377375		4.01	10	1.10	570	<1	2.85	<1	1550	<2	<0.01	<5	9	730	<20	0.31
P377376		3.41	10	1.09	400	<1	2.76	1	1520	<2	0.01	<5	8	666	<20	0.28
P377377		3.60	10	1.10	445	1	2.62	1	1680	2	<0.01	<5	8	658	<20	0.28
P377378		3.43	10	1.20	824	3	3.52	<1	1560	3	0.01	<5	9	761	<20	0.29
P377379		3.49	10	1.13	775	3	3.36	<1	1410	<2	0.01	<5	8	753	<20	0.28
P377380		2.25	10	1.02	1320	32	2.45	9	920	68	1.61	6	14	445	<20	0.32
P377381		3.66	10	1.16	724	3	3.44	<1	1510	<2	0.01	<5	8	767	<20	0.28
P377382		3.71	10	1.20	674	8	3.21	2	1560	<2	0.01	<5	9	687	<20	0.28
P377383		3.63	10	1.18	721	1	3.42	<1	1590	<2	0.02	<5	9	729	<20	0.29
P377384		3.51	10	1.37	706	11	3.25	1	1440	<2	0.01	<5	9	653	<20	0.29
P377385		4.42	10	0.82	693	6	2.85	1	1460	3	0.02	<5	8	573	<20	0.26

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285464

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
P377348		<10	<10	142	<10	20
P377349		<10	<10	135	<10	15
P377350		<10	<10	3	<10	14
P377351		<10	<10	132	<10	16
P377352		<10	<10	145	<10	18
P377353		<10	<10	142	<10	16
P377354		<10	<10	154	<10	18
P377355		<10	<10	171	<10	23
P377356		<10	<10	132	<10	27
P377357		<10	<10	170	<10	37
P377358		<10	<10	208	<10	36
P377359		<10	<10	170	<10	31
P377360		<10	<10	173	<10	187
P377361		<10	<10	170	<10	20
P377361_PD		<10	<10	179	<10	19
P377362		<10	<10	148	<10	20
P377362_CD		<10	<10	155	<10	21
P377363		<10	<10	163	<10	21
P377364		<10	<10	190	<10	25
P377365		<10	<10	140	<10	23
P377366		<10	<10	166	<10	22
P377367		<10	<10	163	<10	19
P377368		<10	<10	226	<10	23
P377369		<10	<10	230	<10	27
P377370		<10	<10	2	<10	15
P377371		<10	<10	214	<10	20
P377372		<10	<10	235	<10	23
P377373		<10	<10	224	<10	22
P377374		<10	<10	222	<10	23
P377375		<10	<10	244	<10	31
P377376		<10	<10	218	<10	33
P377377		<10	<10	224	<10	32
P377378		<10	<10	227	<10	60
P377379		<10	<10	219	<10	52
P377380		<10	<10	168	<10	368
P377381		<10	<10	219	<10	45
P377382		<10	<10	220	<10	39
P377383		<10	<10	233	<10	46
P377384		<10	<10	220	<10	40
P377385		<10	<10	202	<10	37

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285464

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP61 Ag ppm 0.5	ME- ICP61 Al % 0.01	ME- ICP61 As ppm 5	ME- ICP61 Ba ppm 10	ME- ICP61 Be ppm 0.5	ME- ICP61 Bi ppm 2	ME- ICP61 Ca % 0.01	ME- ICP61 Cd ppm 0.5	ME- ICP61 Co ppm 1	ME- ICP61 Cr ppm 1	ME- ICP61 Cu ppm 1	ME- ICP61 Fe % 0.01	ME- ICP61 Ga ppm 10
P377386		5.16	0.038	<0.5	8.77	6	1630	1.0	2	3.50	<0.5	10	5	83	4.09	20
P377386_PD		<0.02	0.005	<0.5	8.50	5	1580	1.0	<2	3.60	<0.5	10	5	88	3.99	20
P377387		5.06	0.034	<0.5	8.88	5	1680	1.0	<2	3.49	<0.5	9	3	254	4.07	20
P377387_CD		<0.02	0.051	<0.5	9.01	8	1710	1.0	<2	3.63	<0.5	10	3	253	4.02	20
P377388		4.90	0.059	<0.5	9.06	<5	1780	1.0	<2	3.62	<0.5	10	4	158	4.20	20
P377389		4.74	0.040	<0.5	8.39	<5	1810	0.9	<2	3.96	<0.5	8	3	235	3.55	20
P377390		3.08	<0.001	<0.5	0.08	<5	20	<0.5	6	20.2	<0.5	<1	<1	1	0.49	<10
P377391		4.70	0.027	<0.5	8.93	6	1570	1.1	2	3.96	<0.5	9	3	70	3.77	20
P377392		4.74	0.016	<0.5	9.54	<5	1690	1.2	<2	4.03	<0.5	11	4	153	4.31	20
P377393		4.94	0.008	<0.5	8.39	7	1640	1.1	2	3.49	<0.5	8	3	61	3.60	20
P377394		5.08	0.003	<0.5	9.00	7	1640	1.1	<2	3.72	<0.5	9	3	54	3.79	20
P377395		4.68	0.003	<0.5	8.77	7	1560	1.0	<2	3.79	<0.5	9	3	64	3.86	20
P377396		4.94	0.005	<0.5	8.69	<5	1620	1.1	<2	3.89	<0.5	8	3	66	3.59	20
P377397		4.26	0.005	<0.5	8.61	7	1700	1.1	<2	3.43	<0.5	9	3	27	3.57	20
P377398		4.38	0.009	<0.5	9.12	<5	1580	1.0	2	3.64	<0.5	11	3	69	4.07	20
P377399		4.68	0.016	<0.5	8.40	10	1550	1.0	<2	3.90	<0.5	9	3	46	3.56	20
P377400		0.16	0.679	1.6	7.49	90	790	0.6	<2	2.87	1.0	35	11	2580	8.13	20
P377401		4.06	0.015	<0.5	8.42	7	1470	0.9	<2	3.87	<0.5	9	3	53	3.61	20
P377402		4.42	0.016	<0.5	8.66	7	1410	1.1	<2	3.42	<0.5	10	3	70	3.60	20
P377403		4.72	0.020	<0.5	8.75	7	1350	0.9	<2	4.44	<0.5	11	3	106	4.06	20
P377404		4.70	0.024	<0.5	9.22	5	1720	0.8	<2	3.73	<0.5	12	4	286	4.17	20
P377405		4.70	0.024	<0.5	8.92	8	1750	0.9	<2	3.66	<0.5	11	3	207	4.06	20
P377406		4.40	0.006	<0.5	9.17	7	1850	1.0	<2	4.00	<0.5	11	3	53	4.00	20
P377407		4.68	0.007	<0.5	8.85	7	1600	1.2	<2	3.85	<0.5	11	3	91	3.84	20
P377408		4.54	0.011	<0.5	8.56	10	1430	1.3	<2	3.66	<0.5	10	3	188	3.52	20
P377409		4.14	0.006	<0.5	8.85	7	1450	1.3	<2	4.13	<0.5	11	3	70	3.93	20
P377410		3.30	0.010	<0.5	0.08	<5	40	<0.5	<2	21.9	2.7	<1	<1	2	0.51	<10
P377411		2.54	0.009	<0.5	9.17	9	1690	1.3	<2	3.33	<0.5	8	3	39	3.17	20
P377412		4.42	0.040	<0.5	9.54	5	1800	1.3	<2	3.33	<0.5	7	4	26	3.31	20
P377413		2.38	0.010	<0.5	9.38	6	1770	1.2	<2	3.20	<0.5	7	4	34	3.17	20

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285464

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
P377386		3.65	10	1.36	716	8	3.32	1	1530	<2	0.01	<5	9	780	<20	0.29
P377386_PD		3.72	10	1.32	733	9	3.21	<1	1480	<2	0.01	<5	8	758	<20	0.29
P377387		3.62	10	1.37	681	2	3.44	<1	1480	<2	0.03	<5	9	764	<20	0.29
P377387_CD		3.85	10	1.38	694	2	3.46	<1	1360	<2	0.03	<5	9	758	<20	0.30
P377388		3.81	10	1.35	665	2	3.39	1	1540	<2	0.02	<5	9	920	<20	0.30
P377389		4.09	10	1.09	679	3	3.26	1	1270	<2	0.03	<5	7	692	<20	0.28
P377390		0.02	<10	12.45	223	<1	0.02	<1	170	<2	<0.01	<5	<1	45	<20	<0.01
P377391		3.72	10	1.38	671	1	3.55	<1	1500	<2	0.01	<5	8	585	<20	0.30
P377392		3.67	10	1.38	675	<1	3.87	1	1600	<2	0.02	<5	9	877	<20	0.32
P377393		3.51	10	1.14	585	<1	3.30	<1	1330	<2	0.01	<5	8	788	<20	0.28
P377394		3.67	10	1.19	601	<1	3.50	<1	1390	<2	0.01	<5	8	843	<20	0.29
P377395		3.47	10	1.17	644	3	3.58	1	1430	<2	0.01	<5	8	819	<20	0.30
P377396		3.41	10	1.10	683	<1	3.43	<1	1400	<2	0.01	<5	8	784	<20	0.28
P377397		3.58	10	1.22	654	<1	3.49	<1	1420	<2	<0.01	<5	8	874	<20	0.29
P377398		3.23	10	1.32	731	<1	3.88	2	1510	<2	0.01	<5	9	938	<20	0.30
P377399		3.74	<10	0.91	800	<1	3.45	<1	1420	<2	0.01	<5	8	836	<20	0.28
P377400		2.05	10	1.16	1445	11	2.17	9	900	36	1.93	12	17	388	<20	0.32
P377401		3.53	10	0.90	777	<1	3.51	1	1460	<2	0.01	<5	8	856	<20	0.28
P377402		3.11	10	1.15	731	<1	4.06	1	1480	3	0.01	<5	8	821	<20	0.28
P377403		3.35	10	0.96	1015	<1	3.69	1	1520	3	0.02	<5	8	897	<20	0.29
P377404		3.73	10	1.24	749	1	3.57	2	1560	5	0.04	<5	9	885	<20	0.28
P377405		3.86	10	1.24	581	8	3.54	<1	1660	5	0.02	<5	8	902	<20	0.28
P377406		3.73	10	1.28	648	1	3.49	1	1640	4	0.01	<5	9	818	<20	0.29
P377407		3.41	10	1.21	583	3	3.55	3	1430	4	0.01	<5	8	870	<20	0.28
P377408		3.38	10	1.13	541	3	3.76	1	1400	10	0.04	<5	8	834	<20	0.28
P377409		3.43	10	1.10	581	2	3.75	2	1340	10	0.01	<5	8	645	<20	0.27
P377410		0.03	<10	13.45	217	<1	0.01	<1	200	<2	<0.01	<5	<1	54	<20	<0.01
P377411		3.91	10	0.97	655	<1	3.90	2	1050	6	0.02	<5	6	594	<20	0.22
P377412		4.39	10	0.85	594	1	4.05	2	1110	4	0.01	<5	6	949	<20	0.23
P377413		4.13	10	0.83	643	1	4.06	3	1050	7	0.01	<5	5	949	<20	0.22

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLD FIELDS HORSEFLY EXPLORATION INC.
1155 ROBSON STREET, SUITE 706
VANCOUVER BC V6E 1B5

Finalized Date: 12- DEC- 2012
Account: GOFICA

Project: Red Gold

CERTIFICATE OF ANALYSIS VA12285464

Sample Description	Method Analyte Units LOR	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
P377386		<10	<10	219	<10	32
P377386_PD		<10	<10	225	<10	33
P377387		<10	<10	222	<10	29
P377387_CD		<10	<10	233	<10	29
P377388		<10	<10	230	<10	25
P377389		<10	<10	208	<10	27
P377390		<10	<10	3	<10	15
P377391		<10	<10	229	<10	26
P377392		<10	<10	246	<10	27
P377393		<10	<10	208	<10	22
P377394		10	<10	217	<10	23
P377395		<10	<10	222	<10	30
P377396		<10	<10	218	<10	27
P377397		<10	<10	222	<10	31
P377398		<10	<10	238	<10	33
P377399		<10	<10	217	<10	27
P377400		<10	<10	168	<10	183
P377401		<10	<10	215	<10	25
P377402		<10	<10	208	<10	27
P377403		<10	<10	226	<10	40
P377404		<10	<10	226	<10	34
P377405		<10	<10	228	<10	25
P377406		<10	<10	226	<10	29
P377407		<10	<10	210	<10	27
P377408		<10	<10	186	<10	27
P377409		<10	<10	203	<10	28
P377410		<10	<10	3	<10	16
P377411		<10	<10	142	<10	38
P377412		<10	<10	151	<10	36
P377413		<10	<10	141	<10	44