

MAGNA GOLD CORP.

NI 43-101 F1 TECHNICAL REPORT FOR THE SAN FRANCISCO GOLD PROJECT SONORA, MEXICO

Report Date: June 1, 2020 Effective Date: June 1, 2020

Prepared by:

William J. Lewis, P.Geo. Richard M. Gowans, P.Eng. Rodrigo Calles-Montijo, CPG



Table of Contents

1.0	SUMMARY	1
1.1	GENERAL	1
1.2	PROPERTY DESCRIPTION AND LOCATION	2
1	.2.1 Alio Ownership of the San Francisco Project	2
1	.2.2 Magna San Francisco Project Acquisition Details	
1.3	ACCESSIBILITY, CLIMATE, PHYSIOGRAPHY, LOCAL	
	RESOURCES AND INFRASTRUCTURE	4
1.4	HISTORY	
1.5	GEOLOGICAL SETTING AND MINERALIZATION	5
1.6	EXPLORATION PROGRAMS	5
1	.6.1 Alio Exploration Programs	5
1	.6.2 Magna Exploration Programs	6
1.7	ALIO HISTORICAL MINERAL RESOURCE AND RESERVE	
	ESTIMATES	6
1.8	ALIO OPERATIONAL DATA FOR THE SAN FRANCISCO	
	PROJECT	
	.8.1 Production to 2010 to 2019	
	.8.2 Mine Plans and Activities	
1.9		
1.10	CONCLUSIONS AND RECOMMENDATIONS	12
2.0	INTRODUCTION	14
2.1	INFORMATION REGARDING ALIO AND THE SAN FRANCISCO	,,,,,,,,,,,,, <u>1</u> -1
2.1	PROPERTY FROM PREVIOUS MICON REPORTS ALONG WITH	
	UPDATED INFORMATION	14
2.2	OTHER INFORMATION	
3.0	RELIANCE ON OTHER EXPERTS	19
4.0	PROPERTY DESCRIPTION AND LOCATION	
4.1	GENERAL	
4.2	OWNERSHIP	
	.2.1 Alio Ownership Information	
	.2.2 Magna Ownership Information	
4.3		
4.4	PERMITTING AND ENVIRONMENTAL	28
5.0	ACCESSIBILITY, CLIMATE, LOCAL RESOURCES,	
3.0	INFRASTRUCTURE AND PHYSIOGRAPHY	29
5.1	ACCESSIBILITY	
5.2	LOCAL RESOURCES AND INFRASTRUCTURE	
5.3	CLIMATE AND PHYSIOGRAPHY	
٠.٥		
6.0	HISTORY	32



		Page
6.1	SAN FRANCISCO PROPERTY AND GOLD MINE	32
6.1.1		
6.1.2		
6.2	HISTORICAL RESOURCE AND RESERVE ESTIMATES	
6.2.1		
6.2.2	2 2018 Historical Mineral Resource and Reserve Estimates	37
6.3	PRODUCTION FROM THE SAN FRANCISCO PROJECT	
6.3.1	Historical Production	40
7.0 G	EOLOGICAL SETTING AND MINERALIZATION	41
7.1	REGIONAL GEOLOGY	41
7.2	PROPERTY GEOLOGY	42
7.2.1	Geology of the La Chicharra Pit	45
7.3	MINERALIZATION	46
7.4	OTHER PROJECTS WITHIN THE SAN FRANCISCO PROPERTY	48
7.4.1	El Durazno Project	48
7.4.2	2 Vetatierra Project	50
8.0 D	EPOSIT TYPES	51
8.1	SAN FRANCISCO MINERAL DEPOSIT	51
9.0 E	XPLORATION	52
9.1	SUMMARY OF PRIOR EXPLORATION BY ALIO	52
9.2	2013 TO 2015 EXPLORATION PROGRAMS (SAN FRANCISCO	
	AND LA CHICHARRA DEPOSITS)	54
9.3	EL DURAZNO, VETATIERRA, 1B AREA AND LA PIMA	
	PROJECTS	
9.3.1		
9.3.2	\mathbf{J}	
9.3.3	3	
9.3.4	5	
9.4	MICON COMMENTS	61
	RILLING	
10.1	DRILL TYPES AT THE SAN FRANCISCO PROJECT	
10.1	, , ,	
10.1	\	
10.1	$oldsymbol{c}$	
10.2	GENERAL INFORMATION	
10.3	DRILLING PRIOR TO 2014	
10.3	r	69
10.4	EXPLORATION AND IN-FILL DRILLING 2014 TO 2015 AT THE	02
10.4	SAN FRANCISCO MINE	
10.4 10.4	\mathcal{E}	
10.4	.2 2014 In-fill RC Drilling on Phase 4 from Bench 650	0/



		Page
10	.4.3 Exploration and In-fill Drilling along the South Wall of the San	2.2
4.0	Francisco Pit, Phase 5	
	.4.4 2015, In-fill RC Drilling Below Phase 4 of the San Francisco Pit	97
10.5		0.0
10	FRANCISCO PROPERTY	
_	.5.1 RAB Drilling North of the San Francisco Mine	
	.5.2 La Mexicana – Vetatierra RAB Drilling	
	.5.3 1B Area RC and Core Drilling in 2014	
_	.5.4 Vetatierra AreaIN-FILL DRILLING JULY, 2016 TO MARCH, 2017 AT THE SAN	109
10.6	FRANCISCO PROJECT	111
10.7	2017 IN-FILL DRILLING PROGRAM FOR THE SAN FRANCISCO	114
10.7		124
10.0	MINE	124
10.8		125
10.0	MINE MICON COMMENTS	
10.9	MICON COMMENTS	141
11 0	SAMPLE PREPARATION, ANALYSES AND SECURITY	142
11.1	ALIO SAMPLE PREPARATION, ANALYSIS AND SECURITY	
11.1	PROGRAMS	142
11.2	REVERSE CIRCULATION DRILLING	
11.2		
11.3	SAMPLE COLLECTION AND TRANSPORTATION	
	.4.1 Reverse Circulation Drilling	
	.4.1 Reverse Circulation Diffing	
	.4.2 RAB Diffiling	
	.4.4 General Quality Control/Quality Assurance (QA/QC) Procedures	
	.4.4 General Quanty Control/Quanty Assurance (QA/QC) Procedures	
	QA/QC PROGRAM RESULTS	
	.5.1 July, 2010 to June, 2011 QA/QC Program Results	
	July, 2011 to June 2013 QA/QC Program Results	101
11.6	RESULTS OF THE JANUARY, 2014 TO DECEMBER, 2015 QA/QC	165
11	PROGRAM	
	.6.1 Screen Metallic Assaying	103
11.7	RESULTS OF THE AUGUST, 2016 TO MARCH, 2017 QA/QC	1.60
11	PROGRAM	
	.7.1 Standard Reference Material Samples	
	.7.2 Duplicates	
	.7.3 Blank Samples	170
11.8		
	.8.1 August to December, 2017 Drilling Program QA/QC	
	.8.2 2018 Drilling Program QA/QC	
11.9	MICON COMMENTS	182
12.0	DATA VERIFICATION	102
12.0	NOTES FROM PREVIOUS ALIO SITE VISITS	
14.1	MOTES TROWLINE VIOUS ALIO SHE VISHS	103



HILIMAN		Page
12.2	2017 ALIO SITE VISIT	183
12.3	2020 SITE VISIT	184
12.4	GENERAL MICON COMMENTS	
13.0 M	INERAL PROCESSING AND METALLURGICAL TESTING	189
13.1	ALIO WORK	189
13.2	TESTWORK BY METCON, 2012	
13.2	.1 Discussion of the 2012 Test Results	189
13.2		191
13.3	INTERNAL TESTWORK	
13.3		
13.4	MICON COMMENTS/CONCLUSIONS	194
14.0 M	INERAL RESOURCE ESTIMATES	195
15.0 M	INERAL RESERVE ESTIMATES	196
16.0 M	INING METHODS	197
16.1	ALIO PRODUCTION	197
16.2	OPEN PIT MINE DESIGN	210
16.2	.1 Geotechnical Studies and Slope Design Criteria	210
16.2	.2 2016 Southwall Stability	211
16.2	.3 Hydrological Considerations	211
16.2	.4 Phased Pit Designs	212
16.2	$\boldsymbol{\mathcal{C}}$	
16.2	.6 Mine Operations	214
17.0 R	ECOVERY METHODS	223
	PROCESSING DESCRIPTION	
17.1	.1 Crushing and Conveying	223
17.1	.2 Leaching	223
17.1		
17.1	.4 Process Plant Layout	226
17.1	1	
17.1	.6 Consumables and Maintenance	232
18.0 P	ROJECT INFRASTRUCTURE	233
18.1	ADMINISTRATION, ENGINEERING AND EXISTING	
	INFRASTRUCTURE	233
18.1	.1 Manpower Organization	233
18.1	, 1	
18.1	.3 Electrical Power Supply	237
18.1	.4 Water Supply	237
19.0 M	ARKET STUDIES AND CONTRACTS	239
19.1	MARKET AND MARKET STUDIES	



		Page
19.2 MI	INING CONTRACTS	240
19.2.1	Contractor Requirements	240
19.2.2	Owner Mining Requirements	241
19.2.3	Alio Dispute with the Mining Contractor	
19.2.4	Magna Discussions with the Mining Contractor	
	EFINING AND SALES CONTRACTS	
19.3.1	Refining Agreement	
19.3.2	Master Purchase Contract and Bill of Sale and Trading Agreement	
19.3.3	Blasting Services	243
20.0 ENV	IRONMENTAL STUDIES, PERMITTING AND SOCIAL OR	
COM	IMUNITY IMPACT	
20.1 DE	ETAILS FROM THE MAY 25, 2017 TECHNICAL REPORT	
20.1.1	Environmental Considerations	244
20.1.2	Community and Social Considerations	245
21.0 CAP	ITAL AND OPERATING COSTS	248
22.0 ECO	NOMIC ANALYSIS	249
23.0 ADJ	ACENT PROPERTIES	250
24.0 OTH	ER RELEVANT DATA AND INFORMATION	251
25.0 INTI	ERPRETATION AND CONCLUSIONS	252
26.0 REC	OMMENDATIONS	253
27.0 DAT	E AND SIGNATURE PAGE	255
28.0 REF	ERENCES	256
28.1 TE	CHNICAL REPORTS, PAPERS AND OTHER SOURCES TERNET SOURCES	256
29.0 CER	TIFICATES OF AUTHORS	263
	List of Appendices	
APPENDIX	I GLOSSARY OF TERMS	
APPENDIX		CISCO





List of Tables

Table 1.1	San Francisco Project, Annual Production from April, 2010 to the End of December, 2019 (by Quarter)	10
Table 1.2	Summary of the Leach Pad Phases Based Upon the Permits Acquired for the San Francisco Mine	11
Table 1.3	Budget for Review and Studies for the San Francisco Project	13
Table 2.1	List of Abbreviations	17
Table 4.1	San Francisco Project, Summary of Mineral Concessions	22
Table 4.2	San Francisco Project, Summary of the Regional Mineral Concessions	26
Table 6.1	San Franciso Project – Historical Reserves and Resources as of July 1, 2018	39
Table 6.2	San Francisco Project, Geomaque Annual Production 1996 to 2002	40
Table 9.1	Summary of the Exploration Expenditures for the Period July, 2013 to December, 2015	55
Table 10.1	Summary of the Location and Significant Assays for the RC Drilling on Phase 3 from Bench 530 to 536	85
Table 10.2	Summary of the Location and Significant Assays for the RC Drilling on Phase 4 from Bench 650	8
Table 10.3	Summary of the Location and Significant Assays for the RC Drilling on Phase 5 between Sections 880W to 1160W	91
Table 10.4	Summary of the Location and Significant Assays for the Core Drilling on Phase 5 between Sections 880W to 1160W	95
Table 10.5	Summary of the Location and Significant Assays for the RC Drilling Below Phase 4 of the San Francisco Pit	97
Table 10.6	Summary of the Location, Type, Metres Drilled and Number of Drill Holes for the Programs North of the San Francisco Pit	99
Table 10.7	Summary of the Most Significant RAB Drill Intersections along Section 3500W	101
Table 10.8	Summary of the Most Significant RAB Drill Intersections along Section 4100W	101
Table 10.9	Summary of the Significant RAB Drill Intersections along Section 4700W	101
Table 10.10	Summary of the Significant RAB Drilling Results for the Area Between the La Mexicana and La Vetatierra Projects	102
Table 10.11	Summary of Significant 2014 RC Drilling Intersections in the 1B Area	103



		Page
Table 10.12	Summary of the Significant Assay Results for the Three Core Holes Drilled in the 1B Area	107
Table 10.13	Summary of the Significant 2014 Core Intersections at the Vetatierra Program	110
Table 10.14	Summary of the Significant 2014 RC Intersections at the Vetatierra Program	112
Table 10.15	Summary of the Location and Significant Assays for the RC Drilling between July, 2016 and March, 2017	115
Table 10.16	Significant Assay Intercepts, August to December, 2017 Reverse Circulation Drill Program	125
Table 10.17	Summary of the 2018 Monthly RC In-fill Drilling	136
Table 10.18	Significant Assay Intercepts, May to July, 2018 Reverse Circulation Drill Program	137
Table 11.1	Standard Reference Material Samples used During the Drilling Programs	150
Table 11.2	ALS Method Code and Description for Alio Sample Preparation	156
Table 11.3	ALS Method Code and Description for Alio Sample Preparation	156
Table 11.4	Summary of the Au-AA23 and Au-AA24 Fire Assay Fusion, AAS Finish Assay Details	157
Table 11.5	Summary of the ALS Ag-GRA21, Ag-GRA22, Au-GRA21 and Au GRA22 Precious Metals Gravimetric Analysis Methods	157
Table 11.6	Comparison of the Original Assays with the ALS-Chemex Check Assays, 2010 to 2011 Drilling Program	158
Table 11.7	Summary of Inspectorate Assaying versus the Standard Reference Material	159
Table 11.8	San Francisco Gold Project, Summary of Blank Assay Data for the 2010 to 2011 Drill Program	159
Table 11.9	Summary of Results for the Duplicate Samples, July, 2010 to June, 2011 Drill Program	160
Table 11.10	Comparison of the Original Assays with the ALS-Chemex, Inspectorate and SGS Check Assays, 2011 to 2013 Drill Program	162
Table 11.11	Summary of SRM's Used to Check Inspectorate, ALS and Skyline Assaying	163
Table 11.12	San Francisco Gold Project, Summary of Blank Assay Data for the 2011 to 2013 Drill Program	164
Table 11.13	Summary of Results for the Duplicate Samples, July, 2011 to June, 2013 Drill Program	165



		Page
Table 11.14	Summary and Graph Showing the Gold Variation in the Five Pairs of Samples Rejects vs Field Duplicates	167
Table 11.15	Summary of Standard Material Reference Samples Used at Check Inspectorate and ALS Minerals	169
Table 11.16	Summary of the Analysis Information for Standard Reference Sample OxC145	179
Table 11.17	Summary of the Analysis Information for Standard Reference Sample OxD144	179
Table 11.18	Summary of the Analysis Information for Standard Reference Sample OxG124	180
Table 13.1	Summary of Column Leach Test Results, Crush Size P ₈₀ 9.5 mm, 127 Days Leach Time	190
Table 13.2	Summary of Column Leach Test Results, Crush Size P ₈₀ 6.3 mm, 127 Days Leach Time	190
Table 13.3	Correlation Coefficient, Daily Pregnant Solution vs. Duplicates	191
Table 13.4	Summary of the 2015 Internal Metallurgical Testwork	192
Table 13.5	Summary of the 2017 Internal Metallurgical Testwork	193
Table 16.1	San Francisco Project, Annual Production from April, 2010 to the End of December, 2019 (by Quarter)	198
Table 16.2	San Francisco Project, Annual Ore Stockpiled and Processed from April, 2010 to the End of December, 2019 (by Quarter)	199
Table 16.3	Contractor's Mining Equipment List when the Open Pits were in Operation to the End of 2018	215
Table 17.1	Summary of the Leach Pad Phases Based Upon the Permits Acquired for the San Francisco Mine	225
Table 17.2	Manpower at the San Francisco Mine Process Plant and Associated Facilities	232
Table 17.3	San Francisco Process Reagents (Consumables) Usage Rates and Costs	232
Table 18.1	Total Manpower for the San Francisco Mine	234
Table 18.2	Summary of the Installed Transformer Capacity	237
Table 19.1	Average Annual High and Low London PM Fix for Gold and Silver from 2000 to March 20, 2020	239
Table 19.2	Contract Mining Rates	240
Table 26.1	Budget for Review and Studies for the San Francisco Project	253



Page

List of Figures

Figure 4.1	San Francisco Project Location Map	20
Figure 4.2	San Francisco Property (Concessions) Map	23
Figure 4.3	San Francisco Project Regional Mineral Concessions Map	27
Figure 5.1	San Francisco Mine as Viewed from Highway 15 Driving South from Santa Ana	29
Figure 5.2	View of a Water Well Located on the San Francisco Project	30
Figure 5.3	View of the Sonora Desert Surrounding the Property	31
Figure 6.1	Location of One of the Rotary Drill Sites Located to Southeast of the Main Pit	33
Figure 6.2	View of the San Francisco Gold Mine with Estación Llano in the Background	34
Figure 6.3	Extraction of Gravel from the Original Leach Pads for Construction Use	35
Figure 7.1	Geology of the San Francisco Property	43
Figure 7.2	San Francisco and La Chicharra Minesite Geology Map	44
Figure 7.3	La Chicharra Pit Looking Southwest showing the Lineament	47
Figure 9.1	Map indicating the El Durazno Geology, and Some Grab and Trench Sampling Locations	58
Figure 9.2	Geology and Sampling Locations at the Vetatierra Project	60
Figure 9.3	Geological Map of the La Pima Project Showing the Locations of the Exploration Targets	62
Figure 9.4	Geological Map of the La Pima Mine Exploration Target and the Location of the Longitudinal Section	63
Figure 9.5	Longitudinal Section Across the La Pima Mine Exploration Target Showing the Artisanal Workings in the Mineralized Zone	64
Figure 10.1	RC Drilling in the San Francisco Pit in July, 2011	66
Figure 10.2	Diamond Drill Rig Set-Up on a Drill Hole Southeast of the San Francisco Pit	67
Figure 10.3	Location Marker for Drill Hole TF-1522	68
Figure 10.4	Cross- Section 580W on the San Francisco Pit	73
Figure 10.5	Cross-Section 800W on the San Francisco Pit	74
Figure 10.6	July, 2010 to June, 2011 Drill Hole Location Map Around the San Francisco and La Chicharra Pits, including Condemnation Drilling	75



		Page
Figure 10.7	July, 2011 to June, 2013 Drill Holes Location Map on the San Francisco Pit	76
Figure 10.8	Cross-Section 220W on the San Francisco Pit	77
Figure 10.9	Cross-Section 480W on the San Francisco Pit	78
Figure 10.10	Location Drill Map in the La Chicharra Area	80
Figure 10.11	Section 2540W in the La Chicharra Pit	81
Figure 10.12	Section 2780W on the La Chicharra Pit	82
Figure 10.13	Plan View of the Various 2014 In-fill Drilling Programs within the San Francisco Pit	84
Figure 10.14	Location Plan of the 2014 Condemnation Drilling Program	85
Figure 10.15	Plan View of the November, 2014 Core Drilling Program on the South Wall of the San Francisco Pit	95
Figure 10.16	Plan View of the RAB Drilling along Section Lines 3500W, 4100W and 4700W	100
Figure 10.17	Plan View of the RAB, RC and Core Drilling Conducted in the 1B Area	108
Figure 10.18	Plan View of Geology and the 2014 RC and Core Drilling at the Vetatierra Project	114
Figure 10.19	Location of the July, 2016 to March, 2017 In-Fill Drilling Program in the Area of the San Francisco Pit	122
Figure 10.20	Location of the July, 2016 to March, 2017 In-Fill Drilling Program in the Area of the La Chicharra Pit	123
Figure 10.21	RC Drill Program at the San Francisco Pit as of December, 2017, East-Southeast View	135
Figure 10.22	Plan View of the 2018 Drilling Program at the San Francisco Project	136
Figure 11.1	Specimen Trays for Drill Hole TF-1566	143
Figure 11.2	Reverse Circulation Sample Collection	145
Figure 11.3	Fragment of Basalt used for Blank Sample	149
Figure 11.4	Blank Sample Bag ready to be Inserted into the Sample Sequence	149
Figure 11.5	Oven for Drying Samples in the Preparation Facilities	153
Figure 11.6	Combo Boyd/RSD Boyd Crusher with Single Split	153
Figure 11.7	Drill Hole VT14-005 Showing a Location with Visible Gold in the Core	166
Figure 11.8	Summary and Graph Showing the Assays Results for the Five Samples	166



		Page
Figure 11.9	Summary and Graph Showing the Gold Variation in the Samples Screen Metallics vs Fire Assays	168
Figure 11.10	Precision Plot – Gold in Reference Standard CDN-GS-2M for the San Francisco Pit In-Fill Drilling	169
Figure 11.11	Precision Plot – Gold in Reference Standard OXH-97 for the San Francisco Pit In-Fill Drilling	170
Figure 11.12	Precision Plot – Gold in Reference Standard CDN-GS-P7H for the San Francisco Pit In-Fill Drilling	170
Figure 11.13	Precision Plot – Gold in Reference Standard OXC-109 for the San Francisco Pit In-Fill Drilling	171
Figure 11.14	Precision Plot – Gold in Reference Standard OXE-101 for the San Francisco Pit In-Fill Drilling	171
Figure 11.15	Precision Plot – Gold in Reference Standard OXF-105 for the San Francisco Pit In-Fill Drilling	172
Figure 11.16	Precision Plot – Gold in Reference Standard OXJ-95 for the San Francisco Pit In-Fill Drilling	172
Figure 11.17	Precision Plot – Gold in Reference Standard OXC-109 for the N and NW La Chicharra Drilling	173
Figure 11.18	Precision Plot – Gold in Reference Standard CDN-GS-7PH for the N and NW La Chicharra Drilling	
Figure 11.19	Results for the Duplicate Samples Plotted as a Relative Error Diagram for the San Francisco Pit, August, 2016 to March, 2017 Drill Program	
Figure 11.20	Results for the Duplicate Samples Plotted as a Relative Error Diagram for the North and Northwest La Chicharra Pits, August, 2016 to March, 2017 Drill Program	175
Figure 11.21	Plot of Blank Assay Data from the Bureau Veritas Laboratory for the 2016 to 2017 Drill Program at San Francisco Pit	176
Figure 11.22	Plot of Blank Assay Data from the ALS Minerals Laboratory for the 2016 to 2017 Drill Program at San Francisco Pit	176
Figure 11.23	Plot of Blank Assay Data from the Bureau Veritas Laboratory for the 2016 to 2017 Drill Program at N & NW Chicharra Pit	177
Figure 11.24	Plot of Blank Assay Data from the ALS Minerals Laboratory for the 2016 to 2017 Drill Program at N & NW Chicharra Pit	177
Figure 11.25	Plot for the Analysis Information for Standard Reference Sample OxC145	179
Figure 11.26	Plot for the Analysis Information for Standard Reference Sample OxD144	



		Page
Figure 11.27	Plot for the Analysis Information for Standard Reference Sample OxG124	181
Figure 11.28	Plot of the Duplicate Sample Analysis for the 2018 Drilling Program	182
Figure 12.1	View of the San Francisco Pit Looking East	185
Figure 12.2	View of the La Chichara Pit Looking West-Northwest	185
Figure 12.3	View Looking Southeast Towards the San Francisco Pit	186
Figure 12.4	View Looking Southwest Towards the La Chicharra Waste Pile and Pit in the Distance	186
Figure 12.5	View of the ADR Plant 2	187
Figure 12.6	Partial View of the Crushing Facility	187
Figure 13.1	Historical Cumulative Plant Gold Recoveries	194
Figure 16.1	View of the San Francisco Pit in July, 2011	200
Figure 16.2	View of the San Francisco Pit in August, 2013	200
Figure 16.3	View of the San Francisco Pit in February, 2016 (Looking East-Northeast)	201
Figure 16.4	View of the San Francisco Pit in May, 2017 (Looking East-Northeast)	201
Figure 16.5	View of the La Chicharra Pit in February, 2016 (Looking to the East)	202
Figure 16.6	View of the La Chicharra Pit in May, 2017 (Looking to the West Northwest)	202
Figure 16.7	Plan View of the San Francisco Pit Showing the Location of the Longitudinal and Cross-Sections Demonstrating the Growth of the Pit Since 2009	203
Figure 16.8	Longitudinal Section (3357580 North) Demonstrating the Growth of the San Francisco Pit Since 2009	204
Figure 16.9	Cross-Section (488700 East) Demonstrating the Growth of the San Francisco Pit Since 2009	205
Figure 16.10	Plan View of the La Chicharra Pit Showing the Location of the Longitudinal and Cross-Sections Demonstrating the Growth of the Pit Since 2009	206
Figure 16.11	Longitudinal Section (3357950 North) Demonstrating the Growth of the La Chicharra Pit Since 2009	207
Figure 16.12	Cross-Section (488700 East) Demonstrating the Growth of the La Chicharra Pit Since 2009	208
Figure 16.13	View of the San Francisco Pit as of February, 2020 (Looking East)	209
Figure 16.14	View of the Southwall of the San Francisco Pit Showing Phase 7 as of February, 2020 (Looking East)	209



		Page
Figure 16.15	Piezometer (PFP-01A) Installed to Monitor Water Flow Surrounding the Pit	212
Figure 16.16	San Francisco and La Chicharra Final Pit Designs, Dumps and Low Grade Stockpile Layout	213
Figure 16.17	Leach Pads with ROM Material Being Placed on the Pads	217
Figure 16.18	Site of the Low-grade Stockpile (In the Foreground) and the Remaining Material on it as of March 2020	221
Figure 17.1	Heap Leach Pads as Viewed from the Road to the La Chicharra Pit with Phase 6 Under Construction in the Foreground	225
Figure 17.2	View of the Second ADR Plant	226
Figure 17.3	Fine Crushing Circuit Actual Flowsheet (at 80% passing 9.5 mm)	227
Figure 17.4	New Crushing Circuit Actual Diagram (80% passing 9.5 mm)	228
Figure 17.5	Plan View of the Current Crushing Facilities ¹	229
Figure 17.6	View of the Crushing Facilities and Heap Leach Pads as Seen from the Lookout at the San Francisco Pit (Zoom Lens)	229
Figure 17.7	Heap Leach Circuit Showing the Solution Balance	230
Figure 17.8	Overall Gold Recovery Circuit (ADR) Flowsheet	230
Figure 17.9	Crushing Circuit 1 Proposed Upgrade - Flowsheet (100% passing 9.5 mm)	231
Figure 17.10	Crushing Circuit 2 Proposed Redesign – Flowsheet (100% passing 9.5 mm)	231
Figure 18.1	2016 General Site Layout	233
Figure 18.2	Exploration Sample Storage and Preparation Facility	235
Figure 18.3	Core Stored in the Exploration Sample Storage and Preparation Facility	236
Figure 18.4	Pulp Samples Stored in the Exploration Sample Storage and Preparation Facility	236
Figure 18.5	Fresh Water Distribution Network at the San Francisco Mine	238



1.0 SUMMARY

1.1 GENERAL

Magna Gold Corp. (TSXV: MGR, OTCQB: MGLQF) (MGR or Magna) has retained Micon International Limited (Micon) to prepare an independent Technical Report for the San Francisco Gold Project (San Francisco Project or the Project) in the state of Sonora, Mexico. The purpose of this Technical Report is to support disclosure for Magna Gold Corp.'s acquisition of 100% of Alio Gold Inc's. (Alio) indirect wholly-owned subsidiary Molimentales del Noroeste, S.A. de C.V., (Molimentales) which owns a 100% interest in the San Francisco Mine and the surrounding mineral concessions from Timmins GoldCorp Mexico S.A. de C.V. (Timmins), a wholly-owned subsidiary of Alio.

Micon's most recent Technical Report for the Project was entitled "NI 43-101 F1 Technical Report, Updated Resources and Reserves and Mine Plan for the San Francisco Gold Mine, Sonora, Mexico", dated May 25, 2017. That Technical Report was filed by Alio on the System for Electronic Document Analysis and Retrieval (SEDAR, www.sedar.com). Micon has written 10 prior reports on the San Francisco Project for Alio since 2005.

Micon does not have nor has it previously had any material interest in Magna, Alio or related entities. The relationship with Magna, Alio or related entities is and has been solely a professional association between the client and the independent consultant. This report is prepared in return for fees based upon agreed commercial rates and the payment of these fees is in no way contingent on the results of this report.

This report includes technical information which requires subsequent calculations or estimates to derive sub-totals, totals and weighted averages. Such calculations or estimations inherently involve a degree of rounding and consequently introduce a margin of error. Where these occur, Micon does not consider them to be material.

This report is intended to be used by Magna subject to the terms and conditions of its agreement with Micon. That agreement permits Magna to file this report as a Technical Report with the Canadian Securities Administrators pursuant to provincial securities legislation or with the SEC in the United States. Except for the purposes legislated under provincial securities laws, any other use of this report, by any third party, is at that party's sole risk.

The conclusions and recommendations in this report reflect the authors' best independent judgment in light of the information available to them at the time of writing. The authors and Micon reserve the right, but will not be obliged, to revise this report and conclusions if additional information becomes known to them subsequent to the date of this report. Use of this report acknowledges acceptance of the foregoing conditions.



1.2 PROPERTY DESCRIPTION AND LOCATION

The San Francisco property is situated in the north central portion of the state of Sonora, Mexico, approximately 150 kilometres (km) north of the state capital, Hermosillo. In this report, the term San Francisco Project refers to the area within the exploitation or mining concessions controlled by Alio, while the term San Francisco property (the property) refers to the entire land package (mineral exploitation and exploration concessions) under Alio's control.

The San Francisco Project is comprised of two previously mined open pits (San Francisco and La Chicharra), together with heap leach processing facilities and associated infrastructure located close to the San Francisco pit. Currently the leach pads are on a residual leach cycle with no mining being conducted.

1.2.1 Alio Ownership of the San Francisco Project

Alio advises that it holds the San Francisco Project, which consists of 13 mining concessions, through its indirect wholly-owned subsidiary Molimentales. All concessions are contiguous and each varies in size for a total property area of 33,667.72 hectares (ha). In late 2005, the original Timmins II concession was subdivided into two concessions (Timmins II Fraccion Sur and Pima), as part of separate exploration strategies for the original Timmins II concession. All concessions are subject to a bi-annual fee and the filing of reports in May of each year covering the work accomplished on the property between January and December of the preceding year. The fee rates are estimated in US dollars based on the rates published in the "Diario Oficial de la Federacion (DOF)" as of February 28, 2020.

On February 23, 2011, Alio announced that it had staked an additional 95,000 hectare (ha) of claims along the highly prospective Sonora-Mojave Megashear structural province in northern Sonora. Alio has continued to stake additional concessions since February, 2011 and the total additional regional mineral concessions amounted to approximately 152,279.6 ha in 2013. In 2015 and 2016, the regional concessions were reduced with Alio only keeping the ground that it deemed significant to future exploration.

On July 6, 2011, Molimentales acquired (through a straight purchase) a 10-ha mineral concession called La Mexicana by paying the vendor, Mr. Agustin Albelais, a buy-out price of USD 250,000. The La Mexicana mineral concession was the last area in the metamorphic package that did not belong to Alio.

Molimentales has completed the process of converting the 674 hectares contracted from the Los Chinos Ejido into private property. The 674 ha was purchased by Molimentales in 2011, and the final public instrument documenting the purchase was issued on February 9, 2015.

Since completing the purchase of the 674 ha from the Los Chinos Ejido, Molimentales has not undertaken any further land purchases and believes no further purchases are necessary at this time.



The Mexican mining laws were changed in 2005 and, as a result, all mineral concessions granted by the Dirección General de Minas (DGM) became mining concessions. There are no longer separate specifications for a mineral exploration or exploitation concession. A second change to the mining laws was that all mining concessions are granted for 50 years, provided that the concessions remain in good standing. As part of this change, all former exploration concessions which were previously granted for 6 years became eligible for the 50-year term.

Concessions are extendable, provided that the application is made within the five-year period prior to the expiry of the concession and the bi-annual fee and work requirements are in good standing. The bi-annual fee, payable to the Mexican government to hold the group of contiguous mining concessions for the San Francisco operations is USD 604,710. The bi-annual fee to hold the group of contiguous mining concessions which comprise the regional mineral property is USD 205,327.

1.2.2 Magna San Francisco Project Acquisition Details

Magna announced that is had entered into a definitive purchase agreement with Timmins, a wholly-owned subsidiary of Alio, to acquire the San Francisco Mine, on March 6, 2020 as follows:

"Summary of the Acquisition"

"Under the terms of the Definitive Agreement, Magna will acquire 100% of Alio's indirect wholly-owned subsidiary Molimentales del Noroeste, S.A. de C.V., which owns a 100% interest in the San Francisco Mine and the surrounding mineral concessions, in exchange for:"

"On Closing: The issuance of 9,740,000 common shares in the capital of the Company (Common Shares), representing approximately 19.9% of the issued and outstanding Common Shares upon closing of the Acquisition (the Consideration Shares)."

"12 Months from Closing: USD 5 million in cash or a 1% net smelter return royalty on a portion of the San Francisco Mine, at the election of Magna."

"The Consideration Shares will be subject to a lock-up agreement until the earlier of:

- (i) the date that is 12 months from the closing of the Acquisition, and;
- (ii) the date on which Timmins and its affiliates collectively hold less than 9.9% of the Common Shares on an undiluted basis. In the event that Timmins wishes to sell any or all of the Consideration Shares, Magna will have the option to arrange the purchaser of such shares until Timmins and its affiliates collectively hold less than 9.9% of the Common Shares on an undiluted basis."

"Magna expects to conclude an ongoing arbitration process with a prior mining contractor that is related to operations at the San Francisco Mine. Discussions between Magna and the contractor have been meaningfully advanced, and the Magna expects to come to a positive resolution in the near term."



"Completion of the Acquisition is subject to a number of customary conditions, including receipt of all regulatory approvals and the acceptance of the TSX Venture Exchange."

"The Acquisition is expected to close at the end of March, 2020."

1.3 ACCESSIBILITY, CLIMATE, PHYSIOGRAPHY, LOCAL RESOURCES AND INFRASTRUCTURE

The Project is located in the Arizona-Sonora desert in the northern portion of the Mexican state of Sonora, 2 km west of the town of Estación Llano (Estación), approximately 150 km north of Hermosillo and 120 km south of the United States/Mexico border city of Nogales along Highway 15 (Pan American highway). The closest accommodations are in Santa Ana, a small city located 21 km to the north on Highway 15.

The climate at the Project site ranges from semi-arid to arid. The average ambient temperature is 21°C, with minimum and maximum temperatures of -5°C and 50°C, respectively. The average annual rainfall for the area is 330 mm with an upper extreme of 880 mm. The desert vegetation surrounding the San Francisco Mine is composed of low lying scrub, thickets and various types of cacti, with the vegetation type classified as Sarrocaulus Thicket.

Physiographically, the San Francisco property is situated within the southern Basin and Range Province, characterized by elongate, northwest-trending ranges separated by wide alluvial valleys. The San Francisco Mine is located in a relatively flat area of the desert with the topography ranging between 700 and 750 m above sea level.

1.4 HISTORY

After conducting exploration on the Project between 1983 and 1992, Compania Fresnillo S.A. de C.V. (Fresnillo) sold the property in 1992 to Geomaque Explorations Ltd. (Geomaque). After conducting further exploration, Geomaque decided to bring the Project into production in 1995. Due to economic conditions, mining ceased and the operation entered into the leach-only mode in November, 2000. In May, 2002, the last gold pour was conducted; the plant was mothballed, and clean-up activities at the mine site began.

In 2003, Geomaque sought and received shareholder approval to amalgamate the corporation under a new Canadian company, Defiance Mining Corporation (Defiance). On November 24, 2003, Defiance sold its Mexican subsidiaries (Geomaque de Mexico and Mina San Francisco), which held the San Francisco gold mine, to the Astiazaran family of Sonora and their private company.

Since June, 2006, the Astiazaran family and their company Desarrollos Prodesa S.A. de C.V. have been extracting sand and gravel intermittently from both the waste dumps and the leach pads for use in highway construction as well as other construction projects.

Alio acquired an option to earn an interest in the property in early 2005, whereupon it conducted a review of the available data and started a reverse circulation drilling program in



August and September, 2005. This was followed by a second drilling program comprised of both reverse circulation and diamond drilling in 2006, based on the results of the 2005 drilling program.

1.5 GEOLOGICAL SETTING AND MINERALIZATION

The San Francisco Project is a gold occurrence with trace to small amounts of other metallic minerals. The gold occurs in granitic gneiss and the deposit contains principally free gold and occasionally electrum. The mineralogy, the possibility of associated tourmaline, the style of mineralization and fluid inclusion studies suggest that the San Francisco deposits may be of mesothermal origin.

The San Francisco deposits are roughly tabular with multiple phases of gold mineralization. The deposits strike 60° to 65° west, dip to the northeast, range in thickness from 4 to 50 m, extend over 1,500 m along strike and are open ended. Another deposit, the La Chicharra zone, was mined by Geomaque, as a separate pit.

1.6 EXPLORATION PROGRAMS

1.6.1 Alio Exploration Programs

From 2007 to 2009, concurrent with the feasibility study, which focused on re-starting the mining operations, Alio conducted exploration comprised mainly of in-fill and confirmation drilling in and around of the San Francisco and La Chicharra pits. The drilling results as of the end of 2009 indicated that the mineralization extended both along strike and down dip of the known deposit, a situation which led to the decision to accelerate the drilling in the first 6 months of 2010. The results from the 2010 drilling, when combined with the previous results, led to Alio updating the resource and reserve estimations, as well as its mine plan.

Between July, 2010 and June, 2011, Alio conducted an intensive exploration drilling program which included deeper drilling to explore the mineralization at depth, both in and around the La Chicharra and San Francisco pits. The results of this drilling indicated that the mineralization is located in parallel mineralized bodies both along strike and at depth.

From July, 2011 to June, 2013, 1,464 reverse circulation (RC) and core holes were drilled for a total of 327,853 metres (m). Most of the drilling was undertaken in and around the San Francisco pit and the La Chicharra pit. The RC drilling included 13,219 m in 62 holes of condemnation drilling and 3,842 m in 20 holes for water monitoring. A further 8 RC holes totalling 107 m were drilled on the low grade stockpile for grade control.

The drilling conducted within and around the San Francisco and La Chicharra pits comprised more than 92.8% of the drilling undertaken between July, 2011 and June, 2013. Both the RC and core drilling in these areas identified the extent of the mineralization along strike, as well as the extent down-dip, which remains open. The drilling surrounding the San Francisco and La Chicharra pits has been completed, except for defining the extent of the mineralization to the southeast of the San Francisco pit which remains open along strike and at depth. In 2013,



Alio had completed its planned exploration drilling programs. Additional in-fill drilling is necessary to confirm the extension in the up-dip direction from the newly discovered mineral zones identified at the northern extremity of the pit but it was still undecided if these areas were going to be exploited due to the lower gold price.

In the period between 2013 and 2017, Alio has only conducted a small number of exploration drilling programs comprised of in-fill drilling in the San Francisco pit to cover gaps in drilling on the lower benches, exploration drilling to outline preliminary underground resources beneath the south wall of the pit and exploration drilling to the north of the San Francisco pit to potentially identify a secondary deposit which would supply feed to the heap leach pad and processing facilities at the San Francisco Mine.

The in-fill drilling in the San Francisco pit on the lower benches was successful in allowing a better understanding of the mineralization being extracted in these areas. The drilling in the south wall, along with preliminary underground mining, has helped to identify the extent and mining potential for these areas but further drilling will be necessary to fully identify the extent of the mineralized lenses in this area. The exploration drilling to the north produced mixed results with areas of good mineralization identified but the extent of the mineralization is still not fully understood and these areas will need further work to identify if they are amenable to open pit mining methods.

Alio's in-fill drilling programs led to 2 small satellite pits to the north and northeast being identified around the La Chicharra deposit and a small pit to the southeast of the San Francisco deposit. These small pits are only a few benches deep.

In 2017 and 2018 Alio conducted in-fill drilling programs at the San Francisco pit to further define and upgrade the classification of mineralized material within the various mining phases of the pit. Alio also conducted exploration drilling to further identify the extent and grade of the mineralization at depth within the pit.

1.6.2 Magna Exploration Programs

Magna is in the process of completing the acquisition of the San Francisco Mine from Alio. Upon completion of the acquisition Magna will review the data for the Project and then decide on its approach to the exploration programs for the property.

1.7 ALIO HISTORICAL MINERAL RESOURCE AND RESERVE ESTIMATES

In a news release dated August 10, 2018, Alio reported the Mineral Reserves and Mineral Resources as of July 1, 2018 for the San Francisco Mine. The following information regarding the 2018 mineral resources and reserves has been extracted from the press release as follows:

"The Mineral Reserve estimates at San Francisco from April 1, 2017 was updated as of July 1, 2018 utilizing the latest available information, including mining depletion over the period and in-fill and grade-control drilling carried out as part



of the mining operations during the period. Mining depletion of Mineral Reserves was partly offset by expansion of the reserves in Phases 6 through 9 of the San Francisco Pit. Total proven and probable mineral reserves totaled 854,472 ounces of gold (55.5 million tonnes at 0.49 g/t) as of July 1, 2018, an approximate decrease of 74,228 ounces of gold or 8% from April 1, 2017."

"Alio Gold Reserve and Resource Reporting Notes as of July 1, 2018:

- 1. All Mineral Reserves and Mineral Resources have been calculated in accordance with the standards of the Canadian Institute of Mining, Metallurgy and Petroleum and National Instrument 43-101, or the AusIMM JORC equivalent.
- 2. All Mineral Resources are reported inclusive of Mineral Reserves.
- 3. Mineral Resources which are not Mineral Reserves do not have demonstrated economic viability.
- 4. Mineral Reserves are estimated using appropriate recovery rates and USD commodity prices of \$1,250 per ounce of gold.
- 5. Mineral Resources are estimated using USD commodity prices of \$1,350 per ounce of gold."

"Scientific and technical information contained in this news release with respect to the San Francisco Mine was reviewed and approved by Jorge Lozano, a "qualified person" as defined by National Instrument 43-101 — Standards of Disclosure for Mineral Projects ("NI 43-101"). Information regarding data verification, surveys and investigations, exploration information, quality assurance programs and quality control measures, and a summary of sample analytical or testing procedures for the San Francisco Mine are contained in the Company's annual information form for the year ended December 31, 2017, dated March 14, 2018, and filed on SEDAR at www.sedar.com and EDGAR at www.sec.gov (the "AIF"). Also included in the AIF is a description of the key assumptions, parameters and methods not included in this news release that are used to estimate mineral reserves and resources and a general discussion of the extent to which the estimates may be affect by any known environmental, permitting, legal, title, taxation, socio-political, marketing or other relevant factors."

"Mineral resources which are not mineral reserves do not have demonstrated economic viability. With respect to "indicated mineral resource" and "inferred mineral resource", there is a great amount of uncertainty as to their existence and a great uncertainty as to their economic and legal feasibility. It cannot be assumed that all or any part of a "measured mineral resource", "indicated mineral resource" or "inferred mineral resource" will ever be upgraded to a higher category."

Magna has stated that it considers the July 1, 2018 Alio mineral resources and reserves to be historical and made the following statement in its March 6, 2020 Press Release:



"The Mineral Reserves and Mineral Resources estimates were reported by Alio in its news release dated August 10, 2018, available under Alio's SEDAR profile at www.sedar.com. Mineral Reserves and Mineral Resources were prepared by Alio in accordance with National Instrument 43-101 – Standards of Disclosure for Mineral Projects ("NI 43-101") under the supervision of a qualified person. The most recent NI 43-101 technical report on the San Francisco Mine was filed by Alio on May 25, 2017, with an effective date of April 1, 2017, and is available under Alio's SEDAR profile at www.sedar.com. The Mineral Reserves and Mineral Resources noted above are historical estimates and a qualified person has not done sufficient work on behalf of Magna to classify the historical estimate as current Mineral Resources or Mineral Reserves and Magna is not treating the historical estimate as current Mineral Resources or Mineral Reserves. Although Magna is not treating this information as current estimates, it believes Alio's work is reliable and that the information, which was made publicly available by Alio, may be of assistance to investors. The Company intends to review all project data, validate data quality, create a new geological model and then make an updated resource estimate in the upcoming months. As well, the Company will be reviewing metallurgical information and key economic parameters in order to evaluate the potential economics of an open pit gold mine and heap leach extraction facility."

"Operational Improvement Plan"

"Following closing of the Acquisition, Magna intends to execute a mine operational improvement plan that will include a full review and update to (i) the mine design and production plan, (ii) metallurgy and processing, (iii) workforce management, and (iv) local and regional exploration. Based on Magna's review to date, the Company believes it can re-commence mining operations in the near term with the goal of establishing profitable mining operations."

"Magna will provide additional details with respect to the mine operational improvement plan following the closing of the Acquisition. The mine operational improvement plan will be supported by a preliminary economic assessment, prefeasibility study or feasibility study."

1.8 ALIO OPERATIONAL DATA FOR THE SAN FRANCISCO PROJECT

Mining at the San Francisco Project was conducted by a contractor, using open pit mining methods and stockpiling the lower grade material for processing once the open pit was no longer producing. Although Alio drew material from the stockpiles intermittently from 2014, routine processing of the stockpile material began at the end of 2018 when the production from the open pits ceased and continued through 2019. Currently, operations are solely focused on recovery of the residual inventory ounces.



1.8.1 Production to 2010 to 2019

The San Francisco Mine resumed commercial production in April, 2010. Table 1.1 summarizes production from April, 2010 to the end of 2019, by quarter, with notes at the end as to what is included or excluded from the table. Ore of lower grade was stockpiled for processing at the end of the mine life. Alio reports that, at the end of March, 2016, a total of 8.121 Mt at an average grade of 0.260 g/t gold had been placed on the low-grade stockpile since 2010. As the end of December, 2019, Alio has processed from the stockpiles a total of 7.406 Mt at an average grade of 0.224 g/t gold.

During July, 2011, Alio expanded of the crushing system to 15,000 t/d. In December, 2012, a new crushing circuit was installed to provide a capacity of 5,000 t/d. In August, 2013, the second crushing circuit was expanded by 2,000 t/d. The processing rate at the time of the 2017 Technical Report was 22,000 t/d and had been operating at this rate since the 2013 Technical Report was released. During 2019, Alio decided to stop processing material from the open pits and concentrate on processing material from the stockpiles. Currently the operation is on residule leach.

With the original plant equipment and additions mentioned, the crushing capacity operated at 22,000 tonnes per day (t/d) when in production.

1.8.2 Mine Plans and Activities

Production from the La Chicharra deposit recommenced in late 2015. The San Francisco and La Chicharra pits were mined at the same time. The La Chicharra pit, previously mined by Geomaque, is located 1,000 m west of the San Francisco pit.

All mining activities during the full operational period were carried out by the contractor, Peal Mexico, S.A. de C.V., of Navojoa, Mexico. The contractor was obliged to supply and maintain the appropriate principal and auxiliary mining equipment and personnel required to produce the tonnage mandated by Alio, in accordance with the mining plan.

Alio provided contract supervision, geology, engineering and planning and survey services, using its own employees when the mine was in full production.



Table 1.1 San Francisco Project, Annual Production from April, 2010 to the End of December, 2019 (by Quarter)

Year	Quarter	Total Ore Extracted (dry tonnes)	Avg Grade Extracted (g/t Gold)	Total Gold Extracted (oz Au)	ROM extracted (dry tonnes)	Avg Grade ROM Extracted (g/t Gold)	Waste Mined (dry tonnes)	Strip Ratio (w:o)	Processed Ore (dry tonnes)	Avg Processed Grade (g/t Gold)	Gold Placed on Leach Pad (oz Au)	Gold Sold (oz Au)	Days in Quarter	Average Ore Mined (tonnes/day)	Average Ore Processed (tonnes/day)	Total Mined (tonnes/day)
	April-June	989,146	0.768	24,427	0	0	4,057,842	4.10	905,296	0.718	20,904	10,375	91	10,870	9,948	55,461
2010	July-September	1,110,169	0.862	30,756	0	0.000	3,630,021	3.27	1,090,768	0.817	28,667	15,685	92	12,067	11,856	51,524
	October-December	1,271,281	0.947	38,712	0	0.000	4,498,925	3.54	1,208,677	0.939	36,483	20,030	92	13,818	13,138	62,720
	January-March	1,624,297	0.721	37,656	0	0.000	4,701,677	2.90	1,207,339	0.895	34,743	17,020	90	18,048	13,415	70,289
2011	April-June	1,648,231	0.762	40,370	0	0.000	4,239,137	2.57	1,239,075	0.859	34,235	16,676	91	18,112	13,616	64,696
2011	July-September	2,030,276	0.650	42,429	0	0.000	5,097,292	2.51	1,364,290	0.804	35,282	17,287	92	22,068	14,829	77,474
	October-December	2,097,621	0.582	39,282	0	0.000	4,160,488	1.98	1,327,299	0.778	33,195	21,524	92	22,800	14,427	68,023
	January-March	2,092,389	0.593	39,864	0	0.000	3,879,662	1.85	1,255,477	0.772	31,150	21,532	91	22,993	13,796	65,627
2012	April-June	2,098,087	0.656	44,274	0	0.000	4,342,495	2.07	1,347,112	0.901	39,028	23,203	91	23,056	14,803	70,776
2012	July-September	2,266,504	0.646	47,090	0	0.000	4,210,428	1.86	1,420,414	0.887	40,490	25,154	92	24,636	15,439	70,401
	October-December	1,867,512	0.707	42,439	0	0.000	5,295,383	2.84	1,493,623	0.819	39,339	24,556	92	20,299	16,235	77,858
	January-March	2,113,611	0.712	48,383	0	0.000	6,375,048	3.02	1,787,262	0.825	47,434	28,328	90	23,485	19,858	94,318
2013	April-June	2,233,783	0.702	50,394	0	0.000	6,235,920	2.79	1,848,832	0.814	48,380	28,024	91	24,547	20,317	93,074
2013	July-September	2,110,667	0.684	46,425	0	0.000	5,441,889	2.58	1,815,709	0.771	45,016	29,139	92	22,942	19,736	82,093
	October-December	2,284,242	0.737	54,118	0	0.000	5,307,526	2.32	2,014,968	0.872	56,504	34,166	92	24,829	21,902	82,519
	January-March	2,373,603	0.727	55,477	0	0.000	5,520,468	2.33	2,122,650	0.760	51,838	35,413	90	26,373	23,585	87,712
2014	April-June	2,461,018	0.625	49,467	0	0.000	5,810,088	2.36	2,184,316	0.650	45,616	32,932	91	27,044	24,003	90,891
2014	July-September	2,017,523	0.561	36,359	0	0.000	6,208,303	3.08	2,213,740	0.504	35,889	26,675	92	21,930	24,062	89,411
	October-December	1,944,436	0.650	40,656	0	0.000	6,417,044	3.30	2,101,873	0.563	38,078	25,007	92	21,135	22,846	90,886
	January-March	2,086,331	0.563	37,779	0	0.000	5,997,897	2.88	2,074,788	0.532	35,469	24,155	90	23,181	23,053	89,825
2015	April-June	2,118,215	0.565	38,476	0	0.000	7,151,798	3.38	2,252,591	0.527	38,176	22,869	91	23,277	24,754	101,868
2015	July-September	1,962,879	0.548	34,601	0	0.000	7,000,474	3.57	2,200,292	0.510	36,072	23,387	92	21,336	23,916	97,428
	October-December	1,712,867	0.486	26,788	0	0.000	6,857,052	4.00	1,921,060	0.458	28,314	22,787	92	18,618	20,881	93,151
	January-March	1,999,320	0.620	39,840	0	0.000	4,708,661	2.36	2,003,712	0.622	40,038	25,121	91	21,971	22,019	73,714
2016	April-June	1,848,675	0.604	35,892	0	0.000	3,729,153	2.02	1,939,567	0.604	37,640	25,863	91	20,315	21,314	61,295
2010	July-September	1,745,081	0.604	33,901	0	0.000	3,724,904	2.14	1,791,399	0.610	35,135	24,053	92	18,968	19,472	59,456
	October-December	1,864,407	0.486	29,123	0	0.000	2,365,312	1.27	1,917,965	0.482	29,703	25,287	92	20,265	20,847	45,975
	January-March	1,942,117	0.485	30,255	0	0.000	3,241,871	1.67	1,963,307	0.475	29,996	26,048	90	21,579	21,815	57,600
2017	April-June	1,651,256	0.523	27,779	0	0.000	4,300,791	2.61	1,933,253	0.466	28,958	22,012	91	18,146	21,245	65,407
2017	July-September	1,645,607	0.468	24,750	0	0.000	5,184,524	3.15	1,916,332	0.400	24,616	19,428	92	17,887	20,830	74,241
	October-December	1,709,950	0.533	29,326	53,311	0.193	6,232,422	3.65	1,777,461	0.449	25,632	16,069	92	18,586	19,320	86,330
	January-March	1,725,744	0.481	26,683	1,100,860	0.168	5,810,318	3.37	1,714,564	0.416	22,960	16,860	90	19,175	19,051	83,734
2018	April-June	1,620,935	0.433	22,574	543,376	0.171	4,038,721	2.49	1,617,158	0.463	24,086	13,534	91	17,812	17,771	62,194
2018	July-September	1,539,587	0.481	23,816	117,788	0.141	1,984,781	1.29	1,602,613	0.481	24,770	10,857	92	16,735	17,420	38,308
	October-December	1,159,962	0.478	17,838	0	0.000	3,618,151	3.12	1,576,781	0.418	21,168	10,136	92	12,608	17,139	51,936
	January-March	0	0.000	0	0	0.000	0	0.00	1,619,443	0.274	14,290	10,876	90	0	17,994	0
2019	April-June	0	0.000	0	0	0.000	0	0.00	1,744,165	0.274	15,349	10,204	91	0	19,167	0
2019	July-September	0	0.000	0	0	0.000	0	0.00	1,607,925	0.248	12,809	8,167	92	0	17,477	0
	October-December	0	0.000	0	0	0.000	0	0.00	1,183,727	0.228	8,665	7,097	92	0	12,867	0
Total		64,967,330	0.617	1,287,999	1,815,336	0.168	171,376,466	2.64	66,306,823	0.599	1,276,118	817,534	3,562	20,321	18,615	73,927

Table provided by Magna.

Notes:

- Alio's management team decided to process ROM ore by the end of 2017. This ore is not reflected in the above table. Approximately 1.8 Mt were processed in this manner.
- From Q4, 2018 till Q4, 2019, the low-grade ore stockpiled was processed and placed on pads.
- Total Ore Extracted columns take into account the low-grade ore sent to stockpile.
- Total Processed Ore columns include the low-grade ore rehandled and processed. These figures do not reflect the ROM ore extracted and placed over pads.



1.9 PROCESSING DURING ALIO'S OPERATING PERIOD

Ore extracted from the pit is transported in 100 t capacity haulage trucks, which feed directly into the gyratory primary crusher with dimensions of 42" x 65". The crusher has a nominal capacity of 900 tonnes per hour (t/h). The crushed product is then transported on conveyor belts to a stockpile with a capacity of 6,000 tonnes.

Two feeders beneath the stockpile deliver the ore onto a conveyor belt which feeds the secondary crushing circuit. The ore is screened and the screen undersize reports to the final product, while screen oversize is fed to two parallel secondary crushers.

Product from the secondary crushers is transported on conveyor belts to the tertiary crushing circuit, which consists of three tertiary crushers in parallel operating in closed circuit with screens. The minus 0.5 inch undersize from the screens is delivered to the leach pad.

Product from the crushing plant is transported to the leach pad on overland conveyors and deposited on the pad with a stacker, forming lifts between 8 m and 12 m in height. A bulldozer is used to level the surface of each lift. The irrigation pipelines are then installed to distribute the leach solution over the entire surface of the lift.

Alio has constructed the leach pad and has six different phases for depositing, based on the permits granted by the Mexican Environmental Agency (PROFEPA, Procuraduría Federal de Protección al Ambiente). Table 1.2 summarizes the leach pad phases.

Table 1.2 Summary of the Leach Pad Phases Based Upon the Permits Acquired for the San Francisco Mine

# Phase	Duration	Surface	Nominal Capacity	Capacity to date	Status
1 & 2	November, 2009 to November, 2013	36 ha	26 Mt	25 Mt	Releached
3	November, 2013 to August, 2015	25 ha	18 Mt	18 Mt	On Irrigation
4	August, 2015 to October, 2016	16 ha	12 Mt	12 Mt	On Irrigation
5	October, 2016 to June, 2017	12 ha	9 Mt	7 Mt	On Irrigation
6	June, 2017 to September, 2018	17 ha	12 Mt	5 Mt	On Irrigation
Total			76.56 Mt	66.31 Mt	

Table provided by Alio Gold Inc.

The 0.05% sodium cyanide leach solution with a pH of 10.5 to 11, flows downward through the crushed ore, dissolving the precious metals. The solution percolates to the bottom of the lift and is collected in the channel that carries the pregnant solution to a storage pond, from which it is pumped to the gold recovery plant. The gold contained in pregnant solution is adsorbed in the carbon columns.

The gold recovery operation comprises two adsorption-desorption-recovery (ADR) plants with a total of three parallel sets of carbon columns with a total feed capacity of 1,475 cubic metres per hour (m³/h) (6,500 US g/m) of pregnant solution.



Barren solution exiting the ADR plant flows to a second storage pond where fresh water and sodium cyanide are added, before the solution is pumped back to the leach pad.

A new stripping circuit with a capacity of 5.5 t of carbon has been added to the process. In March, 2017, this new circuit started full operations. The target is to improve the stripping efficiency to an average of 95%.

In March, 2017, Alio initiated a process to separate the drainage solution from old leach pads (Phases 1 and 2) in a parallel intermediate solution process and recirculate this drained solution continually until it is enriched enough to process (minimum average head grade of 0.13 ppm). Additional infrastructure was added in order to process the 8,000 m³/d recirculated from the old leach pads.

An additional carbon tank with a capacity of 6 t of activated carbon (similar to the existing ones in ADR Plant #2) for capturing the gold solution drained from old phases has been added to the circuit.

1.10 CONCLUSIONS AND RECOMMENDATIONS

Magna is in the process of acquiring 100% of Alio's indirect wholly-owned subsidiary Molimentales which owns a 100% interest in the San Francisco Project from Timmins, a wholly-owned subsidiary of Alio. Once Magna has completed the acquisition it will review the underlying operational data of the Project as well as the operations themselves in order to Determine the best direction to potentially re-start the mining in the open pits and overall operations at the Project.

Magna considers that Alio's August 10, 2018 mineral resources and reserves are historical and will review the geological modelling and interpretation of the mineralization.

Micon is familiar with the San Francisco Project through its previous work from 2005 until 2017 on the Project. As a result of its previous work, Micon agrees with Magna that an assessment of the Project should be conducted prior to any restart of the operations to identify any redundancies and efficiencies that would assist Magna in returning the San Francisco Project to an operating status.

Magna has proposed a budget of approximately USD 1.262 million in order to conduct the review and studies necessary to recommence mining of the open pits at the San Francisco Project and bring the Project back into full production. The details of the proposed budget for the review and studies is summarized in Table 1.3.



Table 1.3
Budget for Review and Studies for the San Francisco Project

Items in Budget	Budget to Restart Operations (USD)	Budget to Restart Operations* (CAD)					
Operational Improvement Plan							
Confirmation Drilling	\$100,000	\$142,857					
Metallurgical Testwork	\$50,000	\$71,429					
Resources and Reserves, Mine Planning	\$50,000	\$71,429					
NI 43-101 Tech Report	\$75,000	\$107,143					
Legal and Fees	\$125,000	\$178,571					
Subtotal Operational Improvement Plan	\$400,000	\$571,429					
Cyanide and Reagents Initial Loads							
Cyanide	\$140,000	\$200,000					
Carbon	\$15,000	\$21,429					
Lime	\$80,000	\$114,286					
Subtotal Cyanide and Reagents Initial Load	\$235,000	\$335,714					
Operational Continuity							
General and Administration (G&A)	\$400,000	\$571,429					
Refurbishment of Overland Conveyor Belts	\$68,232	\$97,474					
Screening Modules to Lower Particle Size to Pads (P ₈₀ 7.0 mm)	\$74,731	\$106,759					
Preventive Maintenance on Pumping Substations and Hydraulic Systems	\$40,000	\$57,143					
Miscellaneous	\$45,000	\$64,286					
Subtotal Operational Continuity	\$627,963	\$897,090					
Total Expenditures	\$1,262,963	\$1,804,233					

^{*} Exchange Rate used was 1 USD = 0.700 CAD Table provided by Magna Gold Corp. March 26, 2020.

Micon has reviewed the budget proposed by Magna and recommends that Magna proceed with the budget as proposed, subject to funding and other operational changes that may arise once Magna has acquired the San Francisco Project.

Given the prospective nature of the property, it is Micon's opinion, and that of its Qualified Person (QP), that the San Francisco Project merits further exploration. Micon recommends that Magna continues to hold the existing mineral concessions and that Magna conduct a drilling program of in-fill and down dip drilling as the first stage of further work to be conducted on the San Francisco property. Further exploration programs and drilling will be needed in order to identify any other potential secondary mineral deposits on the property which may be economic and provide secondary feed for the processing facilities.



2.0 INTRODUCTION

At the request of Miguel Soto, P.Geo. Vice President of Exploration for Magna Gold Corp. (TSXV: MGR, OTCQB: MGLQF) (MGR or Magna) has retained Micon International Limited (Micon) to prepare an independent Technical Report for the San Francisco Gold Project (San Francisco Project or the Project) in the state of Sonora, Mexico. The purpose of this Technical Report is to support disclosure for Magna Gold Corp.'s acquisition of 100% of Alio Gold Inc's. (Alio) indirect wholly-owned subsidiary Molimentales del Noroeste, S.A. de C.V., (Molimentales) which owns a 100% interest in the San Francisco Mine and the surrounding mineral concessions from Timmins GoldCorp Mexico S.A. de C.V. (Timmins), a wholly-owned subsidiary of Alio.

Micon's most recent Technical Report for the Project was entitled "NI 43-101 F1 Technical Report, Updated Resources and Reserves and Mine Plan for the San Francisco Gold Mine, Sonora, Mexico", dated May 25, 2017. That Technical Report was filed by Alio on the System for Electronic Document Analysis and Retrieval (SEDAR, www.sedar.com). Micon has written 10 prior reports on the San Francisco Project since 2005.

2.1 Information Regarding Alio and the San Francisco Property from Previous Micon Reports Along with Updated Information

On May 12, 2017 Alio announced that the shareholders had approved its name change from Timmins Gold Corp. to Alio Gold Inc.

In 2017, Alio advised Micon that it held its interest in the San Francisco property through its wholly-owned Mexican subsidiary Timmins Goldcorp Mexico, S.A. de C.V., which holds thirteen mining concessions through a wholly-owned subsidiary, Molimentales del Noroeste de S.A. de C.V. (Molimentales). In the 2017 Technical Report, Alio and its subsidiaries were considered to be one and the same. However, as Magna has entered into a definitive purchase agreement with Timmins, Molimentales will be considered to be part of Magna upon completion of the acquisition.

Micon's most recent site visit was conducted between May 15 and 17, 2017, during which the resources and reserves, as well as various aspects of the operation and mine plan, were discussed. The in-fill drilling programs and possible future exploration programs were also discussed. The site visit included a tour of the open pits, the locations of the planned pit push backs, crushing circuit and locations where the new crushing circuit was to be set-up.

In 2017, a number of discussions were held via skype and telephone conference calls between Micon personnel in Toronto and Alio personnel in Hermosillo, regarding the database, block model and parameters for the mineral resource and reserve estimate, mine plan, as well as other topics related to the audit and preparation of that Technical Report.



Mani Verma, P.Eng. and William J. Lewis, P.Geo., conducted the May, 2017 site visit. Mr. Lewis has conducted a number of site visits to the San Francisco Project since 2005 and is very familiar with the Project.

The Qualified Persons (QPs) responsible for the preparation of this report are William J. Lewis, P.Geo. and Richard M. Gowans, P.Eng.

Mr. Lewis, a Senior Geologist with Micon, is responsible for the independent summary and review of the exploration on the San Francisco Project, and the comments on the propriety of Magna's plans and budget for the next phase of in-fill drilling.

Mr. Gowans, President and Principal Metallurgist of Micon, reviewed the metallurgical aspects of the San Francisco Project.

It should be noted the Mr. Lewis conducted site visits in relation to all of the previous Technical Reports that Micon has written for the San Francisco Project and that these reports spanned the original acquisition and early exploration, through the production phase of the Project. Site visits in conjunction with Technical Reports were conducted in 2005, 2007, 2008, 2009, 2010, 2011, 2013, 2016 (2) and 2017.

The most recent site visit was completed on May 29, 2020, by Mr. Rodrigo Calles-Montijo, CPG, who is an independent consultant and Certified Professional Geologist (CPG), as well as a member of the American Institute of Professional Geologists (AIPG). Mr. Calles-Montijo, based in Hermosillo, México, was contacted by the management of Magna in order undertake the current site visit, as established in the NI 43-101 guidelines, and which was unable to be executed by the representatives of Micon due the situation and travel limitations created by the COVID-19 pandemic. Prior to the site visit, a Skype meeting was organized with the participation of Mr. William J. Lewis (Micon), Mr. Miguel Soto (Magna) and Mr. Calles-Montijo, in order to delineate the objectives during the site visit. Mr. Calles-Montijo visited the mine accompanied by Mr. Miguel Soto, Vice President of Exploration with Magna Gold Corp., and Jose Luis Soto, Operative Manager of the San Francisco Mine.

2.2 OTHER INFORMATION

All currency amounts are stated in US dollars (USD) or Mexican pesos (MXN), as specified, with costs and commodity prices typically expressed in US dollars. Quantities are generally stated in metric units, the standard Canadian and international practice, including metric tons (tonnes, t) and kilograms (kg) for weight, kilometres (km) or metres (m) for distance, hectares (ha) for area, grams (g) and grams per metric tonne (g/t) for gold and silver grades (g/t Au, g/t Ag). Wherever applicable, Imperial units have been converted to Système International d'Unités (SI) units for reporting consistency. Precious metal grades may be expressed in parts per million (ppm) or parts per billion (ppb) and their quantities may also be reported in troy ounces (ounces, oz), a common practice in the mining industry. A list of abbreviations is provided in Table 2.1. Appendix 1 contains a glossary of mining and other related terms.



The review of the San Francisco Project was based on published material researched by Micon, as well as data, professional opinions and unpublished material submitted by the professional staff of Magna or its consultants. Much of these data came from reports prepared and provided by Magna.

Micon does not have nor has it previously had any material interest in Alio, Magna or related entities. The relationship with Alio, Magna and thier related entities is solely a professional association between the client and the independent consultant. This report is prepared in return for fees based upon agreed commercial rates and the payment of these fees is in no way contingent on the results of this report.

This report includes technical information which requires subsequent calculations or estimates to derive sub-totals, totals and weighted averages. Such calculations or estimations inherently involve a degree of rounding and consequently introduce a margin of error. Where these occur, Micon does not consider them to be material.

The conclusions and recommendations in this report reflect the authors' best independent judgment in light of the information available to them at the time of writing. The authors and Micon reserve the right, but will not be obliged, to revise this report and conclusions if additional information becomes known to them subsequent to the date of this report. Use of this report acknowledges acceptance of the foregoing conditions.

This report is intended to be used by Magna subject to the terms and conditions of its agreement with Micon. That agreement permits Magna to file this report as a Technical Report with the Canadian Securities Administrators pursuant to provincial securities legislation or with the SEC in the United States. Except for the purposes legislated under provincial securities laws, any other use of this report, by any third party, is at that party's sole risk.

The descriptions of geology, mineralization and exploration used in this report are taken from reports prepared by various organizations and companies or their contracted consultants, as well as from various government and academic publications. The conclusions of this report are based in part on data available in published and unpublished reports supplied by the companies which have conducted exploration on the property, and information supplied by Magna. The information provided to Magna was supplied by reputable companies. Micon has no reason to doubt its validity and has used the information where it has been verified through its own review and discussions.

Micon is pleased to acknowledge the helpful cooperation of Magna management and consulting field staff, all of whom made any and all data requested available and responded openly and helpfully to all questions, queries and requests for material.

Table 2.1 List of Abbreviations

Name	Abbreviation	Name	Abbreviation
Accurassay Laboratories	Accurassay	McCelland Laboratories Inc.	McCelland
Acme Analytical Laboratories Ltd.	ACME	METCON Research Inc.	METCON
Adsorption/desorption/reactivation	ADR	Metre(s)	m
All-in sustaining costs	AISC	Mexican peso	MXN
Alio Gold Inc.	Alio	Micon International Limited	Micon
ALS-Chemex Laboratories	ALS-Chemex	Million (eg million tonnes, million ounces, million years)	M (Mt, Moz, Ma)
Canadian Institute of Mining, Metallurgy and Petroleum	CIM	Milligram(s)	mg
Canadian National Instrument 43-101	NI 43-101	Millimetre(s)	mm
Canadian Securities Administrators	CSA	Molimentales del Noroeste de S.A. de C.V.	Molimentales
Centimetre(s)	cm	North American Datum	NAD
Compania Fresnillo S.A. de C.V.	Fresnillo	Net present value, at discount rate of 8%/y	NPV, NPV ₈
Defiance Mining Corporation	Defiance	Net smelter return	NSR
Degree(s), Degrees Celsius	°,°C	Not available/applicable	n.a.
Digital elevation model	DEM	Ounces (troy)/ounces per year	oz, oz/y
Dirección General de Minas	DGM	Parts per billion, part per million	ppb, ppm
Discounted cash flow	DCF	Percent(age)	%
Diversified Drilling, S.A. de C.V.	Diversified	Quality Assurance/Quality Control	QA/QC
Electronic Data Gathering, Analysis and Retrieval	EDGAR	Run of mine	ROM
Explotaciones Mineras Del Noroeste S.A. de C.V.	Explotaciones Mineras	Servicios Industriales Peñoles, S.A. de C.V.	Peñoles
Geomaque de Mexico, S.A. de C.V.	Geomaque de Mexico	SGS Mineral Services	SGS
Geomaque Explorations Inc.	Geomaque	Sol & Adobe Ingenieros Asociados S.A. de C.V.	Sol & Adobe.
Golder Associates Ltd.	Golder Associates	Specific gravity	SG
Grams per metric tonne	g/t	Square kilometre(s)	km ²
Hectare(s)	ha	System for Electronic Document Analysis and Retrieval	SEDAR
Hour	h	Three-dimensional	3-D
Inch(es)	in	Timmins Gold Corp.	Timmins or TMM
Independent Mining Consultants, Inc.	IMC	Timmins Goldcorp Mexico, S.A. de C.V.	Timmins
Inductively Coupled Plasma – Emission Spectrometry	ICP-ES	Tonne (metric)/tonnes per day, tonnes per hour	t, t/d, t/h
Internal diameter	ID	Tonne-kilometre	t-km
Internal rate of return	IRR	Tonnes per cubic metre	t/m ³
Impuesto al Valor Agregado (or VAT)	IVA	TSL Laboratories Inc.	TSL
Kappes, Cassiday and Associates	Kappes Cassiday	United States Dollar(s)	USD
Kilogram(s)	kg	US gallons per minute	USgpm
Kilometre(s)	km	US Securities and Exchange Commission	SEC
Life of mine	LOM	Universal Transverse Mercator	UTM
Litre(s)	L	Value Added Tax (or IVA)	VAT or IVA
Magna Gold Corp.	Magna	Year	у



Some of the figures and tables for this report were reproduced or derived from historical reports written on the property by various individuals and/or supplied to Micon by Magna. Most of the photographs were taken by Mr. Lewis during his previous site visits or by Mr. Calles-Montijo during his recent site visit. In the cases where photographs, figures or tables were supplied by other individuals or Magna, they are referenced below the inserted item.



3.0 RELIANCE ON OTHER EXPERTS

In this report, discussions regarding royalties, permitting, taxation, bullion sales agreements and environmental matters are based on material provided by Magna. Micon is not qualified to comment on such matters and has relied on the representations and documentation provided by Magna for such discussions.

All data used in this report were originally provided by either Alio or Magna. Micon has reviewed and analyzed this data and has drawn its own conclusions therefrom, augmented by its direct field examinations during the 2005, 2006, 2007, 2010, 2011, 2013, 2016 (2) and 2017 site visits.

Micon offers no legal opinion as to the validity of the title to the mineral concessions claimed by Magna and its wholly-owned Mexican subsidiaries and has relied on information provided by them. An updated legal opinion regarding the mineral concessions and its subsidiaries was provided to Micon by Magna for this Technical Report. The legal opinion was dated March 25, 2020 and was prepared and executed by the law firm of DBR Abogados, S.C. situated at Av. Nuevo León No. 22, Piso 4, Col. Hipódromo 06100, Ciudad de México. A copy of the updated legal opinion is attached to this report as Appendix II.



4.0 PROPERTY DESCRIPTION AND LOCATION

4.1 GENERAL

The San Francisco property is located in the north central portion of the Mexican state of Sonora, which borders on the American state of Arizona, and is approximately 150 km north of the city of Hermosillo, the capital of Sonora. The latitude and longitude for the Project site are approximately 30°21'13" N, 111°06'52" W. The UTM coordinates are 3,357,802 N, 489,017 E and the datum used was NAD 27 Mexico. The Project is located 2 km west of the town of Estación Llano and is accessed via Mexican State Highway 15 (Pan American highway) from Hermosillo.

The term San Francisco Project refers to the area related to the exploitation concessions controlled by Alio, while the term San Francisco property refers to the entire land package (mineral exploitation and exploration concessions) under Alio's control. The location of the San Francisco property is shown in Figure 4.1.

PHOENIX UNITED STATES

TUCSON

La Herradura
El Chanate

San Francisco Mine

SO HERMOSILLO

Mulatos

MIEXICO

MUEXICO

MUEXICO

MORA

PHOENIX

DIMINITED STATES

N

TUCSON

La Herradura
El Chanate

Cananea

San Francisco Mine

MIEXICO

MUEXICO

M

Figure 4.1 San Francisco Project Location Map

Figure originally provided by Alio Gold Inc. Figure dated February, 2016.



4.2 OWNERSHIP

Magna advises that it has entered into a definitive agreement Timmins, a wholly-owned subsidiary of Alio to purchase the San Francisco Project. Once the purchase agreement is finalized the ownership of the San Francisco Project will pass from Alio to Magna.

4.2.1 Alio Ownership Information

Alio advises that it holds the San Francisco Project, which consists of 13 mining concessions, through its indirect wholly-owned subsidiary Molimentales. All the concessions are contiguous and each varies in size for a total property area of 33,667.72 hectares (ha). In late 2005, the original Timmins II concession was subdivided into two concessions (Timmins II Fraccion Sur and Pima), as part of separate exploration strategies for the original Timmins II concession. All concessions are subject to a bi-annual fee and the filing of reports in May of each year covering the work accomplished on the property between January and December of the preceding year. The fee rates are estimated in US dollars based on the rates published in the "Diario Oficial de la Federacion (DOF)" as of February 28, 2020.

Alio reduced the size of the primary mineral concessions in 2015 by eliminating those areas deemed have very little exploration potential, while maintaining the integrity of the overall concessions. After 2015, it retained approximately 19,713 ha, which it believed contained the most prospective geology and mineralized targets upon which to base further exploration. The reduction in the size of the concessions has also resulted in a reduction in the bi-annual fees for the Project. A further reduction occurred in 2016 when Alio dropped the El Exito and El Picacho concessions. Therefore, Alio retains a total of 13,284.19 ha in its regional package of mineral concessions.

The information for the thirteen concessions is summarized in Table 4.1. A map of the mineral concessions for the San Francisco property is provided in Figure 4.2.

Alio advises that it acquired the first seven concessions, covering the San Francisco Mine, through its purchase of Molimentales in April, 2007.

In 2006, Alio signed a temporary occupancy agreement with an agrarian community (an Ejido) in Mexico called Los Chinos, whereby Alio was granted access privileges to 674 ha, the use of the Ejido's roads, as well as being able to perform all exploration work on the area covered by the agreement.

During August and September, 2009, Molimentales acquired the 800 ha of surface land on which the San Francisco Mine is located, by means of five purchase agreements covering all of the Ejido Jesus Garcia Heroe de Nacozari's five former parcels that together form the 800 ha.

Table 4.1
San Francisco Project, Summary of Mineral Concessions (with Fees for 2020 noted)

Mineral Concession Name	Title Number	Owner	Location (UTM Nad 27 Mex)	Mineral Concession Type	Area (hectares) ¹	Location Date	Expiry Date	Bi-Annual Fee (USD) ^{2,3}
San Francisco	198971	Molimentales del Noroeste, S.A de C.V.	488,675.174 E 3,359,396.801 N	Mining Concession	48.0000	February 11, 1994	February 10, 2044	865
San Francisco Dos	209618	Molimentales del Noroeste, S.A de C.V.	488,675.174 E 3,359,396.801 N	Mining Concession	315.6709	August 3, 1999	August. 2, 2049	5,600
San Francisco Cuatro	219301	Molimentales del Noroeste, S.A de C.V.	488,675.174 E 3,359,396.801 N	Mining Concession	5,189.7041	February 25, 2003	February 25, 2053	93,000
Llano II	197203	Molimentales del Noroeste, S.A. de C.V.	483,652.702 E 3,356,290.081 N	Mining Concession	500.0000	December 19, 1991	December 18, 2041	8,960
Llano III	197202	Molimentales del Noroeste, S.A de C.V.	483,652.702 E 3,356,290.081 N	Mining Concession	500.0000	December 19, 1991	December 18, 2041	8,960
Llano IV	222787	Molimentales del Noroeste, S.A. de C.V.	488,675.174 E 3,359,396.801 N	Mining Concession	500.0000	August 31, 2004	August 30, 2054	8,960
Llano V	222788	Molimentales del Noroeste, S.A. de C.V.	483,652.702 E 3,356,290.081 N	Mining Concession	500.0000	August 31, 2004	August 30, 2054	8,960
Timmins	226519	Molimentales del Noroeste, S.A. de C.V.	488,675.174 E 3,359,396.801 N	Mining Concession	337.0000	January 24, 2006	January 23, 2056	6,050
Timmins III Fraccion 1	227237	Molimentales del Noroeste, S.A. de C.V.	481,529.246 E 3,371,837.280 N	Mining Concession	346.0004	May 26, 2006	May 25, 2056	6,200
Timmins III Fraccion 2	227238	Molimentales del Noroeste, S.A. de C.V.	481,529.246 E 3,371,837.280 N	Mining Concession	54.2835	May 26, 2006	May 25, 2056	975
Timmins II Fraccion Sur ¹	228260	Molimentales del Noroeste, S.A. de C.V.	488,675.174 E 3,359,396.801 N	Mining Concession	20,370.0604	March 14, 2006	March 13, 2056	366,000
Pima Reduccion ¹	228261	Molimentales del Noroeste, S.A. de C.V.	486,058.775 E 3,375,493.728 N	Mining Concession	4,997.0000	March 14, 2007	March 13, 2056	90,000
La Mexicana	191137	Molimentales del Noroeste, SA de CV	487,910,487 E 3'363,995.686 N	Mining Concession	10.0000	April, 29, 1991	April 28, 2041	180
Total:	-	-	-	-	33,667.72	-	-	604,710

Table provided by Alio Gold Inc.

Notes:

¹ The Timmins II claim, originally staked with a surface of 39,403.0000 ha, was titled by the Direction General de Minas (DGM) with a surface of 36,142.0604 ha after surveying was completed. In 2008, due to a change in exploration strategy, the Timmins II claim was divided into two claims, Timmins II Fraccion Sur and Pima. In 2015, the surface area of the Pima claim was reduced from 15,772 ha to 4,997 ha

² Fees are estimated in US dollars based on the rates published in the "Diario Oficial de la Federacion (DOF)". The exchange rate used is 19 pesos = 1 US Dollar.

³ The table includes payment for both semesters of 2020, the first semester has already been paid by Alio and the payment for the second semester in July, 2020 will be paid by Magna.



PIMA Santa Ana down C1 3'370,000 N TIMMINS II FRACC. SUR **ALIO GOLD** CONCESSIONS LAND BELONGING TIMMINS III FRACC I. SAN FRANCISCO ALIO GOLD CUATRO TIMMINS III FRACC II. C3) LA MEXICANA 3'360,000 N (C4) LLANO V C5) LLANO IV (C6) EL LLANO III C7) EL LLANO II SAN FRANCISCO C8) TIMMINS PIT SAN FRANCISCO DOS C10 SAN FRANCISCO kilometers

Figure 4.2 San Francisco Property (Concessions) Map

Figure provided by Alio Gold Inc. Figure dated May, 2017.

In September, 2011, Molimentales acquired 732 ha from Ejido Los Chinos, which was originally part of the exploration agreement signed in 2006.



Other parties control two mineral concessions which are contained within the area of the mineral concessions owned by Alio but neither of these concessions impacts the main area of the San Francisco Project.

On February 23, 2011, Alio announced that it had staked an additional 95,000 ha of claims along the highly prospective Sonora-Mojave Megashear structural province in northern Sonora. Alio has continued to stake additional concessions since February, 2011 and the total additional regional mineral concessions amounted to approximately 152,279.6 ha in 2013. In 2015 and 2016, the regional concessions were reduced with Alio only keeping the ground that it deemed significant to future exploration. The information for the regional mineral concessions staked by Alio is summarized in Table 4.2. A map of the regional concessions is provided in Figure 4.3.

On July 6, 2011, Molimentales acquired (through a straight purchase) a 10-ha mineral concession called La Mexicana by paying the vendor, Mr. Agustin Albelais, a buy-out price of USD 250,000. The La Mexicana mineral concession was the last area in the metamorphic package that did not belong to Alio.

Molimentales has completed the process of converting the 674 hectares contracted from the Los Chinos Ejido into private property. The 674 ha was purchased by Molimentales, in 2011, and the final public instrument documenting the purchase was issued on February 9, 2015.

Since completing the purchase of the 674 ha from the Los Chinos Ejido, Molimentales has not undertaken any further land purchases and believes no further purchases are necessary at this time.

4.2.2 Magna Ownership Information

Magna announced that is had entered into a definitive purchase agreement with Timmins, a wholly-owned subsidiary of Alio, to acquire the San Francisco Mine, on March 6, 2020 as follows:

"Summary of the Acquisition"

"Under the terms of the Definitive Agreement, Magna will acquire 100% of Alio's indirect wholly-owned subsidiary Molimentales del Noroeste, S.A. de C.V., which owns a 100% interest in the San Francisco Mine and the surrounding mineral concessions, in exchange for:"

"On Closing: The issuance of 9,740,000 common shares in the capital of the Company (Common Shares), representing approximately 19.9% of the issued and outstanding Common Shares upon closing of the Acquisition (the Consideration Shares)."

"12 Months from Closing: USD 5 million in cash or a 1% net smelter return royalty on a portion of the San Francisco Mine, at the election of Magna."



"The Consideration Shares will be subject to a lock-up agreement until the earlier of:

- (i) the date that is 12 months from the closing of the Acquisition, and;
- (ii) the date on which Timmins and its affiliates collectively hold less than 9.9% of the Common Shares on an undiluted basis. In the event that Timmins wishes to sell any or all of the Consideration Shares, Magna will have the option to arrange the purchaser of such shares until Timmins and its affiliates collectively hold less than 9.9% of the Common Shares on an undiluted basis."

"Magna expects to conclude an ongoing arbitration process with a prior mining contractor that is related to operations at the San Francisco Mine. Discussions between Magna and the contractor have been meaningfully advanced, and the Magna expects to come to a positive resolution in the near term."

"Completion of the Acquisition is subject to a number of customary conditions, including receipt of all regulatory approvals and the acceptance of the TSX Venture Exchange."

"The Acquisition is expected to close at the end of March, 2020."

4.3 MEXICAN MINING LAW

When the Mexican mining law was amended in 2006, all mineral concessions granted by the Dirección General de Minas (DGM) became simple mining concessions and there was no longer a distinction between mineral exploration or exploitation concessions. A second change to the mining law resulted in all mining concessions being granted for a period of 50 years, provided that the concessions remained in good standing. As part of the second change, all former exploration concessions which were previously granted for a period of 6 years became eligible for the 50-year term.

For any concession to remain valid, the bi-annual fees must be paid and a report has to be filed during the month of May of each year which covers the work conducted during the preceding year. Concessions are extendable, provided that the application is made within the five-year period prior to the expiry of the concession and the bi-annual fee and work requirements are in good standing. The bi-annual fee, payable to the Mexican government to hold the group of contiguous mining concessions for the San Francisco operations is USD 604,710. The bi-annual fee to hold the group of contiguous mining concessions which comprise the regional mineral property is USD 205,327.

Mineral Concession	Title	Owner	Location	Mineral	Area		Expiry Date	Bi-Annual
Name ¹	Number		(UTM Nad 27 Mex)	Concession Type	(hectares)	Date		Fee (USD) ^{2,3}
Norma Reduccion	229257	Molimentales del Noroeste, S.A de C.V	452,096,625 E 3,365,740.855 N	Mining Concession	4,989.0250	March 28, 2007	March 27, 2057	90,000
Patricia	229241	Molimentales del Noroeste, S.A de C.V	423,787.078 E 3,333,878.085 N	Mining Concession	3,539.4141	March 27, 2007	March 26, 2057	63,500
Los Carlos	227334	Molimentales del Noroeste, S.A de C.V	423,787.078 E 3,333,878.085 N	Mining Concession	9.0000	March 5, 2002	March 4, 2052	162
Los Carlos 2	215707	Molimentales del Noroeste, S.A de C.V	423,787.078 E 3,333,878.085 N	Mining Concession	93.3800	March 4, 2002	March 5, 2052	1,675
Los Carlos 3	225423	Molimentales del Noroeste, S.A de C.V	423,787.078 E 3,333,878.085 N	Mining Concession	177.6907	September 6, 2005	September 5, 2055	3,200
Dulce	228428	Molimentales del Noroeste, S.A de C.V	472,205,063E 3,348,823,297N	Mining Concession	150.0000	November 22, 2006	November 21, 2056	2,690
Dulce I	240007	Molimentales del Noroeste, S.A de C.V	503,058.158 E 3'384,863.624 N	Mining Concession	4,325.6836	March 29, 2012	March 28, 2062	44,100
Total:	-	-	-	-	13,284.1934		-	205,327

Table provided by Alio Gold Inc.

Notes

¹ During 2015 and 2016, a number of the claims to the northwest of the existing operation that comprised the regional exploration area were dropped but the claims containing the most significant exploration targets were maintained.

² Fees are estimated in US dollars based on the rates published in the "Diario Oficial de la Federacion (DOF)". The exchange rate used is 19 pesos = 1 US Dollar.

³ The table includes payment for both semesters of 2020, the first semester has already been paid by Alio and the payment for the second semester in July, 2020 will be paid by Magna.

INTERNATIONAL LIMITED | consultants

Figure 4.3 San Francisco Project Regional Mineral Concessions Map

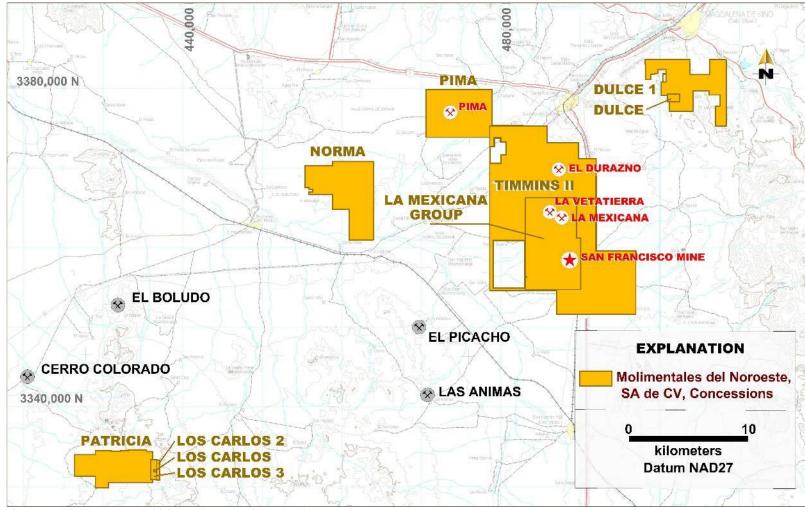


Figure provided by Magna Gold Corp. Figure dated March, 2020.



All mineral concessions must have their boundaries orientated astronomically north-south and east-west and the lengths of the sides must be one hundred metres or multiples thereof, except where these conditions cannot be satisfied because they border on other mineral concessions. The locations of the concessions are determined on the basis of a fixed point on the land, called the starting point, which is either linked to the perimeter of the concession or located thereupon. Prior to being granted a concession, the company must present a topographic survey to the DGM within 60 days of staking. Once this is completed the DGM will usually grant the concession.

4.4 PERMITTING AND ENVIRONMENTAL

Since the San Francisco Project is located on a number of concessions upon which mining has previously been conducted, all exploration work continues to be covered by the environmental permitting already in place and no further notice is required to be given to any division of the Mexican government. The specific environmental permitting of the San Francisco Mine site was obtained in December, 2007, via an environmental assessment, and it is valid for the duration of the seven mining concessions that comprise the mine, provided that Molimentales keeps the permitting in good standing. Water for any drilling programs at the San Francisco Project is obtained from the on-site water wells.

Micon is unable to comment on any remediation which may have been undertaken by previous owners. Environmental studies and permitting by Alio for its San Francisco Project are discussed in Section 20 of this report. Magna has not completed any further environmental studies and permitting as of the date of this report.



5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

This Section has been extracted from the May 25, 2017, Technical Report completed by Micon for Alio and updated with further information if applicable.

5.1 ACCESSIBILITY

The San Francisco property is readily accessible from Hermosillo, the state capital of Sonora, via Mexican State Highway 15 (Pan American Highway). The property is 150 km north of Hermosillo and is 120 km south of the United States/Mexico border city of Nogales, also on Highway 15. The San Francisco Mine site is 2 km west of the town of Estación Llano. The major population centre for the region is Magdalena de Kino (Magdalena) to the north, with a population of over 50,000 inhabitants. Figure 5.1 is a view of the San Francisco Mine from Highway 15 driving south towards Hermosillo.



Figure 5.1
San Francisco Mine as Viewed from Highway 15 Driving South from Santa Ana

Photograph taken during the May, 2017 Micon site visit.

The mineral concessions are located approximately due west and north of Estación Llano, with the closest accommodations being in Santa Ana, a small city located to the north on Highway 15.



5.2 LOCAL RESOURCES AND INFRASTRUCTURE

Alio maintains guarded gates across the access road to the mine and immediate Project area. Exploration can be conducted throughout the year, with the desert monsoon season occurring between July and September. Materials needed to supply the mine are transported by either truck (utilizing Mexican State Highway 15) or by rail (utilizing the Ferrocarril del Pacifico railway), both of which pass through the community of Estación Llano.

Alio has been granted the temporary occupation of surface rights at the San Francisco Mine by the DGM for the duration of the exploitation concessions. In the case of an exploration concession, the holder is granted temporary occupancy for the creation of land easements needed to carry out exploration for the duration of the mineral concession. In order to commence mining, the holder of the concession is required to negotiate the surface rights with the legal holder of these rights or to acquire the surface rights through a temporary expropriation. The current surface rights are more than adequate to cover the infrastructure, mining and stockpile areas needed for the life of the Project.

Water for the drilling programs is available from three wells located on the mine site. The water table in the area of the mine is approximately 25 m below the surface. A typical water well is shown in Figure 5.2.



Figure 5.2
View of a Water Well Located on the San Francisco Project

Photograph taken during the 2017 Micon site visit.

The surrounding cities and towns supply the majority of the workers, with the professional staff coming from other parts of Mexico.

The site contains all of the necessary infrastructure to maintain and operate the equipment and mine.



5.3 CLIMATE AND PHYSIOGRAPHY

The Project is located in the Arizona-Sonora desert in the northern portion of the Mexican state of Sonora. The climate at the Project site ranges from semi-arid to arid. The average ambient temperature is 21°C, with minimum and maximum temperatures of -5°C and 50°C, respectively. The average annual rainfall for the area is 330 mm, with an upper extreme of 880 mm.

The wet season or desert monsoon season is between July and September and heavy rainfall can hamper exploration at times.

The San Francisco property is situated within the southern Basin and Range physiographic province, which is characterized by elongate, northwest-trending ranges separated by wide alluvial valleys. The San Francisco mine is located in a relatively flat area of the desert with the topography ranging between 700 and 750 m above sea level.

The desert vegetation surrounding the San Francisco mine is composed of low lying scrub, thickets and various types of cacti, with the vegetation type classified as Sarrocaulus Thicket. The state of Sonora is well known for its mining and cattle industries, although US manufacturing firms have moved into the larger centres as a result of the North American Free Trade Agreement (NAFTA). See Figure 5.3 for a view of the desert surrounding the San Francisco Project, between the distant hills, as viewed driving south towards the project from the community of Santa Ana.



Figure 5.3
View of the Sonora Desert Surrounding the Property

Photograph taken during the 2017 Micon Site Visit.



6.0 HISTORY

This Section has been extracted from the May 25, 2017, Technical Report completed by Micon for Alio and updated with further information, if applicable.

6.1 SAN FRANCISCO PROPERTY AND GOLD MINE

6.1.1 General History Prior to Alio Ownership

The San Francisco Mine is a heap leach operation which was in production originally between 1995 and 2002. However, during the last two years of operation, gold was being recovered from the leach pads only, with no mining being conducted from the San Francisco and La Chicharra open pits.

Placer mining and small scale underground mining began in the San Francisco Mine area during the early 1940s. This limited work drew Fresnillo to the area in 1983. In 1985, three diamond drill holes and 30 conventional percussion drill holes were completed on the property. The results of these drill holes were encouraging enough to warrant additional diamond drilling during 1986. In 1987, 540 m of underground development was conducted, including a decline and a number of drifts and cross-cuts. The decline was completed to the 685 m elevation above sea level, where numerous 1.8 by 1.5 m drifts and cross-cuts were developed. Fresnillo drilled 10 diamond drill holes and 25 reverse circulation drill holes in 1988, and an additional 226 reverse circulation holes in 1989. Metallurgical testing and an induced polarization survey were also completed in 1989. In 1990 and 1991, Fresnillo completed an additional 108 reverse circulation drill holes. See Figure 6.1 for an example of one of the rotary drill site locations southeast of the main pit.

Fresnillo decided to sell the property in 1992, at which time it was acquired by Geomaque. As part of the Geomaque purchase, Fresnillo retained a 3% NSR royalty and the option to reacquire a 50% interest by paying Geomaque twice the amount which it had expended. Geomaque completed a feasibility study in 1993 and drilled a further 69 reverse circulation drill holes in 1994. Geomaque acquired the NSR royalty and option back from Fresnillo in 1995 for USD 4,700,000.

Geomaque conducted its activities in Mexico through its subsidiaries, Geomaque de Mexico, S.A. de C.V. (Geomaque de Mexico) and Mina San Francisco, S.A. de C.V. (Mina San Francisco).

Geomaque began construction of the San Francisco Mine in 1995, with production beginning late in that year. Production began at the rate of 3,000 t/d of ore or 30,000 oz/y of gold. As a result of the discovery of additional reserves, an expansion of the mining fleet, crushing system and gold recovery plant was undertaken in an effort to increase production to 10,000 t/d of ore. Due to the prevailing market conditions in February, 2000, Geomaque announced a revised mine plan whereby higher grade ore with a lower stripping ratio would be mined from the San Francisco pit and the La Chicharra deposit, which is located west of the San Francisco pit.



The San Francisco area contained the El Manto, the San Francisco, the En Medio and the El Polvorin deposits. All of these deposits were later incorporated into the main San Francisco pit. The La Chicharra zone was mined during the last two years of production as a second pit.

Figure 6.1
Location of One of the Rotary Drill Sites Located to Southeast of the Main Pit

Photograph was taken during the 2005 Micon site visit.

Mining ended and the operation entered into a leach-only mode in November, 2000. In May, 2002, the last gold pour was conducted, the plant was mothballed, and clean-up activities at the mine site began. See Figure 6.2 for a photographic overview of the San Francisco pit and leach pad taken from a hill to the southwest of the mine site prior to the current phase of production. Much of the foreground now is within the limits of the pit.

In 2001, to settle debts related to lease arrangements of construction equipment to Geomaque de Mexico, Butler Machinery Co. (Butler) accepted a payment of USD 500,000, the proceeds in excess of USD 500,000 on the sale of certain equipment from the San Francisco Mine and a 1% net smelter return (NSR) royalty on any future gold production from the unmined resources in the main pit of the San Francisco Mine. No present value was ascribed to the rights at the time of the agreement. Micon has been advised by Alio that the agreement between Geomaque and Butler has ended and that it has received an opinion that the property was transferred to Molimentales free of any royalties. It is the opinion of Alio's solicitors that Alio has free and clear title to the equipment on the property and no obligations to pay any NSR royalties.



Figure 6.2
View of the San Francisco Gold Mine with Estación Llano in the Background (Looking Northeast)



Photograph was taken during the 2005 Micon site visit.

Geomaque signed a Surface Rights Agreement with a group of rights holders (the Ejido Jesus Garcia Heroe De Nacozari (Ejido Jesus Garcia)). Based on a letter agreement dated July 7, 1999, the Ejido Jesus Garcia agreed to transfer to the company a surface area of 800 ha, for a total consideration of USD 1,000,000, of which USD 75,000 was due and payable on signing of the agreement. The letter agreement and its efficacy were the subject of litigation between Geomaque and the Ejido Jesus Garcia, whereby the company sought to have the agreement declared void, its deposit returned and other remedies, and the Ejido Jesus Garcia sought to have the agreement held effective and sought, inter alia, the payment of the balance of the purchase price and other relief.

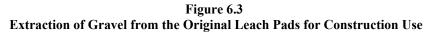
In the summer of 2003, Geomaque sought and received shareholder approval to amalgamate the corporation under a new Canadian company, Defiance Mining Corporation (Defiance).

On November 24, 2003, Defiance sold its Mexican subsidiaries, Geomaque de Mexico and Mina San Francisco, to the Astiazaran family and their private Mexican company for a total consideration of USD 235,000. The Mexican subsidiaries held the San Francisco gold mine and the sale relieved Defiance of long-term liabilities totalling USD 1,900,000, including a



USD 925,000 surface rights purchase obligation, approximately USD 760,000 in reclamation provisions and other payables totalling USD 263,000. The litigation of the surface rights between the Ejido Jesus Garcia and Geomaque de Mexico was settled in favour of Geomaque de Mexico on January 20, 2005. Geomaque de Mexico was granted by the DGM the temporary occupation of surface rights at the San Francisco Mine for the duration of the exploitation concessions.

Since June, 2006, the Astiazaran family and their company, Desarrollos Prodesa S.A. de C.V. (Prodesa) have retained ownership of the waste dumps and the original leach pads, and have been extracting sand and gravel intermittently for use in highway construction and other construction projects. Figure 6.3 is a view of gravel extraction from the original leach pads at the San Francisco Mine site in 2005. The reprocessing and extraction of sand and gravel material has continued from the original leach pads and was ongoing during the 2013, 2016 and 2017 site visits.





Photograph taken during the 2005 Micon site visit.



6.1.2 Alio Incorporation and Ownership of the San Francisco Project

Alio was incorporated as Timmins Gold Corp. on March 17, 2005 under the Business Corporations Act of British Columbia. Alio originally acquired the exploitation concessions covering the San Francisco Project through its wholly-owned Mexican subsidiary, via an option agreement with Geomaque de Mexico on April 18, 2005. That option agreement was subsequently superseded by an acquisition agreement. Initially, Alio had the option to earn a 50% interest in the exploitation concessions by spending USD 2,500,000 on exploration and development over a two-year period and, after Alio had earned its interest, the property would be operated as a joint venture with Alio as the operator.

In a press release dated March 19, 2007, Alio announced that it had agreed to increase its interest from 50% and had entered into an agreement to acquire a 100% interest in Molimentales, a company specifically formed to own 100% of the past producing San Francisco Mine.

On October 29, 2007, Alio announced, in a press release, that it had paid the full and final USD 2.5 million to complete the acquisition of the San Francisco Mine.

On March 23, 2011, Alio announced that its common shares were, as of that date, listed for trading on the Toronto Stock Exchange (TSX) and delisted from the TSX Venture Exchange (TSX-V).

On November 1, 2011, Alio announced that its common shares would be listed for trading on the NYSE Amex under the ticker symbol TGD as of November 4, 2011. It also noted that the shares would continue to trade on TSX.

On May 12, 2017, Alio announced that its shareholders had approved its name change from Timmins Gold Corp. to Alio Gold Inc.

6.2 HISTORICAL RESOURCE AND RESERVE ESTIMATES

6.2.1 Pre-2005 Historical Mineral Resource Estimates

In 2005, when Alio acquired the San Francisco Mine Project, it contained a historical 2001 mineral resource estimate completed by Geomaque prior to closing the mine for economic reasons. There was no Technical Report in relation to this resource estimate. It was based upon the lateral and depth extensions of the mineralization previously mined from the San Francisco pit and was derived from a number of drill holes which intersected this mineralization.

Alio used this mineral resource as the basis of its acquisition of the project in 2005 and then proceeded to conduct a program of compilation work and further exploration to verify the mineralization as outlined by Geomaque. The exploration and verification work allowed Alio to conduct an updated resource estimate that superseded 2001 Geomaque estimate.



6.2.2 2018 Historical Mineral Resource and Reserve Estimates

In a news release dated August 10, 2018, Alio reported the Mineral Reserves and Mineral Resources as of July 1, 2018 for the San Francisco Mine. The following information regarding the 2018 mineral resources and reserves has been extracted from the press release as follows:

"The Mineral Reserve estimates at San Francisco from April 1, 2017 was updated as of July 1, 2018 utilizing the latest available information, including mining depletion over the period and in-fill and grade-control drilling carried out as part of the mining operations during the period. Mining depletion of Mineral Reserves was partly offset by expansion of the reserves in Phases 6 through 9 of the San Francisco Pit. Total proven and probable mineral reserves totaled 854,472 ounces of gold (55.5 million tonnes at 0.49 g/t) as of July 1, 2018, an approximate decrease of 74,228 ounces of gold or 8% from April 1, 2017."

"Alio Gold Reserve and Resource Reporting Notes as of July 1, 2018:

- 1. All Mineral Reserves and Mineral Resources have been calculated in accordance with the standards of the Canadian Institute of Mining, Metallurgy and Petroleum and National Instrument 43-101, or the AusIMM JORC equivalent.
- 2. All Mineral Resources are reported inclusive of Mineral Reserves.
- 3. Mineral Resources which are not Mineral Reserves do not have demonstrated economic viability.
- 4. Mineral Reserves are estimated using appropriate recovery rates and USD commodity prices of \$1,250 per ounce of gold.
- 5. Mineral Resources are estimated using USD commodity prices of \$1,350 per ounce of gold."

"Scientific and technical information contained in this news release with respect to the San Francisco Mine was reviewed and approved by Jorge Lozano, a "qualified person" as defined by National Instrument 43-101 — Standards of Disclosure for Mineral Projects ("NI 43-101"). Information regarding data verification, surveys and investigations, exploration information, quality assurance programs and quality control measures, and a summary of sample analytical or testing procedures for the San Francisco Mine are contained in the Company's annual information form for the year ended December 31, 2017, dated March 14, 2018, and filed on SEDAR at www.sedar.com and EDGAR at www.sec.gov (the "AIF"). Also included in the AIF is a description of the key assumptions, parameters and methods not included in this news release that are used to estimate mineral reserves and resources and a general discussion of the extent to which the estimates may be affect by any known environmental, permitting, legal, title, taxation, socio-political, marketing or other relevant factors."



"Mineral resources which are not mineral reserves do not have demonstrated economic viability. With respect to "indicated mineral resource" and "inferred mineral resource", there is a great amount of uncertainty as to their existence and a great uncertainty as to their economic and legal feasibility. It cannot be assumed that all or any part of a "measured mineral resource", "indicated mineral resource" or "inferred mineral resource" will ever be upgraded to a higher category."

Table 6.1 summarises the mineral resources and reserves from the August 10, 2018, Alio Press Release.

Magna has stated that it considers the July 1, 2018 Alio mineral resources and reserves to be historical and made the following statement in its March 6, 2020 Press Release:

"The Mineral Reserves and Mineral Resources estimates were reported by Alio in its news release dated August 10, 2018, available under Alio's SEDAR profile at www.sedar.com. Mineral Reserves and Mineral Resources were prepared by Alio in accordance with National Instrument 43-101 – Standards of Disclosure for Mineral Projects ("NI 43-101") under the supervision of a qualified person. The most recent NI 43-101 technical report on the San Francisco Mine was filed by Alio on May 25, 2017, with an effective date of April 1, 2017, and is available under Alio's SEDAR profile at www.sedar.com. The Mineral Reserves and Mineral Resources noted above are historical estimates and a qualified person has not done sufficient work on behalf of Magna to classify the historical estimate as current Mineral Resources or Mineral Reserves and Magna is not treating the historical estimate as current Mineral Resources or Mineral Reserves. Although Magna is not treating this information as current estimates, it believes Alio's work is reliable and that the information, which was made publicly available by Alio, may be of assistance to investors. The Company intends to review all project data, validate data quality, create a new geological model and then make an updated resource estimate in the upcoming months. As well, the Company will be reviewing metallurgical information and key economic parameters in order to evaluate the potential economics of an open pit gold mine and heap leach extraction facility."

"Operational Improvement Plan"

"Following closing of the Acquisition, Magna intends to execute a mine operational improvement plan that will include a full review and update to (i) the mine design and production plan, (ii) metallurgy and processing, (iii) workforce management, and (iv) local and regional exploration. Based on Magna's review to date, the Company believes it can re-commence mining operations in the near term with the goal of establishing profitable mining operations."

"Magna will provide additional details with respect to the mine operational improvement plan following the closing of the Acquisition. The mine operational improvement plan will be supported by a preliminary economic assessment, prefeasibility study or feasibility study."

Table 6.1 San Franciso Project – Historical Reserves and Resources as of July 1, 2018

	Proven			Probable			Proven & Probable		
Mineral Reserves	Metric Tonnes	Au g/t	Contained Au Ounces	Metric Tonnes	Au g/t	Contained Au Ounces	Metric Tonnes	Au g/t	Contained Au Ounces
San Francisco	17,757,023	0.518	273,741	23,359,785	0.540	405,239	41,116,808	0.514	678,980
La Chicharra Pit	5,328,803	0.522	89,489	1,835,220	0.437	25,804	7,164,023	0.501	115,292
Total	23,085,826	0.489	363,230	25,195,005	0.532	431,043	48,280,831	0.512	794,272
Low-grade stockpile	7,199,000	0.260	60,200				7,199,000	0.260	60,200

Mineral Resources	Measured			Indicated			Measured & Indicated		
	Metric Tonnes	Au g/t	Contained Au Ounces	Metric Tonnes	Au g/t	Contained Au Ounces	Metric Tonnes	Au g/t	Contained Au Ounces
San Francisco	33,041,153	0.547	580,545	38,485,816	0.557	688,856	71,526,969	0.552	1,269,403
La Chicharra Pit	6,674,718	0.550	118,028	6,019,509	0.500	96,766	12,694,227	0.526	214,794
Total	39,715,871	0.547	698,574	44,505,325	0.549	785,621	84,221,196	0.548	1,484,197

	Inferred						
Mineral Resources	Metric Tonnes	Au g/t	Contained Au Ounces				
San Francisco	1,725,608	0.528	29,293				
La Chicharra Pit	222,238	0.462	3,301				
Total	1,947,846	0.520	32,594				

Figures may not total due to rounding



Micon and its QPs also consider that Alio's mineral resources and reserves are historical for the purposes of Magna's transaction with Alio and Timmins. Micon and its QPs believe that Magna's review of the geological model and the underlying data in the coming months will allow it to provide an updated resource and reserve estimate for the San Francisco Project. Micon and its QPs have not conducted sufficient work at this time to classify the historical estimate as current mineral resources and reserves. Once Magna has conducted its review of the geolgical models and underlying supporting data, Micon believes that Magna will be able to provide an updated mineral resource and reserve estimate for the San Francisco Project.

6.3 PRODUCTION FROM THE SAN FRANCISCO PROJECT

6.3.1 Historical Production

6.3.1.1 Historical Production from 1996 to 2002

Historical production occurred at the San Francisco gold mine between 1996 and 2002. Production was conducted using open pit mining methods, with gold recovered by heap leaching. During this production phase, the San Francisco Mine extracted 13,490,184 t at a grade of 1.13 g/t gold for a total of 488,680 contained ounces of gold (Table 6.2). A total of 300,281 oz gold and 96,149 oz of silver were recovered, with the gold recovery estimated to be 61.4%.

Table 6.2 San Francisco Project, Geomaque Annual Production 1996 to 2002

Year	Dry Crush on Pads (t)	Grade (g/t)	Ounces on Pad	Gold/Silver Ounces Doré	Gold Ounces Doré	Gold Recovered (%)
1996	1,735,550	1.32	73,655	46,787	36,127	49.0
1997	2,288,662	1.12	82,412	75,847	54,519	66.2
1998	3.074,902	1.05	103,803	86,940	58,808	56.7
1999	3,010,639	1.14	110,345	98,726	64,371	58.3
2000	3,380,431	1.09	118,465	104,953	69,100	58.3
2001					17,092	
2002					264	
Total	13,490,184	1.13	488,680		300,281	61.4

Note: 301,893 tonnes of mineral and 975,900 tonnes of waste rock were mined in 1995.

Table taken from the 2006 San Francisco Scoping Study by Sol & Adobe Ingenieros Asociados S.A. de C.V.

Other mines or exploratory shafts within the district are El Durazno (gold/silver), El Aguaje (gold), El Jabali (manganese), La Jarra (gold), El Refugio (gold), Caracahui (copper/gold), Sonora Copper (copper/gold), Las Animas (gold/copper), La Colorada (gold), Libertad (gold) and La Chicharra (placer gold). Production statistics for these mines or exploratory shafts are unavailable and in some cases there is very little published data on these workings.

6.3.1.2 Historical Production from April, 2010 to 2019

A table of the historical production by Alio from April, 2010 to 2019 is contained in Section 16 of this report where is also a discussion of the mining conducted by Alio.



7.0 GEOLOGICAL SETTING AND MINERALIZATION

The information for this Section was extracted from the May 25, 2017, Technical Report. As there have been no changes since the date of that Technical Report the information is still valid to be used in this Report.

7.1 REGIONAL GEOLOGY

The following descriptions of the regional geology were extracted from Prenn (1995):

"The San Francisco property is situated in a belt of metamorphic rocks that hosts numerous gold occurrences along the trace of the Mojave-Sonora megashear, which trends southeast from south-central California into Sonora. The megashear is a left-lateral transform fault which became active during the Jurassic period and exhibits up to 800 km of displacement. Deformation along the megashear occurred along with metamorphism (Calmus et al, 1992) and since the formation of the megashear the area has been subjected to both tectonic compressional and tensional forces."

"The following description is extracted from Silberman (1992). The northwesttrending range-front faults and numerous low-angle shear zones related to thrust or detachment faults are the most common structures. The Mojave-Sonora megashear as defined by Silver and Anderson (1974) is a regional northwesttrending feature. It separates the Precambrian basement rocks of slightly differing ages. The Jurassic rocks which occupy the zone are strongly deformed along lowangle thrust faults and the associated sedimentary rocks are tightly folded. The south-western boundary of the megashear appears to be a major fault that juxtaposes Precambrian basement rocks against the Jurassic magmatic terrane (Anderson and Silver, 1979). Up to 800 km of left lateral movement has been proposed for this shear after the Middle Jurassic period. Others (Jaques et al., 1989) have suggested that the megashear is a Cretaceous thrust front reactivated as a middle Tertiary detachment. The metamorphism in the area has been postulated to have occurred with the megashear or the magmatic activity of the Middle to Late Jurassic periods (Tosdal et al, 1989). However, others propose a close relationship between deformation and the closing of the marginal basin after its subduction below the volcanic arc, or the result of Late Cretaceous or Tertiary compression associated with uplift and low-grade metamorphism (De Jong et al, 1988). Calmus (1992) believes it is unquestionable that a Cretaceous-Tertiary (Larimide) tectonic event occurred but that it is superimposed upon older Nevada and Lower Cretaceous compressional and extensional phases. Many of the Sonoran gold deposits are located at or near the Mojave-Sonora megashear."



The Basin and Range province, which extends into Sonora from the United States, is characterized by northwest-trending valleys and ranges. Paleozoic rocks, including quartzite and limestone, overlie the Precambrian locally. The valleys are covered and in-filled by recent gravels. See Figure 7.1 for the regional geology map of the San Francisco Mine area and location of the San Francisco and La Chicharra pits.

7.2 PROPERTY GEOLOGY

The San Francisco property lies in a portion of the Mojave-Sonora megashear belt characterized by the presence of Precambrian to Tertiary age rocks represented by different grades of deformation and metamorphism as evidenced in the field by imbricate tectonic laminates. The rocks principally involved in the process of deformation and associated with the gold mineralization in the region are of Precambrian, Jurassic and Cretaceous age.

The oldest rocks within the property are a package of metamorphic rocks which include banded quartz-feldspathic gneiss and augen gneiss, green schist, amphibolite gneiss and some amphibolite and marble lenses (Calmus et al., 1992). All metamorphic rocks exhibit foliation which generally varies in strike direction from between 30° to 72° west and dips to the northeast from 24° to 68°. See Figure 7.2 for a geological map of the San Francisco and La Chicharra mine site.

The metamorphic rocks are intruded by a Tertiary igneous package, which includes leucocratic granite with visible feldspar and quartz, and is porphyritic to gneissic in texture. It appears that the granite was emplaced along low angle northwest-southeast shear zones in the system which developed between an older gabbro and the metamorphic sequence. This is the reason that in some places the granite bodies appear as stratiform lenses that vary in width from centimetres to more than 40 m and are subparallel to the foliation. It is seen, however, that the emplacement of leucocratic granite also favours the N30°W fault system, causing the granite to take an elongated form, principally in direction N60°W, but with extensions along the N30°W system.

Besides the gabbro and the granite, dikes of different composition, including diorite, andesite, monzonite and lamprophyre, intrude the metamorphic sequence. In addition, lenses of pegmatite associated with the schist have been mapped, emplaced along the foliation planes, occasionally forming lenses within the gabbro and within the gneiss and on the border of the leucocratic granite bodies. All of the rocks described above form the San Francisco unit which is the most important unit for exploration, with the leucocratic granite being especially significant because it is the primary host rock for gold mineralization.

Mapping of isolated outcrops and their geological interpretation demonstrates that the San Francisco unit is extensive within the property, covering a surface area of approximately 100 km². The unit hosts at least 15 gold occurrences which are considered to be favourable exploration targets, in addition to the known San Francisco and La Chicharra gold deposits



Figure 7.1 Geology of the San Francisco Property

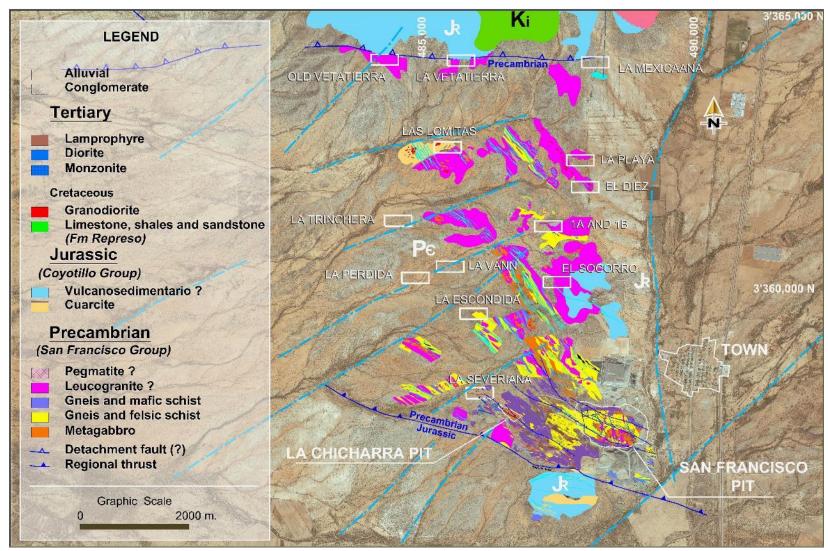


Figure provided by Alio Gold Inc. Figure dated May, 2017.



Figure 7.2 San Francisco and La Chicharra Minesite Geology Map

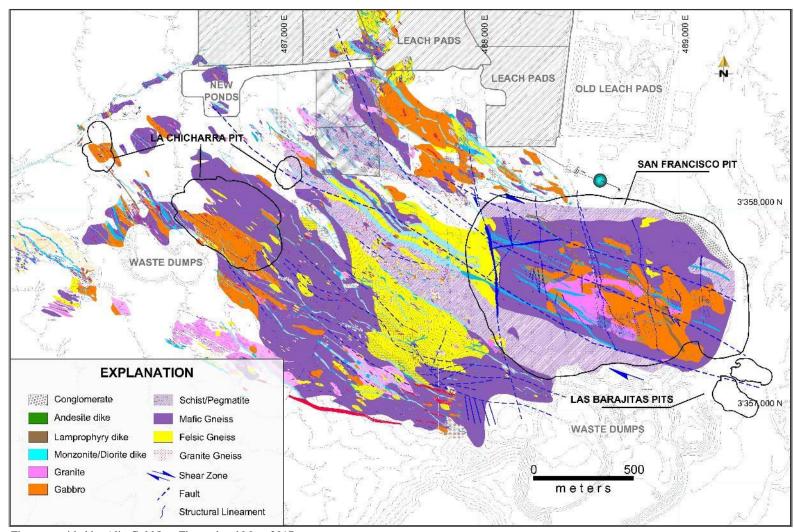


Figure provided by Alio Gold Inc. Figure dated May, 2017.



In the north and south, the San Francisco unit is in contact with the Coyotillo unit which is a weakly metamorphosed package of sandstone, quartzite, phyllite, conglomerate, volcanics and limestones of Jurassic age.

The granitic gneiss containing the mineralization at the San Francisco Project is intensely fractured with a total of five fracture sets having been identified, although there are only two primary sets. One of the primary sets strikes 36° to 60° east and dips northwest 70° to 90°, while the other strikes 64° to 73° west and dips northeast 46° to 66°. The regional fracture sets are generally parallel to major faults and perpendicular to foliation planes.

The main vein systems in the region strike 50° to 80° west with dips ranging from northeast to southwest. These vein systems are the San Francisco, La Playa, El Diez, La Chicharra, and several systems in the La Mexicana area, Area 1B and La Escondida. A secondary system of veins includes the La Trinchera, Casa de Piedra, unnamed veins in portions of Area 1B and the La Mexicana veins which strike 60° to 80° east and dip northwest to southeast. Although the age relation between the two systems is unknown, it is believed that the northeast system is probably later stage.

The metamorphic foliation in the San Francisco deposit primarily strikes 78° west and dips to the northeast at 68°. Regionally the foliation is variable, generally ranging from east-west to 60° west with varying dips to the northeast.

The original bedding is recognized in the metavolcanic-sedimentary rocks to the south at Cerro La Bajarita, and is variable with strikes ranging from 70° to 80° west and dips to the north. The sedimentary beds of the Represo Formation in the northern portion of the property strike 60° to 70° west and dip to the northeast.

Dikes of intermediate composition in the Project area strike predominantly 63° west and dip to the northeast at 58°. Several dikes are intruded along planes of foliation, and others cut foliation of the metamorphic units. In the Sierra La Vetatierra mountains in the northern portion of the Project, dikes strike 60° to the east, dip to the northwest, and represent a later system of fractures.

Metamorphic folds, including isoclinal, open symmetrical and kink folds, have been described, but no systematic description of folds has been found in the literature.

7.2.1 Geology of the La Chicharra Pit

The La Chicharra pit is located 2 km west of the San Francisco pit. Discovered by Geomaque in the late 1990's, it is estimated that approximately 37,000 oz of gold were extracted and processed during Geomaque's last year of operations.

The discovery of this deposit was the consequence of exploration programs comprised of magnetic ground surveys and soil geochemistry, using both conventional soil sampling and mobile metal ion (MMI) techniques. In both cases, samples returned very high values for the



main mineralized zone in an area of low magnetics. Trenches were excavated to conduct chip sampling which confirmed the presence of gold mineralization in the bedrock and drilling delineated a deposit with a resource of 60,000 to 70,000 oz of gold.

The geology of the La Chicharra deposit, although it is hosted in the San Francisco group, differs from the geology found in the San Francisco pit (Figure 7.2). While the geology consists of quartz-feldspar gneiss, pegmatite, schist, granite and gabbro, the mineralization is hosted principally in gabbro. The gabbro has a very sheared appearance, almost like a breccia, comprised of large fragments with lenses of pegmatite between the fragments. Due to the shearing process, the blocks of gabbro are highly fractured and the fractures are filled with quartz veins and veinlets. The gold mineralization is hosted by the pegmatite lenses and in the veins and veinlets within the gabbro. The limits of the mineralized gabbro are very well delineated by the shear zones, at both the hanging wall and footwall. This geological control allowed for better operational planning during the exploitation by Geomaque.

The gabbro at La Chicharra is different from the gabbro bodies at the San Francisco Mine, as it contains no magnetic minerals which are generally produced by the destruction of the original minerals contained within the gabbro during the tectonic and mineralization processes. As well, due to strong shearing, the minerals are oxidized. The gabbro is a tabular body dipping to the northeast at approximately 30 to 40° and striking approximately 60° west, with the mineralization potentially open both along strike and down dip.

Alio completed a program of core drilling seeking the extension of mineralization down dip and along strike, and confirming continuity for the first 150 m from the northern limit of the pit, with the mineralization open in the northwest direction towards La Severiana.

Structurally, all of the metamorphic and igneous interpretation is based on the High Resolution Airborne Magnetics which indicate a regional lineament varying in direction from 60° to 30° to the west. The gold deposits are located in the southern portion on each side of this main lineament, and are related to the extension faulting of the system west-northwest and west-east. Other grassroots gold targets are located along this lineament, related to quartz veins with gold mineralization emplaced along the shear zones of the system to the west-northwest and east-west.

Figure 7.3 is a view of the La Chicharra pit looking towards the southwest and showing the lineament.

7.3 MINERALIZATION

The San Francisco property is located within the Sierra Madre Occidental metallogenic province which extends along western Mexico from the state of Sonora, south to the state of Jalisco. In the state of Sonora, the most important metal produced in the Sierra Madre province is copper, with the Cananea porphyry copper deposit being the most well-known. Gold and silver projects are next in importance and are hosted mainly in sedimentary rocks and brecciated volcanic domes.



Figure 7.3
La Chicharra Pit Looking Southwest showing the Lineament (Pit in 2005)

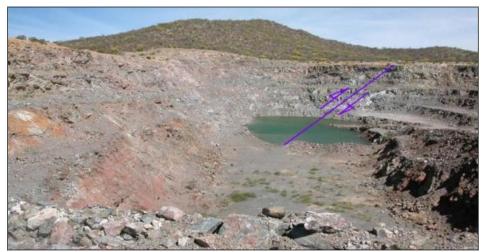


Figure provided by Alio Gold Inc.

At the San Francisco Project, gold occurs principally as free gold and occasionally as electrum. Gold is found, in decreasing abundance, with goethite after pyrite, with pyrite and, to a much lesser extent, with quartz, galena and petzite (Ag₃AuTe₂). Although it is clear that the gold was deposited at the same time as the sulphides, the paragenetic relationships are not well understood. There is the possibility that some secondary remobilization may have occurred as evidenced by minor amounts of gold occurring in irregular forms along with or on top of drusy quartz (Prenn, 1995).

The gold occurs in a granitic gneiss and the presence of pyrite (or goethite after pyrite) may be an indication of gold. Stockwork quartz veinlets, some with tourmaline, also exist in the mineralized zone. However, the presence of quartz, even with tourmaline, is not necessarily an indication of the presence of gold. Quartz veinlets with tourmaline but without gold mineralization were found hundreds of metres away from the San Francisco deposit. Alvarez (in Prenn, 1995) suggested that some tourmaline was part of the mineralizing system, but could be distinguished from the tourmaline found elsewhere.

The relationship between the quartz and tourmaline at the Project is not well understood, though at least one event is closely related to the gold mineralization. Calmus (1992) and Perez (1992) described the gold as being in quartz, acicular tourmaline, and albite veins and breccias. It was noted (Perez, 1992) that two types of tourmaline exist: schorl and dravite, but these are difficult to distinguish. There is some suggestion that a more greenish tourmaline is associated with the San Francisco zone while the black tourmaline (schorl) is generally barren of gold. If this can be verified, it could become a valuable exploration tool for the region. Horner (in Prenn, 1995) also noted the possibility of two or more types of tourmaline in the cobbles sampled in the stream beds. Horner believes that only one set of the tourmaline veins is associated with the gold and suggests that bismuth is also associated with one tourmaline quartz vein event.



Other metallic minerals associated with the deposit include trace to small amounts of chalcopyrite, galena, sphalerite, covelite, bornite, argentite-acanthite and pyrrhotite. Trace amounts of molybdenite and wulfenite have also been reported. Metal mineralization is low, with copper reaching into the hundreds of ppm, arsenic reaching about 100 ppm, and antimony rarely over 10 ppm. Petzite was recognized but tellurium values rarely reached 10 ppm. The mineral relationships, the possibility of associated tourmaline, and the style of mineralization suggest that the San Francisco deposit might be of mesothermal origin (see Prenn, 1995 for discussion). Others have suggested the same genesis based on these and other factors, including fluid inclusion studies (in Prenn, 1995).

The San Francisco deposits are roughly tabular with multiple phases of gold mineralization. The deposits strike 60° west to 65° west, dip to the northeast, range in thickness from 4 to 50 m, extend over 1,500 m along strike and are open ended. The San Francisco deposits consisted of the El Manto, the San Francisco, the En Medio and the El Polvorin deposits. All of these deposits were later incorporated into the main San Francisco pit. The El Manto deposit (north pit), to the north of the San Francisco (main pit), is tabular, strikes 65° west, dips relatively shallowly to the northeast, and ranges in thickness from 5 to 35 m. The En Medio (in the main pit north of San Francisco) strikes 60° west, dips to the northeast and varies in thickness from 4 to 20 m. The El Polvorin (west pit) is a northwest extension of the San Francisco mineralization which strikes 65° west, dips moderately to the northeast and ranges in thickness from 4 to 20 m.

Alteration related to the mineralization consists of negligible to locally intense sericitization, course-grained pyritization and rare local silicification. This alteration forms a halo extending a few metres from the mineral deposits, but may also be absent. Supergene alteration consisting of oxidation of pyrite to goethite is common. Additionally, there is supergene alteration of feldspar to kaolin and sericite.

Analysis by Geomaque of 110 samples in seven mineralized zones showed a silver/gold ratio of less than 1 to 10, with very low values of zinc, copper, molybdenum, bismuth, antimony and mercury. Lead is occasionally high, but not above 1% while gold shows a good correlation locally with arsenic and lead. However, none of the other elements is a good indicator for gold.

7.4 OTHER PROJECTS WITHIN THE SAN FRANCISCO PROPERTY

7.4.1 El Durazno Project

El Durazno is located approximately 12 km north of San Francisco Mine. The geology is dominated by the El Claro granitoid intrusion and sediments of the El Represo Formation. The El Claro intrusion is large mass of medium to fine biotite granodiorite intruded by series of monzonite, biotite granite, andesites, diorite and lamprophyre dikes trending northwest. The large mass of biotite granodiorite was dated by Poulsen et. al., (2008) using U-Pb in zircon giving an age of 66.0 ± 2.0 Ma.



The biotite granodiorite is cross-cut by multiple major high angle platy foliate structures trending to the northwest which contain quartz-tourmaline with minor sulphides and gold mineralization. The intrusive-hosted foliate structures can vary in thickness from a quarter metre to several metres. The structures are preferentially altered and mineralized, carrying sericite (greisen), pyrite, quartz and tourmaline. Where the structures are located, it is common to find signs of past prospecting, and they are geochemically anomalous in gold, silver, lead, tellurium, molybdenum and bismuth.

The main structural feature is the El Durazno fault which lies at the contact between the sedimentary rocks and biotite granodiorite. The foliated N60°W shear zones are more likely evidence of faulting along the east margin of the intrusive, although foliated shear zones have been found all around the intrusion in lesser abundance.

Mineralized areas usually occur as quartz veins relatively near the contacts of the El Claro intrusive and more often within the intrusive. The mineralogy of the veins is primarily quartz-tourmaline with a low sulphur content of less than 0.5%. Closer to the contact with the sediments, a number of quartz-sericite (greisen) veins in the more central parts of the intrusive have been identified. Structurally there are four groups of veins and veinlets within the granitoid El Claro:

- 1. One group of veins belongs to the thicker quartz-tourmaline veins in the area which occasionally reach widths greater than 1 metre, have a general N55°W trend and dip to the northeast similar to the monzonitic, diorite, lamprophyre and andesitic dikes. These veins are associated with ductile shear zones. The mineral lineation observed in the granite foliation plane has a strike of N50°W and the tourmaline crystals strike N52°W, indicating that emplacement of this first generation of veins is contemporary with the ductile deformation.
- 2. The second group of veins have thicknesses of less than half a metre, with a general strike of N40° to 50°E, and are also located in areas with ductile shear zones occurring mainly at the area known as El Pinto.
- 3. The third group of veins apparently are emplaced in a ductile-brittle deformation environment, developing sheeted veins with thicknesses less than one centimetre within the intrusive. The general trend of the sheeted veins is N15° to 25°W.
- 4. The fourth, poorly represented group of veins strike N65° to 80°E, are located primarily in the central part of the El Claro intrusive and are characterized by quartz-sericite (greisen)-pyrite, with a general trend of N60°W. This last type of veins is very poor in gold with local values up to 0.1 g/t Au, but with high anomalous values of tungsten and molybdenum.

The contact between the granite and Cretaceous sediments is characterized by the development of an alteration zone of quartz-epidote-chlorite-garnet skarn and locally forms low grade metamorphism of the hornfels type. Although quartz-gold-bearing veins are not very common in sediments, they occur locally in conjunction with a high content of sulphides.



7.4.2 Vetatierra Project

The Vetatierra Project is located approximately 8 km north of the San Francisco Mine. It is a very early stage exploration project and its geology is dominated by detrital sediments of the El Represo Formation, intruded by small stocks of fine grained dioritic intrusions and diorite dikes. A sequence of fine grained sandstones, shales, medium bedded conglomerates and locally lenticular limestones commonly trend east-west and dip to the north. These represent the majority of the rock types at the Vetatierra Project. This sequence is intruded by a diorite stock that covers an area of 600 m by 200 m, oriented to the northeast. Both sequences are cut by a series of dioritic dikes oriented NE 50° to 80° in strike direction. Locally, the contacts between the sediments and diorite intrusion develop an alteration halo, forming low grade metamorphic rocks as hornfels or slate types.

The sediments are cut by multiple, major high angle platy foliated structures, with a preferential northeast trend, at the southwestern portion of the project. The sediments host foliated structures that vary in thickness from a quarter metre to several metres which have been interpreted as shear zones. Low-angle brecciated faults have been interpreted to be located on the south side of this area. This has been interpreted as a possible structural contact between the San Francisco Precambrian rocks and the Cretaceous sediments of the Represo Formation.

The sequence of sediments and diorite stock has been cut by a number of quartz-tourmaline and quartz veins trending east-northeast, which occur within the diorite stock and all the surrounding areas. At least 3 groups of veins have been noted:

- 1. A group of low angle quartz-tourmaline veins trending west-northwest to east northeast, dipping to the north and varying in thickness from a centimetre to over a metre.
- 2. A group of high angle quartz-tourmaline veins and veinlets, trending northwest and dipping to north.
- 3. A group of veinlets with less than 1 cm thickness and trending northwest, but dipping to the south.

The diorite intrusion appears to be the most favourable rock to host the gold bearing quartz-tourmaline veins in the Project area, due the better reactivity and competency of the rock.

West of the diorite stock, a series of conglomerate lenses outcrop which show a strong silicification and oxidation, with local quartz veinlets. The conglomerate covers an area of 300 m by 150 m.



8.0 DEPOSIT TYPES

The information for this Section was extracted from the May 25, 2017, Technical Report. As there have been no changes since the date of that Technical Report the information is still valid to be used in this Report.

8.1 SAN FRANCISCO MINERAL DEPOSIT

At the San Francisco Project, Alio was targeting large volume, low grade disseminated gold deposits contained within leucocratic granite, granite-gneiss and gneiss and schist horizons. Leucocratic granite and gneiss are the main rocks hosting the gold mineralization.

The gold mineralization occurs in a series of west-northwest to east-northeast trending quartz-tourmaline veins and veinlets that lie sub-parallel to the local lithology and foliation trends, dipping to the southwest, within the more brittle rocks such as the leucocratic granite and more felsic lithologies within the Precambrian sequence. Extensive studies of the veins and alteration describe the mineralization as mesothermal/orogenic in style, but with a potential link to magmatic fluids and an intrusive source (Calmus et al., 1992; Luna and Gastelum, 1992; Perez Segura, 1992; Perezsegura et al., 1996; Perez Segura, 2008; Albinson, 1997; Poulsen and Mortensen, 2008).

Micon has conducted a number of discussions with Alio personnel during its prior site visits to the mine and in Hermosillo and notes that the exploration programs at the San Francisco Project were planned and executed on the basis of the deposit models discussed above. Micon has also observed the various stages of the drilling programs during a number of site visits at the San Francisco Project since 2005 and notes that those programs were always been conducted according to the deposit model which has been proposed for the Project.

Magna will continue to target the same or similar mineralization at the San Francisco Project that Alio did.



9.0 EXPLORATION

The information for this Section was extracted from the May 25, 2017, Technical Report with updated information to cover the period since that report was written.

Although Magna personnel are familiar with the San Francisco Project and its mineral deposits, Magna will propose further exploration once it has completed its review of the Project.

9.1 SUMMARY OF PRIOR EXPLORATION BY ALIO

In 2007 and early 2008, geochemical surveys were conducted over the area occupied by the package of igneous and metamorphic rocks within the concessions. A total of 222 chip samples and 2,697 soil samples were collected. The sampling covered an area of just over 60 km² using a sampling grid of 100 m x 50 m, oriented 25° E. Most of the area is covered by alluvium and the presence of the igneous-metamorphic package has been interpreted and defined from isolated outcrops distributed in the area (80 km²).

The results confirmed the targets already identified from historical shallow underground workings developed by former owners along quartz veins containing high gold values. Extending sampling along the dominant structural trend allowed for new interpretations to identify possible conduits which could be feeder zones. The area covering the favourable lithologic unit between the San Francisco and La Chicharra pits was broadly sampled to identify further potential targets.

During May, 2007, Alio contracted the Mexican Geological Service to survey 1,227 km of high resolution aeromagnetic lineaments and radiometry and acquired raw data for a further 1,569 km previously surveyed by the same institution which fully covered the surface of the property, over 40,000 ha. The resolution of the data varies due to the flight height, which ranged between 75 and 100 m, with the lines spaced every 100 m. Information sets were given to Engineering Zonge in Tucson for processing and interpretation.

The conclusion of this study was the definition of the indicative structural lineaments of the tectonic sequence in northern Sonora. For the San Francisco Project, these lineaments should be correlated with geological and geochemical controls, combined with geological mapping and geochemistry, to identify the best exploration targets for gold and other types of mineralization, particularly in the northern portion of property where the metamorphic package hosts the El Durazno and La Pima mineral areas which are favourable for silver deposits and base metals in a replacement environment within the limestone rocks.

With a view to a more detailed interpretation as mentioned by Zonge in its conclusions, a Natural Source Audio-Frequency Magnetotelluric (NSAMT) survey was completed on the San Francisco Mine along the lines 200E, 0, 800W, 1,000W, 1,200W, 1,400W, 1,600W and on the La Chicharra pit along the lines 2,500W and 2,700W. A total of 19.2 km of coverage in 10 survey lines with dipoles of 25 m was completed. Two lines were 2,400 m long and the remainder were 1,800 m.



Lines 800W and 1,000W oriented along the main mineralized zone in the San Francisco pit and line 2,700W on the main mineralized zone of La Chicharra were conducted with the aim of obtaining a geophysical signature for the mineral deposits of San Francisco.

The ten NSAMT lines completed on the San Francisco Project provide a detailed image of resistivity changes relating to geology in the vicinity of the San Francisco open pit mine. As this area is centred on a shear zone associated with a thrust fault, the geology is complex. Intrusive rocks are present as pegmatites, granites and gabbros. Gneiss and schist, with what is assumed to be various degrees of alteration, are also present in this zone. Rock property measurements indicate that the resistivities differ between rock types, ranging from intrusive to a metamorphosed host.

In the shear zone, gold is associated to some degree with granite, gneiss and gabbro rocks. Both the La Chicharra and the San Francisco pits are located in zones with conductive contacts, however, in contrast, these locations are associated with moderately resistive areas. This difference indicates that, while surface resistivities are high, there is differentiation between resistive rocks (intrusive) and more conductive rocks (pegmatite or altered rock) at moderate depth.

Individual 2-D vertical imaged sections suggest that resistive and conductive banding, identified in the vicinity of the San Francisco Mine, dips to the northeast. Recent drilling indicates that gold values are typically associated with pyrite in the more resistive intrusive rocks. Except possibly along contacts, conductive geology (possibly altered host rock) may not be important. The resistive trend coincident with the San Francisco peak may be due to the presence of gold in this area, but is not the focus of this Project. The shear zone associated with the thrust fault defines the area hosting gold.

The magnetic and radiometric data provide a different view of the geology. Magnetic high values are associated with the San Francisco pit. The contact between magnetic highs and magnetic lows appears to match the resistive trends identified previously. In contrast to the San Francisco pit, the La Chicharra pit is located in a zone of magnetic lows. The difference here could simply be due to the intrusive rock hosting primary gold values in each pit. For example, the rock properties demonstrate that the gabbro (at 550 uCGS) has over 100 times the magnetic susceptibility of granite (at 3 uCGS). However, drilling results along Line 800 suggest that both rock types may host gold. Based on these observations, it would be expected that the granite would be the primary source of gold in the San Francisco pit, with gabbro at the La Chicharra pit. Gneiss may host gold at either site.

Radiometric data identify trends that match changes in the Total Magnetic Field plan view map, as well as resistive-conductive trends. Radiometric gamma radiation is strongly controlled by conditions at the surface, as radiation from deeper sources is absorbed by overlying geology. The thorium gamma count appears to identify patterns of surface weathering that may relate to outcropping structures. Magnetic and radiometric data in the vicinity of the La Chicharra and San Francisco pits may be controlled by the thrust fault passing through this zone (the 2-D NSAMT imaged sections for Lines 800, 1,400 and 1,600 identify



similar contacts associated with this thrust fault, which dip to the northeast). While the San Francisco peak is centred between NSAMT Lines 1,400 and 1,600, the peak itself appears non-magnetic, with the peak and associated ridge, extending to the northwest, defining a boundary between non-magnetic rock (granite or pegmatite for example) to the southwest and more magnetic rock (gabbro and gneiss for example) to the northeast.

The San Francisco pit is clearly located within the magnetic high zone, positioned along a linear contact seen in the radiometric data. In contrast, the La Chicharra pit is located in a non-magnetic zone also positioned along a linear contact observed in the radiometric data. Both pit locations are within the area thought to be the shear zone, and locally in areas characterized by contacts between intrusive (more resistive) and possibly altered (more conductive) rock types. The NSAMT program successfully identified the shear zone and provided sub-surface imaging of geologic trends that have been identified by airborne magnetic and radiometric surveys, in the test area.

Alio has concluded that the interpretation of NSAMT is a useful indicator of the different lithologies associated with the mineralization or host rock. The linking of areas of high resistivity at the gabbro basement, together with the overlying metamorphic sequence that was affected by several phases of tectonism, resulted in large shear zones and/or thrusting of the Precambrian metamorphic rocks over younger rocks, without generating areas of weakness. This resulted principally in high and low angle faulting through which granite bodies have been emplaced, some of which were subjected to compression and tension and consequent fracturing.

At the end of 2008, the services of a structural geologist, Mr. Tony Starling Ph.D., were recruited to obtain a greater understanding of the structural evolution of the region and in particular the tectonic complex in the San Francisco Mine area, and thereby to define the structural controls for the mineralization. The goal of the study was to generate a series of geological and structural criteria that could be applied to the exploration of the property. The work consisted of 10 field days and a further 10 days for the review of existing information and discussions with field geologists. The conclusions from this structural report have assisted Alio in outlining subsequent exploration programs.

9.2 2013 TO 2015 EXPLORATION PROGRAMS (SAN FRANCISCO AND LA CHICHARRA DEPOSITS)

From July, 2013 to December, 2015, very little exploration was conducted around the San Francisco and La Chicharra deposits. This is primarily because Alio focused most of its exploration efforts on fully exploring the area immediately surrounding the pits prior to the publication of the 2013 Technical Report.

Table 9.1 summarizes the mine expenditures for the exploration programs at the San Francisco Project from July, 2013 to December, 2015.



Table 9.1 Summary of the Exploration Expenditures for the Period July, 2013 to December, 2015

Item	Concept	2013	2014	2015	Total
1	Salaries and consulting fees	831,109	2,025,395	1,250,788	4,107,292
2	Drilling	-	2,666,148	768,440	3,434,588
3	Surface rights	-	-	550,603	550,603
4	Mining taxes	39	870,650	887,930	1,758,619
5	Acquisition cost	-	-	-	-
6	Assaying	13,137	874,054	98,492	985,683
7	Exploration expenses	15,849	432,990	80,769	497,910
8	Camp and accommodation	7,685	18,037	21,878	47,600
9	Claim staking	-	-	-	-
10	Property investigation	-	-	-	-
11	Legal fees	14,186	30,291	18,918	63,395
12	Travel	21,282	43,055	14,265	78,602
13	Telecommunications	-	-	-	-
14	Drafting, reporting, reproduction and maps	-	-	-	-
15	Other	-	1,105	22,378	23,483
16	Office expenses	93,561	189,669	158,134	441,364
17	Engineering and feasibility	-	-	-	-
18	Equipment rental	-	-	-	-
19	Insurance and labor related taxes	-	-	-	-
20	Trenching and road work	-	-	-	-
21	Geophysical surveying	-	-	-	-
22	Promotion	-	-	-	-
24	Land	-	-	-	=
	Total per Year	965,150	7,151,394	3,872,595	11,989,139

Table provided by Alio Gold Inc.

While Table 9.1 generally appears to indicate an increase in exploration expenditures since 2013, it is only because the expenditures include the 2014 to 2015 in-fill drilling in the San Francisco pit, the 2014 condemnation drilling for the new leach cells, land use change fees for leach pads and southwest waste pads (USD 550,603), as well as the mining taxes for the concessions. In some instances, the in-fill pit and the condemnation drilling, land use change fees and land use mining taxes would not necessarily be considered exploration expenditures but rather mining expenditures related to grade control and infrastructure. However, when compared to the exploration expenditures of USD 39,498,426 for the period from July, 2011 to July, 2013, the reduction in exploration expenditures was actually substantial.

Details of the in-fill and condemnation drilling programs are outlined in Section 10.0 of this report.

Very little exploration has been conducted in the San Francisco and La Chicharra areas since 2015.



9.3 EL DURAZNO, VETATIERRA, 1B AREA AND LA PIMA PROJECTS

Alio had started to explore the other mineralized areas located on the San Francisco property. The El Durazno and Vetatierra Projects, located 12 km and 8 km north of the San Francisco mine, respectively, were first discussed in the previous 2013 Technical Report and portions are summarized here. The 1B Area and La Pima Projects are 3.2 km and 25 km north of the San Francisco Project, respectively.

9.3.1 El Durazno Project

The El Durazno Project is located approximately 12 km north of the San Francisco Mine and is contained within the confines of the San Francisco property. No exploration has been conducted at the El Durazno Project since the 2013 Technical Report was published.

The previous work from the 2013 Technical Report is summarized as follows:

Alio collected 1,611 soil samples from the Durazno Project; samples were collected on 100 m spaced stations on lines spaced 100 m apart. The samples consisted of between 0.5 and 1.0 kg of -12 mesh soil, taken from the near-surface B horizon (0 to 30 cm) from each sample site.

The soil samples were submitted to ACME Analytical Laboratories Ltd. (ACME Analytical), where they were sieved 100 g to -80 mesh and analyzed 30 g for 53 elements by aqua regia digestion ultra-trace elements inductively coupled plasma mass spectrometry (ICP-MS). ACME Analytical is an independent analytical laboratory.

The soil anomaly at El Durazno main area is defined by 158 samples with values greater than 20 ppb Au; 74 samples have values >50 ppb up to a maximum value of 894 ppb of gold. The soil anomaly covers an area of 1 km in width by 2 km in length that trends to the north. The gold soil anomaly has an internal Pb anomaly with samples greater than 20 ppb, with 19 values above 100 ppm.

The soil sampling north of the main El Durazno area was intended to cover the area in which the Cretaceous sediments outcrop. Three gold anomalies covering the Cretaceous sediments were identified that are characterized by gold values up to 20 ppb. The first two anomalies are located as follows; approximately 1.5 km north of the main area, an east-west trending gold anomaly was identified that covers an area 1.2 km in length by 500 m in width, and 2.8 km north-northwest of the main area there is a 1.4 km long by 500 m wide area with anomalous gold values that appears to trend east-northeast. Dimensionally smaller than the first two anomalies described, a third gold anomaly is located east of the main area that covers an area of 600 m in length by 500 m in width.

In the area known as El Durazno Sur, a soil sampling program was carried out with the objective of determining if the gold mineralization found in quartz-tourmaline veins, which are hosted by El Claro granitic intrusion, continues to the south, below the quaternary soil cover.



A total of 107 samples were taken but the gold anomaly was only identified in the areas where quartz-tourmaline veins have been mapped.

In late 2012, Alio initiated a sampling program primarily comprised of rock grab samples with some trench samples, beginning with the El Durazno main area. The sampling was conducted over those areas where the quartz veining was mapped around the intrusive and also over the sediments, but focused in the early stages on the El Durazno main area and the El Pinto area. Subsequently, grab samples were also collected in the Durazno Sur and El Pedregoso areas, in the central part of the intrusive known as El Tungsteno, and from several outlying areas between those prospects, as well as several small isolated areas.

The total number of grab samples collected through from late 2012 through the first quarter of 2013 is 930.

In late 2012, the initial focus of the rock sampling was at the area of El Durazno and within the intrusive. Subsequently, a first pass prospecting sampling was done over the Cretaceous sediments north of El Durazno main area. The intention of the sampling was to define the surface mineralized zones delimited by the old artisanal diggings. The grab chip sampling covers an area of approximately 5 km in length by 4 km in width in either the intrusive or sediments.

From the total number of samples collected, 283 samples yield values up to 0.1 g/t Au, 44 samples yield values up to 1 g/t Au and the highest gold value in a sample at El Durazno returned 22.614 g/t Au, 511.9 g/t Ag, 0.86% Pb, 0.03% Mo and 221 ppm Te.

Rock samples were submitted to Inspectorate Laboratory (Inspectorate) and analyzed for gold by fire assay and atomic absorption finish plus 29 elements by four acid digestion with ICP-AES finish. Mercury was analyzed by cold vapour and atomic absorption finish, and tellurium by ultra-trace analysis via aqua regia digest and atomic absorption finish. Inspectorate is an independent laboratory.

The multi-element geochemistry of the rock sampling assists in the understanding of the evolution of the El Claro intrusion mineralization. Geochemically, there is a high correlation of quartz tourmaline veins with Au-Ag, with occasional high values of Pb, Mo, Bi and Te, in the El Durazno main area, and the El Pinto and El Durazno Sur areas. Correlation coefficients of the total samples collected, primarily in the granodiorite intrusive, show a high relationship of gold with Ag and Te. Silver shows a strong relationship with Bi, Te and Pb, suggesting that those minerals occur as telluride complexes, similar as the occurrences found at the San Francisco Mine as calaverita (AuTe₂), hessita (Ag₂Te), altaite (PbTe) and bismuth tellurides (Bi₂Te₃).

The multi-element geochemistry also shows a lateral southwest to northeast zonation from tungsten in the southwest, to arsenic to the northeast, with gold plus tellurides in the middle. This zonation may be indicative of the large hydrothermal system over all of the El Claro intrusion.



Figure 9.1 is a map showing the El Durazno geology and some sampling locations.

El Pinto Area 1.521 g/t Au / 52.40 g/t Ag EXPLANATION 3'370,500 N 2.801 g/t Au / 14.8 g/t Ag 95 g/t Au / 65.6 g/t Ag 1.737 g/t Au / 41.8 g/t Ag 1.041 g/t Au / 15.3 g/t Ag 10.67m @ 2.910 g/t Au 4,57m @ 6.480 g/t Au El Duraxno Area 28.96m @ 0.420 g/t A 9.14m @ 1.110 g/t Au Andesite Dike Diorite Dike RC Drilling 2013 1.568 g/t Au / 98.0 g/t Ag Au > 0.1 anton 22.614 g/t Au / 511.9 g/t Ag 8.350 g/t Au / 107.9 g/t Ag 2.056 g/t Au / 104.5 g/t Ag 18.615 g/t Au / 23.3 g/t Ag > 20-50 ppb Au < 20 ppb Au

Figure 9.1
Map indicating the El Durazno Geology, and Some Grab and Trench Sampling Locations

Figure provided by Alio Gold Inc. and dated August, 2013.

9.3.2 Vetatierra Project

The early stage Vetatierra Project is located approximately 8 km north of the San Francisco Mine and is contained within the confines of the San Francisco property. Mapping and chip sampling was conducted on the Vetatierra Project. The results were briefly discussed in the 2013 report and are summarized below.

Alio initiated a rock chip grab sampling program on the Vetatierra Project in March, 2013. The rock chip sampling was conducted in those areas where the quartz veining was mapped all around the intrusive and over the sediments, focusing on the diorite stock and the surrounding areas. Subsequently, grab samples were also collected southwest of the main area. The total number of rock grab samples collected up to the second quarter of 2013 was 261. The objective of the sampling was to define the surface mineralized zones, with the sampling covering an area approximately of 1.8 km long by 0.7 km wide.

The initial rock chip samples collected returned significant gold values, with a few samples yielding high grade values of silver. Sample No. 4601 contained the highest gold value at 29.56 g/t Au, 27.1 g/t Ag and 0.35 % Pb and sample No. 4857 yielded 1.0 g/t Au, 905.5 g/t Ag, 3.63%



Pb. Both samples were collected from a dump near an old artisanal mine. In addition, 520 channel chip samples were collected from 3 main trenches. Figure 9.2 is a map indicating the geology and 2013 sampling locations at the Vetatierra Project.

In 2014, Alio conducted a drilling program comprised of 4 reverse circulation (RC) and 6 diamond drilling (core) holes on the Vetatierra Project. The RC drilling totalled 1,197.86 m and the core drilling totalled 2,311.3 m for a combined total of 3,509.16 m. Details of the drilling program at the Vetatierra Project are discussed in Section 10.0 of this report.

9.3.3 1B Area Project

The 1B area is located 3.2 km north of the San Francisco pit. Geological mapping indicates that a pair of shear zones, containing gold mineralization, are exposed at surface. The shear zones are approximately 300 m apart in this area, which appears to be the widest portion of a broader zone with the shear zones corresponding to both the footwall and hangingwall, respectively. In 2014, Alio scheduled a preliminary drilling program for this area to better understand how the gold mineralization was related to the low-angle highly oxidized shear zone-hosted quartz veining in the local granitic rocks. Surface rock sampling returned up to 4.50 g/t gold, south of the shear zone over what is interpreted to be the eroded footwall of the shear zone.

The drilling program was comprised of 57 RC holes totalling 8,040.40 m and 3 core holes totalling 758.7 m. Details of the drilling program at the 1B Area Project are discussed in Section 10.0 of this report.

9.3.4 La Pima Project

The early stage La Pima Project is located approximately 25 km north of San Francisco Mine within the San Francisco property.

The mineralization within the La Pima Project is related to structurally controlled hydrothermal Ba-Ca-Ag-Pb-Zn breccias with over a 2.5 km strike length that are hosted in fossiliferous limestones of Cretaceous age. Artisanal mines and diggings have been developed within the limestone beds.

Four main exploration targets were identified within the project area: West Target (WT), Central Target (CT), North Target (NT) and Pima Mine Target (PMT). At the PMT, artisanal underground workings were developed early in the 1900's along two main structures striking NE 50° and dipping NW 20°. The developed workings stretch over 100 m in length with a maximum width of 10 m and are 60 m deep. The NT is in a flat area north of the PMT and is approximately 85% covered by alluvial material containing small outcrops of interbedded siltstones and sandstones and Ba-Ca breccia's with anomalous values of Ag-Pb-Zn. The CT and WT areas have a geological, structural and mineralization signature very similar to the PMT.

NTERNATIONAL LIMITED | consultants

Figure 9.2 Geology and Sampling Locations at the Vetatierra Project

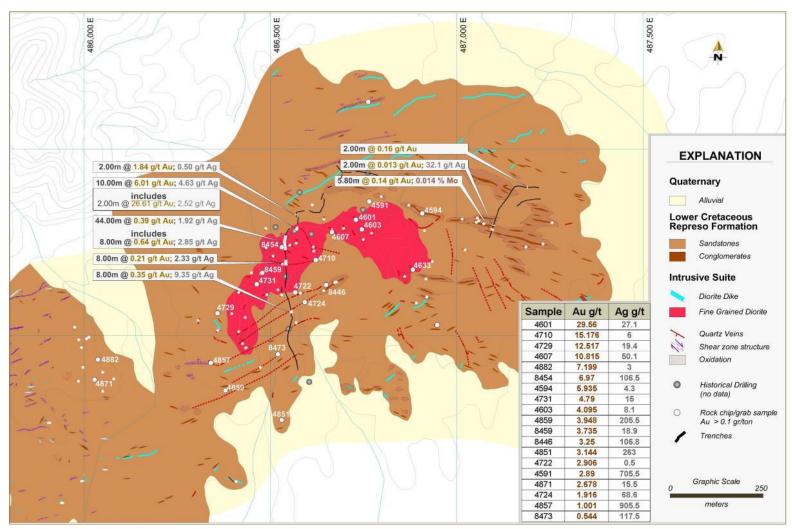


Figure provided by Alio Gold Inc. and dated August, 2013.



Initial surface grab sampling returned significant silver values, with a few samples yielding values of over 1 kg/t Ag from both surface and underground. The chip surface sample No. 7894 returned 2,103.52 g/t Ag with no significant values of Pb and Zn. The underground chip sample No. 5951 returned 1,026.6 g/t Ag, 2.05% Pb and 0.50% Zn. An additional 845 samples were taken from the other targets including underground sampling.

Rock samples were submitted to the San Francisco Mine laboratory and were analyzed by fire assay and atomic absorption. 215 pulp samples were submitted to ALS Minerals laboratory (ALS) as assay checks and the results showed slightly lower values than those reported by the San Francisco Mine laboratory. Once the variation in assay values were tabulated, Alio decided that all of the samples should be reassayed and that the values from ALS were used as the correct numbers.

Figure 9.3 is a geological plan view of the La Pima Project showing the target areas under investigation. Figure 9.4 is a closer view of the geological plan for the La Pima mine target. Figure 9.5 is a longitudinal section demonstrating the extent of the artisanal workings from the early 1900's within the mineralized zone.

9.4 MICON COMMENTS

Micon's QP has reviewed Alio's exploration programs and has visited the exploration sites, as well as discussing the exploration programs, procedures and practices with Alio's personnel during the various site visits to the San Francisco Project. Micon believes that the exploration programs were managed according to the Exploration Best Practice Guidelines, as established by the CIM in August, 2000 and recently updated. Furthermore, the sampling methods and sample quality are generally good and are representative of an early stage program where grab sampling and localized trench sampling along with soil sampling are conducted to identify the general area and extent of the mineralization, prior to defining areas of interest where further sampling or drilling may be conducted in subsequent programs.

As Magna has not conducted any exploration programs at the San Francisco Project, Micon's QP is unable to comment on its exploration programs, procedures and practices at this time.



Figure 9.3 Geological Map of the La Pima Project Showing the Locations of the Exploration Targets

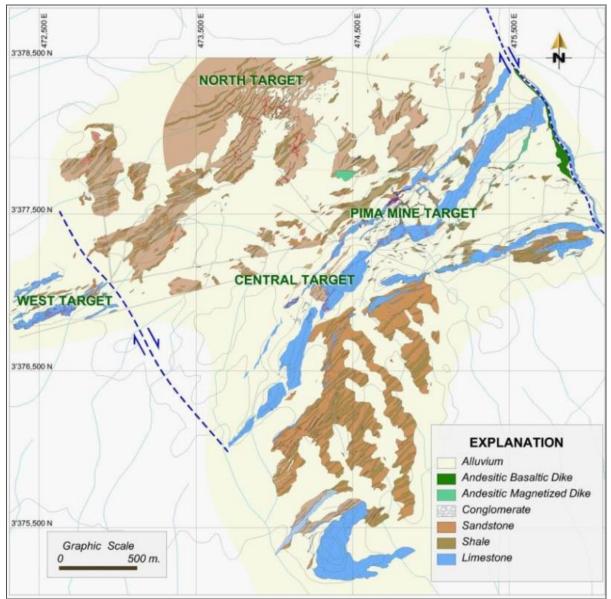


Figure provided by Alio Gold Inc., Figure dated February, 2016.



Figure 9.4
Geological Map of the La Pima Mine Exploration Target and the Location of the Longitudinal Section

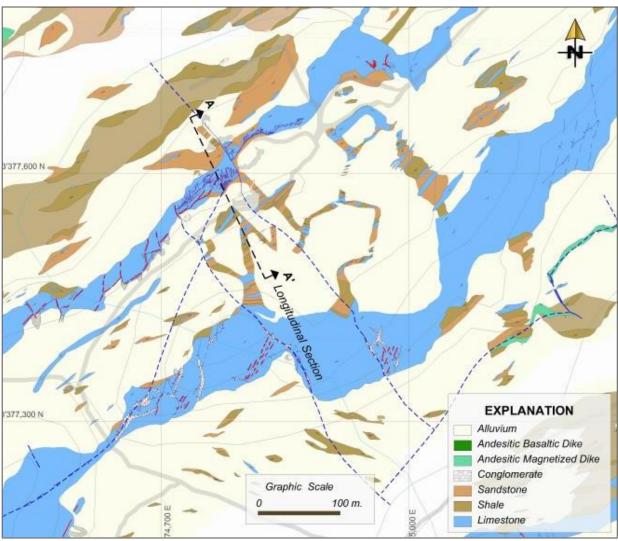


Figure provided by Alio Gold Inc. Figure dated February, 2016.



Figure 9.5
Longitudinal Section Across the La Pima Mine Exploration Target Showing the Artisanal Workings in the Mineralized Zone

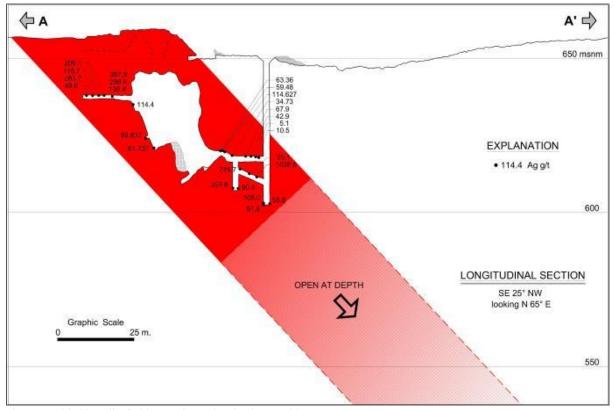


Figure provided by Alio Gold Inc. Figure dated February, 2016.



10.0 DRILLING

The information for this Section was extracted from the May 25, 2017, Technical Report, with updated information to cover the period since that report was written.

Although Magna personnel are familiar with the San Francisco Mine and its mineral deposits, Magna has not conducted any drilling programs itself. Once Magna reviews the data it receives from Alio it will decide on when or if it will conduct a drilling program at the San Francisco Project.

10.1 DRILL TYPES AT THE SAN FRANCISCO PROJECT

Three types of drilling are used for exploration at the San Francisco Project:

- 1. Percussion rotary air blast (RAB) drilling.
- 2. Reverse circulation (RC) drilling.
- 3. Diamond core drilling.

10.1.1 Percussion Rotary Air Blast (RAB) Drilling

RAB drilling is also known as down-the-hole drilling. The drill uses a pneumatic reciprocating piston-driven hammer to drive a heavy drill bit into the rock. The drill bit is hollow steel and has approximately 20 mm thick tungsten rods protruding from the steel matrix as buttons. The tungsten buttons are the cutting face of the bit.

The cuttings are blown up the outside of the rods and collected at surface. Air or a combination of air and foam lift the cuttings from the drill hole.

RAB drilling is used primarily for mineral exploration, water bore drilling and blasthole drilling in mines, as well as for other applications. RAB drilling produces lower quality samples because the cuttings are blown up the outside of the rods and can be contaminated from contact with other rock types.

RAB drilling was conducted on the San Francisco Project between January, 2014 and December, 2014. However, the results of RAB drilling have not been used in the estimation of the mineral resources and reserves discussed herein or in any of the previous Micon Technical Reports. Recovery of the material from the RAB drilling is generally good with better than 90% of the material recovered at the San Francisco Project.

10.1.2 Reverse Circulation (RC) Drilling

RC drilling uses hardened steel or tungsten blades to bore a hole into unconsolidated ground. The drill bit has three blades arranged around the bit head. The rods are hollow and contain an inner tube inside the hollow outer rod barrel.



The drilling mechanism is a pneumatic reciprocating piston known as a hammer, driving a tungsten-steel drill bit. RC drilling utilizes large rigs and machinery and depths of up to 500 m are routinely achieved. RC drilling ideally produces dry rock chips, as large air compressors dry the rock ahead of the advancing drill bit. RC drilling is slower and costlier but achieves better penetration than RAB drilling; it is less expensive than diamond coring and is thus preferred for most mineral exploration work.

Reverse circulation is achieved by blowing air down the rods, with the differential pressure creating air lift of the water and cuttings up the inner tube. The cuttings reach the bell at the top of the hole, then move through a sample hose which is attached to the top of the cyclone. The drill cuttings travel around the inside of the cyclone until they fall through an opening at the bottom and are collected in a sample bag or pail.

Although RC drilling is air-powered, water is also used, to reduce dust, keep the drill bit cool, and assist in pushing the cuttings back upwards. A drilling mud is mixed with water and pumped into the rod string, down the hole. When the drill reaches hard rock, a collar is put down the hole around the rods. Collaring a hole prevents the walls from caving in and bogging the rod string at the top of the hole. Recoveries of the material from RC drilling at the San Francisco Project are good with better than 95% recovery.

Figure 10.1 is a view of one of the RC drill rigs in operation in the San Francisco pit during the Micon site visit in July, 2011.



Figure 10.1 RC Drilling in the San Francisco Pit in July, 2011



10.1.3 Diamond Core Drilling

Diamond core drilling utilizes an annular diamond-impregnated drill bit attached to the end of hollow drill rods to cut a cylindrical core of solid rock. The diamonds used are fine to microfine industrial grade diamonds. They are set within a matrix of varying hardness, from brass to high-grade steel. Holes within the bit allow water to be delivered to the cutting face.

Core samples are retrieved via the use of a lifter tube, a hollow tube lowered inside the rod string by a winch cable until it stops inside the core barrel. As drilling proceeds, the core barrel slides over the core as it is cut. The winch is then retracted, pulling the core barrel to the surface.

Once the core barrel is removed from the hole, the core is removed and catalogued. The core is washed, measured and broken into smaller pieces to make it fit into the sample trays.

Diamond rigs can also be part of a multi-combination rig. Multi-combination rigs are capable of operating in either an RC or diamond drilling mode (though not at the same time). This is a common scenario where exploration drilling is being performed in an isolated location.

Figure 10.2 is a view of a core diamond drilling set-up southeast of the San Francisco pit during Micon's site visit in July, 2011.







In general, core recovery for the diamond drill holes at the San Francisco Project was better than 98% and no core loss due to poor drilling methods or procedures was experienced.

10.2 GENERAL INFORMATION

Since the San Francisco project is located on a number of concessions upon which mining has been conducted, any exploration work on these concessions continues to fall under the environmental permitting already in place for the mine and no further notice is required to be given to any division of the Mexican government. The original environmental permitting of the San Francisco Mine site is valid for the duration of the exploitation concessions. Water for the drilling programs at the San Francisco project is obtained from on-site water wells.

The drill hole collar locations were established using a high precision GPS unit and marked prior to drilling with wooden stakes denoting the drill hole collar plus a front sight line to indicate the azimuth of the hole. After a drill hole was completed, the collar location was marked with a cement marker denoting the drill hole number. Figure 10.3 is a photograph of the cement marker located on drill hole TF-1522. Once the drilling program was completed, all drill hole collars were surveyed by the Alio exploration staff using its own GPS Total Station Trimble 5700 movil and 4700 rover (base).



Figure 10.3 Location Marker for Drill Hole TF-1522



10.3 DRILLING PRIOR TO 2014

10.3.1 Alio Exploration Programs Since 2005

During August and September, 2005, Alio conducted a drilling program comprised of 14 reverse circulation (RC) holes, based on the results of previous drilling conducted by both Fresnillo and Geomaque. The 2005 RC drilling program focused on confirming and exploring extensions of the gold mineralization to the northwest and southeast of the existing San Francisco pit. The results of the drilling program confirmed the extension of the gold mineralization to the northwest beyond the limits of the pit and the presence of a higher grade gold zone. To the southeast, the 2005 drilling results did not confirm the previous drilling conducted by Geomaque, with only erratic values detected. However, drill hole TF-06 ended in 6.10 m averaging 2.817 g/t gold.

In 2006, Alio conducted an intensive exploration drill program which was based on the analysis of Geomaque's drilling results, the 2005 Alio drill results, the geological and geochemical data and a structural re-interpretation of the gold mineralization controls within the known deposit. The drilling program consisted of 28 RC and 28 diamond drill holes within three general target areas. The first area covered by the drilling program was the immediate area north and northwest of the existing San Francisco pit, with a particular emphasis placed on drilling in the area covered by the former crusher. The second area covered by the 2006 drilling program was located to the north and south of the La Chicharra pit. The La Chicharra pit was the second pit mined by Geomaque at the Project site and is located west of the San Francisco pit on the other side of a small mountain. The third area covered by the drill program investigated places where direct observations by Alio geologists and previous geological mapping indicated favourable lithology, hydrothermal alteration and geochemical results for the continuation of the mineralization around the existing San Francisco pit.

The 2006 drilling program to the north of the San Francisco pit was considered to be successful, as it confirmed the continuity, both laterally and at depth, of the mineralized intersections known from previous drill holes, in a portion of the Project which comprises the area from Section 880NE to 1040NE, a distance of 160 metres along the main mineralized system and 150 metres following the northwest.

The results of the 2006 drilling in the immediate area of La Chicharra pit confirmed the extension of the gold mineralization in the projected dip direction to the north.

The 2006 exploration drilling around the San Francisco pit was successful in confirming the high-grade intersections encountered by the previous reverse circulation drilling done by Alio. The drilling also confirmed that the gold grades encountered by the reverse circulation drilling may be lower than the true grades which may be encountered during exploitation, but in relation to the potential zone in the immediate area to the northwest, southwest and northeast, the mineralization is very well defined with the existing drilling.



During 2007, Alio conducted field work and exploration drilling to evaluate the extent of the gold mineralization in other zones on the property. This program was primarily concentrated to the north of the existing San Francisco pit limits and to the north of the La Chicharra pit. Forty holes totalling 4,838 m of core drilling were completed in this program which also included 1,327 m of condemnation drilling west of the original leach pads.

In the west pit area a total of 7 drill holes were completed which totalled 972.25 m. The drilling confirmed the continuity of the high grade intersections previously encountered. In the area of the La Chicharra pit a total of 9 drill holes were completed totalling 1,369 m. The results of this drilling extended the strike length by 300 m and confirmed the down dip extension of the La Chicharra deposit to at least 400 m.

Nineteen holes totalling 1,700 m of in-fill drilling were completed in the crusher area and, of this total, 341 m in three drill holes were completed during the 2007 drilling program. This portion of the drilling program was designed to increase the confidence of the previously identified mineralized area by increasing the drilling density to be able to classify this material as a mineral resource. The three new holes did not represent a material change in this area.

Granite and gabbro are exposed along 400 m of the south wall of the San Francisco pit and as these rock types are two of the principal hosts of the gold-bearing veins and veinlets, a total of six drill holes were drilled in this area. The six drill holes totalled 450 m and were drilled to test the down dip extent of the gold mineralization found in this area.

Alio conducted a block model analysis of the San Francisco deposit and identified at least five zones where the drill hole density was not sufficient to satisfy the confidence levels for either an indicated or measured resource. Based on this information, Alio selected the two zones (Southeastern and Polvorines) which were recognized as being the most prospective for upgrading the resources from inferred to an indicated or measured category.

Two drill holes were completed southeast of the present pit adjacent to the waste dumps in order to confirm the presence of gold mineralization intersected by previous operators. Both holes were successful in outlining the gold mineralization further in this area

Two drill holes were drilled southwest of the San Francisco pit in the Polvorines area. The two holes were successful in increasing drill hole density and mineral resource confidence level in this area.

An 11-hole condemnation drilling program totalling 1,327 m was completed in the area west of the present leach pads. An area 500 m by 500 m was identified as being suitable for locating the future heap pads and/or operating facilities.

Between 2008 and 2010, Alio's exploration programs focused on determining the drill priorities which best achieved its aim of increasing the mineral resources in the areas near the San Francisco and La Chicharra pits, in the area between the two pits and in geochemically



anomalous areas along the projection of the San Francisco mineral trend to the northwest. As well, exploration targets to the north of the igneous-metamorphic package were investigated.

During the period from 2008 to the end of July, 2010, a total of 57,753 m in 613 drill holes were completed. Of this total, 48 holes totalling 3,723 m were exploration RAB type holes drilled in the area between the La Chicharra and San Francisco pits and 50 holes totalling 5,207 m were condemnation drilling in the area of the waste piles and new leach pads.

From July, 2010 to June, 2011, 691 RC and core holes were drilled for a total of 94,148 m. These holes were drilled to cover several objectives; most of the RC drilling and the entire core drilling were performed in and around the San Francisco pit and in June, 2011, 36 RC holes totalling 6,170 m were drilled in the northern area of the La Chicharra pit. The RC drilling included 9,817 m in 67 holes of condemnation drilling which covered two areas; the first area was to the south of the existing waste dumps with the second area to the west of the new leach pads. The negative results allowed Alio to expand the existing waste dumps to the south and the negative results to the west of the leach pads allow for this area to be used for the stockpile of the low-grade material.

The drilling conducted within and around the San Francisco pit comprised more than 80% of the drilling undertaken between July, 2010 and June, 2011. Both the RC and core drilling in this area indicated that the mineralization extends along strike, down-dip and occurs in new mineralized zones below of the floor of the designed pit. The results indicated that that additional mineralization occurred beneath the floor of the pit as parallel repetitions of the mineralized zones located in the pit, with a vertical extension of at least 200 m, continuing beyond the current pit limits. Due to the positive results a third core drill was added to the program

Figure 10.4 and Figure 10.5 show cross-sections 580 W and 800 W, indicating the parallel zones and extensions of the mineralization beneath the San Francisco pit between July, 2010 and June, 2011.

In the area, north of the La Chicharra pit, 6,170 m of drilling in 36 RC holes identified the extension of the mineral deposit in the down-dip direction for a distance of almost 250 m.

Figure 10.6 show the location of the drilling between July, 2010 and June, 2011 surrounding the San Francisco and La Chicharra pits, including condemnation drilling.

From July, 2011 to June, 2013, 1,464 RC and core holes were drilled for a total of 327,853 m. Most of the drilling was undertaken in and around the San Francisco pit and the La Chicharra pit. The RC drilling included 13,219 m in 62 holes of condemnation drilling and 3,842 m in 20 holes for water monitoring. A further 8 RC holes totalling 107 m were drilled on the low-grade stockpile for grade control purposes.

The drilling conducted within and around the San Francisco and La Chicharra pits comprised more than 92.8% of the drilling undertaken between July, 2011 and June, 2013. Both the RC



and core drilling in these areas identified the extent of the mineralization along strike, as well as the extent down-dip, which remains open. The drilling surrounding the San Francisco and La Chicharra pits has been completed, except for defining the extent of the mineralization to the southeast of the San Francisco pit which remains open along strike and at depth. At the current time, Alio has completed its planned exploration drilling programs. Additional in-fill drilling is necessary to confirm the extension in the up-dip direction from the newly discovered mineral zones identified at the northern extremity of the pit.

The in-fill and exploration holes in and around the San Francisco pit totalled 141,073 m of RC drilling in 650 holes and 10,052 m in 20 core holes. These holes were conducted to confirm and explore the extent of the mineralization at the San Francisco pit. In that regard, the program was successful in outlining the extent of the exploration in and around the pit. Drilling was completed at the pit area so that future drilling could be regarded as more of an in-fill drilling exercise rather than true exploration drilling. Figure 10.7 shows the locations of the holes drilled in the San Francisco pit area between July, 2011 and June, 2013.

Figure 10.8 and Figure 10.9 show cross-sections 220 W and 480 W, indicating the parallel zones and extensions of the mineralization identified beneath the San Francisco pit between July, 2011 and June, 2013.

INTERNATIONAL LIMITED | mineral industry consultant

Figure 10.4 Cross- Section 580W on the San Francisco Pit

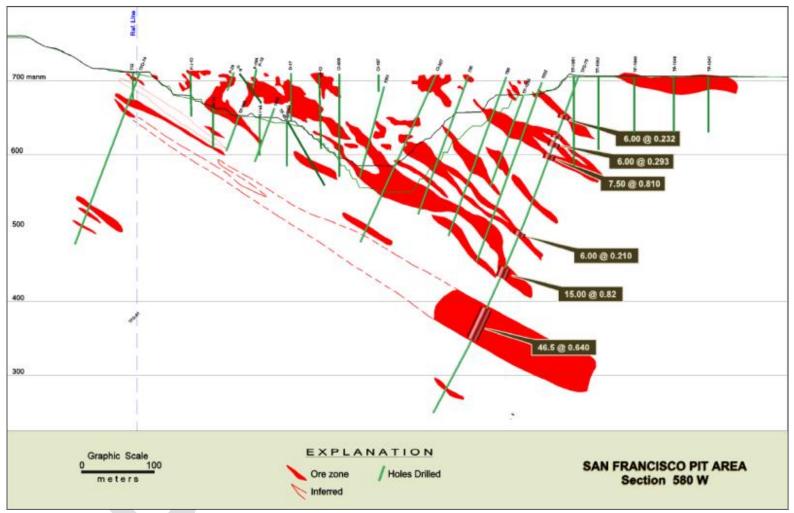


Figure provided by Alio Gold Inc. for the November, 2011 Technical Report.

INTERNATIONAL LIMITED consultant

Figure 10.5 Cross-Section 800W on the San Francisco Pit

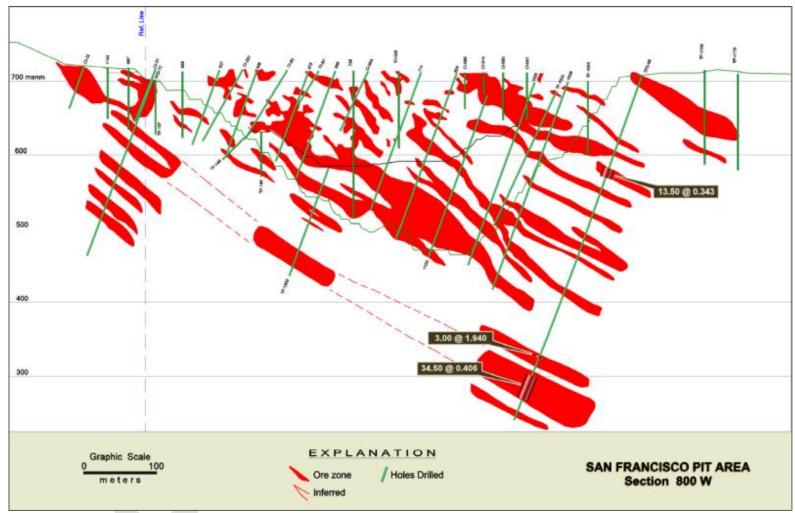


Figure provided by Alio Gold Inc. for the November, 2011 Technical Report.



N **EXPLANATION** 3'359,000 N RC Drilling Core Holes Pit Limit Jun 2010 Graphic Scale NEW LEACH PADS 500 m. OLD LEACH PADS PRIMARY CRUSHER LA CHICHARRA PIT SAN FRANCISCO PIT WASTE DUMPS 3'357,000 N WASTE DUMPS WASTE DUMPS 2009-2014 Figure provided by Alio Gold Inc. for the November, 2011 Technical Report.

Figure 10.6
July, 2010 to June, 2011 Drill Hole Location Map Around the San Francisco and La Chicharra Pits, including Condemnation Drilling





Figure 10.7 July, 2011 to June, 2013 Drill Holes Location Map on the San Francisco Pit

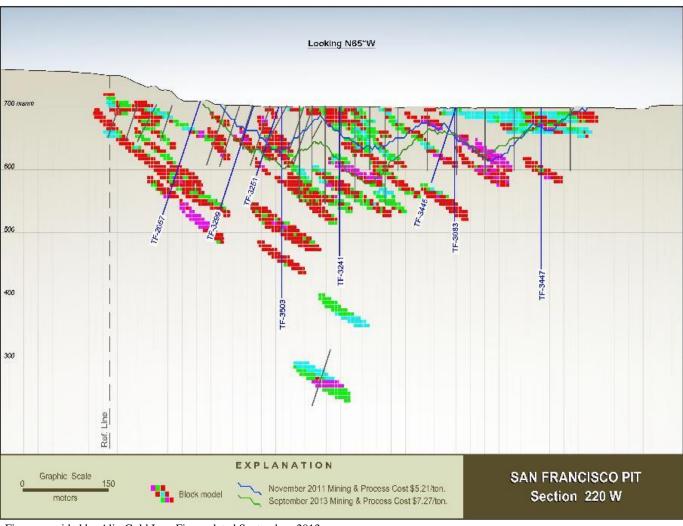


Figure 10.8 Cross-Section 220W on the San Francisco Pit





INTERNATIONAL LIMITED consultants

Figure 10.9 Cross-Section 480W on the San Francisco Pit

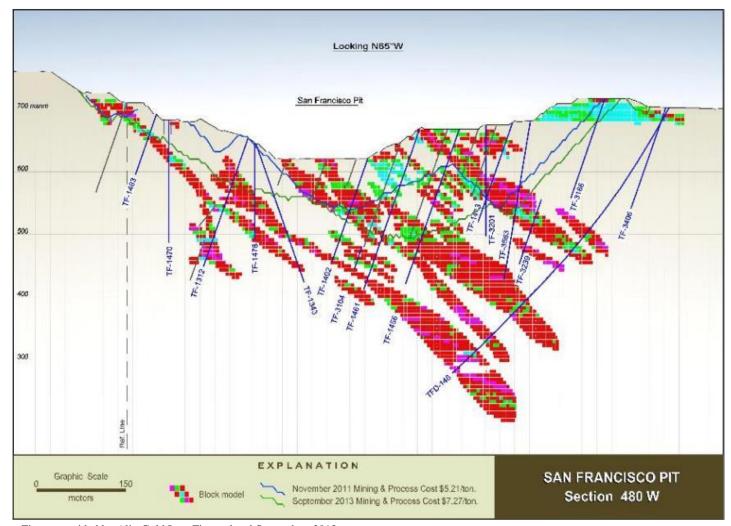


Figure provided by Alio Gold Inc., Figure dated September, 2013.



From July, 2011 to June, 2013, 640 holes totalling 141,314 m, including core and reverse circulation, were drilled in the La Chicharra pit and in the area surrounding the La Chicharra pit. The objectives were to conduct an in-fill drill program to upgrade the inferred mineral resource in the original block model to measured or indicated resources, and to potentially add to the mineral resources. The exploration program was successful in outlining the extent of the mineralization and upgrading the resource estimation at the La Chicharra pit and surrounding area.

The La Chicharra drill campaign for 2011 and a portion of 2012 focused on the area to the north of the existing pit and within the pit. This campaign was generally in-fill drilling to upgrade the existing inferred resource to indicated or measured resources. Based upon this program and the analysis of previous drilling campaign results, the drilling was extended, to the east-southeast and to the west-northwest. In the east-southeast direction, the mineralized zone is spotty and is restricted to narrow intervals with erratic gold values. In general, the results of the programs allowed the resources to be successfully upgraded to indicated and measured resources and for mine planning to be conducted.

Figure 10.10 shows the distribution of the drill holes conducted during the period from July, 2011 to June, 2013 in the La Chicharra pit and in the surrounding area. There was no drilling done, between March, 2013 and June, 2013 and the dates July, 2011 to June, 2013 refer to the period covered by the Technical Reports, rather than the actual periods during which drilling was conducted.

Figure 10.11 and Figure 10.12 illustrate cross-sections 2540W and 2780 W, along with the block model and the limits of the mineralization for 2011 and 2013.

Alio has conducted the same 3 types of drilling since 2005 at the San Francisco Project, with percussion rotary air blast (RAB) drilling being used for initial exploration drilling, followed by reverse circulation (RC) drilling and diamond core drilling for subsequent follow up work. Where extensions of the known mineralization were expected to be encountered around the San Francisco and La Chicharra pits, only RC and core drilling were conducted. Only RC and core drilling results are used for resource estimation at the mine.

From the beginning of Alio drilling programs in 2005, recoveries of the drilling material have been good, with RAB drilling recoveries being better than 90%, RC drilling recoveries better than 95% and core drilling better than 98%.

During numerous site visits when drilling was being conducted, Micon has not observed any drilling sampling or recovery factors that could have materially impacted the accuracy and reliability of the drilling results obtained by Alio. Micon's observations of the drilling programs since 2005 all indicated that Alio conducted its drilling programs with industry best practices in mind.



Figure 10.10 Location Drill Map in the La Chicharra Area



Figure provided by Alio Gold Inc., and dated September, 2013

Figure 10.11 Section 2540W in the La Chicharra Pit

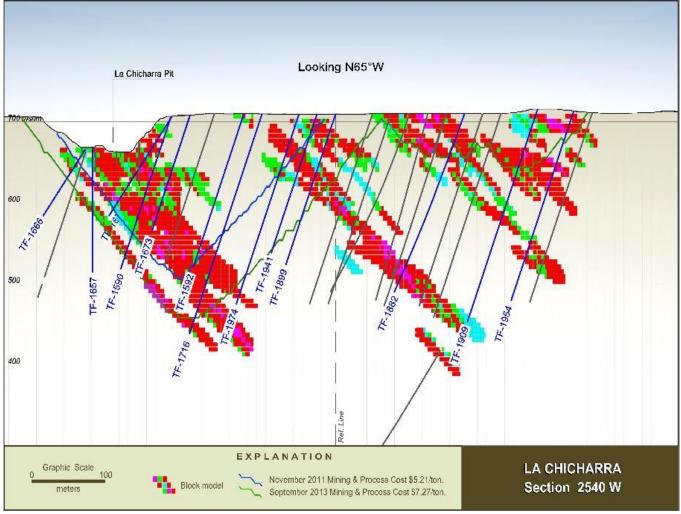


Figure provided by Alio Gold Inc., and dated September, 2013.



INTERNATIONAL LIMITED | mineral industry consultants

Figure 10.12 Section 2780W on the La Chicharra Pit

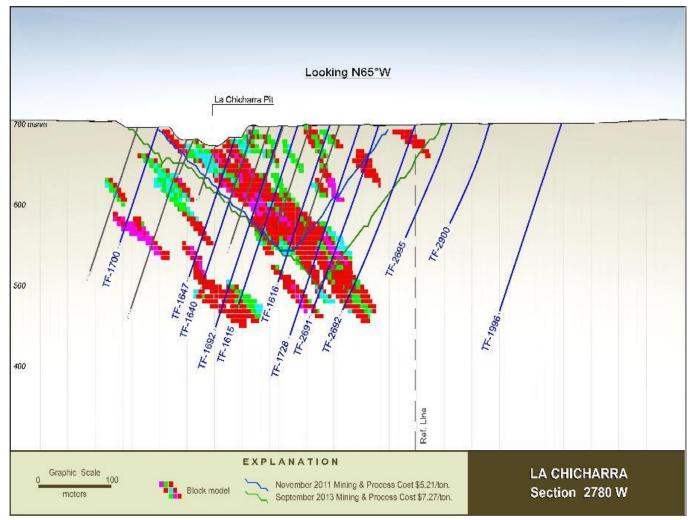


Figure provided by Alio Gold Inc. and dated September, 2013.



10.4 EXPLORATION AND IN-FILL DRILLING 2014 TO 2015 AT THE SAN FRANCISCO MINE

A total of 6,783.75 m in 63 RC holes were drilled between 2014 and 2015 as part of the San Francisco Mine in-fill drilling program on Phase 3, Phase 4 East and Phase 4 down. The aim of both drill programs was to confirm the gold mineralization in the short term mine plan, as well as to reduce the drilling spacing and confirm the mineralization reported by the historical drill holes.

An exploration/in-fill drill program (Phase 5) was executed on the south wall of the San Francisco pit with the aim of exploring the continuity of the gold mineralization below Phase 3. An in-fill drill program on the south wall was also conducted to partly identify the extent of the high grade gold mineralization related to two main structures that could potentially be extracted using underground mining methods. Thirty-one RC holes totalling 4,376.92 m and 20 core holes totalling 2,185.30 m were drilled on south wall of the San Francisco pit.

In 2014, a program of RC condemnation drilling was conducted on the western side of the existing leach pads. The program consisted of 21 holes totalling 3,642 m. The assay results for this program did not indicate any economic gold intersections in this area.

Figure 10.13 is a plan view of the various in-fill drilling programs conducted within the San Francisco pit during 2014. Figure 10.14 is a location plan of the RC condemnation drilling.

THICOM | mineral industry | matter | consultant | consult

Figure 10.13
Plan View of the Various 2014 In-fill Drilling Programs within the San Francisco Pit

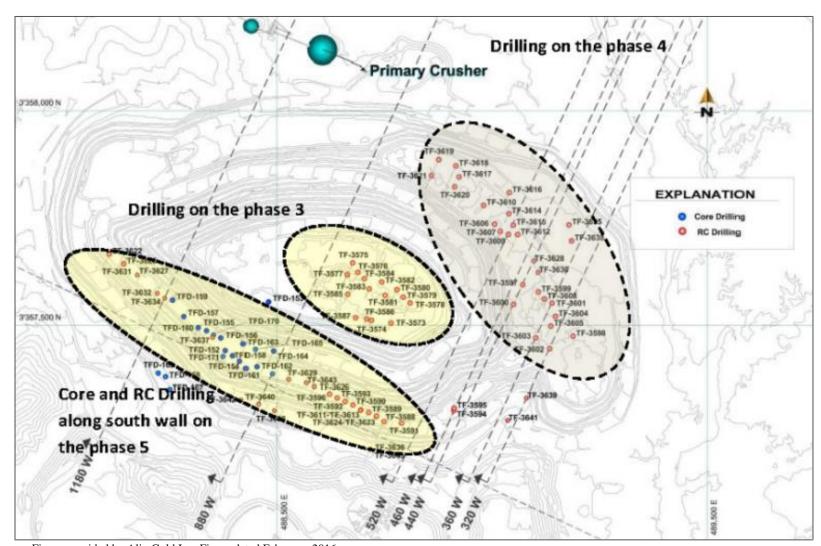


Figure provided by Alio Gold Inc. Figure dated February, 2016.



3 359,000 N

LEACH PADS

TOWN

SANIFRANCISCO PIT

EXPLANATION

RC Holes

D 500

meters

Figure 10.14
Location Plan of the 2014 Condemnation Drilling Program

Figure provided by Alio Gold Inc. Figure dated February, 2016.

10.4.1 2014 In-fill RC Drilling on Phase 3 from Bench 530

Fifteen RC drill holes on Phase 3 were distributed along a strike distance of 160 m spaced every 20 m from Section 660W to Section 820W at the bottom of the San Francisco pit, on benches 530 to 536. The program totalled 1,100 m and Table 10.1 summarizes the location and significant assays for the RC drilling on Phase 3 from benches 530 to 536.

Table 10.1
Summary of the Location and Significant Assays for the RC Drilling on Phase 3 from Bench 530 to 536

Drill							Mineral Drill Intersections						
Hole Number	Depth (m)	Angle (°)	Az (°)	Section Line	North Coordinate	Bench (Elev)		From (m)	To (m)	True Width (m)	Au (g/t)		
								0.00	12.19	12.19	0.601		
							includes	9.14	10.67	1.52	2.021		
TF-3573	51.82	-70	205	680 W	750	536		15.24	16.76	1.52	0.155		
								25.91	27.43	1.52	12.400		
								48.77	51.82	3.05	0.368		
TF-3574	51.82	-70	205	720 W	725	536		25.91	27.43	1.52	0.877		
TF-3575	82.30	-70	205	820 W	835	536		0.00	1.52	1.52	0.326		



Hole Number Coordinate Section Coordinate Elev	D '11							I	Mineral D	rill Inter	sections	
TF-3576	Drill Hole								From	То		Au
TF-3576 70.10 -70 205 800 W 825 536	Number	(111)		()	Line	Coordinate	(Liev)		(m)	(m)		(g/t)
TF-3576 70.10 -70 205 800 W 825 536									16.76	35.05	18.29	1.087
TF-3576 70.10 -70 205 800 W 825 536								includes	18.29	19.81	1.52	3.208
TF-3576 70.10 -70 205 800 W 825 536									38.10	39.62	1.52	0.154
TF-3576 70.10 -70 205 800 W 825 536									42.67	44.20	1.52	0.290
TF-3576 70.10 -70 205 800 W 825 536									45.72	48.77	3.05	0.161
TF-3576									50.29	76.20	25.91	0.305
TF-3576									7.62	25.91	18.29	0.324
TF-3577 82.30 -70 205 820 W 810 536	TF-3576	70.10	-70	205	800 W	825	536		33.53	39.62	6.10	0.853
TF-3577 82.30 -70 205 820 W 810 536	11-3370	70.10	-70	203	000 11	623	330		44.20	56.39	12.19	0.249
TF-3577 82.30 -70 205 820 W 810 536									60.96		9.14	0.376
TF-3577 82.30 -70 205 820 W 810 536									0.00	35.05	35.05	0.580
TF-3577 82.30 -70 205 820 W 810 536												0.118
TF-3577 82.30 -70 205 820 W 810 536 includes 45.72 47.24 1.52 2.02						810			41.15	42.67	1.52	0.848
TF-3579 100.58 -70 205 660 W 810 536	TF-3577	82 30	-70	205	820 W		536			48.77	3.05	0.879
TF-3578 100.58 -70 205 660 W 810 536 0.000 1.52 1.52 0.26 18.29 19.81 1.52 0.18 30.48 32.00 1.52 0.17 10.67	11 3377	02.30	70	203	020 11	010	330	includes				2.022
TF-3578 100.58 -70 205 660 W 810 536												0.529
TF-3578 100.58 -70 205 660 W 810 536								includes				2.092
TF-3578 100.58 -70 205 660 W 810 536												0.486
TF-3578 100.58 -70 205 660 W 810 536 30.48 32.00 1.52 0.17 91.44 99.06 7.62 1.350 includes 96.01 97.54 1.52 2.82 3.05 6.10 3.05 0.300 22.86 39.62 16.76 2.050 includes 27.43 28.96 1.52 7.030 includes 33.53 39.62 6.10 3.370 45.72 47.24 1.52 0.150 48.77 56.39 7.62 0.57 67.06 71.63 4.57 0.35 77.72 79.25 1.52 0.160 77.72 79.25 1.52 0.160 12.19 13.72 1.52 0.150 12.19 12.19 13.72 1.52 0.150 12.19 12.19 13.72 1.52 0.150 12.19 12.19 13.72 1.52 0.150 12.19 12.19 13.72 1.52 0.150 12.19 12.19 13.72 1.52 0.150 12.19 12.19 13.72 1.52 0.150 12.19 13.72 1.52 0.150 12.19 12.19 13.72 1.52 0.150 12.19 12.19 13.72 1.52 0.150 12.19 12.19 13.72 1.52 0.150 12.19 12.19 13.72 1.52 0												0.261
TF-3579 100.58 -90 0 680 W 815 536 96.01 97.54 1.52 2.82 3.05 6.10 3.05 0.30 1.52 7.03 1.52 1.52 0.150 1.52 1.52 0.150 1.52 1.52 0.150 1.52 1.52 0.150 1.52 1.52 0.150 1.52 1.52 0.150 1.52 1.52 0.150 1.52 1.52 0.150 1.52 1.52 0.150 1.52 1.52 0.150 1.52 1.52 0.150 1.52 1.52 0.150 1.52 1.52 0.150 1.52 1.52 0.150 1.52 1.52 0.150 1.52 1.52 0.150 1.52 1.52 0.150 1.52 1.52 0.150 1.52 1.52 0.150 1.52												0.183
TF-3579 100.58 -90 0 680 W 815 536 includes 96.01 97.54 1.52 2.82 -90 0 680 W 815 536 includes 27.43 28.96 1.52 7.03 includes 33.53 39.62 6.10 3.37 45.72 47.24 1.52 0.15 48.77 56.39 7.62 0.57 67.06 71.63 4.57 0.35 77.72 79.25 1.52 0.16 90.00 3.05 3.05 0.53 12.19 13.72 1.52 0.13 15.24 16.76 1.52 0.12 15.24 16.76 1.52 0.12 35.05 36.58 1.52 0.15 15.24 16.76 1.52 0.12 35.05 36.58 1.52 0.15 15.182 76.20 24.38 0.77 includes 53.34 54.86 1.52 2.49 94.49 97.54 3.05 0.17 94.49 97.54 3.05 0.17 15.24 15.2 0.12 15.24 15.2 0.20 15.24 15.2 0.20 15.25 0.20 15.26 0.20 0.20 15.27 0.20 0.20 15.28 0.20 0.20 15.29 0.20 0.20 15.20 0.20 0.20 0.20 15.20 0.20 0.20 0 15.20 0.20 0.20 0 15.20 0.20 0.20 0 15.20 0.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0 15.20 0.20 0	TF-3578 100	100.58	-70	205	660 W	810	536					0.171
TF-3579 100.58 -90 0 680 W 815 536 30.05 0.30 0.30 0.30 0.30 0.30 0.30 0.3												
TF-3579 100.58 -90 0 680 W 815 536								includes				
TF-3579 100.58 -90 0 680 W 815 536 includes 27.43 28.96 1.52 7.03: includes 33.53 39.62 6.10 3.37: 45.72 47.24 1.52 0.150 48.77 56.39 7.62 0.57 67.06 71.63 4.57 0.35 77.72 79.25 1.52 0.16: 0.00 3.05 3.05 0.53: 12.19 13.72 1.52 0.13: 15.24 16.76 1.52 0.12: 35.05 36.58 1.52 0.15: 35.05 36.58 1.52 0.15: 44.20 45.72 1.52 0.20: 51.82 76.20 24.38 0.77 includes 53.34 54.86 1.52 2.49: 94.49 97.54 3.05 0.17: 4.57 6.10 1.52 0.11: 94.57 6.10 1.5												
TF-3579 100.58 -90 0 680 W 815 536 includes 33.53 39.62 6.10 3.376 45.72 47.24 1.52 0.150 48.77 56.39 7.62 0.57 77.72 79.25 1.52 0.160 77.72 79.25 1.52 0.160 77.72 79.25 1.52 0.160 77.72 12.19 13.72 1.52 0.120 77.72 15.24 16.76 1.52 0.120 77.72 79.25 1.52 0.120 77.72 79.25 1.52 0.120 77.72 15.24 16.76 1.52 0.120 77.72 79.25 1.52 0.120 77.72 15.24 16.76 1.52 0.120 77.72 79.25 1.52 0.120 77.72 15.24 16.76 1.52 0.120 77.72 79.25 1.52 0.120 77.72 15.20 0.120 77.72 15.20 0.120 77.72 79.25 1.52 0.120 77.72 15.20 0.120 77.72 79.25 1.52 0.120 77.72 15.20 0.120 77.72 79.25 1.520 77.72 79.25 1.520 77.72 79.25 1.520 77.72 79.25 1.520 77.72 79.25 7												
TF-3579 100.58 -90 0 680 W 815 536 45.72 47.24 1.52 0.150 48.77 56.39 7.62 0.57 67.06 71.63 4.57 0.35 77.72 79.25 1.52 0.160 9.00 3.05 3.05 0.530 12.19 13.72 1.52 0.150 15.24 16.76 1.52 0.150 15.24 16.76 1.52 0.150 15.24 16.76 1.52 0.150 15.24 16.76 1.52 0.150 15.24 16.76 1.52 0.150 15.24 16.76 1.52 0.150 15.24 16.76 1.52 0.150 15.24 16.76 1.52 0.150 15.24 16.76 1.52 0.150 15.24 16.76 1.52 0.150 15.24 16.76 1.52 0.150 15.24 16.76 1.52 0.150 15.24 16.76 15.25 0.150 15.25 15.25 0.220 15.25 15.25 15.25 0.220 15.25 15.25 15.25 15.25 0.220 15.25 15.												
TF-3580 100.58 -70 205 700 W 825 536 48.77 56.39 7.62 0.577 1.63 4.57 0.35 1.52 0.150 1.	TF-3579	100.58	-90	0	680 W	815	536	ıncludes				
TF-3580 100.58 -70 205 700 W 825 536 67.06 71.63 4.57 0.35 0.163 0.00 3.05 3.05 0.533 0.152 0.124 16.76 1.52 0.125												
TF-3580 100.58 -70 205 700 W 825 536 700 W 825 536 700 W 825 536 700 W 825 7												
TF-3580 100.58 -70 205 700 W 825 536 0.00 3.05 3.05 0.53: 10.00												
TF-3580 100.58 -70 205 700 W 825 536 12.19 13.72 1.52 0.139 15.24 16.76 1.52 0.129 13.70 W 825 536 39.62 41.15 1.52 0.129 151.82 76.20 24.38 0.77 16.10 1.52 0.129 15.24 16.76 1.52 0.220 151.82 76.20 24.38 0.77 16.10 1.52 0.129 15.24 16.76 1.52 0.129 15.182 76.20 24.38 0.77 16.10 1.52 0.110 15.20 1.100 15.20 15.					1							
TF-3580 100.58 -70 205 700 W 825 536 15.24 16.76 1.52 0.12. 35.05 36.58 1.52 0.15. 44.20 45.72 1.52 0.22. 51.82 76.20 24.38 0.77 includes 53.34 54.86 1.52 2.49. 94.49 97.54 3.05 0.17. 4.57 6.10 1.52 0.110												
TF-3580 100.58 -70 205 700 W 825 536 35.05 36.58 1.52 0.150 44.20 45.72 1.52 0.220 51.82 76.20 24.38 0.77 includes 53.34 54.86 1.52 2.490 94.49 97.54 3.05 0.170 44.57 6.10 1.52 0.110												
TF-3580 100.58 -70 205 700 W 825 536 39.62 41.15 1.52 0.12												
44.20 45.72 1.52 0.220	TE 2590	100.59	70	205	700 W	925	526					
51.82 76.20 24.38 0.77	11-3380	100.58	-70	205	/00 W	823	330					
includes 53.34 54.86 1.52 2.490 94.49 97.54 3.05 0.172 4.57 6.10 1.52 0.110												
94.49 97.54 3.05 0.172 4.57 6.10 1.52 0.116								includes				
4.57 6.10 1.52 0.110								merudes				
					 							
12.17 21.34 9.14 1.04												
includes 12.19 15.24 3.05 5.320								includes				5.320
	TF-3581	82 30	-70	205	720 W	802	536	meruues				0.423
	11-3301	02.30	-70	205				-				1.236
								includes				5.782
												2.363



ъ.,,							N	Mineral D	rill Inter	sections	
Drill Hole Number	Depth (m)	Angle (°)	Az (°)	Section Line	North Coordinate	Bench (Elev)		From (m)	To (m)	True Width (m)	Au (g/t)
							includes	59.44	60.96	1.52	4.320
								65.53	68.58	3.05	2.564
								0.00	21.34	21.34	0.628
							includes	18.29	19.81	1.52	3.218
TF-3582	91.44	-90	0	740 W	825	536		28.96	30.48	1.52	0.334
								54.86	68.58	13.72	0.378
								74.68	91.44	16.76	0.547
								7.62	9.14	1.52	0.987
								28.96	36.58	7.62	0.698
TF-3583	70.10	-70	205	760 W	800	536		41.15	42.67	1.52	1.115
								45.72	70.10	24.38	0.527
							includes	67.06	68.58	1.52	3.546
								0.00	21.34	21.34	1.058
							includes	6.10	7.62	1.52	3.659
							includes	9.14	13.72	4.57	1.469
TF-3584	70.10	-90	0	780 W	816	536		24.38	25.91	1.52	0.724
								41.15	42.67	1.52	0.351
								45.72	70.10	24.38	0.491
							includes	68.58	70.10	1.52	2.804
								0.00	22.86	22.86	0.423
TF-3585	60.96	-70	205	800 W	765	536		47.24	57.91	10.67	2.166
11-3383	60.96	-70	203	800 W	/65	330	includes	51.82	53.34	1.52	10.700
							includes	54.86	57.91	3.05	3.704
								6.10	10.67	4.57	10.903
TE 2596	12.67	70	205	740 337	722	526	includes	6.10	9.14	3.05	16.122
TF-3586	42.67	-70	205	740 W	732	536		30.48	33.53	3.05	2.175
							includes	30.48	32.00	1.52	3.005
TDE 0505	10.67	00	0	7.00 111	725	526		10.67	12.19	1.52	0.307
TF-3587	42.67	-90	0	760 W	725	536		39.62	41.15	1.52	1.684

Table provided by Alio Gold Inc.

10.4.2 2014 In-fill RC Drilling on Phase 4 from Bench 650

A drilling program was initiated on Phase 4 with the same objectives as the previous program on benches 530 to 536. The drill program consisted of 27 RC holes totalling 3,547 m which were distributed from Section 280W to Section 740W on bench 650.

Table 10.2 summarizes the location and significant assays for this drilling. The table contains all of the mineral intersections on Phase 4 east, as this completes the overview of the results from the drilling during November, 2014. The results confirmed that the mineralization is in agreement with the existing block model and results of the July, 2013 resource estimation for that portion of the San Francisco deposit.



Table 10.2 Summary of the Location and Significant Assays for the RC Drilling on Phase 4 from Bench 650

								Mineral	Drill Inter	sections	
Drill Hole Number	Depth (m)	Angle (°)	Az (°)	Section Line	North Coordinate	Bench (Elev)		From (m)	To (m)	True Width (m)	Au (g/t)
								15.24	16.76	1.52	0.271
TF-3597	121.92	70	205	440W	960	650		50.29	51.82	1.52	0.401
11-3397	121.92	70	203	440 W	900	030		91.44	100.58	9.14	0.410
								106.68	109.73	3.05	0.442
								18.29	24.38	6.10	0.201
								35.05	48.77	13.72	0.907
							includes	38.10	39.62	1.52	2.133
TF-3598	170.69	90	0	280W	900	650		108.20	112.78	4.57	0.941
								126.49	131.06	4.57	0.235
								141.73	149.35	7.62	2.826
							includes	146.30	149.35	3.05	6.451
TE 2500	124.97	70	205	40011	060	<i>(5</i> 0)		21.34	22.86	1.52	0.217
TF-3599	124.97	70	205	400W	960	650		36.58	41.15	4.57	0.312
								1.52	22.86	21.34	0.736
							includes	1.52	3.05	1.52	4.025
TF-3600	131.06	70	205	440W	910	650	includes	13.72	15.24	1.52	3.177
								36.58	38.10	1.52	0.275
								88.39	97.54	9.14	0.332
								22.86	24.38	1.52	0.214
TF-3601	91.44	70	205	360W	950	650		56.39	67.06	10.67	1.506
							includes	62.48	64.01	1.52	8.887
TEL 2 602	70.10	0.0	205	22011	0.50	650		54.86	56.39	1.52	0.265
TF-3602	70.10	80	205	320W	850	650		65.53	67.06	1.52	0.242
								9.14	10.67	1.52	0.225
TTT 2 602	100 50	7 0	205	2 < 0.111	0.60	650		16.76	18.29	1.52	2.062
TF-3603	109.73	70	205	360W	860	650		91.44	94.49	3.05	0.204
								105.16	108.20	3.05	0.325
	0.4.4.4	0.0		2 10777				19.81	24.38	4.57	0.364
TF-3604	91.44	90	0	340W	925	650		42.67	50.29	7.62	0.422
TF-3605	02.2	70	205	2.40777	000	650		0.00	3.05	3.05	0.609
	82.3	70	205	340W	900	650		21.34	27.43	6.10	0.464
								9.14	15.24	6.10	0.283
								27.43	28.96	1.52	0.564
								32.00	45.72	13.72	1.019
TF-3606	131.06	70	205	560W	1060	650	includes	33.53	38.10	4.57	2.953
								54.86	59.44	4.57	0.877
								70.10	73.15	3.05	0.623
								88.39	89.92	1.52	0.202
								12.19	21.34	9.14	0.503
TTE 6 :07	01.11		267	5 40***	10.70	450		24.38	28.96	4.57	0.688
TF-3607	91.44	70	205	540W	1050	650		39.62	53.34	13.72	0.830
								79.25	80.77	1.52	0.281
TF-3608	100.58	70	205	380W	950	650		19.81	21.34	1.52	0.216



								Mineral	Drill Inter	sections	
Drill Hole Number	Depth (m)	Angle (°)	Az (°)	Section Line	North Coordinate	Bench (Elev)		From (m)	To (m)	True Width (m)	Au (g/t)
								45.72	53.34	7.62	0.262
								77.72	79.25	1.52	0.544
								94.49	96.01	1.52	0.232
								0.00	1.52	1.52	0.294
								12.19	13.72	1.52	0.298
TF-3609	94.49	90	0	520W	1050	650		18.29	47.24	28.96	3.529
							includes	25.91	27.43	1.52	3.149
							includes	41.15	42.67	1.52	37.100
TF-3610	91.44	90	0	600W	1090	650		59.44	88.39	28.96	0.378
								15.24	19.81	4.57	0.222
								24.38	25.91	1.52	0.212
								33.53	35.05	1.52	0.202
								39.62	45.72	6.10	0.269
TTE 2612	170.60	70	205	500W	1060	<i>(5</i> 0		53.34	54.86	1.52	0.262
TF-3612	170.69	70	205	500W	1060	650		57.91	59.44	1.52	0.251
								94.49	99.06	4.57	0.411
								114.30	115.82	1.52	0.276
								121.92	124.97	3.05	0.268
								167.64	170.69	3.05	0.314
								24.38	33.53	9.14	0.484
								50.29	53.34	3.05	0.268
TF-3614	91.44	75	205	540W	1100	650		65.53	77.72	12.19	1.979
							includes	68.58	70.10	1.52	4.234
							includes	74.68	76.20	1.52	8.049
								18.29	27.43	9.14	1.258
							includes	22.86	25.91	3.05	3.422
								39.62	53.34	13.72	1.317
TF-3615	124.97	90	0	520W	1075	650	includes	47.24	48.77	1.52	5.302
							includes	50.29	51.82	1.52	2.149
								59.44	60.96	1.52	0.525
								108.20	109.73	1.52	1.311
								45.72	48.77	3.05	0.372
TF-3616	121.92	85	205	560W	1140	662		74.68	80.77	6.10	0.654
11-3010	121.92	83	203	300 W	1140	662		92.96	105.16	12.19	0.976
							includes	97.54	99.06	1.52	4.255
								10.67	12.19	1.52	0.326
								22.86	24.38	1.52	0.536
TF-3617	152.4	90	0	680W	1125	650		79.25	83.82	4.57	1.441
11-301/	132.4	, 3 0	U	000 W	1123	030	includes	79.25	80.77	1.52	3.532
								88.39	89.92	1.52	0.429
								91.44	92.96	1.52	0.284
								22.86	24.38	1.52	0.232
								28.96	32.00	3.05	0.442
TF-3618	161.54	-70	205°	700W	1150	650		68.58	83.82	15.24	5.353
							includes	71.63	73.15	1.52	51.600
]	89.92	91.44	1.52	0.251



								Mineral	Drill Inter	sections	
Drill Hole Number	Depth (m)	Angle (°)	Az (°)	Section Line	North Coordinate	Bench (Elev)		From (m)	To (m)	True Width (m)	Au (g/t)
								123.44	129.54	6.10	0.446
								138.68	140.21	1.52	0.913
								155.45	161.54	6.10	0.681
					1140			77.72	80.77	3.05	0.264
				740W				86.87	92.96	6.10	0.873
							includes	89.92	91.44	1.52	2.281
TE 2610	210.21	70	205			650		96.01	103.63	7.62	0.228
TF-3619	210.31	-70	205					129.54	132.59	3.05	0.192
								138.68	141.73	3.05	0.967
								160.02	161.54	1.52	0.992
								166.12	181.36	15.24	0.458
								7.62	9.14	1.52	0.258
								51.82	53.34	1.52	0.895
								57.91	62.48	4.57	0.947
								65.53	68.58	3.05	0.336
								77.72	82.30	4.57	0.357
TF-3620	219.46	-80	205	680W	1100	650		121.92	123.44	1.52	0.669
								129.54	134.11	4.57	0.207
								149.35	152.40	3.05	0.190
								173.74	178.31	4.57	0.366
								195.07	196.60	1.52	0.387
								202.69	204.22	1.52	1.744
						_		36.58	39.62	3.05	1.559
TF 2621							includes	36.58	38.10	1.52	2.713
	121.06	75	205	74000	1100	<i>(5</i> 0		59.44	74.68	15.24	0.313
TF-3621	131.06	-75	205	740W	1100	650		83.82	86.87	3.05	1.105
								99.06	103.63	4.57	0.422
								109.73	112.78	3.05	0.865

Table provided by Alio Gold Inc.

10.4.3 Exploration and In-fill Drilling along the South Wall of the San Francisco Pit, Phase 5

There were two objectives for the drilling program along the south wall of the San Francisco pit, with both derived from the proposal to conduct underground mining on certain high grade gold zones which were identified below the design pit shell.

The first program consisted of an RC drilling campaign totalling 4,376.92 m, distributed over 31 holes, to determine if there was sufficient mineralization to justify a pushback of the pit wall in a southerly direction in this area.

The holes were drilled from Section 460W to 1340 W, with the spacing dependent on the location of the previous drilling along the south wall. The significant results for this drilling program are summarized in Table 10.3.



In addition to the significant intersections encountered, there are a number of other mineralized intersections identified in the drill holes but they are either low grade intersections or very narrow zones of high grade.

Table 10.3
Summary of the Location and Significant Assays for the RC Drilling on Phase 5 between Sections 880W to 1160W

								Mineral	Drill Inter	sections	
Drill Hole Number	Depth (m)	Angle (°)	Az (°)	Section Line	North Coordinate	Bench (Elev)		From (m)	To (m)	True Width (m)	Au (g/t)
								16.76	18.29	1.52	0.347
								39.62	41.15	1.52	0.323
								70.10	71.63	1.52	0.398
TF-3588	131.06	70	205	600 W	540	669		73.15	74.68	1.52	0.268
								86.87	88.39	1.52	0.838
								112.78	114.30	1.52	0.225
								123.44	124.97	1.52	0.545
								10.67	16.76	6.10	0.742
TF-3589	109.73	90	0	640 W	540	665	includes	12.19	13.72	1.52	3.688
11-3369	109.73	90	U	040 W	340	003		27.43	28.96	1.52	0.230
								57.91	60.96	3.05	0.865
								1.52	7.62	6.10	0.645
TF-3590	131.06	90	0	680 W	540	661		54.86	59.44	4.57	0.212
								65.53	67.06	1.52	0.206
								22.86	25.91	3.05	0.432
TF-3591	170.69	90	0	560 W	550	674		54.86	65.53	10.67	0.610
							includes	54.86	56.39	1.52	2.724
								62.48	64.01	1.52	0.554
TF-3592	152.4	90	0	700 W	540	660		71.628	76.2	4.57	0.235
								79.25	80.77	1.52	0.417
								1.52	4.57	3.05	0.204
								18.29	22.86	4.57	0.223
								73.15	76.20	3.05	0.258
TF-3593	192.02	90	0	720W	540	657		88.39	99.06	10.67	0.728
							includes	89.92	91.44	1.52	2.878
								105.16	106.68	1.52	0.807
								179.83	182.88	3.05	0.270
								16.76	18.29	1.52	0.272
								45.72	59.44	13.72	7.999
FDD 6504	140.51	00	26.7	4.60***	410	, .	includes	45.72	48.77	3.05	42.587
TF-3594	140.21	80	205	460W	640	676	includes	53.34	54.86	1.52	2.104
								67.06	70.10	3.05	0.326
								96.01	100.58	4.57	0.317
								1.52	3.05	1.52	0.273
	100					·		6.10	9.14	3.05	0.293
TF-3595	182.88	75	25	460W	640	676		18.29	25.91	7.62	0.356
								89.92	108.20	18.29	0.599



Drill Hole Number	Depth (m)	Angle (°)	Az	Section	B.T. 43						
		()	(°)	Line	North Coordinate	Bench (Elev)		From (m)	To (m)	True Width (m)	Au (g/t)
								129.54	156.97	27.43	1.420
							includes	129.54	131.06	1.52	2.274
							includes	132.59	137.16	4.57	3.585
							includes	150.88	153.92	3.05	2.684
								161.54	164.59	3.05	0.464
								173.74	176.78	3.05	0.748
								0.00	1.52	1.52	0.527
								12.19	13.72	1.52	0.233
TF-3596 14	140.208	90	0	740W	540	656		38.10	39.62	1.52	0.342
								71.63	73.15	1.52	0.943
								79.25	82.30	3.05	0.430
								4.57	6.10	1.52	1.099
TF-3611 1	121.92	90	0	660W	540	663		36.58	38.10	1.52	0.351
11-3011	121.72	70	U	000 **	340	003		45.72	48.77	3.05	0.250
								56.39	62.48	6.10	0.334
								13.72	15.24	1.52	0.316
								70.10	73.15	3.05	0.879
TF-3613 1	131.06	70	25	660W	540	662		79.25	88.39	9.14	0.377
	131.00	, 0	23	00011	3.10	002		109.73	112.78	3.05	0.899
								117.35	120.40	3.05	0.894
								129.54	131.06	1.52	1.695
								19.81	21.34	1.52	0.331
								22.86	24.38	1.52	0.203
TF-3622 1	109.73	-70	205	1340W	620	662		30.48	33.53	3.05	0.288
								71.63	73.15	1.52	0.205
								86.87	89.92	3.05	0.320
								99.06	102.11	3.05	0.418
TF-3623 1	128.02	-70	25	620W	540	668		105.16	108.20	3.05	0.284
								126.49	128.02	1.52	0.276
	404.00			******	7. 40			38.10	39.62	1.52	0.330
TF-3624 1	121.92	-90	0	620W	540	668		56.39	59.44	3.05	0.278
 								73.15	76.20	3.05	0.247
								22.86	33.53	10.67	0.289
TF-3625 1	121.92	-85	25	1300W	610	660		59.44	62.48	3.05	0.871
								83.82	85.34	1.52	0.404
 								112.78	114.30	1.52	0.551
								0.00	7.62	7.62	0.200
								53.34	64.01	10.67	0.321
TF-3626 1	185.93	-85	205	780W	540	652		67.06 73.15	70.10 76.20	3.05 3.05	0.415 0.218
117-3020 1	103.93	651.564	540N	/ OU W	340	032		96.01	97.54	1.52	0.218
								115.82	118.87	3.05	0.228
								167.64	169.16	1.52	0.230
		00	0					0.00	6.10	6.10	0.371
TF-3627 1	100.58	-90 655.65	0 600N	1260W	600	656		24.38	25.91	1.52	0.206



								Minera	Drill Inter	rsections	
Drill Hole Number	Depth (m)	Angle (°)	Az (°)	Section Line	North Coordinate	Bench (Elev)		From (m)	To (m)	True Width (m)	Au (g/t)
								33.53	41.15	7.62	0.640
								44.20	45.72	1.52	0.229
								50.29	51.82	1.52	0.310
								60.96	64.01	3.05	0.275
								73.15	80.77	7.62	1.548
							includes	73.15	74.68	1.52	3.804
								88.39	94.49	6.10	0.303
								19.81	21.34	1.52	0.316
								36.58	39.62	3.05	0.231
TF-3631	152.4	-60	25	1300W	610	660		80.77	85.34	4.57	0.298
11 3031	132.4	659.24	610N	130011	010	000		89.92	94.49	4.57	0.327
								100.58	103.63	3.05	0.214
								112.78	115.82	3.05	0.265
								0.00	1.52	1.52	0.247
								27.43	30.48	3.05	0.438
								44.20	48.77	4.57	0.208
TF-3632	170.69	-80	25	1200W	580	650		71.63	73.15	1.52	0.202
11-3032	170.02	648.76	580N	1200 **	300	050		80.77	88.39	7.62	1.086
							includes	85.34	86.87	1.52	2.490
								131.06	134.11	3.05	1.017
								152.40	153.92	1.52	0.851
								3.05	6.10	3.05	0.303
								33.53	41.15	7.62	2.351
		-70	205				includes	33.53	36.58	3.05	4.648
TF-3634	170.69	646.22	580N	1180W	580	650		59.44	74.68	15.24	0.604
		0.0.22	00011				includes	59.44	60.96	1.52	2.067
								115.82	118.87	3.05	0.479
								169.16	170.69	1.52	0.227
		70	205					3.05	4.57	1.52	0.224
TF-3636	100.58	-70 713.89	205 470N	600W	470	712		18.29	27.43	9.14	0.205
		713.07	17011					36.58	38.10	1.52	0.590
								0.00	1.52	1.52	0.234
								4.57	7.62	3.05	0.384
								18.29	19.81	1.52	0.418
		70	25					38.10	44.20	6.10	0.759
TF-3637	152.4	-70 632.02	25 540N	1040W	540	632	includes	41.15	42.67	1.52	2.296
		032.02	34011					68.58	70.10	1.52	0.230
								73.15	74.68	1.52	0.217
								85.34	86.87	1.52	0.448
								147.83	150.88	3.05	0.282
								35.05	36.58	1.52	0.569
		70	25					44.20	45.72	1.52	0.747
TF-3638	140.21	-70 697.56	25 450N	840W	450	696		88.39	89.92	1.52	0.240
		077.50	15011					96.01	103.63	7.62	0.270
								126.49	129.54	3.05	0.295



								Mineral	Drill Inter	sections	
Drill Hole Number	Depth (m)	Angle (°)	Az (°)	Section Line	North Coordinate	Bench (Elev)		From (m)	To (m)	True Width (m)	Au (g/t)
								137.16	138.68	1.52	0.498
								1.52	4.57	3.05	0.466
								32.00	47.24	15.24	0.610
								65.53	67.06	1.52	0.357
TF-3639	100.58	-90	0	320W	725	704		74.68	77.72	3.05	0.244
11-3037	100.56	703.96	725N	320 **	723	704		82.30	85.34	3.05	1.394
							includes	82.30	83.82	1.52	2.672
								91.44	94.49	3.05	3.703
							includes	91.44	92.96	1.52	7.253
								18.29	19.81	1.52	0.205
								44.20	60.96	16.76	0.684
TF-3640	121.92	-90	0	880W	450	692	includes	56.39	57.91	1.52	3.449
11-3040	121.92	692.84	450N	00U W	430	092		97.54	99.06	1.52	0.218
								109.73	114.30	4.57	0.268
								120.40	121.92	1.52	0.493
								33.53	35.05	1.52	0.257
								94.49	96.01	1.52	0.626
TE 2641	161.54	-70	205	240337	660	710		106.68	111.25	4.57	0.361
TF-3641	161.54	-70	205	340W	660	710		129.54	132.59	3.05	0.515
								135.64	140.21	4.57	0.209
								146.30	147.83	1.52	0.591
								50.29	70.10	19.81	0.368
TE 2642	102.02	00	0	02011	440	600		97.54	106.68	9.14	0.411
TF-3642	192.02	-90	0	920W	440	690		114.30	118.87	4.57	0.698
								181.36	182.88	1.52	0.206
								60.96	73.15	12.19	0.243
								77.72	86.87	9.14	0.487
TE 2642	150 10	-90	0	00011	540	650		91.44	97.54	6.10	0.232
TF-3643	152.40	649.52	540N	800W	540	650		103.63	105.16	1.52	0.262
								115.82	117.35	1.52	0.793
								124.97	126.49	1.52	0.578
TF-3644	121.92	-70	205	580W	550	672		53.34	54.864	1.52	0.363
								25.91	27.43	1.52	0.296
		-90	0					38.1	41.148	3.05	0.209
TF-3645	140.21	713.86	470N	600 W	470	712		80.772	82.296	1.52	0.200
								106.68	108.204	1.52	0.375

Table provided by Alio Gold Inc.

The second program of drilling comprised core holes conducted to explore the continuity of the high grade mineralized zones beneath the existing surface of the south wall and beneath the final pit design. The program was also conducted to identify the possibility of extracting the high grade mineralization using an underground mining method. The core program consisted of 20 holes totalling 2,185.12 m located between Sections 880W and 1160W, all of which were drilled from the southern ramp access to the pit.



Figure 10.15 is the location plan view for the core drilling done on the south wall in November, 2014.

Figure 10.15 Plan View of the November, 2014 Core Drilling Program on the South Wall of the San Francisco Pit

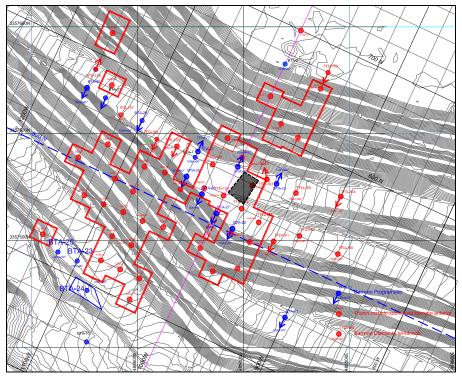


Figure provided by Alio Gold Inc. Figure dated February, 2016.

Table 10.4 summarizes the most significant gold intersection for this core drilling.

Table 10.4
Summary of the Location and Significant Assays for the Core Drilling on Phase 5 between Sections 880W to 1160W

D-::11							1	Mineral I	Orill Inter	rsections	
Drill Hole Number	Depth (m)	Angle (°)	Azimuth (°)	Elev (m.s.n.m)	Section Line	North Coordinate		From (m)	To (m)	True Width (m)	Au (g/t)
								0.00	1.50	1.50	0.187
					23.50	28.00	4.50	0.525			
TFD-152	101.00	101.00 -90 0 631.69 1000W 525	525		35.50	36.50	1.00	0.425			
17D-132	101.00		323		42.00	57.70	15.70	1.529			
						includes	42.00	43.50	1.50	2.065	
							includes	46.50	48.00	1.50	5.677
								9.00	13.50	4.50	5.544
TED 153	61.80	-70	205	535.71	960 W	673	includes	12.00	13.50	1.50	14.000
TFD-153	01.60	-70	205	535./1	960 W	0/3		16.50	19.50	3.00	0.432
								25.70	28.30	2.60	1.066



D211							I	Mineral I	Orill Inte	rsections	
Drill Hole Number	Depth (m)	Angle (°)	Azimuth (°)	Elev (m.s.n.m)	Section Line	North Coordinate		From (m)	To (m)	True Width (m)	Au (g/t)
								45.90	50.40	4.50	0.902
								52.70	59.00	6.30	0.818
							includes	57.05	57.55	0.50	2.396
								25.70	26.70	1.00	0.476
								33.50	36.50	3.00	0.362
TFD-154	71.00	-90	0	635.21	960W	523		39.50	49.50	10.00	1.630
							includes	41.00	45.50	4.50	3.278
								62.00	63.50	1.50	0.199
								24.00	27.00	3.00	0.554
								36.00	40.50	4.50	1.067
TFD-155	130.40	-85	205	633.03	1060W	559		43.50	53.50	10.00	1.003
							includes	47.50	50.50	3.00	2.869
								76.50	79.50	3.00	0.704
								6.00	7.50	1.50	2.493
								28.50	31.50	3.00	0.759
TFD-156	101	-90	0	632.19	1020W	550		49.50	54.00	4.50	0.650
11 ⁻ D-130	101	-90	U	032.19	1020 **	330		60.00	65.00	5.00	0.645
								77.00	81.20	4.20	2.464
							includes	78.50	80.00	1.50	6.668
								19.50	21.00	1.50	0.161
							36.00	37.50	1.50	0.194	
				640.22	1120W 556		40.50	46.50	6.00	0.426	
TFD-157	151.5	-90	0			556			51.00	2.50	3.413
11 15 157	131.3		Ü	040.22		330	include		49.50	1.00	4.961
									55.50	1.50	2.860
									67.50	4.00	0.479
									147.00	3.00	0.472
									27.30	1.50	0.257
									43.80	12.00	1.480
							includes		34.80	1.50	7.758
TFD-158	100.80	-90	0	632.80	980W	525	includes		39.30	1.50	2.055
									49.80	1.50	0.417
									70.80	1.50	0.295
									82.80	1.50	0.323
									21.00	8.00	0.590
									40.50	6.00	0.636
TFD-159	130.80	-85	25	644.58	980W	525			54.00	6.00	0.249
			-	-3.5					82.50	3.00	0.576
									87.00	1.50	0.480
									99.00	1.50	0.220
									9.00	9.00	2.655
WED 112	100.00	0.0	205	635.32	1080W	7.70	includes		9.00	3.00	6.236
TFD-160	100.80	-80				550		40.50 48.50 e 48.50 54.00 63.50 144.00 25.80 31.80 es 33.30 es 37.80 48.30 69.30 81.30 13.00 34.50 48.00 79.50 85.50 97.50 0.00 es 6.00 46.50 69.00	48.00	1.50	1.114
									72.00	3.00	0.199
								99.00	100.80	1.80	0.251



Drill						North Coordinate	Mineral Drill Intersections				
Hole Number	Depth (m)	Angle (°)	Azimuth (°)	Elev (m.s.n.m)	Section Line			From (m)	To (m)	True Width (m)	Au (g/t)
								25.80	27.30	1.50	0.452
						33.30	34.80	1.50	0.903		
TFD-161	100.80	-80	205	637.01	940W	510		39.30 40.80	1.50	0.370	
110-101	100.80					510		57.30	58.80	1.50	0.208
								75.30	85.50	10.20	0.231
								97.80	100.80	3.00	0.214

10.4.4 2015, In-fill RC Drilling Below Phase 4 of the San Francisco Pit

In 2015, after a review of the block model, drill spacing and negative reconciliation on the upper benches (+600 m elevation) of Phase 4, which was approximately a 50 m push back of the north wall of Phase 3 within the San Francisco pit, a drilling program was conducted to test the continuity of the mineralization, as interpreted from the original drilling programs in this area.

The drilling program was based upon a review of the mineral zones as configured by the blast hole patterns for Phase 3, which was depleted in February, 2015. The blast hole patterns indicated that, in this area of the pit, the local mineralization dipped in the opposite direction to the general dip elsewhere in the pit.

As a consequence, a 2,135.12-m drilling program comprised of 21 holes was conducted to test the dip of the mineralization against the original interpretation for Phase 4. The drilling program confirmed that the dip of the mineralization was as originally outlined and that the mineral zone encountered in Phase 3 was an anomaly.

Table 10.5 summarizes the significant gold intersection for the RC drilling conducted on Phase 4.

Table 10.5
Summary of the Location and Significant Assays for the RC Drilling Below Phase 4 of the San Francisco
Pit

							Min	eral Drill	Intersect	ions
Drill Hole Number	Depth (m)	Angle (°)	Azimuth (°)	Section Line	Mine Phase	Bench (Elev)	From (m)	To (m)	True Width (m)	Au (g/t)
TF-3646	112.776	-50	205	860W	4B	600	76.20	94.49	18.29	0.818
TF-3647	115.824	-50	205	880W	4B	600	67.05	96.01	28.96	1.006
TF-3648	146.3	-50	205	900W	4B	600	30.48	146.30	115.82	0.832
TF-3649	134.11	-47	205	920W	4B	600	59.44	68.58	9.14	0.379
11-3049	134.11	-4/	203	920 W	4 D	000	94.49	120.39	25.90	0.389
TF-3650	70.1	-90	0	580W	4B	600	9.14	13.72	4.57	0.808
11-3030	70.1	-90	U	300 W	4D	000	27.43	33.53	6.10	0.751



							Min	eral Drill	Intersect	ions					
Drill Hole Number	Depth (m)	Angle (°)	Azimuth (°)	Section Line	Mine Phase	Bench (Elev)	From (m)	To (m)	True Width (m)	Au (g/t)					
							39.62	42.67	3.05	6.351					
							64.01	68.58	4.57	0.689					
TF-3651	97.54	-72	205	1080W	4B	600	0.00	76.02	76.02	0.606					
							0.00	4.57	4.57	0.444					
TF-3652	73.15	-73	205	1100W	4B	600	35.05	54.86	19.81	0.443					
							62.48	67.06	4.57	0.345					
TF-3653	103.63	-58	205	600W	4B	Ramp to	1.52	24.38	22.86	0.345					
11-3033	103.03	-36	203	000 W	4D	Phase 3	47.24	102.11	54.86	1.086					
						Dame to	13.72	28.96	15.24	0.267					
TF-3654	123.44	-47	205	620W	4B	Ramp to Phase 3	41.15	50.29	9.14	1.941					
						r nase 3	73.15	123.44	50.29	0.522					
TF-3655	91.44	-62	205	640W	4B	Ramp to	3.05	27.43	24.38	0.388					
11-3033	91.44	-02	203	040 W	4D	Phase 3	71.63	91.44	19.81	0.946					
						Dame to	0.00	15.24	15.24	0.501					
TF-3656	60.96	-90	0	660W	4B	Ramp to Phase 3	24.38	27.43	3.05	2.157					
						r nase 3	48.77	51.82	3.05	0.668					
TF-3657	91.44	-90	0	760W	4B	Ramp to	0.00	24.38	24.38	0.441					
11-3037	91.44	-90	U	700 W	4D	Phase 3	60.96	79.25	18.29	0.344					
TF-3658	91.44	-65	205	720W	4B	Ramp to	4.57	33.53	28.96	0.318					
11-3038	91.44	-03	203	720 W	4D	Phase 3	44.20	67.06	22.86	0.447					
TF-3659	100.58	-90	0	820W	4B	Ramp to	0.00	53.34	53.34	0.737					
11-3039	100.38	-90	U	820 W	4D	Phase 3	71.63	86.87	15.24	0.255					
TF-3660	115.82	-50	205	940W	4B	600	54.86	92.96	38.10	0.535					
TF-3661	67.06	-70	205	1000W	4B	600	54.86	62.48	7.62	0.757					
TF-3662	85.34	-60	205	1060W	4B	600	21.34	64.01	42.67	0.305					
TF3663	128.16	-55	205	1040W	4B	600	60.96	120.40	59.44	0.622					
TF-3664	100.58	-68	205	1000W	4B	600	62.48	92.96	30.48	0.520					
TE 2665	115.00	<i>c</i> 0	205	000117	4D	600	42.67	53.34	10.67	1.767					
TF-3665	115.82	-60	205	980W	4B	4B	4B	4B	4B	4B	600	80.77	97.54	16.76	0.432
TF-3666	109.72	-58	205	960W	4B	600	41.15	47.24	6.10	13.405					

10.5 EXPLORATION DRILLING 2014 TO 2015 ON THE SAN FRANCISCO PROPERTY

From July to September, 2014, a total of 21,202.27 m of RC, core and RAB drilling was completed on the targets to the north of the San Francisco pit. This drilling included 3 RAB sections over 5 km in length, with RAB drilling on the La Mexicana-Vetatierra corridor, the 1B area and the La Vetatierra target. The 1B area and La Vetatierra targets were drilled using both core and RC equipment. The objective of this drilling was to provide geological evidence for the discovery of a new gold deposit in the area closest to the existing mining operation, that could act as either a satellite pit or standalone operation.

Table 10.6 summarizes the number of drill holes and metres for each type of drilling conducted north of the San Francisco Pit.



Table 10.6 Summary of the Location, Type, Metres Drilled and Number of Drill Holes for the Programs North of the San Francisco Pit

Project	Drill Type	Total Metres	Number of Holes
Sección 1 (3500W)	RAB	2,060.87	52
Sección 2 (4100W)	RAB	1,761.74	53
Sección 3 (4700 W)	RAB	1,725.17	55
1B	RC	8,040.40	57
1B Core	Core	758.7	3
Vetatierra	Core	2,311.3	6
Vetatierra	RC	1,197.86	4
La Mex-La Vet	RAB	3,133.34	69
La Playa	RC	213.36	2

Table provided by Alio Gold Inc.

10.5.1 RAB Drilling North of the San Francisco Mine

The objective of the RAB drilling was to gain a better understanding of the structural and geochemical controls of the gold mineralization within a 5 km by 2 km structural corridor identified previously by surface mapping, soil sampling and air-magnetic mapping as potentially hosting areas where the flat-lying gold-bearing structures may coalesce into a larger zone.

The RAB drilling program was comprised of 5,547 m distributed in three sections separated in width by 600 m, with drill collars spaced 100 m apart along Section lines 3500W, 4100W and 4700W. The targets tested in this program included low and high magnetic anomalies, gold soils anomalies, low angle shear zones and red colour anomalies on co-alluvial soils. The various mineralized targets tested with the RAB program were La Playa, El Diez, La Mexicana, 1B and La Vann. The average depth of the RAB holes was 35 m intersecting a thickness of alluvial soil varying from 6 to 76 m. An additional 3,133 m were drilled at the La Mexicana-La Vetatierra structural corridor with 69 RAB holes distributed south and northwest of La Mexicana, including holes south of the La Vetatierra. The entire program was contained within a 2,000 by 500 m corridor.

Figure 10.16 shows the location of the RAB drilling along Section lines 3500W, 4100W and 4700W in relation to the San Francisco pit and the northern exploration targets.

Where possible, the true width of the mineralization has been reported in this section. However, for areas where the orientation of the deposit or mineralization is still under investigation the tables represent the width of the mineralization intersected in the hole and the true width of the mineralization will be determined during further exploration programs.

Of the 52 RAB drill holes collared on Section 3500W, 19 returned anomalous gold values. The results along Section line 3500W confirmed the potential extension to the west of the



mineral intercepts in the 1B area explored with RC holes during 2008, which returned some significant gold assays and trace elements.

Of the 53 RAB drill holes collared on Section 4100W, 17 returned anomalous gold values while, of the 55 RAB drill holes collared on Section 4700W, 14 returned anomalous gold values.

Figure 10.16
Plan View of the RAB Drilling along Section Lines 3500W, 4100W and 4700W

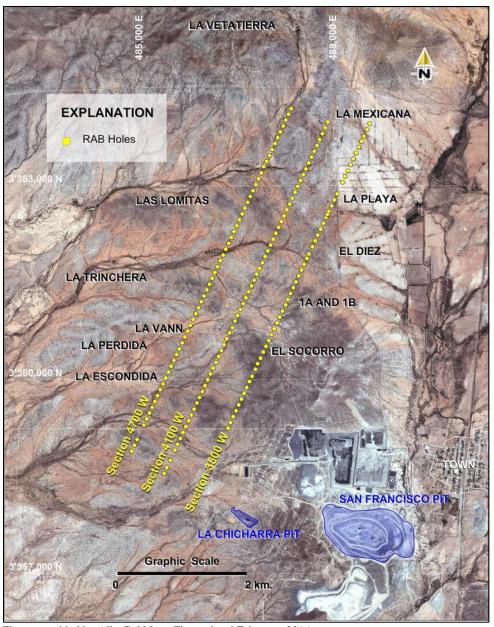


Figure provided by Alio Gold Inc. Figure dated February, 2016



Table 10.7, Table 10.8 and Table 10.9 summarize the most significant RAB drill intersections along Sections 3500W, 4100W and 4700W.

Table 10.7
Summary of the Most Significant RAB Drill Intersections along Section 3500W

		Mine	ralized Inters	ection	
RAB Hole No.		From (m)	To (m)	Width (m)	Au (g/t)
R14-096		4.06	6.09	2.03	0.846
R14-102		18.29	24.38	6.10	0.353
R14-120		4.06	14.22	10.16	0.663
K14-120		22.35	30.48	8.13	0.222
R14-133		20.32	30.48	10.16	5.515
K14-133	Include	20.32	22.35	2.03	25.900
R14-137		30.48	32.51	2.03	2.010
		50.80	58.93	8.13	0.813

Table provided by Alio Gold Inc.

Table 10.8
Summary of the Most Significant RAB Drill Intersections along Section 4100W

D.I.D.	Mineralized Intersection							
RAB Hole No.	From (m)	To (m)	Width (m)	Au (g/t)				
R14-148	12.19	16.26	4.06	0.455				
R14-149	12.19	22.35	10.16	0.263				
R14-154	16.25	24.38	8.13	1.426				
R14-159	28.45	30.48	2.03	0.254				
R14-160	14.22	18.29	4.07	3.499				
R14-176	6.10	12.19	6.10	0.215				

Table provided by Alio Gold Inc.

Table 10.9 Summary of the Significant RAB Drill Intersections along Section 4700W

	Mineralized Intersection							
RAB Hole No.	From (m)	To (m)	Width (m)	Au (g/t)				
R14-207	10.16	12.19	2.03	0.531				
R14-211	8.13	16.26	8.13	2.500				
R14-214	14.22	20.32	6.10	0.278				

Table provided by Alio Gold Inc.

Based upon the results of the RAB holes drilled on the section lines, a number of areas were selected for RC follow up drilling, including those located across the projection of the mineralization to the west of the 1B area. The RC drilling focused on exploring the potential continuity of the mineral intersections along strike and down dip, primarily given that the



mineral intersections are located between surface and a maximum vertical depth of 60 m for the RAB drilling.

10.5.2 La Mexicana – Vetatierra RAB Drilling

A total of 3,133.34 m were drilled within the low magnetic and gold soil geochemistry anomaly structural corridor between the La Mexicana Project and La Vetatierra Project. The La Mexicana Project was previously drilled in 2009 and has yielded a series of high grade quartz-tourmaline veins with grades of up to 47 g/t Au. The more recent drilling has demonstrated that the area has the potential to host a bulk minable gold deposit but there is also the potential that it could become a high grade vein style target due the encouraging gold assays results. Alio conducted various interpretations of the vein structures to determine if there is a single vein or a set of veins with high grade gold values that may be traceable by core drill holes.

Table 10.10 summarizes the best mineral intersections for the RAB drilling in the corridor between the La Mexicana and La Vetatierra Projects

Table 10.10 Summary of the Significant RAB Drilling Results for the Area Between the La Mexicana and La Vetatierra Projects

		N	Iineralized	Intersection	ns	
RAB Hole Number		From (m)	To (m)	Width (m)	Au (g/t)	Ag (g/t)
R14-258		6.10	8.13	2.03	0.484	3.5
K14-238		28.448	30.48	2.03	1.483	6
R14-260		8.13	14.22	6.10	10.00	43.33
K14-200	including	10.16	12.19	2.03	28.00	121
R14-265		14.22	16.26	2.03	1.551	14
R14-295		14.22	18.29	4.06	4.383	1.5
R14-300		30.48	32.51	2.03	1.446	<1
R14-310		14.22	16.26	2.03	1.774	<1
R14-311		32.51	34.54	2.03	3.349	3
R14-312		6.10	8.13	2.03	3.362	44

Table provided by Alio Gold Inc.

10.5.3 1B Area RC and Core Drilling in 2014

The 1B area is located 3.2 km north of the San Francisco pit. The area explored with RC drilling comprises a quadrangle of approximately 1,000 m by 300 m where geological mapping has indicated there are a pair of shear zones containing gold mineralization at surface. These shear zones are spaced an average of 300 m apart, corresponding to the footwall and hangingwall of a wide shear zone, respectively. A first pass drilling program was initiated in order to form a better understanding of how the gold mineralization is related to the low angle highly oxidized, quartz vein shear zone hosted in granitic rocks.



A total of 8,040.40 m of RC drilling in 57 widely spaced holes were completed north of the main shear zone within an area covered by co-alluvial material, with the goal of following up on the gold mineralization intercepted by the RAB drill holes containing significant assay results close to surface. The gold mineralization intercepted by the drilling is hosted by highly pyritic intervals related to the shear zone and to its hangingwall and footwall. The shear zone is hosted by granite, gabbro, and felsic and mafic gneiss.

Of the 57 RC holes drilled, 29 holes returned significant assays from the view point that this is an early stage exploration program. The significant RC holes are distributed from Section line 3500W towards the east to the 1B Area along section lines spaced every 100 m.

Table 10.11 summarizes the significant mineral intersections encountered during the 2014 RC drilling program at the 1B Area.

Table 10.11 Summary of Significant 2014 RC Drilling Intersections in the 1B Area

D WITT I	D 41		A	G 4:		Mineraliz	ed Intersecti	ions	
Drill Hole Number	Depth (m)	Angle	Azimuth	Section Line		From	To	Width	Au
Number	(111)	(°)	(°)	Line		(m)	(m)	(m)	(g/t)
						1.52	4.57	3.05	1.060
1D14 001	201 160	205	60	2900W		27.432	38.1	10.67	0.407
1B14-001	201.168	205	-60	2900 W		57.912	59.436	1.52	0.121
						185.93	188.98	3.05	0.206
						1.52	3.05	1.52	0.141
1B14-002	201.168	205	-60	2900W		76.20	77.72	1.52	0.100
						94.49	96.01	1.52	0.267
						50.29	53.34	3.05	0.183
						79.25	80.77	1.52	0.108
						96.01	100.58	4.57	0.367
1B14-003	213.36	205	-60	2900W		108.20	109.73	1.52	0.275
						112.78	115.82	3.05	2.020
						121.92	123.44	1.52	0.814
						137.16	138.68	1.52	0.169
						161.54	164.59	3.05	0.298
1D14 004	204.216	205	60	2000337		170.688	187.452	16.76	0.588
1B14-004	204.216	205	-60	2900W	Including	181.356	185.928	4.57	1.601
						193.548	198.12	4.57	0.173
						9.14	18.29	9.14	0.479
1B14-005	219.216	205	-60	2800W		30.48	51.82	21.34	0.519
					Including	32.004	41.148	9.14	1.000
						6.10	7.62	1.53	1.995
						15.25	18.30	3.05	0.176
						24.40	25.92	1.53	0.113
1B14-006	100.645	0	-90	3600W		27.45	30.50	3.05	0.135
						36.60	41.17	4.58	0.158
						45.75	47.27	1.53	0.140
						51.85	54.90	3.05	1.244
1B14-007	100.65	0	-90	3600W		7.62	9.15	1.53	0.314
1014-00/	100.03	U	-90	3000 W		64.05	73.20	9.15	0.202



						Mineralize	ed Intersecti	ions	
Drill Hole	Depth	Angle	Azimuth	Section		From	То	Width	Au
Number	(m)	(°)	(°)	Line		(m)	(m)	(m)	(g/t)
						86.92	96.07	9.15	0.241
		_				6.10	13.72	7.63	0.378
1B14-008	103.70	0	-90	3600W		19.82	21.35	1.53	0.171
						0.00	1.52	1.52	0.203
47.4.000	400 70					12.19	21.33	9.14	0.314
1B14-009	100.58	0	-90	3600W		25.90	27.43	1.52	0.129
						88.39	96.01	7.62	0.306
						10.67	12.20	1.53	0.124
						21.35	25.92	4.58	0.322
1B14-010	100.65	0	-90	3600W		41.17	42.70	1.53	0.285
						45.75	48.80	3.05	0.142
						54.90	59.47	4.58	0.738
						1.52	3.05	1.52	0.454
						47.27	48.80	1.53	0.111
1D14 011	10672	0	00	260011		57.95	59.47	1.53	0.145
1B14-011	106.73	0	-90	3600W		62.52	70.15	7.62	0.475
						77.77	82.35	4.58	0.409
						85.40	86.92	1.53	0.114
						9.15	13.72	4.58	0.162
1D14 012	100.65	0	-90	3500W		28.97	30.50	1.53	0.177
1B14-012	100.65	0	-90	3300W		36.60	38.12	1.53	0.109
						41.17	42.70	1.53	1.580
						24.40	33.55	9.15	2.660
1B14-013	100.65	0	-90	3500W	Including	27.45	32.02	4.57	5.027
1014-013	100.03	U	-90	3300 **		48.80	53.37	4.58	0.134
						56.42	61.00	4.58	0.431
B14-014	100.584	0	-90	3500W		0.00	9.15	9.15	0.264
1B14-015	131.064	0	-90	3400W		21.33	22.86	1.52	1.745
						1.52	4.57	3.05	0.354
1B14-016	100.58	0	-90	3400W		83.87	85.40	1.52	0.204
						89.16	91.44	1.52	0.102
1B14-017	100.58	0	-90	3400W		1.52	4.57	3.05	0.354
1014 017	100.50	Ü		340011		39.62	41.15	1.52	2.480
						10.67	13.72	3.05	0.224
1B14-018	100.58	0	-90	3400W		77.77	80.82	3.05	0.166
						96.07	97.60	1.53	0.381
1B14-019	106.68	0	-90	3400W		105.22	106.75	1.53	0.210
1B14-020	106.68	0	-90	3400W	ļ.,,	NO MINERA	1		
1B14-021	210.31	205	-60	2800W		134.11	137.16	3.05	0.618
						205.74	208.79	3.05	0.114
4D4 (000	204.17	26.7		2000		88.39	91.44	3.05	1.694
1B14-022	201.17	205	-60	2800W		123.44	131.06	7.62	0.660
						134.11	135.64	1.52	0.209
						3.05	7.62	4.57	0.227
1B14-023	225.55	205	-60	2800W		32.00	33.53	1.52	0.203
	223.33		-60	2000W		118.87	121.92	3.05	0.348
474 (27 (204.17	26.7	40	200077		124.97	126.49	1.52	0.595
1B14-024	201.17	205	-60	3000W		NO MINERA	AL INTERC	EPTS	



					Mineralized Intersections From To Width Au							
Drill Hole	Depth	Angle	Azimuth	Section		From	То	Width	Au			
Number	(m)	(°)	(°)	Line		(m)	(m)	(m)	(g/t)			
		• • •				32.00	33.53	1.52	0.397			
1B14-025	219.45	205	-60	3100W		132.588	135.636	3.05	0.360			
1B14-026	100.58	0	-90	3400W		47.24	48.77	1.52	0.311			
1B14-027	100.584	0	-90	3300W		NO MINERAL INTERCEPTS						
						19.81	25.91	6.10	0.138			
1B14-028	112.77	0	-90	3300W		54.86	79.25	24.38	0.265			
					Including	60.96	65.53	4.57	0.463			
						0.00	4.57	4.57	0.156			
1B14-029	103.63	0	-90	3300W		30.48	33.53	3.05	0.238			
						38.10	44.20	6.10	0.493			
1B14-030	106.68	0	-90	3300W		15.24	16.76	1.52	0.292			
				3300W		47.24	48.77	1.52	0.133			
1D14 021	201 169	205	60	200011		6.10	9.14	3.05	0.264			
1B14-031	201.168	205	-60	3000W		80.77	82.30	1.52	0.644			
						1.52	4.57	3.05	0.548			
						41.15	44.20	3.05	0.183			
1B14-032	210.32	205	-60	3000W		126.50	128.02	1.52	1.185			
						138.68	143.26	4.57	0.772			
						146.30	147.83	1.52	1.029			
1B14-033	201.17	205	-60	3000W		30.48	33.53	3.05	0.427			
1B14-034	100.58	0	-90	3100W		NO MINER	AL INTERCPTS					
1B14-035	109.78	0	-90	3100W		16.76	28.96	12.19	0.155			
						4.57	7.62	3.05	0.226			
1B14-036	100.58	0	-90	3300W		27.43	28.96	1.52	2.070			
						59.44	73.15	13.72	2.538			
1D14 027	100.50	0	00	220011		0.00	6.10	6.10	0.143			
1B14-037	100.58	0	-90	3200W		12.19	16.76	4.57	0.170			
1D14 020	106.60	0	00	220011		12.19	15.24	3.05	0.176			
1B14-038	106.68	0	-90	3200W		32.00	33.53	1.52	0.203			
						42.67	48.77	6.10	0.147			
1B14-039	103.63	0	-90	3200W		56.38	57.91	1.53	0.341			
						62.48	67.06	4.57	0.283			
1B14-040	100.58	0	-90	3200W		86.87	94.49	7.62	0.186			
						3.05	7.62	4.57	0.221			
						33.53	35.05	1.52	0.135			
						68.58	70.10	1.52	1.845			
1B14-041	100.58	0	-90	3100W		74.68	76.20	1.52	0.114			
						79.25	82.30	3.05	0.319			
						86.87	89.92	3.05	0.267			
						96.01	97.54	1.52	0.672			
						25.91	27.43	1.52	0.118			
1B14-042	103.632	0	-90	3100W		30.48	36.58	6.10	0.852			
						74.68	76.20	1.52	0.177			
1B14-043	106.68	0	-90	3400W		36.58	39.62	3.05	0.206			
1B14-044	100.58	0	-90	3200W		38.10	45.72	7.62	0.496			
1B14-045	100.58	0	-90	3100W		NO MINER	AL INTERO	CPTS				
1B14-046	100.58	0	-90	3100W		NO MINER	AL INTERO	CPTS				
1B14-047		0	-90	3100W	0W NO MINERAL INTERCPTS							



Dell Hala	Domáh	Amala	Azimuth	Section	Mineralize	d Intersecti	ons	
Drill Hole Number	Depth (m)	Angle (°)	Azimuth (°)	Line	From	To	Width	Au
Number	(111)		()	Line	(m)	(m)	(m)	(g/t)
					4.57	6.10	1.52	0.179
				3200W	24.38	25.91	1.52	0.139
1B14-048	314-048 106.68	0	-90		45.72	47.24	1.52	0.359
					60.96	62.48	1.52	0.421
					67.06	68.58	1.52	0.179
					30.48	32.00	1.52	0.368
					45.72	51.82	6.10	0.249
1D14 040	100.584	205	-70	3200W	57.91	60.96	3.05	0.673
1B14-049 1	100.584	203	-70	3200W	64.01	68.58	4.57	0.241
				-	86.87	88.39	1.52	0.150
					94.49	96.01	1.52	0.225

In 2014, 3 core holes were drilled within the 1B area. The holes were collared with the objective of confirming the higher grades intercepted by the previous RC drill holes and to obtain a better understanding of the geological and structural controls for the mineralization.

Hole 1BD14-001 was collared on Section 3500W to probe the high grade mineralization encountered by RAB and RC drilling. The mineralization was not intercepted by drilling and it is believed that mineralization is pinching out at depth.

Hole 1BD14-002 was collared on Section 3300W to test the low grade mineralization encountered by hole 1B14-028. Its purpose was to test the hypothesis that there was the possibility of some loss of gold with RC drilling and that core drilling may result in a higher grade. The second objective was to intercept the possible feeder zone of the high grade mineralization intercepted by drill hole 1B14-036. The grade of the mineralization intercepted is very similar in both holes, so there appears to be no gold lost in the RC drilling. The possible feeder zone was not located in the hole.

On Section 2800W, hole 1BD14-003 was collared 50 m north of the RC hole 1B14-005 to intercept the down dip projection of gold mineralization. This hole intercepted 11.10 m grading 0.627 g/t Au, which corresponds to the down dip projection of the mineralization intercepted by RC drill hole 1B14-005.

Table 10.12 summarizes the significant assay results from the three 2014 core holes within the 1B area.



Table 10.12 Summary of the Significant Assay Results for the Three Core Holes Drilled in the 1B Area

						Mineralized	Drill Inte	rsections	
Drill Hole Number	Depth (m)	Angle (°)	Azimuth (°)	Section Line		From (m)	To (m)	Width (m)	Au (g/t)
1BD14-001	299	-70	205	3500W		6.75	11.00	4.25	0.163
1BD14-001	299	-70	203 3300W			111.45	114.7	3.25	0.186
						18.00	21.00	3.00	0.137
1BD14-002	263	-70	205 3300W			49.50	74.00	24.50	0.218
						191.5	193	1.50	0.176
						0.00	2.00	2.00	0.998
						15.20	16.70	1.50	0.112
						45.00	45.70	0.70	0.653
1BD14-003	196.7	-60	205	2800W		48.50	50.00	1.50	0.231
						67.70	70.70	3.00	0.193
					74.60	85.70	11.10	0.627	
					including	76.30	80.05	3.75	1.491

A closer-spaced drilling program, approximately 50 m by 25 m apart, within an area 200 m long by 100 m wide was scheduled to the east of the 1B area where the holes 1B14-005 and TF-048 intercepted gold mineralization close to surface. The objective of this second round of drilling was to determine if the mineralization could be of sufficient grade to potentially host a satellite open pit, heap leach deposit which could feed the San Francisco operation. The drill program was not completed due an in-pit drilling program at the San Francisco pit which was deemed to be a higher priority program.

However, 13 RC holes totalling 2,419.64 m were drilled in an area of 120 by 100 m to the north and on east side of the 1B14-005. The best gold intercepts were in drill hole 1B14-051 grading 2.025 g/t over 4.57 m, drill hole 1B14-057 grading 1.506 g/t Au over 9.14 m including 4.160 g/t Au over 3.05 m, and 2.469 g/t Au over 4.57 m including 7.102 g/t Au over 1.524 m, and in drill hole 1B14-068 with 1.553 g/t Au over 7.62 m including 3.481 g/t Au over 3.05 m.

Figure 10.17 is a plan view of the RAB, RC and core drilling conducted in the 1B area.



EXPLANATION Alluvial Limestone Felsic Gneiss Mafic Gneiss Granite Gabbro Dioritic Dike Monzonitic Dike Andesite Dike Pegmatite Lamphyry Dike Stokwork Breccia RC Drilling Core RAB Drilling 2008 Timmins Drilling 3'361.000 N Graphic Scale 250 m.

Figure 10.17
Plan View of the RAB, RC and Core Drilling Conducted in the 1B Area

Figure provided by Alio Gold Inc. and dated February, 2016.

The drilling conducted to date does not appear to have identified a bulk low grade gold deposit that could be mined by open pit methods at the 1B area. However, some of the area is still open to testing and some high grade structural zones are still open in the area as well.

The mineralization identified to date occurs as fine grained gold disseminationed in what seems be highly pyritic structural zones. The pyrite content is very high and the gold may be associated with these high sulphur zones, in addition to a local quartz pyrite and rare quartz tourmaline veins. Occurrence of the gold mineralization is most likely similar to the La Chicharra deposit rather than the San Francisco deposit. At the La Chicharra deposit, the gold mineralization is related to a confined, moderately dipping structural zone with a high iron oxide content that may occur after pyrite deposition and some of the ore may be supergene gold enrichment.

Further work will be necessary to fully understand the nature and extent of the mineralization at the 1B area.



10.5.4 Vetatierra Area

The Vetatierra Project is located approximately 8 km north of the San Francisco Mine. The geology is dominated by detrital sediments of the El Represo Formation intruded by small stocks of fine grain diorite and diorite dikes. The diorite stock covers an area of 600 m by 200 m oriented to the northeast. The contacts between the sediments and diorite intrusions developed an alteration halo forming metamorphic rocks containing low grade gold mineralization.

Core and RC drilling was conducted in an area 1.2 km by 0.3 km oriented to the northeast, to test the surface gold mineralization encountered within and around the dioritic stocks. The gold mineralization at La Vetatierra is related to quartz-tourmaline, quartz-tourmaline-pyrite and quartz-pyrite veins and veinlets. The initial rock chip samples collected returned significant gold values. Sample 4601 returned the highest gold value of 29.56 g/t Au, 27.1 g/t Ag and 0.35% Pb and sample 4857 yielded 1.0 g/t Au, 905.5 g/t Ag, 3.63% Pb. Chip channel sampling on trenches over the dioritic stock returned significant gold values, including 10 m grading 6.01 g/t Au and 4.63 g/t Ag, including 2 m of 26.61 g/t Au and 2.52 g/t Ag, and 44 m grading 0.39 g/t Au and 1.92 g/t Ag.

The first phase of the drilling program comprised 6 core holes totalling 2,311.3 m and 4 RC holes totalling 1,197.86 m strategically distributed along the dioritic stock and its alteration halo. The first core hole, VT14-001, intersected multiple mineralized intervals confirming the down dip projection of the surface gold values. However, both lower gold grades and narrower intervals were intersected, although the alteration in the diorite and the metasedimentary sequence looks impressive, with sericite, pyrite, magnetite, and quartz and quartz-tourmaline veins among others encountered. The most significant mineralized interval is contained within hole VT14-002 which graded 1.286 g/t Au over 33.85 m, including 1.879 g/t Au over 22.40 m or 3.260 g/t Au over 12.50 m.

Additional RC holes, VTRC14-001 and VTRC14-004, were collared 50 and 100 m apart to the southwest of hole VT14-002. Drill holes VTRC14-002 and VTRC14-003 were collared 50 m northeast of hole VT14-002 along the same section, to follow up the immediate down and up dip projection of the gold intersections detected by VT14-002. Holes VTRC14-001, 002 and 003 all intercepted the gold mineralization, although with different and more intermittent grades.

Judging from the section drilled at the La Vetatierra Project, the mineralization is most likely an open quartz tourmaline and quartz-pyrite stockwork hosted by the fine grain diorite stock. Therefore, at this time, the interpretation of the mineralized zones is difficult and remains to be determined, although the main mineralized zones tend to be flat and gently dipping to the south.

Table 10.13 summarizes the significant core intersections from the 2014 drilling program at the Vetatierra Project.



Table 10.13 Summary of the Significant 2014 Core Intersections at the Vetatierra Program

Dudii II ala	Dom4h	Amala	A:41-	Continu		Mine	ral Drill	Intersect	ions	
Drill Hole Number	Depth (m)	Angle (°)	Azimuth (°)	Section Line		From	To	Width	Au	Ag
Nullibei	(III)			Line		(m)	(m)	(m)	(g/t)	(g/t)
						16.50	21.00	4.50	0.199	1.996
						25	30	5.00	0.386	0.945
						44	44.5	0.50	0.595	2.280
						54	57	3.00	0.451	3.878
						76.5	78	1.50	0.329	1.770
						106.5	109	2.50	0.401	4.674
						114	114.5	0.50	0.154	3.830
						121.4	122.3	0.90	0.266	7.150
						132.8	139.5	6.70	0.750	2.691
					including	138	139.5	1.50	2.490	6.883
						163.55	168.75	5.20	0.394	4.395
						175.4	175.9	0.50	0.139	2.410
						180	183	3.00	0.330	7.900
						186.1	187.4	1.30	0.140	9.620
						191.8	196	4.20	0.112	2.152
VT14-001	539.1	205	-60			234	234.9	0.90	2.580	49.400
						255	256.5	1.50	0.220	3.090
						285.3	292.4	7.10	0.380	5.297
						303.1	305.35	2.25	0.947	19.230
						308.35	309.85	1.50	0.223	5.280
						312.85	318.35	5.50	0.189	1.807
						328	333.9	5.90	0.109	1.603
						348.5	350	1.50	0.671	10.650
						353	359	6.00	0.146	7.388
						369.8	370.75	0.95	0.215	4.000
						390.2	390.7	0.50	0.255	8.880
						397	397.5	0.50	1.395	1.530
						409.5	412.5	3.00	0.347	1.950
						438	438.8	0.80	1.075	13.900
						484.7	485.2	0.50	0.522	4.630
						534	535.5	1.50	0.666	1.390
						13.50	18.00	4.50	0.147	1.172
						21.00	25.50	4.50	0.614	0.600
						33.90	36.80	2.90	0.130	0.576
						58.15	58.90	0.75	0.544	3.340
						76.10	77.20	1.10	0.323	2.130
						92.50	94.50	2.00	0.119	1.180
VT14-002	352.9	205	-60			115.50	149.35	33.85	1.286	1.599
V 1 14-002	334.7	203	-00		including	115.50	137.90	22.40	1.879	1.960
						121.50	134.00	12.50	3.260	2.600
						155.20	158.85	3.65	0.140	1.691
						178.00	188.60	10.60	0.221	0.647
						184.50	185.15	0.65	1.575	1.920
						187.30	188.60	1.30	0.218	1.930
						198.40	207.75	9.35	0.218	11.050



B 111 11	- ·			g		Mine	ral Drill	Intersect	ions	
Drill Hole Number	Depth	Angle	Azimuth	Section Line		From	To	Width	Au	Ag
Number	(m)	(°)	(°)	Line		(m)	(m)	(m)	(g/t)	(g/t)
					including	201.25	201.75	0.50	0.551	69.100
						230.40	242.30	11.90	0.479	1.929
						245.30	246.80	1.50	1.745	18.250
						37.50	39.00	1.50	1.485	0.390
VT14-003	340.4	205	-60			40.50	41.10	0.60	0.261	0.460
						75.20	78.00	2.80	0.126	9.580
						4.50	6.50	2.00	8.640	1.590
						15.55	16.65	1.10	0.105	1.800
						28.10	29.45	1.35	2.180	2.310
						35.75	36.95	1.20	0.126	0.270
						118.95	120.20	1.25	0.147	1.230
						132.65	134.15	1.50	0.284	2.000
						145.00	146.50	1.50	0.101	1.020
						161.30	162.40	1.10	0.465	1.730
						164.28	165.75	1.47	0.164	1.840
						167.15	168.50	1.35	0.153	0.400
						184.00	187.00	3.00	0.119	0.500
						211.50	213.00	1.50	0.111	0.800
						219.10	220.60	1.50	0.384	0.800
VT14-004	414	205	-60			223.50	225.00	1.50	0.160	0.500
						225.70	226.50	0.80	0.211	0.400
						232.80	233.60	0.80	0.110	1.800
						240.50	241.95	1.45	0.771	1.800
						266.00	267.50	1.50	0.100	1.100
						273.50	274.00	0.50	0.110	0.500
						277.00	278.50	1.50	0.263	0.300
						281.00	290.00	9.00	0.141	1.248
						299.00	299.50	0.50	0.498	2.400
						304.00	305.40	1.40	0.296	4.900
						310.30	311.00	0.70	0.602	0.500
						314.55	315.65	2.00	0.398	25.800
						323.85	325.50	1.65	0.645	18.600
						384.50	385.50	1.00	0.207	0.800
						9.00	10.20	1.20	0.122	0.400
						24.10	32.00	7.90	0.282	0.539
						40.10	41.60	1.50	0.103	1.200
						76.90	78.40	1.50	0.112	0.400
						86.85	90.95	4.10	0.538	0.654
						110.45	113.85	3.40	0.133	1.656
VT14-005	392.4	165	60			136.60	138.25	1.65	1.141	1.400
V 1 14-003	392.4	103	-60			143.80	144.50	0.70	0.737	2.100
						153.50	155.00	1.50	6.126	0.400
						157.40	163.60	6.20	0.381	0.900
						162.00	163.60	1.60	1.274	3.578
						172.00	176.50	4.50	0.163	5.500
						215.10	216.60	1.50	1.280	2.800
	<u> </u>	<u> </u>		<u> </u>		236.00	238.80	2.80	1.967	2.321
VT14-006	272.5	205	-60			8.25	9.10	0.85	0.218	5.200



Duill Hala	Domáh	Amala	A4la	Castion	Mine	ral Drill	Intersect	ions	
Drill Hole Number	Depth (m)	Angle (°)	Azimuth (°)	Section Line	From	To	Width	Au	Ag
Nullibei	(111)	()	()	Line	(m)	(m)	(m)	(g/t)	(g/t)
					27.70	29.40	1.70	0.166	3.000
					60.50	62.50	2.00	0.260	1.200
					76.35	77.40	1.05	0.238	1.300
					89.80	95.45	5.65	0.291	7.800
					108.15	108.90	0.75	0.478	5.400
					123.05	124.65	1.60	0.112	0.700
					136.50	138.00	1.50	0.555	3.400
					171.00	172.50	1.50	0.725	10.400
					175.50	177.40	1.90	0.386	8.200

Table 10.14 summarizes the significant RC intersections from the 2014 drilling program at the Vetatierra Project.

Table 10.14 Summary of the Significant 2014 RC Intersections at the Vetatierra Program

D 111 1	D (1			g]	RC Mine	eralized I	nterval	
Drill Hole	Depth	Angle	Azimuth	Section		From	To	Width	Au
Number	(m)	(°)	(°)	Line		(m)	(m)	(m)	(g/t)
						10.67	12.19	1.52	0.304
						41.15	45.72	4.57	0.994
						50.29	51.82	1.52	0.223
						57.91	59.44	1.52	0.138
						73.15	77.72	4.57	0.122
						86.87	91.44	4.57	0.180
						94.49	97.54	3.05	1.163
						112.78	114.30	1.52	0.179
						118.87	129.54	10.67	0.164
VTRC14-	316.992	205	-60			144.78	152.40	7.62	1.384
001	310.992				including	149.35	150.88	1.52	6.129
						158.50	160.02	1.52	0.473
						163.07	167.64	4.57	0.248
						172.21	188.98	16.76	0.232
						195.07	199.64	4.57	0.112
						202.69	204.22	1.52	0.529
						208.79	213.36	4.57	0.184
						219.46	220.98	1.52	0.410
						231.65	236.22	4.57	0.150
						263.65	265.18	1.52	0.156
						4.57	6.10	1.52	0.149
						18.29	19.81	1.52	0.224
						25.91	27.43	1.52	0.129
VTRC14-	326.136	205	-60			39.62	41.15	1.52	0.117
002	320.130	203	-60			44.20	45.72	1.52	0.158
						50.29	53.34	3.05	3.854
					including	50.29	51.82	1.52	7.597
						57.91	73.15	15.24	0.126



Number Color Col	D 111 11 1	D (1			G 41		RC Mine	eralized l	nterval	
Number (m) (f) (f) Line (m) (m) (m) (m) (g) 88.77 83.82 3.05 0.0 106.68 108.20 1.52 0.0 111.25 118.87 7.62 0.0 111.25 118.87 7.62 0.0 111.25 118.87 7.62 0.0 111.25 118.87 7.62 0.0 123.44 132.59 9.14 0.0 138.68 149.35 10.67 0.0 120.0 1	Drill Hole	Depth	Angle	Azimuth	Section					Au
VTRC14- 003 VTRC14- 004 430.175 0 -90 -90 -90 -90 -90 -90 -90 -	Number	(m)	(°)	(°)	Line					(g/t)
VTRC14- 003 VTRC14- 004 VIRC14- 004 VIRC1								_ ` /	. ,	0.177
VTRC14- 003 VTRC14- 004 VIRC14- 004 VIRC1										0.141
VTRC14- 003 VTRC14- 004 Quantification in the state of the part of the state of the part of the state of the part										0.412
VTRC14- 003 0 111.25 118.87 7.62 0. 123.44 132.59 9.14 0. 138.68 149.35 10.67 0. 163.07 164.59 1.52 0. 170.69 172.21 1.52 0. 224.03 227.08 3.05 1. including 224.03 225.55 1.52 2. 275.84 281.94 6.10 0. 284.99 286.51 1.52 0. 32.00 33.53 1.52 0. 32.00 33.53 1.52 0. 32.00 33.53 1.52 0. 32.00 33.53 1.52 0. 38.10 41.15 3.05 0. 47.24 48.77 1.52 0. 32.00 13.53 1.52 0. 38.80 41.15 3.05 0. 47.24 48.77 1.52 0. 59.44 94.49 35.05 0. including 59.44 71.63 12.19 0. 59.44 94.49 10.67 0. 99.06 102.11 3.05 0. 105.16 106.68 1.52 0. 112.78 114.30 1.52 0. 112.78 114.30 1.52 0. 112.78 114.30 1.52 0. 112.78 114.30 1.52 0. 112.78 114.30 1.52 0. 112.78 114.30 1.52 0. 112.78 114.30 1.52 0. 112.78 114.30 1.52 0. 208.79 211.84 3.05 0. 208.79 211.84 3.05 0. 226.51 282.2 3.05 0. 226.51 282.2 3.05 0. 2277.37 280.42 3.05 0. 224.38 3.05 0. 225.38 4.48 5.15 0. 225.38 4.48 5.15 0. 226.51 3.52 0. 226.51 3.52							106.68	108.20		0.181
VTRC14-003 VTRC14-004 301.75 0.163.07 164.59 1.52 0. 170.69 172.21 1.52 0. 224.03 227.08 3.05 1. including 224.03 225.55 1.52 2. 275.84 281.94 6.10 0. 284.99 286.51 1.52 0. 3.05 7.62 4.57 0. 243.8 25.91 1.52 0. 38.10 41.15 3.05 0. 38.10 41.15 3.05 0. 38.10 44.17 3.05 0. 38.10 44.17 3.05 0. 38.10 44.19 1.60 0. 30.00 33.53 1.52 0. 38.10 44.19 1.60 0. 30.00 33.53 1.52 0. 38.10 41.15 3.05 0. 38.10 4.86 1.52 0. 3									7.62	0.458
VTRC14-003 VTRC14-004 VTRC14							123.44	132.59	9.14	0.945
VTRC14-003 VTRC14-004 VTRC14							138.68	149.35	10.67	0.203
VTRC14-003 VTRC14-004 VTRC14							163.07	164.59	1.52	0.161
VTRC14- 003 VTRC14- 004 Including 224.03 225.55 1.52 0. 275.84 281.94 6.10 0. 284.99 286.51 1.52 0. 3.05 7.62 4.57 0. 24.38 25.91 1.52 0. 32.00 33.53 1.52 0. 38.10 41.15 3.05 0. 47.24 48.77 1.52 0. 38.10 41.15 3.05 0. 47.24 48.77 1.52 0. 48.72 49.49 35.05 0. including 59.44 71.63 12.19 0. 74.68 76.20 1.72 1.52 0. 77.72 79.25 1.52 0. 105.16 106.68 1.52 0. 112.78 114.30 1.52 0. 112.78 114.30 1.52 0. 112.78 114.30 1.52 0. 117.21 173.74 1.52 0. 199.64 201.17 1.52 0. 208.79 211.84 3.05 0. 231.65 233.17 1.52 0. 246.89 249.94 3.05 0. 225.03 257.56 1.52 0. 2265.18 268.22 3.05 0. 2277.37 280.42 3.05 0. 2294.13 301.75 7.62 0. 2294.13 301.75 7.62 0. 2294.13 301.75 7.62 0. 2294.13 301.75 7.62 0. 231.43 24.38 3.05 0. 256.39 60.96 4.57 0. 77.72 79.25 1.52 0. 2694.49 96.01 1.52 0. 277.77 279.25 1.52 0. 294.49 96.01 1.52 0. 277.77 79.25 1.52 0. 294.49 96.01 1.52 0. 294.49 96.01 1.52 0. 294.49 96.01 1.52 0. 294.49 96.01 1.52 0. 294.49 96.01 1.52 0. 294.49 96.01 1.52 0. 294.49 96.01 1.52 0. 294.49 96.01 1.52 0.							170.69	172.21	1.52	0.131
VTRC14-003 VTRC14-004 VTRC14							224.03	227.08	3.05	1.564
VTRC14- 003 VTRC14- 004 005 005 005 005 005 005 00						including	224.03	225.55	1.52	2.957
VTRC14- 003 VTRC14- 004 301.75 0 301.75 0 30.00 33.50 33.50 33.51 1.52 0. 32.00 33.53 1.52 0. 47.24 48.77 1.52 0. 59.44 94.49 35.05 0. 105.16 106.68 105.16 106.68 105.16 106.68 105.16 106.68 117.35 132.59 132.59 132.59 132.59 133.55 106.60 199.64 201.17 1.52 0. 208.79 211.84 305 0. 221.69 2277.37 280.42 305 0. 221.34 24.38 3.05 0. 221.34 24.38 3.05 0. 221.34 24.38 3.05 0. 221.34 24.38 3.05 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 24.49 96.01 1.52 0. 94.49							275.84	281.94	6.10	0.338
VTRC14- 003 VTRC14- 004 Quantification in the content of the co							284.99	286.51	1.52	0.149
VTRC14- 003 VTRC14- 003 VTRC14- 003 VTRC14- 004 OR A ST							3.05	7.62		0.106
VTRC14- 003 VTRC14- 003 VTRC14- 004 VTRC14- 004 VTRC14- 004 301.75 0 38.10 41.15 3.05 0. 47.24 48.77 1.52 0. 59.44 94.49 93.505 0. 101.61 17.63 12.19 0. 77.72 79.25 1.52 0. 83.82 94.49 10.67 0. 99.06 102.11 3.05 0. 105.16 106.68 1.52 0. 112.78 114.30 1.52 0. 115.35 132.59 152.40 0. 143.26 156.97 13.72 0. 160.02 161.54 1.52 0. 172.21 173.74 1.52 0. 199.64 201.17 1.52 0. 208.79 211.84 3.05 0. 221.34 246.89 249.94 3.05 0. 227.37 280.42 3.05 0. 227.37 280.42 3.05 0. 227.37 280.42 3.05 0. 227.37 280.42 3.05 0. 227.37 280.42 3.05 0. 227.37 280.42 3.05 0. 221.34 24.38 3.05 0. 231.65 231.75 77.72 79.25 1.52 0. 56.39 60.96 4.57 0. 77.72 79.25 1.52 0. 94.49 96.01 1.52 0. 94.49 96.01 1.52 0. 94.49 96.01 1.52 0. 94.49 96.01 1.52 0. 94.49 96.01 1.52 0. 94.49 96.01 1.52 0. 94.49 96.01 1.52 0. 94.49 96.01 1.52 0. 94.49 96.01 1.52 0.										0.200
VTRC14- 003 VTRC14- 003 VTRC14- 003 VTRC14- 004 VTRC14- 004 VTRC14- 004 VTRC14- 004 VTRC14- 004 VTRC14- 004 A 00.2								33.53		0.105
VTRC14- 004 Solution							38.10			0.684
VTRC14- 003 VTRC14- 003 VTRC14- 003 VTRC14- 004 VTRC14- 004 VTRC14- 004 VTRC14- 004 VTRC14- 004 VTRC14- 004 VTRC14- 005 Including 59.44 71.63 12.19 0. 74.68 76.20 1.52 0. 77.72 79.25 1.52 0. 83.82 94.49 10.67 0. 99.06 102.11 3.05 0. 105.16 106.68 1.52 0. 105.16 106.68 1.52 0. 112.78 114.30 1.52 0. 1117.35 132.59 15.24 0. 1143.26 156.97 13.72 0. 160.02 161.54 1.52 0. 172.21 173.74 1.52 2. 193.55 196.60 3.05 0. 199.64 201.17 1.52 0. 208.79 211.84 3.05 0. 231.65 233.17 1.52 0. 246.89 249.94 3.05 0. 2265.18 268.22 3.05 0. 2277.37 280.42 3.05 0. 2284.99 286.51 1.52 0. 294.13 301.75 7.62 0. 294.13 301.75 7.62 0. 21.34 24.38 3.05 0. 55.39 60.96 4.57 0. 55.39 60.96 4.57 0. 77.72 79.25 1.52 0. 94.49 96.01 1.52 0. 94.49 96.01 1.52 0.										0.221
VTRC14- 003 003 003 004 005 005 005 005										0.331
VTRC14- 003 VTRC14- 003 VTRC14- 003 0 -90						including				0.211
VTRC14- 003 VTRC14- 003 003 -90 -90 -90 -90 -90 -90										0.180
VTRC14- 003 VTRC14- 003 301.75 0 -90 -90 -90 -90 112.78 114.30 1.52 0. 117.35 132.59 15.24 0. 143.26 156.97 13.72 0. 160.02 161.54 1.52 0. 172.21 173.74 1.52 0. 199.64 201.17 1.52 0. 208.79 211.84 3.05 0. 231.65 233.17 1.52 0. 246.89 249.94 3.05 0. 256.03 257.56 1.52 0. 265.18 268.22 3.05 0. 277.37 280.42 3.05 0. 277.37 280.42 3.05 0. 284.99 286.51 1.52 0. 294.13 301.75 7.62 0. 294.13 301.75 7.62 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 294.13 301.75 7.62 0. 40.94 40.94 40.96 1.52 0. 40.94 40.96 40.96 40.97 40.96 40.96 40.96 40.97 40.96 40.96 40.96 40.97 40.96 40										0.243
VTRC14- 003 OTRC14- 003 OTRC14- 003 OTRC14- 004 OTRC1										0.752
VTRC14- 003 301.75										0.281
VTRC14- 003 301.75 0 -90 -90 117.35 132.59 15.24 0. 143.26 156.97 13.72 0. 160.02 161.54 1.52 0. 172.21 173.74 1.52 2. 199.64 201.17 1.52 0. 208.79 211.84 3.05 0. 231.65 233.17 1.52 0. 246.89 249.94 3.05 0. 256.03 257.56 1.52 0. 265.18 268.22 3.05 0. 277.37 280.42 3.05 0. 277.37 280.42 3.05 0. 294.13 301.75 7.62 0. 294.13 301.75 7.62 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 21.34 24.38 3.05 0. 294.13 301.75 7.62 0. 294.13 301.75 7.62 0. 294.13 301.75 7.62 0. 294.43 305. 0. 21.34 24.38 3.05 0. 294.13 301.75 7.62 0. 294.43 301.75 77.72 79.25 1.52 0. 94.49 96.01 1.52 0. 94.49 96.01 1.52 0. 100.58 103.63 3.05 0.										0.196
003 117.35 132.39 15.24 0. 143.26 156.97 13.72 0. 160.02 161.54 1.52 0. 172.21 173.74 1.52 2. 193.55 196.60 3.05 0. 199.64 201.17 1.52 0. 208.79 211.84 3.05 0. 231.65 233.17 1.52 0. 246.89 249.94 3.05 0. 246.89 249.94 3.05 0. 256.03 257.56 1.52 0. 265.18 268.22 3.05 0. 277.37 280.42 3.05 0. 277.37 280.42 3.05 0. 284.99 286.51 1.52 0. 294.13 301.75 7.62 0. 21.34 24.38 3.05 0. 53.34 54.86 1.52 0. 56.39 60.96 4.57 0. 77.72 79.25 1.52 0. 94.49 96.01 1.52 0. 100.58 103.63 3.05 0.	VTRC14-									0.104
VTRC14- 004 VTRC14- 004 VTRC14- 004 160.02 161.54 1.52 0. 160.02 161.54 1.52 0. 172.21 173.74 1.52 2. 193.55 196.60 3.05 0. 199.64 201.17 1.52 0. 208.79 211.84 3.05 0. 231.65 233.17 1.52 0. 246.89 249.94 3.05 0. 2265.18 268.22 3.05 0. 2277.37 280.42 3.05 0. 2284.99 286.51 1.52 0. 294.13 301.75 7.62 0. 21.34 24.38 3.05 0. 56.39 60.96 4.57 0. 77.72 79.25 1.52 0. 94.49 96.01 1.52 0. 100.58 103.63 3.05 0.		301.75	0	-90						0.260
VTRC14- 004 172.21										0.303
VTRC14- 004 VTRC14- 004 VTRC14- 004 VTRC14- 004 199.64 201.17 1.52 0. 199.64 201.17 1.52 0. 208.79 211.84 3.05 0. 231.65 233.17 1.52 0. 246.89 249.94 3.05 0. 256.03 257.56 1.52 0. 265.18 268.22 3.05 0. 277.37 280.42 3.05 0. 284.99 286.51 1.52 0. 294.13 301.75 7.62 0. 21.34 24.38 3.05 0. 56.39 60.96 4.57 0. 77.72 79.25 1.52 0. 94.49 96.01 1.52 0. 100.58 103.63 3.05 0.										0.192
VTRC14- 004 VTRC14- 004 VTRC14- 004 VTRC14- 004 199.64 201.17 1.52 0. 208.79 211.84 3.05 0. 231.65 233.17 1.52 0. 246.89 249.94 3.05 0. 256.03 257.56 1.52 0. 265.18 268.22 3.05 0. 277.37 280.42 3.05 0. 284.99 286.51 1.52 0. 294.13 301.75 7.62 0. 21.34 24.38 3.05 0. 53.34 54.86 1.52 0. 56.39 60.96 4.57 0. 77.72 79.25 1.52 0. 94.49 96.01 1.52 0. 100.58 103.63 3.05 0.										2.961
VTRC14- 004 VTRC14- 004 VTRC14- 004 VTRC14- 004 208.79 211.84 3.05 0. 221.85 233.17 1.52 0. 246.89 249.94 3.05 0. 256.03 257.56 1.52 0. 265.18 268.22 3.05 0. 277.37 280.42 3.05 0. 284.99 286.51 1.52 0. 294.13 301.75 7.62 0. 21.34 24.38 3.05 0. 53.34 54.86 1.52 0. 56.39 60.96 4.57 0. 77.72 79.25 1.52 0. 94.49 96.01 1.52 0. 100.58 103.63 3.05 0.										0.173
VTRC14-004 OTRC14-004 VTRC14-004 VTRC14-004 OTRC 14-004 OTRC 14-0										0.125
VTRC14-004 OTRC14-004 VTRC14-004 VTRC14-004 OTRC14-004 OTRC14										0.168
VTRC14-004 0265.03 257.56 1.52 0. 265.18 268.22 3.05 0. 277.37 280.42 3.05 0. 284.99 286.51 1.52 0. 294.13 301.75 7.62 0. 21.34 24.38 3.05 0. 53.34 54.86 1.52 0. 56.39 60.96 4.57 0. 77.72 79.25 1.52 0. 94.49 96.01 1.52 0. 100.58 103.63 3.05 0.										0.246
VTRC14- 004 265.18 268.22 3.05 0. 277.37 280.42 3.05 0. 284.99 286.51 1.52 0. 294.13 301.75 7.62 0. 21.34 24.38 3.05 0. 53.34 54.86 1.52 0. 56.39 60.96 4.57 0. 777.72 79.25 1.52 0. 94.49 96.01 1.52 0. 100.58 103.63 3.05 0.										0.391
VTRC14- 004 277.37 280.42 3.05 0. 284.99 286.51 1.52 0. 294.13 301.75 7.62 0. 21.34 24.38 3.05 0. 53.34 54.86 1.52 0. 56.39 60.96 4.57 0. 77.72 79.25 1.52 0. 94.49 96.01 1.52 0. 100.58 103.63 3.05 0.										0.136
VTRC14- 004 284.99 286.51 1.52 0. 294.13 301.75 7.62 0. 21.34 24.38 3.05 0. 53.34 54.86 1.52 0. 56.39 60.96 4.57 0. 77.72 79.25 1.52 0. 94.49 96.01 1.52 0. 100.58 103.63 3.05 0.										0.166
VTRC14- 004 294.13 301.75 7.62 0. 21.34 24.38 3.05 0. 53.34 54.86 1.52 0. 56.39 60.96 4.57 0. 77.72 79.25 1.52 0. 94.49 96.01 1.52 0. 100.58 103.63 3.05 0.										
VTRC14- 004 301.75 205 -60 21.34 24.38 3.05 0. 53.34 54.86 1.52 0. 56.39 60.96 4.57 0. 77.72 79.25 1.52 0. 94.49 96.01 1.52 0. 100.58 103.63 3.05 0.										0.101
VTRC14- 004 301.75 205 -60 53.34 54.86 1.52 0. 56.39 60.96 4.57 0. 77.72 79.25 1.52 0. 94.49 96.01 1.52 0. 100.58 103.63 3.05 0.										0.420
VTRC14- 004 301.75 205 -60 56.39 60.96 4.57 0. 77.72 79.25 1.52 0. 94.49 96.01 1.52 0. 100.58 103.63 3.05 0.										0.139
VTRC14- 004 301.75 205 -60 77.72 79.25 1.52 0. 94.49 96.01 1.52 0. 100.58 103.63 3.05 0.										0.114
VTRC14- 004 301.75 205 -60 94.49 96.01 1.52 0. 100.58 103.63 3.05 0.										0.114
100.58 103.63 3.05 0.		301.75	205	-60						0.139
	004	301.73	203	-00						0.139
								117.35		0.429
										0.173
										0.308



Drill Hole	Donth	Anglo	Azimuth	Section	I				
Number	Depth (m)	Angle (°)	(°)	Line		From	To	Width	Au
Number	(111)	()	()	Line		(m)	(m)	(m)	(g/t)
						149.35	150.88	1.52	0.443
						155.45	160.02	4.57	0.483
						195.07	201.17	6.10	1.096
						217.93	219.46	1.52	0.107
						227.08	228.60	1.52	0.102
						239.27	240.79	1.52	0.889

Figure 10.18 is a plan view of the 2014 RC and core drilling and geology at the Vetatierra Project.

EXPLANATION VT14-003 Andesite dike VTRC-002 VTRC-005 VT14-006 Dioritic Dike Fine Grained Diorite VT14-004 VT14-002 Granite Conglomerate VTRC-001 Shale-Siltstone VT14-005 /TRC-004 Sandstone Fault Zone Quartz Veins RC Drilled Historical Drilling

Figure 10.18
Plan View of Geology and the 2014 RC and Core Drilling at the Vetatierra Project

Figure provided by Alio Gold Inc. and dated February, 2016.

10.6 In-Fill Drilling July, 2016 to March, 2017 at the San Francisco Project

From July, 2016 to March, 2017, 13,877 m distributed in 101 holes of RC in-fill drilling were collared in 3 different zones within the current San Francisco Mine operations. The holes were distributed as follow:

• San Francisco Phase 5: 10,456 m in 54 RC holes.



- La Chicharra satellite north and north west pit: 2,487 m in 32 RC holes.
- Las Barajitas Pits: 934 m in 15 RC holes.

An in-fill drill program was carried out on Phase 5 of the San Francisco pit with the objective of confirming and testing the continuity mineralization reported by the historical Geomaque drilling, and to reduce the drilling spacing along the sections. Phase 5 is approximately a 70 m push back of the north wall of Phase 4 within the San Francisco pit.

The RC holes were systematically spaced on 20 m sections using the mine ore polygons as a reference, to understand the behaviour of the mineralization along its projection down-dip into Phase 5. The spacing of the previous drill holes, the amount of historical drilling on the sections and the possibility of increasing the reserves and reducing the waste in the mining phase were all taken into account when positioning the in-fill holes

The Las Barajitas drill program was conducted to in-fill the drilling for 2 small pit designs located southeast of the San Francisco pit. A total of 15 drill holes were collared to test the continuity of gold mineralization and reduce the drill spacing on the sections.

A total of 32 RC holes were drilled on the 2 satellite pits located north and northwest of the main La Chicharra pit. The in-fill drilling was conducted to reduce the drilling space between the holes along the sections and to confirm the ore zone interpretations.

The July, 2016 to March, 2017 in-fill drill program confirmed the continuity of the gold mineralization in the 3 areas (San Francisco Mine, La Chicharra and Las Barajitas pits). Mining has been undertaken in all three locations.

Table 10.15 summarizes the significant gold intersection for the RC drilling conducted on the San Francisco Phase 5, Las Barajitas and La Chicharra pits.

Table 10.15 Summary of the Location and Significant Assays for the RC Drilling between July, 2016 and March, 2017

							Mir	eral Drill	Intersect	ions
Drill Hole Number	Depth (m)	Angle (°)	Az (°)	Section Line	Mine Phase	Bench (Elev)	From (m)	To (m)	True Width (m)	Au (g/t)
							131.06	138.68	7.62	1.580
TF-3668	TF-3668 263.652 -	-50	205	880W	Phase 5	632	155.45	178.31	22.86	0.760
						211.84	233.17	21.34	0.401	
TF-3669 263.652	50	205	900W	Phase 5	622	205.74	237.74	32.00	2.238	
11-3009	205.032	-50	205	900W	Phase 5	632	248.41	252.98	4.57	1.275
TE 2670	251.46	50	205	920W	Phase 5	620	140.21	152.40	12.19	0.670
11-30/0	TF-3670 251.46 -5	-30	203	920 W	Phase 3	632	193.55	225.55	32.00	0.756
							70.10	82.30	12.19	1.011
TF-3671	262.128	262.128 -50.00	205	940W	Phase 5	632	160.02	164.59	4.57	0.981
11-30/1 202.							222.50	231.65	9.14	0.534



							Mir	eral Drill	Intersect	ions
Drill Hole	Depth	Angle	A = (9)	Section	Mine	Bench	E		True	
Number	(m)	(°)	Az (°)	Line	Phase	(Elev)	From (m)	To (m)	Width	Au (g/t)
TDE 2.672	107.07	50	205	100011	DI 7	622	170.01	102.00	(m)	1 1 4 2
TF-3673	195.07	-50	205	1000W	Phase 5	632	172.21	182.88	10.67	1.143
							25.91	30.48	4.57	1.454
TF-3674	164.592	-45	205	1020W	Phase 5	632	41.15 144.78	48.77 149.35	7.62 4.57	0.554 0.941
							161.54	164.59	3.05	1.068
							73.15	82.30	9.14	1.456
							96.01	100.58	4.57	1.168
							138.68	144.78	6.10	0.971
TF-3675	243.84	-50	205	1040W	Phase 5	632	156.97	163.07	6.10	0.872
11 3073	213.01	30	203	101011	Thuse 3	032	181.36	188.98	7.62	1.275
							192.02	202.69	10.67	0.624
							233.17	239.27	6.10	1.229
							74.68	79.25	4.57	1.570
TF-3676	207.264	-60	205	1060W	Phase 5	632	118.87	147.83	28.96	0.909
							182.88	190.50	7.62	1.195
							97.54	112.78	15.24	0.612
TF-3677	207.264	-60	205	1080W	Phase 5	632	117.35	149.35	32.00	0.416
							188.98	207.26	18.29	0.895
TE 2670	105.020	50	205	1100337	Dl 5	(22	102.11	109.73	7.62	0.687
TF-3678	185.928	-50	205	1100W	Phase 5	632	114.30	117.35	3.05	0.575
TF-3679	201.168	-45	205	1140W	Phase 5	632	54.86	59.44	4.57	1.943
11-3079	201.108	-43	203	1140 W	Filase 3	032	111.25	115.82	4.57	0.515
TF-3680	173.736	-85	205	980W	Phase 5	632	57.91	62.48	4.57	0.746
11-3080	173.730	-03	203	700 W	r nase 3	032	143.26	167.64	24.38	0.736
TF-3682	121.92	-70	205	1220W	Phase 5	648	47.24	53.34	6.10	0.490
TF-3683	164.592	-55	205	960W	Phase 5	578	32.00	35.05	3.05	1.072
11-3003	104.392	-33	203	200 W	Thase 3	376	86.87	92.96	6.10	0.882
TF-3684	182.88	-50	205	780W	Phase 5	578	62.48	70.10	7.62	0.524
11 3001	102.00	30	203	70011	Thuse 3	370	156.97	164.59	7.62	0.477
							39.62	45.72	6.10	0.508
							67.06	79.25	12.19	0.472
TF-3685	304.8	-70	205	780W	Phase 5	578	192.02	199.64	7.62	1.118
11 2002	501.0	, 0	205	70011	Thuse 5	370	205.74	213.36	7.62	1.214
							236.22	260.60	24.38	2.508
							272.80	280.42	7.62	1.068
TF-3686	160.02	-55	205	760W	Phase 5	578	67.06	74.68	7.62	0.332
TF-3687	252.984	-50	205	740W	Phase 5	578	92.96	102.11	9.14	0.409
							108.20	114.30	6.10	0.530
TF-3688	240.792	-70	205	740W	Phase 5	578	185.93	193.55	7.62	0.875
							224.03	240.79	16.76	0.485
							57.91	67.06	9.14	0.845
TF-3689	252.984	-60	205	720W	Phase 5	578	88.39	91.44	3.05	1.451
							121.92	143.26	21.34	0.588
I	l						190.50	193.55	3.05	1.770



							Mir	eral Drill	Intersect	ions
Drill Hole Number	Depth (m)	Angle (°)	Az (°)	Section Line	Mine Phase	Bench (Elev)	From (m)	To (m)	True Width (m)	Au (g/t)
							219.46	252.98	33.53	0.998
							56.39	60.96	4.57	2.804
TF-3690	252.984	-45	205	720W	Phase 5	578	156.97	170.69	13.72	0.348
11-3090	232.904	-43	203	720 VV	Thase 3	376	216.41	222.50	6.10	2.036
							228.60	236.22	7.62	1.610
							64.01	67.06	3.05	0.512
							149.35	163.07	13.72	0.529
TF-3691	252.984	-50	205	700W	Phase 5	578	184.40	213.36	28.96	1.230
							230.12	233.17	3.05	1.083
							240.79	243.84	3.05	1.003
							106.68	109.73	3.05	13.900
							137.16	140.21	3.05	1.764
TF-3692	298.704	-50	205	680W	Phase 5	578	149.35	152.40	3.05	1.141
11-3092	290.704	-30	203	000 W	Filase 3	378	192.02	201.17	9.14	0.472
							208.79	216.41	7.62	1.143
							268.22	283.46	15.24	0.592
							0.00	3.05	3.05	0.966
							143.26	149.35	6.10	2.313
TE 2602	240.702	15	205	CCOW	Phase 5	570	164.59	170.69	6.10	2.297
TF-3693	240.792	-45	205	660W	Phase 5	578	202.69	210.31	7.62	1.270
							213.36	216.41	3.05	0.621
							228.60	239.27	10.67	0.632
							65.53	83.82	18.29	0.494
TE 2604	210 212	15	205	C20W	Dhaas F	570	103.63	106.68	3.05	1.400
TF-3694	210.312	-45	205	620W	Phase 5	578	158.50	169.16	10.67	0.683
							192.02	205.74	13.72	1.085
							73.15	83.82	10.67	0.409
TDE 2605	201.160	70	205	500W	DI 5		115.82	120.40	4.57	1.065
TF-3695	201.168	-70	205	580W	Phase 5	Ramp	141.73	163.07	21.34	1.738
							179.83	201.17	21.34	1.720
							22.86	44.20	21.34	0.770
TF-3696	207.264	-65	205	800 W	Phase 5	Ramp	172.21	181.36	9.14	1.252
							185.93	202.69	16.76	0.504
							65.53	76.20	10.67	0.587
	• • • • • • •		• • •	0.40.***			83.82	106.68	22.86	1.857
TF-3697	201.168	-60	205	840 W	Phase 5	Ramp	144.78	155.45	10.67	0.448
							184.40	195.07	10.67	0.328
							10.67	16.76	6.10	0.298
TF-3698	152.4	-90	0	840 W	Phase 5	Ramp	27.43	39.62	12.19	0.852
11 5070	10211			0.0	1 110.50 0	1 tuning	140.21	149.35	9.14	0.777
							39.62	42.67	3.05	4.177
TF-3699	231.648	-70	205	640 W	Phase 5	Ramp	51.82	57.91	6.10	0.619
11 3377		, ,	200	0.10 11	111111000		153.92	220.98	67.06	0.636
							32.00	35.05	3.05	0.282
TF-3700	192.024	-55	205	640 W	Phase 5	Ramp	38.10	62.48	24.38	0.282
	l	l			1	1	50.10	02.40	∠+.30	0.007



							Mir	neral Drill	Intersect	ions
Drill Hole Number	Depth (m)	Angle (°)	Az (°)	Section Line	Mine Phase	Bench (Elev)	From (m)	To (m)	True Width (m)	Au (g/t)
							138.68	152.40	13.72	2.196
							156.97	163.07	6.10	0.555
							184.40	188.98	4.57	0.655
TF-3701	152.4	-90	0	680 W	Phase 5	494	41.15	54.86	13.72	1.714
11-3/01	132.4	-90	U	080 W	T Hase 3	424	123.44	132.59	9.14	0.507
							24.38	32.00	7.62	0.703
TF-3702	103.632	-75	205	700 W	Phase 5	494	41.15	44.20	3.05	1.015
							48.77	60.96	12.19	0.313
							6.10	18.29	12.19	0.661
							36.58	39.62	3.05	1.679
TF-3703	170.688	-90	0	740 W	Phase 5	494	53.34	57.91	4.57	0.295
							71.63	77.72	6.10	2.911
							83.82	86.87	3.05	0.948
							27.43	41.15	13.72	0.750
							96.01	99.06	3.05	0.576
							105.16	131.06	25.91	0.406
TF-3704	225.552	-50	205	780 W	Phase 5	Ramp	138.68	143.26	4.57	0.598
							149.35	163.07	13.72	0.454
							167.64	170.69	3.05	2.858
							193.55	196.60	3.05	19.298
							32.00	39.62	7.62	0.479
TF-3705	225.552	-55	205	740 W	Phase 5	Ramp	62.48	65.53	3.05	3.462
11-3703	223.332	-33	203	/ -1 0 \ \	T Hase 3	Kamp	111.25	115.82	4.57	0.428
							185.93	195.07	9.14	1.606
							0.00	9.14	9.14	0.507
							27.43	44.20	16.76	0.344
TF-3706	201.168	-50	205	900 W	Phase 5	Ramp	53.34	64.01	10.67	0.556
11 3700	201.100	30	203	700 W	T Hase 3	Ramp	74.68	89.92	15.24	0.419
							96.01	103.63	7.62	0.402
							175.26	179.83	4.57	1.032
							0.00	4.57	4.57	1.054
TF-3708	152.4	-55	205	880 W	Phase 5	494	30.48	53.34	22.86	0.410
11 3700	132.4	33	203	000 11	T Hase 3	727	64.01	67.06	3.05	3.206
							112.78	123.44	10.67	0.600
							15.24	21.34	6.10	0.492
TF-3709	115.824	-60	205	920 W	Phase 5	494	56.39	62.48	6.10	1.165
							91.44	97.54	6.10	0.433
TF-3710	103.632	-60	205	960 W	Phase 5	Ramp	86.87	92.96	6.10	0.387
							10.67	25.91	15.24	0.612
							33.53	57.91	24.38	0.446
							88.39	96.01	7.62	5.342
TF-3712	219.456	-90	0	780 W	Phase 5	494	100.58	103.63	3.05	0.963
							109.73	115.82	6.10	1.091
							121.92	131.06	9.14	1.230
							143.26	146.30	3.05	4.324



							Mir	neral Drill	Intersect	ions
Drill Hole Number	Depth (m)	Angle (°)	Az (°)	Section Line	Mine Phase	Bench (Elev)	From (m)	To (m)	True Width (m)	Au (g/t)
TF-3713	134.112	-45	205	940 W	Phase 5	Ramp	7.62	12.19	4.57	1.169
						1	70.10	82.30	12.19	0.428
TF-3714	90 772	00	0	660 W	Dhana 5	404	4.57 62.48	12.19 67.06	7.62 4.57	0.694 0.893
11-3/14	80.772	-90	0	660 W	Phase 5	494	73.15	80.77	7.62	0.893
							0.00			
TF-3715	158.496	-60	205	920 W	Phase 5	Ramp	57.91	22.86 79.25	22.86 21.34	0.667 0.473
11-3/13	136.490	-00	203	920 W	Filase 3	Kamp	96.01	109.73	13.72	1.195
TF-3716	82.296	-60	205	1020 W	Phase 5	Domp	19.81	50.29	30.48	0.571
11-3/10	62.290	-00	203	1020 W	Filase 3	Ramp	44.20	60.96	16.76	0.371
TF-3717	121.92	-90	0	980 W	Phase 5	Ramp	99.06	103.63	4.57	0.412
							42.67	54.86	12.19	2.310
							70.10	94.49	24.38	0.711
							126.49	141.73	15.24	1.301
TF-3718	240.792	-55	205	860 W	Phase 5	578	176.78	187.45	10.67	0.726
11-3/10	240.172	-33	203	000 11	T hase 3	376	193.55	204.22	10.67	0.720
							213.36	222.50	9.14	0.497
							230.12	233.17	3.05	0.674
							70.10	80.77	10.67	0.388
TF-3719	182.88	-70	205	860 W	Phase 5	578	94.49	97.54	3.05	1.498
11 3/17	102.00	, 0	203	000 11	T Hase 3	370	114.30	129.54	15.24	0.516
							42.67	51.82	9.14	0.559
							77.72	83.82	6.10	1.782
TF-3720	262.128	-70	205	760 W	Phase 5	578	185.93	201.17	15.24	2.695
							216.41	225.55	9.14	0.552
							243.84	262.13	18.29	0.762
							9.14	12.19	3.05	3.329
TF-3721	152.4	-45	205	800 W	Phase 5	488	48.77	53.34	4.57	0.362
							57.91	64.01	6.10	1.541
							89.92	103.63	13.72	1.122
TF-3722	201.168	-45	205	600 W	Phase 5	578	146.30	152.40	6.10	2.479
							158.50	184.40	25.91	1.391
TE 2722	252.004	60	205	000 W	Dhess 5	622	140.21	149.35	9.14	0.288
TF-3723	252.984	-60	205	980 W	Phase 5	632	173.74	176.78	3.05	0.455
					Loc		0.00	6.10	6.10	1.215
TF-3724	91.44	-90	0	120 W	Las Barajitas	701	19.81	25.91	6.10	0.321
					Darajitas		47.24	59.44	12.19	0.798
					Lac		27.43	30.48	3.05	0.528
TF-3725	67.056	-65	205	140 W	Las Barajitas	701	35.05	39.62	4.57	0.344
					Darajitas		42.67	45.72	3.05	0.717
					Las		6.10	13.72	7.62	1.062
TF-3726	60.96	-65	205	100 W	Barajitas	701	27.43	30.48	3.05	0.855
					Darajitas		48.77	57.91	9.14	0.221
TF-3727	54.864	-65	205	060 W		701	7.62	10.67	3.05	0.868



							Mir	neral Drill	Intersect	ions
Drill Hole Number	Depth (m)	Angle (°)	Az (°)	Section Line	Mine Phase	Bench (Elev)	From (m)	To (m)	True Width (m)	Au (g/t)
					Las Barajitas		45.72	50.29	4.57	0.449
TF-3728	60.96	-65	205	060 W	Las Barajitas	701	6.10 27.43	21.34 30.48	15.24 3.05	0.777 0.774
TF-3729	73.152	-90	0	080 W	Las Barajitas	701	21.34 48.77	32.00 51.82	10.67 3.05	0.513 2.007
TF-3730	103.632	-65	205	100 W	Las Barajitas	701	54.86 25.91 92.96	60.96 32.00 102.11	6.10 6.10 9.14	0.461 0.827 0.890
TF-3731	36.576	-90	0	080 W	Las Barajitas	701	15.24	19.81	4.57	1.995
TF-3732	67.056	-90	0	040 W	Las Barajitas	701	33.53	41.15	7.62	0.275
TF-3733	80.772	-55	205	040 W	Las Barajitas	701	18.29	30.48	12.19	0.570
TF-3734	60.96	-90	0	000	Las Barajitas	701	15.24	19.81	4.57	1.112
TF-3736	42.672	-90	0	120 W	Las Barajitas	701	0.00 36.58	10.67 41.15	10.67 4.57	0.380 4.211
TF-3739	79.248	205	-70	3460 W	NW	692	13.72 25.91	22.86 35.05	9.14 9.14	0.434 2.252
TF-3740	100.584	205	-70	3460 W	NW	692	45.72 91.44	53.34 94.49	7.62 3.05	0.292 0.276
TF-3741	91.44	205	-70	3440 W	NW	692	60.96	64.01	3.05	0.825
TF-3742	76.2	205.00	-70	3420 W	NW	692	12.19	15.24	3.05	0.387
TF-3743	91.44	205	-70	3420 W	NW	692	32.00	41.15	9.14	1.541
TF-3744	97.536	205	-70	3400 W	NW	692	33.53	38.10	4.57	0.589
TF-3745	79.248	205	-70	3500 W	NW	692	35.05	38.10	3.05	0.600
TF-3748	79.248	205	-70	3440 W	NW	692	6.10	12.19	6.10	0.578
TF-3749	91.44	205	-70	3440 W	NW	692	73.15	79.25	6.10	0.243
TF-3750	79.248	205	-70	3420 W	NW	692	24.38	28.96	4.57	1.677
TF-3753	67.056	205	-70	3480 W	NW	692	1.52	4.57	3.05	0.301
11-3/33	07.030	203	-70	3460 W	19 99	092	50.29	54.86	4.57	0.330
TF-3754	54.864	205	-70	3400 W	NW	692	3.05	6.10	3.05	0.282
							9.14	13.72	4.57	0.401
TF-3756	82.296	205	-70	3380 W	NW	692	9.14	12.19	3.05	0.342
TF-3757	91.44	205	-70	3360 W	NW	692	21.34 35.05	24.38 50.29	3.05 15.24	0.369 0.310
TF-3758	109.728	205	-70	3360 W	NW	692	7.62 16.76 44.20	10.67 21.34 56.39	3.05 4.57 12.19	0.310 0.275 0.774
TF-3759	82.296	205	-70	3340 W	NW	692	27.43	32.00	4.57	0.606
TF-3760	91.44	205	-70	3380 W	NW	692	12.19	18.29	6.10	0.352
1							24.38	36.58	12.19	0.653



							Mir	eral Drill	Intersect	ions
Drill Hole Number	Depth (m)	Angle (°)	Az (°)	Section Line	Mine Phase	Bench (Elev)	From (m)	To (m)	True Width (m)	Au (g/t)
							45.72	48.77	3.05	0.360
TF-3761	79.248	205	-70	3460 W	NW	692	4.57	7.62	3.05	3.229
11-3/01	19.246	203	-70	3400 W	IN VV	092	42.67	47.24	4.57	0.414
TF-3763	79.248	205	-70	3440 W	NW	692	10.67	13.72	3.05	0.296
							47.24	51.82	4.57	1.527
TF-3764	152.4	270	-55	3320 W	NW	692	73.15	82.30	9.14	0.383
							94.49	100.58	6.10	0.621
TF-3765	73.152	205	-70	2500 W	NORTH	710	64.01	67.06	3.05	0.304
TF-3766	54.864	205	-70	2540 W	NORTH	710	0.00	3.05	3.05	0.606
11-5/00	34.804	203	-70	2340 W	NORTH	/10	41.15	47.24	6.10	2.138
TF-3767	73.152	205	-70	2520 W	NORTH	710	38.10	42.67	4.57	0.323
TF-3769	42.672	205	-70	2600 W	NORTH	710	25.91	33.53	7.62	1.799

Table provided by Alio Gold Inc. and dated May, 2017.

Figure 10.19 and Figure 10.20 show the locations of the July, 2016 to March, 2017 in-fill drilling in the areas of the San Francisco and La Chicharra pits, respectively.

Primary Crusher 3'358,000 N San Francisco Pit 3'357,600 N DRILL PROGRAM 2016-2017 Drilling Previous Drilling 200 meters Las Barajitas Pits

Figure 10.19 Location of the July, 2016 to March, 2017 In-Fill Drilling Program in the Area of the San Francisco Pit

Figure provided by Alio Gold Inc. and dated May, 2017.

Ponds Heap Leach 3'358,4'00 La Chicharra La Chicharra North Pit DRILL PROGRAM 2016-2017 Drilling Previous Drilling 200 Waste Dump meters 3'357,6001

Figure 10.20 Location of the July, 2016 to March, 2017 In-Fill Drilling Program in the Area of the La Chicharra Pit

Figure provided by Alio Gold Inc. and dated May, 2017.



10.7 2017 IN-FILL DRILLING PROGRAM FOR THE SAN FRANCISCO MINE

An in-fill drilling program for extraction Phases 7 and 8 of the mine plan was proposed in May, 2017, and a total of \$2.3 M US was approved to drill 31,200 m of RC drilling. The original proposal for this budget called for both in-fill and exploration drilling on the north side of the San Francisco pit, from the site of the primary crushers in the southeast and northwest directions. Once it was decided to include Phase 8 in the mine plan, in-fill drilling was needed to confirm the resources in this phase, in addition to confirming the resources contained in Phase 7.

Within this context, in the period from August to December, 2017, 140 RC holes totalling 28,416.50 m were drilled within and at the periphery of the San Francisco pit (including Las Barajitas to the southeast of the San Francisco pit and in the Cementerio area at the bottom western extremity of the pit).

A total of 20,855 chip samples were generated during the drilling program. The chip samples were shipped to ALS Global Commodity for preparation in Hermosillo, Sonora, with the pulps sent to its lab in Vancouver, Canada, for gold assaying. All transportation and handling of samples from the mine site to the preparation laboratory in Hermosillo was conducted by ALS Global personnel. The sample stream included quality assurance and quality control (QA/QC) samples.

The main objective of the drilling was to confirm the continuity of the ore bodies in Phase 6 of the mine plan. While the the drilling program was planned to be completed in 3 months using three drill rigs circumstances related to mine operations along with continuous changes to the mine plan resulted in the drilling being delayed and completion of the program did not occur until the middle of December. Also some of drill holes in the original program were cancelled, leaving some zones in Phase 6 without vital information.

Taking advantage of the position of the drill pads, most of the drill holes in Phase 6 were continued at depth to explore and to partly confirm the projection at depth of the mineralization for Phase 7 and Phase 8. The assay results of the drilling for the Phase 6 basically confirmed the existing resources as expected.

Figure 10.21 shows the locations of the holes drilled during the 2017 program on the San Francisco pit, including the Cementerio and Las Barajitas areas.

Table 10.16 summarizes the significant assays for the 2017 drilling program from August to December.



Table 10.16 Significant Assay Intercepts, August to December, 2017 Reverse Circulation Drill Program

Drill			Drill I	Hole Details				Miner	alized Inte	rvals	
Hole	Depth	Azimuth	Angle	Section	Mine	Bench		From	To	Width	Au
Number	(m)	(°)	(°)	Line	Phase	Elevation		(m)	(m)	(m)	(g/t)
TF-3840	134.11	205	-50.00	380W	Phase 6	654.60		83.82	96.01	12.19	0.442
TF-3841	207.26	205	-65.00	540W	Phase 6	638.01		71.62	89.92	18.30	1.204
TF-3842	201.17	205	-70.00	480W	Phase 6	548.60		3.05	36.58	33.53	1.102
					Phase 6			64.01	79.25	15.24	1.902
TF-3844	231.65	205	-80.00	420W	Exploration	651.03		164.59	179.83	15.24	1.051
					Exploration			198.12	227.08	28.96	0.800
					Phase 6			89.92	115.82	25.91	0.996
					Exploration	1		211.84	230.12	18.29	1.722
					Exploration			237.74	249.94	12.19	1.330
TF-3849	353.57	0	-90.00	420W	Exploration	569.09		256.03	275.84	19.81	0.641
					Exploration			286.51	303.28	16.76	0.804
					Exploration			309.37	313.94	4.57	3.687
TF-3850	323.09	205	-70.00	400W	Exploration	598.75		210.31	249.94	39.62	0.698
11 5050	323.07	203	70.00	100 11	Exploration	370.73		120.40	147.83	27.43	0.745
TF-3856	310.90	205	-75.00	480W	Exploration	588.08		155.45	166.12	10.67	3.231
11 3030	310.70	203	73.00	40011	Exploration	300.00		230.12	286.51	56.39	1.012
					Exploration			155.45	172.21	16.76	0.578
TF-3857	332.23	205	-73.00	560W	Exploration	691.33		303.28	332.23	28.96	1.044
					Phase 6			70.10	74.68	4.57	1.394
					Phase 6	•		108.20	123.44	15.24	1.034
					Phase 6	•		128.00	131.06	3.06	0.663
TF-3858	262.13	205°	-67.00	460W		590.70					
					Phase 6	-		138.68 216.41	149.35	10.67	1.365
					Exploration	-		233.17	228.60	12.19	0.305
					Exploration				262.13	28.96	1.142
					Phase 6			62.48	71.63	9.14	0.819
TF-3859	167.64	205	-47.00	600W	Exploration	703.36		161.54	169.16	7.62	5.841
					Exploration			173.74	178.31	4.57	0.416
		-			Exploration			195.07	233.17	38.10	0.579
					Exploration			105.16	111.25	6.10	2.262
					Exploration			164.59	199.64	35.05	0.910
TF-3861	292.61	205	-63.00	720W	Exploration	566.16		243.84	256.03	12.19	6.294
					Exploration		Includes	246.89	248.41	1.52	43.100
					Exploration			262.13	274.32	12.19	0.507
					Exploration			286.51	292.61	6.10	0.286
					Exploration			124.97	135.64	10.67	1.685
TF-3864	286.51	205	-63.00	620W	Exploration	565.83		147.83	169.16	21.34	0.789
					Exploration			175.26	201.17	25.91	0.736
					Phase 6			36.58	41.15	4.57	0.340
TF-3865	301.75	205	-70.00	500W	Exploration	566.24		131.06	134.11	3.05	1.330
					Exploration			202.69	211.84	9.14	0.717
					Phase 6			27.43	36.58	9.14	0.521
					Phase 8			100.58	106.68	6.10	0.468
TF-3866	286.51	205	-75.00	540W	Phase 8	566.09		128.02	137.16	9.14	0.494
11 3000	200.51	203	73.00	340 11	Phase 8	300.07		141.73	152.40	10.67	0.787
					Exploration			167.64	176.78	9.14	0.996
					Exploration			182.88	192.02	9.14	0.953
					Phase 6]		30.48	35.05	4.57	0.329
TF-3867	301.50	0	-90.00	560W	Phase 8	566.20		141.73	167.64	25.91	1.389
11'-300/	501.50	U	-30.00	200 W	Exploration	300.20		178.31	196.60	18.29	0.630
					Exploration			208.79	213.36	4.57	0.429
TF-3868	140.21	0	-90.00	520W	Phase 6	566.50		22.86	27.43	4.57	1.611
					Phase 6			19.81	22.86	3.05	0.371
TEL 2020	1772 4		00.00	460777	Phase 6	502.11		51.82	57.91	6.10	0.335
TF-3869	173.4	0	-90.00	460W	Phase 8	593.11		112.78	124.97	12.19	2.882
					Phase 8	1	Includes	120.40	123.44	3.05	6.500
				1		1					



Drill			Drill I	Iole Details	1			Miner	alized Inte	ervals	
Hole	Depth	Azimuth	Angle	Section	Mine	Bench		From	To	Width	Au
Number	(m)	(°)	(°)	Line	Phase	Elevation		(m)	(m)	(m)	(g/t)
					Phase 6			9.14	18.29	9.14	0.239
					Phase 8			111.25	115.82	4.57	1.395
					Exploration			124.97	129.54	4.57	1.086
TT 2070	252.55		00.00	4.60111	Exploration	500.20		140.21	150.88	10.67	0.838
TF-3870	353.57	0	-90.00	460W	Exploration	590.39		153.92	158.50	4.57	0.660
					Exploration			283.46	303.28	19.81	1.414
					Exploration		Includes	294.13	301.75	7.62	2.198
					Exploration			310.90	327.66	16.76	0.489
					Exploration			338.33	341.38	3.05	0.519
					Phase 6			64.01	67.06	3.05	1.004
					Phase 8			77.72	83.82	6.10	0.701
TE 2071	252.57	205	00.00	4.40337	Exploration	506.00		155.45	163.07	7.62	1.252
TF-3871	353.57	205	-80.00	440W	Exploration	596.09	T 1 1	198.12	228.60	30.48	0.636
					Exploration		Includes	198.12	204.22	6.10	1.109
					Exploration			301.75	304.80	3.05	0.349
					Exploration			307.85	312.42	4.57	0.296
					Phase 6			12.19	16.76	4.57	0.408
					Exploration			128.02	134.11	6.10	0.296
TE 2072	256.02	0	00.00	400337	Exploration	507.21		143.26	152.40	9.14	0.845 0.245
TF-3872	256.03	0	-90.00	480W	Exploration	587.21		170.69 176.78	173.74 187.45	3.05 10.67	0.245
					Exploration						
					Exploration			202.69 254.51	207.26 256.03	4.57 1.52	0.702 1.170
					Exploration						0.522
					Phase 5			0.00	15.24	15.24	0.522
					Phase 5 Phase 5			25.91 38.10	30.48 41.15	4.57 3.05	1.156
					Phase 5 Phase 5			47.24		1.52	6.530
					Phase 5			59.44	48.77 109.73	50.29	0.917
TF-3873	182.88	205	-55.00	880W	Phase 5	542.64	Includes	73.15	79.25	6.10	1.683
					Phase 5		Includes	83.82	86.87	3.05	1.395
					Phase 5		Hierades	112.78	115.82	3.05	0.488
					Exploration			156.97	160.02	3.05	1.568
					Exploration			175.26	178.31	3.05	1.568
					Phase 6			44.20	47.24	3.05	1.823
					Phase 8			115.82	132.59	16.76	0.840
					Phase 8			143.26	150.88	7.62	1.953
TF-3874	304.80	205	-70.00	540W	Exploration	580.84		187.45	192.02	4.57	0.490
11 507.	2000	200	70.00	0.011	Exploration	200.01		246.89	304.80	57.91	1.043
					Exploration		Includes	269.75	280.42	10.67	1.812
					Exploration		Includes	295.66	304.80	9.14	1.288
					Phase 5			12.19	18.29	6.10	0.595
					Phase 5			22.86	27.43	4.57	4.049
					Phase 5		Includes	22.86	24.38	1.52	11.650
					Phase 5			30.48	33.53	3.05	0.564
					Phase 6			112.78	129.54	16.76	0.357
TE 2075	105.07	205	90.00	020337	Phase 6	E 40 11		134.11	147.83	13.72	1.594
TF-3875	195.07	205	-80.00	820W	Phase 6	548.11	Includes	138.68	141.73	3.05	5.100
					Phase 8			150.88	152.40	1.52	2.010
					Phase 8			164.59	169.16	4.57	8.080
					Phase 8		Includes	164.59	166.12	1.52	22.700
					Phase 8			182.88	185.93	3.05	0.377
					Phase 8			193.55	195.07	1.52	0.650
					Phase 6			54.86	57.91	3.05	0.975
					Phase 8			118.87	121.92	3.05	0.530
TF-3876	341,38	0	-90.00	560W	Phase 8	578.93		126.49	129.54	3.05	0.835
11-30/0	541,58	0	-30.00	200W	Exploration	210.93		137.16	140.21	3.05	0.890
					Exploration			196.60	199.64	3.05	0.772
					Exploration			204.22	219.46	15.24	0.620



Number	Drill			Drill I	Hole Details				Miner	alized Inte	rvals	
Page		Depth			Section		Bench		From	To	Width	Au
Page	Number	(m)	(°)	(°)	Line		Elevation		\ /			
Page												
Page												
Exploration								Includes				
Exploration												
Phase 6												
Phase 6								Includes				
Phase 6												
Phase 6												
TF-3877												
TF-3877												
Phase 6 Phas												
Page 1	TF-3877	268.22	205	-75.00	660W		560.20					
TF-3878												
Exploration Exploration Exploration Exploration												
TF-3878								Includes				
TF-3878 140.21 205								Hierades				
TF-3878												
TF-3878												
TF-3879	TF-3878	140.21	205	-70.00	580W		633.97					
TF-3879												
TF-3879												
TF-3879 371.86 0 -90.00 580W Exploration Exploration Exploration Exploration From Phase 6 Phase 6 Phase 6 Exploration Explora												
TF-389 371.80 0								Includes				
Exploration	TF-3879	371.86	0	-90.00	580W		577.51	merades				
Exploration												
Exploration												
Phase 6								Includes	362.71			
Phase 6 Phase 8 Phase 9 Phas										39.62		
TF-3880 381.00 205 -70.00 520 W Exploration						Phase 6			76.20	80.77		1.301
TF-3880 381.00 205 -70.00 520 W Exploration						Phase 6			96.01	105.16	9.14	1.070
TF-3880 381.00 205 -70.00 520 W Exploration						Exploration			187.45	190.50	3.05	0.459
TF-3880 381.00 205						Exploration			204.22	208.79		
TF-3880 381.00 205 -70.00 520 W Exploration									213.36	216.41		
Exploration	TE 3880	381.00	205	70.00	520 W	Exploration	630.86			224.03		
Exploration	11-3660	361.00	203	-70.00	320 W		039.80					
Exploration								Includes				
Exploration												
Exploration Exploration Exploration Exploration Includes 349.00 353.57 4.57 1.320												
Exploration Feature								Includes				
TF-3884 381 00 0 0 00 00 520 W Phase 6 Phase 8								T 1 1				
TF-3883			1					Includes				
TF-3884 281 00 0 0 00 0 520 W Phase 8 Phase 6 Phase 8												
TF-3883												
TF-3883												
TF-3883												
TF-3883 335.28 205 -75.00												
Exploration												
Exploration 231.65 233.17 1.52 1.830	TF-3883	335.28	205	-75.00	580 W		577.72					
Exploration 237.74 245.36 7.62 0.576								1				
Exploration 248.41 268.22 19.81 0.413 Exploration 272.80 289.56 16.76 0.324 Exploration 300.23 306.32 6.10 0.439 Exploration 309.37 315.47 6.10 0.313 Exploration 309.37 315.47 6.10 0.313 Exploration 248.41 268.22 19.81 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413 0.413												
Exploration 272.80 289.56 16.76 0.324 Exploration 300.23 306.32 6.10 0.439 Exploration 309.37 315.47 6.10 0.313 TE 3884 281.00 0 00.00 520 W Phase 8 637.03 83.82 91.44 13.72 1.042												
Exploration 300.23 306.32 6.10 0.439 Exploration 309.37 315.47 6.10 0.313 TE 3884 321.00 0.00 520 W Phase 8 637.03 83.82 91.44 13.72 1.042												
Exploration 309.37 315.47 6.10 0.313 TE 3884 381 00 0 00 520 W Phase 8 637.03 83.82 91.44 13.72 1.042												
TE 2884 281.00 0 00.00 520 W Phase 8 627.02 83.82 91.44 13.72 1.042												
	mp 202:	201.55	_ ^	60.65	500		607.55					
	TF-3884	381.00	0	-90.00	520 W	Phase 8	637.93	Includes	88.39	97.54	9.14	3.220



Drill			Drill I	Hole Details	1			Miner	alized Inte	rvals	
Hole	Depth	Azimuth	Angle	Section	Mine	Bench		From	To	Width	Au
Number	(m)	(°)	(°)	Line	Phase	Elevation		(m)	(m)	(m)	(g/t)
					Phase 8			105.16	111.25	6.10	0.338
					Exploration			167.64	172.21	4.57	1.187
					Exploration			220.98	227.08	6.10	0.294
					Exploration			275.84	284.99	9.14	0.704
					Exploration			280.42	283.46	3.05	1.455
					Exploration			303.28	310.90	7.62	0.626
					Exploration			326.14	330.71	4.57	0.883
					Exploration			335.28	347.47	12.19	0.833
					Exploration		Includes	336.80	339.85	3.05	1.893
					Exploration			353.57	365.76	12.19	0.422
					Exploration			377.95	381.00	3.05	0.466
					Phase 6	-		28.96	36.58	7.62	0.361
TE 2006	207.26	205	55.00	040 117	Phase 8	696.03		105.16	108.20	3.05	1.266
TF-3886	207.26	205	-55.00	940 W	Phase 8	686.03		121.92	128.02	6.10	1.017
					Phase 8	•		124.97 187.45	126.49	1.52	2.500 0.301
		1			Phase 8 Phase 6			9.14	192.02 12.19	4.57 3.05	1.773
					Phase 6			71.63	76.20	4.57	0.320
					Phase 8			108.20	118.87	10.67	0.320
					Exploration			175.26	178.31	3.05	0.571
					Exploration			199.64	205.74	6.10	0.269
TF-3888	353.57	0	-90.00	600 W	Exploration	575.62		214.88	228.60	13.72	1.100
11-3666	333.31		-90.00	000 **	Exploration	373.02		243.84	249.94	6.10	0.482
					Exploration	1		257.56	262.13	4.57	1.909
					Exploration			281.94	289.56	7.62	1.042
					Exploration			283.46	286.51	3.05	1.475
					Exploration			298.70	301.75	3.05	0.387
					Phase 6			0.00	4.57	4.57	0.546
					Phase 6			38.10	41.15	3.05	0.234
TF-3889	243.84	205	-60.00	920 W	Phase 6	686.07		48.77	51.82	3.05	0.798
					Phase 8			179.83	185.93	6.10	0.270
					Phase 6			4.57	6.10	1.52	1.300
					Phase 6			18.29	24.38	6.10	0.992
					Phase 6		Includes	18.29	21.34	3.05	1.398
					Phase 6			28.96	32.00	3.05	0.455
					Phase 6			77.72	83.82	6.10	0.363
					Phase 8			106.68	108.20	1.52	1.670
					Phase 8			134.11	137.16	3.05	1.430
TF-3891	347.47	205	-75.00	860 W	Phase 8	685.67		161.54	164.59	3.05	0.883
					Phase 8			210.31	213.36	3.05	1.233
					Phase 8			224.03	225.55	1.52	1.155
					Exploration			236.22	239.27	3.05	0.317
					Exploration			242.32	252.98	10.67	0.584
					Exploration			257.56	271.27	13.72	1.108
					Exploration		Includes	262.13	266.70	4.57	2.403
					Exploration			295.66	298.70	3.05	0.297
					Phase 8			99.06	103.63	4.57	0.304
					Phase 8			108.20	111.25	3.05	0.366
TE 2902	216.00	205	75.00	640 W	Exploration Exploration	572.40		227.08	231.65	4.57	0.491
TF-3893	316.99	205	-75.00	040 W	Exploration Exploration	572.49		236.22 260.60	246.89 266.70	10.67 6.10	0.555 0.411
								289.56		3.05	0.411
					Exploration Exploration			300.23	292.61 316.99	3.05 16.76	0.882
		1			Exploration Phase 6			19.81	32.00	12.19	0.303
					Phase 6			19.81	121.92	3.05	0.323
TF-3895	304.80	205	-55.00	840 W	Phase 6	685.74		129.54	132.59	3.05	0.312
11-3073	JU-1.0U	203	-55.00	0-70 **	Phase 8	003.74		169.16	172.21	3.05	2.388
					Phase 8			175.26	179.83	4.57	0.794
		<u> </u>	<u> </u>	<u> </u>	r nase 8			1/3.20	1/7.83	4.37	0.794



Drill			Drill H	Hole Details				Miner	alized Inte	ervals	
Hole	Depth	Azimuth	Angle	Section	Mine	Bench		From	To	Width	Au
Number	(m)	(°)	(°)	Line	Phase	Elevation		(m)	(m)	(m)	(g/t)
					Phase 8			210.31	213.36	3.05	0.599
					Phase 8			233.17	236.22	3.05	0.843
					Phase 8			246.89	262.13	15.24	0.774
					Phase 8			288.04	295.66	7.62	0.937
					Phase 8			300.23	303.28	3.05	0.301
					Phase 6 Phase 6	-		0.00 71.63	4.57 74.68	4.57 3.05	3.027 0.408
					Phase 6	-		88.39	106.68	18.29	0.408
					Phase 8			131.06	141.73	10.67	0.947
					Phase 8	1		153.92	173.74	19.81	0.439
TF-3896	329.18	205	-70.00	640 W	Exploration	572.51		182.88	193.55	10.67	4.491
					Exploration			227.08	231.65	4.57	0.420
					Exploration			234.70	249.94	15.24	0.738
					Exploration			271.27	281.94	10.67	0.330
					Exploration			284.99	295.66	10.67	0.550
					Phase 6			27.43	30.48	3.05	0.836
					Phase 6			89.92	91.44	1.52	3.290
					Phase 6			96.01	99.06	3.05	0.304
					Phase 8			123.44	126.49	3.05	0.681
					Phase 8]		131.06	137.16	6.10	0.303
TF-3899	353.57	205	-70.00	660 W	Phase 8	570.88		149.35	150.88	1.52	1.120
					Exploration			176.78	199.64	22.86	0.623
					Exploration		Includes	188.98	195.07	6.10	5.505
					Exploration			208.79	214.88	6.10	0.466
					Exploration			234.70	274.32	39.62	0.775
					Exploration		Includes	259.08	263.65	4.57	1.628
					Phase 6			0.00	12.19	12.19	0.538
TF-3900	329.18	205	-70.00	800 W	Phase 8	685.77		141.73	147.83	6.10	0.706
					Exploration			193.55	199.64	6.10	0.338
					Exploration			202.69	220.98	18.29	0.593
					Phase 6			108.20	114.30	6.10	0.388
					Exploration Exploration	-		176.78	190.50	13.72 7.62	0.383
						•		193.55	201.17	6.10	0.639 0.983
					Exploration Exploration	-		225.55 236.22	239.27	3.05	1.588
TF-3903	310.90	205	-70.00	680 W	Exploration	568.97		242.32	275.84	33.53	1.421
					Exploration		Includes	248.41	266.70	18.29	1.939
					Exploration	1	merudes	286.51	291.08	4.57	0.386
					Exploration			295.66	303.28	7.62	0.939
					Exploration		Includes	298.70	301.75	3.05	1.863
					Phase 6		111010000	65.53	79.25	13.72	0.912
					Phase 6			82.30	86.87	4.57	0.854
					Phase 6			91.44	94.49	3.05	0.302
					Phase 8			118.87	128.02	9.14	0.283
					Exploration			184.40	187.45	3.05	0.643
TE 2004	207.10	205	90.00	700 W	Exploration	566.00		210.31	214.88	4.57	0.477
TF-3904	297.18	205	-80.00	700 W	Exploration	566.90		234.70	239.27	4.57	0.215
					Exploration			246.89	249.94	3.05	0.255
					Exploration			254.51	271.27	16.76	0.881
					Exploration		Includes	265.18	268.22	3.05	1.898
					Exploration]		274.32	284.99	10.67	0.594
					Exploration			294.13	297.18	3.05	0.415
					Phase 6			10.67	13.72	3.05	0.248
					Phase 8			89.92	94.49	4.57	2.008
TF-3905	190.50	205	-60.00	820 W	Phase 8	685.67		121.92	126.49	4.57	0.359
11 3703	1,0.00		33.00	020 11	Phase 8	,		134.11	137.16	3.05	2.070
					Phase 8			140.21	146.30	6.10	0.305
					Phase 8			149.35	158.50	9.14	2.303



Drill			Drill I	Hole Details				Miner	alized Inte	ervals	
Hole	Depth	Azimuth	Angle	Section	Mine	Bench		From	To	Width	Au
Number	(m)	(°)	(°)	Line	Phase	Elevation		(m)	(m)	(m)	(g/t)
					Phase 8		Includes	149.35	155.45	6.10	3.155
					Phase 6			3.05	9.14	6.10	0.386
TF-3906	249.94	205	-85.00	720 W	Phase 8	566.09		73.15	86.87	13.72	0.707
11 0,00	2.,,,,	200	02.00	,20 ,,	Exploration			118.87	123.44	4.57	0.887
					Exploration			146.30	153.92	7.62	0.540
					Exploration			51.82	56.39	4.57	0.422
TF-3921	89.92	205	-75.00	980 W	Exploration	535.91		59.44	62.48	3.05	0.627
					Exploration			79.25	89.92	10.67	1.376
					Phase 6			35.05	39.62	4.57	0.449
					Exploration			41.15	51.82	10.67	0.685
					Exploration			68.58	73.15	4.57	0.679
					Exploration	-		82.30	83.82	1.52	5.230
TF-3922	237.74	0	-90.00	960 W	Exploration	539.87		103.63	114.30	10.67	0.444
					Exploration	-		131.06	134.11	3.05	0.393
					Exploration Exploration	-		152.40 170.69	161.54 178.31	9.14 7.62	0.553 0.549
					Exploration	-		205.74	207.26	1.52	2.560
					Exploration			210.31	211.84	1.52	1.770
					Exploration			114.30	135.64	21.34	1.093
TF-3923	216.41	205	-70.00	460 W	Exploration	533.91	Includes	118.87	124.97	6.10	1.818
					Phase 8		Hierades	111.25	124.97	13.72	2.417
					Phase 8		Includes	111.25	112.78	1.52	15.300
					Phase 8		merades	128.02	132.59	4.57	0.749
TF-3924	298.70	0	-90.00	560 W	Exploration	583.49		181.36	185.93	4.57	0.359
11 3724	270.70	Ü	70.00	300 11	Exploration	303.47		188.98	192.02	4.57	0.403
					Exploration			245.36	252.98	6.10	0.408
					Exploration			266.70	292.61	25.91	0.577
TF-3925	128.02	205	-70.00	460 W	Phase 6	593.22		48.77	51.82	3.05	1.665
					Phase 6			85.34	86.87	1.52	0.568
					Exploration			213.36	220.98	7.62	0.671
					Exploration			251.46	256.03	3.05	0.557
					Exploration			272.80	286.51	13.72	2.414
TF-3926	382.52	205	-65.00	440 W	Exploration	648.48		289.56	292.61	3.05	1.086
					Exploration			297.18	301.75	4.57	0.455
					Exploration			313.94	323.09	9.14	0.613
					Exploration			329.18	353.57	24.38	0.617
					Exploration		Includes	341.38	349.00	7.62	1.320
					Phase 6			35.05	39.62	4.57	5.161
TF-3927	182.88	0°	-90.00	540 W	Phase 6			57.91	62.48	4.57	0.966
					Exploration			169.16	173.74	4.57	0.317
					Phase 6			10.67	13.72	3.05	1.777
					Phase 6			38.10	41.15	3.05	0.302
TDE 2020	251 15	20.50	60.00	400 ***	Exploration	500.50		138.68	143.26	4.57	0.704
TF-3928	251.46	205°	-60.00	420 W	Exploration	599.59		163.07	169.16	6.10	0.473
					Exploration		T 1 1	198.12	220.98	22.86	0.763
					Exploration		Includes	210.31	214.88	4.57	2.012
					Exploration Phase 8			227.08	230.12	3.05	0.326
TF-3929	128.02	205	-70.00	360 W	Exploration	603.55		56.39 85.34	59.44 92.96	3.05 7.62	7.265 0.900
					Phase 6			19.81	22.86	3.05	0.900
					Exploration	-		44.20	47.24	3.05	0.373
TF-3930	120.40	0	-90.00	1020 W	Exploration	531.14		94.49	97.54	3.05	0.284
11-3730	120.40		-50.00	1020 W	Exploration	331.14		111.25	115.82	4.57	0.319
					Exploration			111.43	113.04	+.51	0.317
					Phase 8			42.67	45.72	3.05	0.641
			00.00	0.00	Phase 8	-04		60.96	73.15	12.19	0.497
TF-3931	161.54	0	-90.00	360 W	Exploration	603.20		86.87	92.96	6.10	1.426
		1			Exploration	1		96.01	102.11	6.10	0.651



Drill			Drill I	Hole Details				Miner	alized Inte	ervals	
Hole	Depth	Azimuth	Angle	Section	Mine	Bench		From	To	Width	Au
Number	(m)	(°)	(°)	Line	Phase	Elevation		(m)	(m)	(m)	(g/t)
					Exploration			103.63	109.73	6.10	1.274
					Exploration		Includes	105.16	108.20	3.05	1.968
					Phase 6			28.96	32.00	3.05	1.049
TF-3932	120.40	0	-90.00	1020 W	Exploration	529.44		62.48	67.06	4.57	0.410
					Exploration			112.78	115.82	3.05	0.690
TT 2022	100.00	205	71.00	500 111	Phase 8	500.50		100.58	108.20	7.62	1.087
TF-3933	188.98	205	-71.00	520 W	Phase 8	583.72		152.40	156.97	4.57	0.453
					Exploration			182.88	188.98	6.10	1.879
TF-3934	152.40	205	-65.00	480 W	Phase 6 Phase 6	644.04		86.87	97.54	10.67 9.14	0.701 1.272
					Phase 6			105.16 21.34	114.30 24.38	3.05	0.351
					Phase 6			74.68	86.87	12.19	0.331
					Phase 6			91.44	99.06	7.62	0.996
TF-3936	280.42	235	-65.00	500 W	Phase 6	603.48		115.82	124.97	9.14	0.260
11-3930	200.42	233	-05.00	300 W	Exploration	003.48		176.78	199.64	22.86	0.260
					Exploration	1		233.17	240.79	7.62	0.482
					Exploration			249.94	252.98	3.05	0.434
					Phase 6			79.25	94.49	15.24	0.293
					Phase 6			103.63	111.25	7.62	1.412
					Phase 6			135.64	138.68	3.05	0.398
					Exploration			164.59	167.64	3.05	0.285
					Exploration			188.98	204.22	15.24	0.717
TF-3937	371.86	205	-70.00	400 W	Exploration	653.30		260.60	266.70	6.10	3.973
					Exploration			281.94	284.99	3.05	0.398
					Exploration			292.61	313.94	21.34	0.644
					Exploration			332.23	339.85	7.62	0.569
					Exploration			344.42	353.57	9.14	0.831
					Exploration			362.71	368.81	6.10	0.283
					Phase 6			32.00	42.67	10.67	0.504
					Phase 8			57.91	62.48	4.57	1.099
					Phase 8			73.15	76.20	3.05	1.154
TF-3938	155.45	190°	-70.00	340 W	Phase 8	608.31		80.77	99.06	18.29	0.543
11 3730	133.43	150	70.00	340 11	Exploration	000.51		102.11	105.16	3.05	0.282
					Exploration			117.35	120.40	3.05	1.203
					Exploration			123.44	132.59	9.14	1.750
					Exploration			149.35	155.45	6.10	1.013
					Phase 6			22.86	25.91	3.05	0.445
TF-3939	100.58	205	-70.00	340 W	Phase 8	606.34		53.34	57.91	4.57	2.373
					Phase 8			82.30	85.34	3.05	0.847
					Exploration			91.44	100.58	7.62	0.892
TF-3940	140.21	0	-90.00	440 W	Phase 6 Phase 8	602.96		12.19 80.77	15.24 83.82	3.05 3.05	0.241 0.695
11-3940	140.21	U	-90.00	440 W	Phase 8 Phase 8	002.90		102.11	121.92	19.81	0.695
					Phase 6			48.77	51.82	3.05	0.563
					Phase 8			109.73	114.30	4.57	0.505
					Phase 8			123.44	126.49	3.05	0.354
					Exploration			228.60	240.79	12.19	0.633
					Exploration			246.89	251.46	4.57	0.569
					Exploration			266.70	278.89	10.67	0.804
PDE 20 : 5	454	205	60.65	5 00	Exploration			281.94	288.04	6.10	1.747
TF-3942	451.10	205	-80.00	500 W	Exploration	641.70		306.32	309.37	3.05	0.456
					Exploration	1		315.47	323.09	7.62	0.420
					Exploration			355.09	358.14	3.05	0.729
					Exploration]		365.76	373.38	7.62	0.651
					Exploration]		381.00	388.62	7.62	0.759
					Exploration]		425.20	428.24	3.05	0.704
		<u> </u>			Exploration			443.48	451.10	7.62	0.833
TF-3943	214.88	205	-55.00	580 W	Phase 5	535.86		21.34	28.96	7.62	2.128



Drill			Drill H	Hole Details			Miner	alized Inte	ervals	
Hole	Depth	Azimuth	Angle	Section	Mine	Bench	From	To	Width	Au
Number	(m)	(°)	(°)	Line	Phase	Elevation	(m)	(m)	(m)	(g/t)
					Phase 5		50.29	56.39	6.10	0.874
					Phase 5		82.30	89.92	7.62	0.535
					Phase 6		94.49	97.54	3.05	1.006
					Exploration		184.40	187.45	3.05	0.385
					Phase 8		73.15	79.25	6.10	0.429
					Phase 8		82.30	94.49	12.19	0.653
TF-3944	152.40	205	-75.00	560 W	Phase 8	535.58	97.54	118.87	21.34	0.659
					Phase 8	-	126.49 134.11	129.54 144.78	3.05	0.683
					Exploration		134.11	152.40	10.67 3.05	0.502 0.450
					Exploration Phase 5		0	10.67	10.67	1.788
					Phase 8		112.78	123.44	10.67	1.766
TF-3945	155.45	205	-55.00	560 W	Exploration	535.59	135.64	140.21	4.57	2.133
					Exploration		152.40	155.45	3.05	1.629
					Phase 8		74.676	79.25	4.57	2.556
TF-3946	207.26	205	-70.00	520 W	Exploration	535.76	83.82	112.78	28.96	0.818
					Phase 6		85.344	89.92	4.57	0.641
					Phase 8	1	123.44	128.02	4.57	0.554
					Exploration		134.11	140.21	6.10	0.565
					Exploration		155.45	158.50	3.05	0.818
TF-3947	251.46	0	-90.00	620 W	Exploration	536.27	176.78	190.50	13.72	0.398
					Exploration		216.41	219.46	3.05	0.465
					Exploration		231.65	237.74	6.10	0.533
					Exploration		245.36	249.94	4.57	0.659
					Phase 6		7.62	13.72	4.57	0.632
					Phase 6	1	21.34	28.96	7.62	1.180
					Phase 6		70.10	88.39	18.29	0.403
					Phase 8		109.73	112.78	3.05	0.562
TF-3948	274.32	205	-75.00	800 W	Exploration	53.12	161.54	167.64	6.10	0.780
					Exploration		190.50	195.07	4.57	2.290
					Exploration		224.03	233.17	9.14	1.167
					Exploration		236.22	243.84	7.62	0.387
					Exploration		271.27	274.32	3.05	0.481
					Phase 6		4.572	9.14	4.57	0.921
					Phase 6		12.19	15.24	3.05	0.511
					Phase 6		19.81	22.86	3.05	0.452
					Phase 6		35.05	38.10	3.05	0.318
					Phase 8		173.74	176.78	3.05	0.436
TF-3949	353.57	205	-53.00	780 W	Phase 8	701.37	204.22	207.26	3.05	1.600
					Phase 8		219.46	242.32	22.86	0.455
					Exploration		274.32	284.99	10.67	0.646
					Exploration Exploration		288.04	291.08	3.05	0.712 0.312
						-	316.99	321.56	4.57	
					Exploration		327.66	332.23	4.57	0.383
TF-3950	161.54	205	-70.00	300 W	Exploration Exploration	613.12	91.44 131.06	94.49	3.05 13.72	1.667 0.627
					Phase 8		85.344	89.92	4.57	1.501
					Exploration		118.87	124.97	6.10	0.480
TF-3951	251.46	0	-90.00	380 W	Exploration	654.70	147.83	156.97	9.14	0.494
11-3931	4J1.4U		-50.00	300 **	Exploration	054.70	160.02	179.83	19.81	0.494
					Exploration	1	236.22	243.84	7.62	3.080
					Phase 8		86.868	88.39	1.52	7.640
					Phase 8		92.96	106.68	13.72	3.177
TF-3952	201.17	205	-75.00	360 W	Phase 8	643.68	109.73	115.82	6.10	0.434
					Exploration	1	196.60	201.17	4.57	0.976
TF-3955	131.06	205	-60.00	340 W	Phase 6	643.77	16.764	21.34	4.57	0.801
					Phase 6		68.58	73.15	4.57	0.711
TF-3956	329.18	205	-80.00	420 W	Phase 8	603.08	80.77	89.92	9.14	0.681



Drill			Drill I	Hole Details				Miner	alized Inte	ervals	
Hole	Depth	Azimuth	Angle	Section	Mine	Bench		From	To	Width	Au
Number	(m)	(°)	(°)	Line	Phase	Elevation		(m)	(m)	(m)	(g/t)
					Exploration			161.54	166.12	4.57	0.283
					Exploration			181.36	190.50	9.14	0.379
					Exploration			193.55	198.12	4.57	0.509
					Exploration			210.31	239.27	28.96	1.255
					Exploration		Includes	228.60	237.74	9.14	2.112
					Exploration			243.84	252.98	9.14	0.777
					Exploration			256.03	265.18	9.14	1.174
					Exploration			269.75	272.80	3.05	0.416
					Exploration			301.75	304.80	3.05	0.320
					Exploration			310.90	315.47	4.57	0.428
					Phase 6			0	3.05	3.05	0.735
TF-3957	123.44	205	-70.00	300 W	Phase 6	616.27		19.81 109.73	21.34 111.25	1.52 1.52	1.300 3.170
					Exploration			109.73	123.44	1.52	1.125
		+			Exploration Phase 6			51.816	54.86	3.05	0.496
					Phase 6			225.55	228.60	3.05	0.496
TF-3958	347.47	205	-50.00	760 W	Phase 6	702.96		231.65	242.32	3.05	0.539
					Phase 8			275.84	284.99	3.05	0.436
TF-3959	82.30	205	-70.00	280 W	Phase 8	631.99		54.864	57.91	3.05	0.436
11-3737	02.30	203	-70.00	200 W	Phase 8	031.77		1.524	4.57	3.05	0.655
					Phase 8			1.324	24.38	7.62	0.432
TF-3960	111.25	205	-70.00	280 W	Phase 8	621.14		91.44	92.96	1.52	2.430
					Phase 8			97.54	103.63	6.10	0.419
					Phase 8			3.048	6.10	3.05	0.235
					Phase 8			12.19	15.24	3.05	0.603
TF-3961	112.78	0	-90.00	260 W	Phase 8	620.58		68.58	71.63	3.05	0.584
			, , , , ,		Exploration	0_0.0		96.01	97.54	1.52	4.240
					Exploration			105.16	109.73	4.57	1.560
					Phase 8			42.672	45.72	3.05	0.730
					Phase 8			73.15	83.82	10.67	0.291
TE 20/2	110.70	205	<i>(5.00)</i>	240 337	Phase 8	657.67		89.92	92.96	3.05	0.526
TF-3962	112.78	205	-65.00	340 W	Exploration	657.67		108.20	115.82	7.62	0.245
					Exploration			118.87	126.49	7.62	0.403
					Exploration			129.54	134.11	4.57	0.992
					Phase 8			4.572	7.62	4.57	0.567
					Phase 8			10.67	25.91	15.24	0.537
TF-3963	161.54	205	-70.00	280 W	Exploration	616.81		103.63	118.87	15.24	2.445
					Exploration			129.54	132.59	3.05	0.667
					Exploration			143.26	158.50	15.24	0.345
					Phase 8			103.632	114.30	10.67	0.687
					Phase 8			140.21	147.83	7.62	1.043
TTE 20 - :	200 50	205	5 0.00	222	Exploration	250 25		160.02	163.07	3.05	0.829
TF-3964	298.70	205	-50.00	320 W	Exploration	659.62		166.12	170.69	4.57	0.357
					Exploration			254.51	262.13	7.62	0.458
					Exploration			269.75	277.37	7.62	0.516
					Exploration			281.94	289.56	7.62	0.489
TE 2045	100.58	205	70.00	240 W	Phase 8	625.20		10.81	1.52	1.52	1.375 1.049
TF-3965	100.58	205	-70.00	∠40 W	Phase 8	625.20		19.81 91.44	22.86 97.54	3.05	0.386
		<u> </u>			Phase 8 Phase 8			251.46	254.51	6.10 3.05	1.663
					Phase 8			259.08	260.60	1.52	1.003
TF-3966	350.52	205	-64.00	660 W	Exploration	706.14		268.22	272.80	4.57	0.333
11-3700	330.32	203	-04.00	000 W	Exploration	700.14	1	304.80	312.42	7.62	1.055
					Exploration			333.76	341.38	7.62	0.852
					Exploration			112.776	115.82	3.05	1.495
					Exploration			128.02	134.11	6.10	0.450
TF-3967	272.32	205	-70.00	260 W	Exploration	661.68		185.93	192.02	6.10	3.817
					Exploration		Includes	185.93	187.45	1.52	8.180
		İ		<u> </u>	Emploration	l .	merados	100.70	107.73	1.32	0.100



TF-3968 2 TF-3969 2 TF-3970 3	201.17 286.51 329.18	205 205	-70.00 -70.00	Section Line 240 W	Mine Phase Exploration Exploration Exploration Phase 8 Phase 8 Phase 8 Exploration Exploration Exploration Phase 6 Phase 8 Phase 8 Phase 8 Exploration	623.67 704.97	From (m) 207.26 219.46 225.55 35.052 65.53 82.30 115.82 164.59 0 225.55 251.46	To (m) 211.84 222.50 231.65 38.10 70.10 91.44 118.87 167.64 6.10 231.65 252.98	Width (m) 4.57 3.05 6.10 3.05 4.57 9.14 3.05 3.05 6.10 6.10 1.52	Au (g/t) 0.912 0.990 0.547 1.085 0.600 0.902 1.276 0.318 0.238 0.645 1.030
TF-3968 2 TF-3969 2 TF-3970 3	201.17 286.51	205	-70.00 -53.00	240 W	Exploration Exploration Exploration Phase 8 Phase 8 Phase 8 Exploration Exploration Phase 6 Phase 8 Phase 8 Phase 8	623.67	207.26 219.46 225.55 35.052 65.53 82.30 115.82 164.59 0	211.84 222.50 231.65 38.10 70.10 91.44 118.87 167.64 6.10 231.65	4.57 3.05 6.10 3.05 4.57 9.14 3.05 3.05 6.10 6.10	0.912 0.990 0.547 1.085 0.600 0.902 1.276 0.318 0.238
TF-3969 2 TF-3970 3	286.51	205	-53.00		Exploration Exploration Phase 8 Phase 8 Phase 8 Exploration Exploration Phase 6 Phase 8 Phase 8 Phase 8		219.46 225.55 35.052 65.53 82.30 115.82 164.59 0 225.55	222.50 231.65 38.10 70.10 91.44 118.87 167.64 6.10 231.65	3.05 6.10 3.05 4.57 9.14 3.05 3.05 6.10 6.10	0.990 0.547 1.085 0.600 0.902 1.276 0.318 0.238
TF-3969 2 TF-3970 3	286.51	205	-53.00		Exploration Phase 8 Phase 8 Phase 8 Exploration Exploration Phase 6 Phase 8 Phase 8 Phase 8		225.55 35.052 65.53 82.30 115.82 164.59 0 225.55	231.65 38.10 70.10 91.44 118.87 167.64 6.10 231.65	6.10 3.05 4.57 9.14 3.05 3.05 6.10 6.10	0.547 1.085 0.600 0.902 1.276 0.318 0.238 0.645
TF-3969 2 TF-3970 3	286.51	205	-53.00		Phase 8 Phase 8 Phase 8 Exploration Exploration Phase 6 Phase 8 Phase 8 Phase 8		35.052 65.53 82.30 115.82 164.59 0 225.55	38.10 70.10 91.44 118.87 167.64 6.10 231.65	3.05 4.57 9.14 3.05 3.05 6.10 6.10	1.085 0.600 0.902 1.276 0.318 0.238 0.645
TF-3969 2 TF-3970 3	286.51	205	-53.00		Phase 8 Phase 8 Exploration Exploration Phase 6 Phase 8 Phase 8 Phase 8		65.53 82.30 115.82 164.59 0 225.55	70.10 91.44 118.87 167.64 6.10 231.65	4.57 9.14 3.05 3.05 6.10 6.10	0.600 0.902 1.276 0.318 0.238 0.645
TF-3969 2 TF-3970 3	286.51	205	-53.00		Phase 8 Exploration Exploration Phase 6 Phase 8 Phase 8 Phase 8		82.30 115.82 164.59 0 225.55	91.44 118.87 167.64 6.10 231.65	9.14 3.05 3.05 6.10 6.10	0.902 1.276 0.318 0.238 0.645
TF-3969 2 TF-3970 3	286.51	205	-53.00		Exploration Exploration Phase 6 Phase 8 Phase 8 Phase 8		115.82 164.59 0 225.55	118.87 167.64 6.10 231.65	3.05 3.05 6.10 6.10	1.276 0.318 0.238 0.645
TF-3970 3				540 W	Exploration Phase 6 Phase 8 Phase 8 Phase 8	704.97	164.59 0 225.55	167.64 6.10 231.65	3.05 6.10 6.10	0.318 0.238 0.645
TF-3970 3				540 W	Phase 6 Phase 8 Phase 8 Phase 8	704.97	0 225.55	6.10 231.65	6.10 6.10	0.238 0.645
TF-3970 3				540 W	Phase 8 Phase 8 Phase 8	704.97	225.55	231.65	6.10	0.645
TF-3970 3				340 W	Phase 8 Phase 8	704.97				
	329.18	205	-70.00		Phase 8		2,11.40	232.90	1) ∠	
	329.18	205	-70.00					74.68	7.62	0.300
	329.18	205	-70.00				67.056 120.40	131.06	10.67	0.300
	329.18	205	-70.00		Exploration		182.88	187.45	4.57	0.408
	329.10	203	-70.00	320 W	Exploration	659.32	207.26	214.88	7.62	0.408
TF-3971 1				320 W	Exploration	039.32	275.84	281.94	6.10	0.338
TF-3971 1					Exploration		298.70	301.75	3.05	0.628
TF-3971 1	+				Exploration		320.04	326.14	6.10	3.351
TF-3971 1					Phase 8		13.716	18.29	4.57	1.989
TF-3971 1					Exploration		115.82	121.92	6.10	0.833
	164.59	205	-70.00	300 W	Exploration	661.18	140.21	143.26	3.05	0.238
					Exploration		150.88	156.97	6.10	0.750
TF-3973 1	100.58	205	-70.00	240 W	Exploration	627.26	83.82	88.39	4.57	1.765
11 37/3 1	100.30	203	70.00	240 11	Phase 8	027.20	0	7.62	7.62	4.562
					Phase 8		33.528	42.67	9.14	0.450
TF-3974 2	225.55	0	-90.00	120 W	Exploration	684.28	126.49	134.11	7.62	1.222
22 057.	220.00	Ü	,0.00	120 11	Exploration	00.1.20	146.30	149.35	3.05	0.236
					Exploration		170.69	173.74	3.05	1.285
					Phase 8		6.096	9.14	3.05	0.585
TF-3975 2	231.65	205	-70.00	140 W	Phase 8	678.98	54.864	57.91	3.05	0.431
					Phase 8		97.536	103.63	6.10	0.579
TEC 2076	05.24	205	70.00	240 117	Phase 8	620.22	6.096	9.14	3.05	1.203
TF-3976 8	85.34	205	-70.00	240 W	Phase 8	630.33	44.196	64.01	28.05	1.041
TF-3977 1	109.73	205	-65.00	260 W	Exploration	634.90	94.488	97.54	3.05	0.317
11-39//	109.73	203	-03.00	200 W	Exploration	034.90	106.68	109.73	3.05	0.875
					Phase 8		4.572	10.67	6.10	0.516
					Phase 8		15.24	27.43	12.19	0.280
					Phase 8		39.624	42.67	3.05	0.238
TF-3978 2	274.32	205	-60.00	160 W	Phase 8	675.46	57.912	67.06	9.14	0.754
11-3776 2	217.32	203	-00.00	100 11	Phase 8	073.40	91.44	94.49	3.05	0.515
					Exploration		149.35	152.40	3.05	0.464
					Exploration		163.07	169.16	6.10	0.507
					Exploration		184.40	188.98	4.57	1.029
					Phase 5		6.096	10.67	4.57	0.280
					Phase 5		16.764	19.81	3.05	0.720
TF-3979 1	102.22	0	-90.00	840 W	Phase 5	630.33	32.004	38.10	6.10	0.739
					Phase 5		60.96	64.01	3.05	0.696
					Phase 6		76.2	79.25	3.05	0.355
					Phase 6		96.012	100.58	4.57	0.205
					Phase 5	<u> </u>	3.048	6.10	3.05	0.540
					Phase 5 Phase 5	<u> </u>	32.004 56.388	33.53 62.48	1.52 6.10	1.160 0.889
					Phase 5 Phase 5		80.772	83.82	3.05	0.889
TF-3980 2	252.98	205	-70.00	760 W	Phase 5 Phase 5	524.04	89.916	94.49	4.57	0.329
11-3700 2	252.70	203	-70.00	/ 00 W	Phase 6	324.04	144.78	164.59	19.81	0.233
					Phase 6	 	173.736	179.83	6.10	0.407
					Phase 8		188.976	192.02	3.05	0.756
					Exploration		199.64	204.22	4.57	1.050



Drill			Drill H	Iole Details			Mineralized Intervals					
Hole	Depth	Azimuth	Angle	Section	Mine	Bench		From	To	Width	Au	
Number	(m)	(°)	(°)	Line	Phase	Elevation		(m)	(m)	(m)	(g/t)	
					Exploration			217.93	231.65	13.72	0.949	
					Exploration			234.70	243.84	9.14	0.676	
					Exploration			249.94	252.98	3.05	0.617	
					Phase 5			1.524	24.38	22.86	0.914	
					Phase 6			28.956	36.58	7.62	1.676	
TF-3981	121.92	205	-70.00	900 W	Phase 6	524.28		45.72	59.44	13.72	1.887	
					Phase 6			80.772	82.30	1.52	1.175	
					Phase 6			85.344	88.39	3.05	0.938	

Table provided by Magna Gold Corp. March, 2020.

Figure 10.21 RC Drill Program at the San Francisco Pit as of December, 2017, East-Southeast View

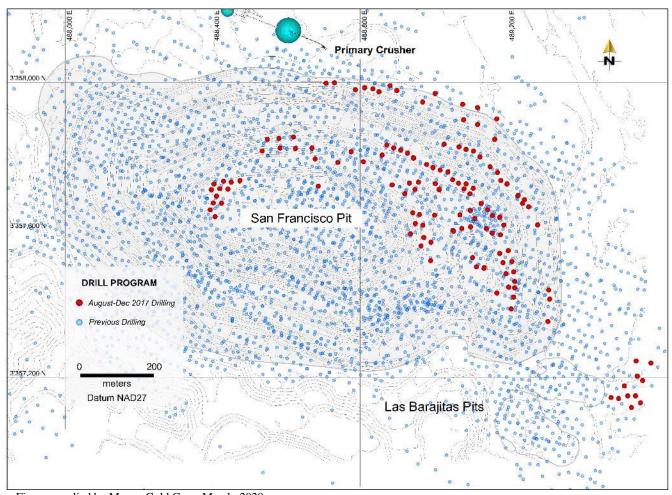


Figure supplied by Magna Gold Corp, March, 2020.

10.8 2018 IN-FILL DRILLING PROGRAM FOR THE SAN FRANCISCO MINE

From May to July 2018, 105 reverse circulation holes were drilled for a total of 7,154 m with an average depth of 68 m, as summarized by month in Table 10.17.



Table 10.17 Summary of the 2018 Monthly RC In-fill Drilling

Month	Number of RC Holes Drilled	Number of Metres Drilled
May	66	3,415.28
June	27	2,247.90
July	12	1,490.48
Total	105	7,153.66

Table supplied by Magna Gold Corp, March, 2020.

All in-fill drill holes were conducted to better understand the nature of the mineralization within the existing mining Phases 5, 6, 7, 8 and 9. Figure 10.22 is a plan view of the 2018 drilling locations.

Figure 10.22 Plan View of the 2018 Drilling Program at the San Francisco Project

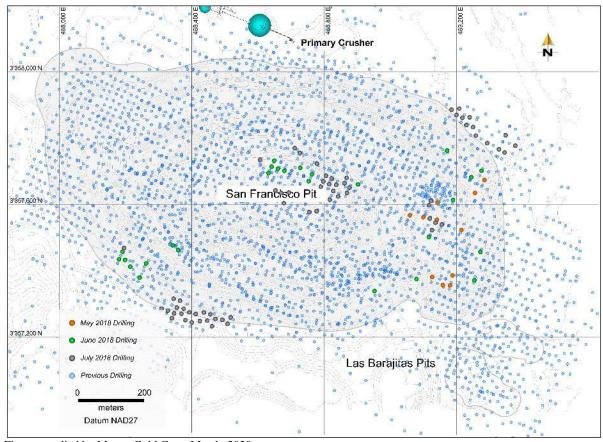


Figure supplied by Magna Gold Corp, March, 2020.

As with previous drilling programs, the contractor chosen to conduct the drilling was Layne de México.



However, further drilling will be necessary in order to achieve the objective of increasing the resource classification and in order to further define the deeper mineralization because, as the pit goes deeper, there is less drilling and the spacing between the drill holes is wider.

Table 10.18 summarizes the significant assays for the 2018 drilling program from August to December.

Table 10.18 Significant Assay Intercepts, May to July, 2018 Reverse Circulation Drill Program

			Drill H		M	ineralizat	ion Interv	al		
Drill Hole Number	Depth (m)	Azimuth (°)	Angle (°)	Section Line	Mine Phase	Bench Elevation	From (m)	To (m)	True Width (m)	Au (g/t)
							0.00	16.76	16.76	0.273
IF18-001	51.82	0	-90	820 W	Phase 5	470.21	28.96	33.53	4.57	0.220
							41.15	47.24	6.10	0.258
IF18-002	51.82	0	-90	700 W	Phase 5	470.58	0.00	6.10	6.10	0.848
1110-002	31.02	U	-90	700 vv	1 masc 3	470.36	33.53	51.82	18.29	0.439
IF18-003	51.82	0	-90	840 W	Phase 5	470.21	15.24	30.48	15.24	0.298
11 10-003	31.02	O	-70	040 11	T Hase 3	470.21	48.77	51.82	3.05	0.983
IF18-004	30.48	0	-90	720 W	Phase 5	470.39	3.05	6.10	3.05	0.524
		_					10.67	16.76	6.10	0.425
IF18-005	30.48	0	-90	700 W	Phase 5	470.69	0.00	4.57	4.57	0.744
IF18-006	42.67	0	-90	800 W	Phase 7	709.41	4.57	9.14	4.57	0.383
IF18-007	51.82	0	-90	1000 W	Phase 7	710.26	42.67	48.77	6.10	0.510
							4.57	9.14	4.57	0.595
IF18-008	51.82	0	-90	980 W	Phase 7	710.00	15.24	24.38	9.14	0.305
							28.96	39.62	10.67	0.267
							0.00	7.62	7.62	0.237
IF18-009	70.10	0	-90	980 W	Phase 7	709.77	54.86	57.91	3.05	0.180
							62.48	70.10	7.62	0.220
							0.00	7.62	7.62	0.311
IF18-010	60.96	0	-90	960 W	Phase 7	710.29	27.43	32.00	4.57	0.838
11 10 010	00.70		70	700 W	T Hase 7	710.25	35.05	39.62	4.57	0.178
							41.15	60.96	19.81	0.262
IF18-011	51.82	0	-90	960 W	Phase 7	710.82	15.24	21.34	6.10	0.314
11 10 011	31.02	Ü	70	700 11	T Hase 7	710.02	28.96	35.05	6.10	0.218
IF18-012	51.82	0	-90	960 W	Phase 7	710.16	15.24	22.86	7.62	0.368
							32.00	48.77	16.76	0.555
IF18-013	42.67	0	-90	960 W	Phase 7	710.04	0.00	27.43	27.43	0.381
IF18-014	51.82	0	-90	940 W	Phase 7	710.31	12.19	19.81	7.62	0.445
IF18-015	42.67	0	-90	940 W	Phase 7	710.12	9.14	27.43	18.29	0.228
IF18-016	51.82	0	-90	920 W	Phase 7	709.60	30.48	38.10	7.62	0.267
11 10 010	31.02	Ü	70)20 W	T nase 7	705.00	44.20	51.82	7.62	0.524
							18.29	24.38	6.10	0.500
IF18-018	51.82	0	-90	900 W	Phase 7	709.63	35.05	41.15	6.10	1.230
							45.72	48.77	3.05	0.185
IF18-019	42.67	0	-90	880 W	Phase 7	709.93	19.81	25.91	6.10	0.317
IF18-020	51.82	0	-90	840 W	Phase 7	710.04	7.62	12.19	4.57	0.235
IF18-022	30.48	0	-90	900 W	Phase 7	710.31	12.19	15.24	3.05	0.180



			Drill I	Hole Details		M	Mineralization Interval				
Drill Hole Number	Depth (m)	Azimuth (°)	Angle (°)	Section Line	Mine Phase	Bench Elevation	From (m)	To (m)	True Width (m)	Au (g/t)	
							19.81	22.86	3.05	0.270	
IF18-023	42.67	0	-90	880 W	Phase 7	709.82	15.24	18.29	3.05	0.340	
11/16-023	42.07	U	-90	880 W	r nase /	709.82	27.43	42.67	15.24	0.396	
							7.62	13.72	6.10	0.150	
IF18-025	51.82	0	-90	840 W	Phase 7	710.30	16.76	19.81	3.05	0.205	
							25.91	32.00	6.10	0.166	
							4.57	7.62	3.05	0.163	
IF18-026	51.82	0	-90	820 W	Phase 7	709.54	27.43	30.48	3.05	0.145	
		_					36.58	51.82	15.24	0.294	
IF18-029	51.82	0	-90	360 W	Cong	700.86	0.00	36.58	36.58	0.126	
IF18-030	30.48	0	-90	240 W	Cong	698.60	6.10	30.48	24.38	0.248	
IF18-033	51.82	0	-90	440 W	Cong	702.45	0.00	42.67	42.67	0.263	
IF18-034	51.82	0	-90	460 W	Cong	702.94	0.00	32.00	32.00	0.178	
IF18-035	51.82	0	-90	400 W	Cong	702.75	6.10	9.14	3.05	0.125	
							41.15	44.20	3.05	0.143	
IF18-036	51.82	0	-90	400 W	Cong	701.43	0.00	51.82	51.82	0.198	
IF18-037	51.82	0	-90	380 W	Cong	701.07	0.00	51.82	51.82	0.163	
IF18-039	30.48	0	-90	280 W	Cong	699.38	0.00	22.86	22.86	0.156	
							15.24	19.81	4.57	1.763	
IF18-042	106.68	0	-90	680 W	Phase 5	470.21	22.86	28.96	6.10	0.520	
							35.05	45.72	10.67	1.113	
							73.15	77.72	4.57	0.348	
							16.76	19.81	3.05	1.070	
							22.86	27.43	4.57	1.140	
IF18-043	121.92	0	-90	660 W	Phase 5	466.72	32.00	64.01	32.00	0.722	
							71.63	82.30	10.67	1.303	
							85.34	92.96	7.62	0.722	
					1		97.54	108.20	10.67	0.514	
IE10 046	70.10	0	00	660 W	DI 6	464.01	6.10	9.14	3.05	0.170	
IF18-046	70.10	0	-90	660 W	Phase 5	464.81	41.15	45.72	4.57	0.227	
IE10 047	20.40	0	00	040 W	D1	450.04	51.82	70.10	18.29	0.770	
IF18-047	30.48	0	-90	840 W	Phase 5	450.04	12.19	18.29	6.10	0.253	
IF18-048	30.48	0	-90	400 W	Phase 6	602.50	7.62	13.72	6.10	1.010	
IE19 050	20.49	0	00	720 W	Dhaga 5	467.76	16.76	22.86	6.10	0.828	
IF18-050	30.48	0	-90		Phase 5		1.52	9.14	7.62	0.643	
IF18-051	62.01	0	-90	700 W	Phase 5	469.53	59.44	64.01	4.57	1.328	
IF18-052	39.62	0	-90	800 W	Phase 5	449.72	4.57	12.19	7.62	0.333	
					+		19.81	30.48	10.67	0.265	
IF18-054	100.58	0	-90	400 W	Phase 6	602.55	27.43 48.77	32.00 70.10	4.57 21.34	0.182	
1110-034	100.58	0	-90	400 W	riiase o	002.33					
IF18-055	36.58	0	-90	920 W	Phase 5	470.10	83.82 3.05	92.96 18.29	9.14 15.24	0.225	
11.10-033	20.28	U	-90	920 W	r nase 3	4/0.10	13.72	24.38		0.236	
IF18-057	51.82	0	-90	360 W	Phase 6	608.39	36.58	50.29	10.67 13.72	0.179	
					+		38.10	42.67	4.57	0.417	
IF18-058	51.82	0	-90	1180 W	Phase 7	704.35	48.77	51.82	3.05	0.337	
					+		7.62	18.29	10.67	0.240	
IF18-059	45.72	0	-90	680 W	Phase 5	464.59	33.53	42.67	9.14	0.047	
II	l	l		l	1	I	33.33	44.07	7.14	0.740	



			Drill I		M	lineralizat	ion Interv	al		
Drill Hole Number	Depth (m)	Azimuth (°)	Angle (°)	Section Line	Mine Phase	Bench Elevation	From (m)	To (m)	True Width (m)	Au (g/t)
IF18-060	70.10	0	-90	680 W	Phase 5	464.61	0.00 9.14 42.67	3.05 32.00 48.77	3.05 22.86 6.10	0.275 0.258 2.019
IF18-061	51.82	0	-90	720 W	Phase 5	464.54	3.05 15.24 21.34	6.10 18.29 51.82	3.05 3.05 30.48	0.358 0.203 0.471
IF18-068	91.44	0	-90	200 W	Phase 6	649.04	16.76 44.20 51.82 65.53 77.72	35.05 47.24 54.86 73.15 82.30	18.29 3.05 3.05 7.62 4.57	1.005 0.985 0.235 1.040 0.167
IF18-069	70.10	0	-90	840 W	Phase 5	463.51	0.00 60.96	7.62 70.10	7.62 9.14	0.169 0.538
IF18-070 IF18-071	56.39 69.96	205	-90 -60	860 W 860 W	Phase 5 Phase 5	463.84	0.00 0.00 41.15 51.82	25.91 28.96 47.24 60.96	25.91 28.96 6.10 9.14	0.464 0.502 0.328 0.265
IF18-072	54.86	0	-90	860 W	Phase 5	464.22	0.00 44.20 51.82	16.76 47.24 54.86	16.76 3.05 3.05	0.263 0.287 0.416 0.154
IF18-073	45.72	0	-90	880 W	Phase 5	464.00	6.10	18.29	12.19	1.344
IF18-074 IF18-075	54.86 60.96	0	-90 -90	880 W 880 W	Phase 5 Phase 5	463.74	1.52 3.05 24.38 39.62	24.38 7.62 28.96 44.20	22.86 4.57 4.57 4.57	0.457 0.283 1.295 0.580
IF18-076	85.34	0	-90	1140 W	Phase 7	704.68	28.96 62.48 77.72	35.05 67.06 85.34	6.10 4.57 7.62	2.990 1.100 0.216
IF18-077	70.10	0	-90	760 W	Phase 5	457.99	0.00 33.53	28.96 60.96	28.96 27.43	0.456 1.002
IF18-078	99.06	0	-90	760 W	Phase 5	458.17	0.00 41.15	21.34 88.39	21.34 47.24	0.423 0.646
IF18-079	60.96	0	-90	800 W	Phase 5	457.89	0.00 18.29 57.91	13.72 27.43 60.96	9.14 3.05	0.803 0.657 0.785
IF18-080	80.77	205	-75	1160 W	Phase 7	704.64	42.67	60.96	18.29	1.347
IF18-081	85.34	0	-90	1180 W	Phase 7	704.05	42.67 79.25	65.53 85.34	22.86	1.315 1.084
IF18-082	111.25	0	-90	360 W	Phase 6	608.26	0.00 59.44 83.82 106.68	6.10 71.63 99.06 111.25	6.10 12.19 15.24 4.57	0.195 0.215 0.316 0.140
IF18-083	121.92	0	-90	420 W	Phase 6	650.75	79.25 106.68	99.06 111.25	19.81 4.57	1.139 0.230
IF18-084	152.40	0	-90	320 W	Phase 6	659.47	105.16 126.49	111.25 150.88	6.10	0.169 0.601
IF18-085	121.92	0	-90	340 W	Phase 6	606.46	7.62 60.96	10.67 68.58	3.05 7.62	0.291 0.256



			Drill F	Hole Details		M	lineralizat	ion Interv	al	
Drill Hole Number	Depth (m)	Azimuth (°)	Angle (°)	Section Line	Mine Phase	Bench Elevation	From (m)	To (m)	True Width (m)	Au (g/t)
							82.30	91.44	9.14	0.452
IF18-087	50.29	205	-60	340 W	Phase 6	637.48	22.86	36.58	13.72	0.178
IF18-088	111.25	0	-90	1100 W	Phase 7	698.83	50.29	94.49	44.20	1.441
IF18-089	85.34	0	-90	1180 W	Phase 7	704.29	45.72	53.34	7.62	1.228
H 10 007	03.31	Ü	70	1100 11	T Huse 7	701.25	77.72	82.30	4.57	0.148
IF18-090	85.34	205	-75	1100 W	Phase 7	704.32	6.10	10.67	4.57	0.438
							67.06	71.63	4.57	0.217
							9.14	13.72	4.57	0.732
IE10 001	150.00	0	00	620 W	D1	450.01	24.38	28.96	4.57	0.192
IF18-091	150.88	0	-90	620 W	Phase 5	459.81	33.53 108.20	102.11 128.02	68.58	0.713
							140.21	143.26	19.81 3.05	0.393
							0.00	10.67	10.67	0.263
IF18-092	96.01	205	-55	1050 W	Phase 7	632.49	59.44	65.53	6.10	1.010
IF18-093	99.06	205	-55	1030 W	Phase 7	631.90	12.19	16.76	4.57	0.613
11 10-073	77.00	203	-33	1030 **	1 Hase 7	031.70	42.67	62.48	19.81	0.013
							114.30	120.40	6.10	0.255
IF18-094	201.17	0	-90	380 W	Phase 6	604.90	141.73	163.07	21.34	0.515
							192.02	201.17	9.14	1.015
	-04.4-			400 ***			129.54	149.35	19.81	0.486
IF18-095	201.17	0	-90	400 W	Phase 6	602.57	164.59	199.64	35.05	0.494
							41.15	51.82	10.67	0.741
							64.01	70.10	6.10	0.645
							96.01	99.06	3.05	0.355
IF18-096	201.17	0	-90	360 W	Phase 6	608.49	105.16	114.30	9.14	0.440
							132.59	140.21	7.62	0.511
							163.07	181.36	18.29	0.582
							187.45	195.07	7.62	0.462
							44.20	50.29	6.10	0.731
							92.96	99.06	6.10	0.283
IF18-097	201.17	205	-80	440 W	Phase 6	602.66	123.44	128.02	4.57	0.157
							131.06	158.50	27.43	0.453
							163.07 193.55	172.21 199.64	9.14	0.667
							13.72	199.04	6.10	0.000
IF18-098	70.10	0	-90	260 W	Phase 6	632.45	33.53	36.58	3.05	0.175
11.10-090	70.10	U	-90	200 W	1 masc o	032.43	39.62	44.20	4.57	0.493
							0.00	18.29	18.29	1.018
							27.43	36.58	9.14	0.432
IF18-099	120.40	0	-90	280 W	Phase 6	616.05	88.39	91.44	3.05	0.375
							108.20	120.40	12.19	0.376
							7.62	13.72	6.10	10.06
IE10 100	150.00	20.7	60	200 111	DI C	661.01	41.15	44.20	3.05	0.720
IF18-100	150.88	205	-60	300 W	Phase 6	661.81	88.39	111.25	22.86	0.249
							132.59	147.83	15.24	0.374
							13.72	16.76	3.05	0.145
IF18-101	51.82	0	-90	280 W	Phase 6	661.99	24.38	27.43	3.05	0.340
							41.15	44.20	3.05	0.325



			Drill H	Hole Details			M	lineralizat	ion Interv	al
Drill Hole Number	Depth (m)	Azimuth (°)	Angle (°)	Section Line	Mine Phase	Bench Elevation	From (m)	To (m)	True Width (m)	Au (g/t)
							28.96	32.00	3.05	1.578
							41.15	44.20	3.05	0.088
IF18-102	82.30	0	-90	300 W	Phase 6	662.46	47.24	53.34	6.10	0.500
							56.39	60.96	4.57	0.470
							67.06	70.10	3.05	0.285
							12.19	16.76	4.57	0.550
							21.34	24.38	3.05	0.185
IF18-103	70.10	0	-90	240 W	Phase 6	633.09	28.96	36.58	7.62	0.593
11/10-103	70.10		-90	240 W	Phase o	033.09	45.72	48.77	3.05	0.645
							53.34	57.91	4.57	0.870
							62.48	68.58	6.10	0.240
							0.00	3.05	3.05	0.140
IF18-104	70.10	0	-90	260 W	Phase 6	631.36	22.86	25.91	3.05	0.173
							48.77	51.82	3.05	0.308
IF18-105	70.10	205	-60	300 W	Phase 6	632.18	22.86	25.91	3.05	0.542
11.10-103	70.10	203	-00	300 11	r nase 0	032.10	41.15	44.20	3.05	0.249

Table supplied by Magna Gold Corp. March, 2020.

10.9 MICON COMMENTS

During all previous site visits (2005 to 2017), Micon has reviewed and discussed the drilling programs with Alio personnel and believes that the programs have followed the best practices guidelines as outlined by the CIM for exploration. On numerous site visits during which drilling was being conducted, Micon has not observed any drilling sampling or recovery factors that could have materially impacted the accuracy and reliability of the drilling results obtained by Alio. Micon's field observations of the drilling programs since 2005 all indicated that Alio conducted its drilling programs with industry best practices in mind.



11.0 SAMPLE PREPARATION, ANALYSES AND SECURITY

The information for this Section was extracted from the May 25, 2017, Technical Report with updated information to cover the period since that report was published.

Although Magna personnel are familiar with the San Francisco Mine and its mineral deposits, Magna has not yet conducted any sampling program at the San Francisco Project or on the property.

11.1 ALIO SAMPLE PREPARATION, ANALYSIS AND SECURITY PROGRAMS

Alio, through its Mexican subsidiary, conducted its initial exploration drilling program on the Project in August and September, 2005, and instituted sampling procedures which have been discussed in the 2005, 2007, 2008, 2010, 2011, 2013 and 2016 Technical Reports that were filed on SEDAR. Only minor in-fill drilling has been conducted since the previous February, 2016, Technical Report was issued and this Section reproduces the sample preparation, analyses and security discussion contained in that report.

During the January, 2014 to December, 2015, drilling programs, Alio continued to use the sampling procedures, analyses and security protocols instituted for the previous reverse circulation and diamond drilling campaigns. Micon reviewed and extensively discussed the sampling procedures during the July, 2013 site visit and is satisfied that these procedures are accurately carried out and are in accordance with the best practices currently in use by the mining industry, and that they are well documented. Micon also discussed the procedures during the February, 2016 site visit. Micon concludes that the results produced by the procedures are sufficiently reliable to form the basis for a mineral resource estimate.

Alio's January, 2014 to December, 2015 exploration drilling programs consisted of RAB, RC and core drilling. All drill holes were field logged and sampled as the holes were in progress. During the drilling, and each day that the drilling was completed, the information contained on the hand-written drilling logs (field logs) was transcribed into an Excel® spreadsheet. The Excel® spreadsheet contains the basic drill hole data, individual sample data and assay results, as well as the codes for the lithology, alteration and mineralization. This information was converted to an ASCII file to import it into the database which supports the resource estimates. Geological and mineralization interpretation was conducted based on cross-sections which were produced using an AutoCAD® software package.

The drilling completed in this period was based on an analysis of the results of the exploration programs of previous years, and followed up on previous targets or generally attempted to define the potential for secondary deposits north of the San Francisco pit.

11.2 REVERSE CIRCULATION DRILLING

From the RC drilling, a portion of the material generated for each sample interval was retained in a plastic specimen tray created specifically for the reverse circulation program. The samples



in specimen trays constitute the primary reference for the hole in much the same way as the core does for diamond drilling. The specimen tray was marked with the drill hole number and each compartment within the tray was marked with both the interval and number for the respective sequential sample it contained. Empty compartments were left for the locations where the blank and standard samples were inserted into the sequential sample stream and two compartments were identified for duplicate samples. Figure 11.1 shows some of the specimen trays for drill hole TF-1566.



Figure 11.1 Specimen Trays for Drill Hole TF-1566

Due to the nature of RC drilling, only rock chip fragments are produced, and these range from a very fine grained powder up to coarse chips 2 cm in size. Since the stratigraphic contact between the different rock units cannot be identified exactly, the holes were sampled on equal 1.5 m (5 ft) intervals from the collar to the toe of the hole. The sample interval was chosen because it represented two samples per drill rod (3 m or 10 ft). In general, this is considered to be the standard sampling length within the industry.

Samples were taken in the overlying alluvium as well as within the underlying rock units. The alluvium samples were subject to random assaying, whereas every sample originating from the underlying rock units was assayed. The recovery of the material during the drilling program was excellent, on the order of 90% to 95%, in both near surface sulphide-oxide and lower sulphide zones.



A common feature in the sampling process for RC drilling is that a unique sample tag is inserted into the sample bag with each sample, and each sample bag is marked with its individual sample number. The bags containing the blank and standard samples are added into the sequential numbering system prior to shipment of the samples to the preparation facility. Sample preparation and assaying were performed at the San Francisco Mine. Approximately 15% of the samples assayed in the laboratory at the San Francisco Mine were checked at an external laboratory. The principal external laboratory has been the IPL-Inspectorate laboratory in Vancouver, B.C.

Samples identified as field duplicate samples during the RC drilling were split into two separate sequentially numbered samples during the sampling process at the drill.

11.3 CORE DRILLING

For core drilling, control starts after a run has been completed and the rods are pulled out of the hole. Once the core is removed, it is placed in core boxes. This step in the procedure is completed by the contractor's personnel, under the supervision of an Alio geologist. Alio and the drill contractors follow generally accepted industry procedures for core placement in the core boxes.

Small wooden tags mark the distance drilled in metres at the end of each run, the depth from and to, and the length drilled and length recovered. The drill rods used by the contractors involved in the core drilling are measured in Imperial units, while the tags placed in the boxes are measured in metric units. The hole number and progressive box number are marked on each filled box by the drill helper and checked by the geologist. Once the core box is filled at the drill site, the box is covered with a lid to protect the core and the box is sent to the core logging facility for further processing.

For diamond drilling where core is produced, the exact stratigraphic contact between the various different rock units can be identified and these contacts are used as the primary basis for separation of the sample intervals. The maximum sample length within the stratigraphic unit was restricted to approximately 1.0 m or 2.0 m, with no minimum restriction. The maximum sample lengths are in accordance with accepted industry practice. In addition to the stratigraphic restrictions that limit the length of the core interval, the size of the sample may be restricted because of the content or type of mineralization encountered within the drill hole. In general, core recovery for the diamond drill holes at the San Francisco Project was better than 98% and no core loss due to poor drilling methods or procedures was experienced.

A unique sample tag is inserted into the sample bag with each sample and each sample bag is marked with its individual sample number. The bags containing the blank and standard samples are added into the sequential sample numbering system prior to be being shipped to the assay preparation facilities of Inspectorate or ALS-Chemex. Both of these preparation facilities are located in Hermosillo, although ALS-Chemex has sent samples to its facilities in Chihuahua and Zacatecas for preparation, if there is a large backlog of samples waiting to be prepared.



During the sampling process, some samples are identified as field duplicates and these are also inserted into the sample stream.

11.4 SAMPLE COLLECTION AND TRANSPORTATION

11.4.1 Reverse Circulation Drilling

The RC drill sampling was conducted by a team of two or three geological assistants, under the close supervision of the Alio staff geologists in charge of the on-site program. The staff geologists were responsible for the integrity of the samples from the time they were taken until they were delivered to the preparation facilities at the San Francisco Mine. Figure 11.2 shows collection of a RC sample during the July, 2011 Micon site visit.



Figure 11.2
Reverse Circulation Sample Collection

The RC cuttings collected at the drill site were discharged from the drill hole through a hose, into a cyclone where they were collected in a plastic pail. Sampling of the material generated during the RC drilling was conducted at the drill rig using a stainless steel riffle splitter if the material was dry and a rotary splitter situated below the cyclone if the material was wet. The cyclone and splitters were cleaned between samples and, in the case of wet samples, the cyclone and splitters were blown out using compressed air and also washed out between each sample using clean water. Using a 12.5 cm drill bit diameter and a sample length of 1.52 m, it



is estimated that the original sample weighed 48.3 kg, prior to making allowance for recovery. It is estimated that the average recovery was between 90% and 95%, which would indicate that the mass of the recovered sample varied between 42 and 45 kg.

The method of splitting the samples derived from the RC drilling was as follows:

- 1. If the sample was dry, the entire sample interval was collected in a bucket and then passed through the riffle splitter where a subsample of 21 to 23 kg was collected. The remaining 21 to 23 kg was rejected. The 21 to 23 kg subsample was subjected to a second split to obtain two samples of 10 to 12 kg (an original and a witness sample). The geologist or an assistant (under supervision) had previously marked the drill hole number and sample number on the plastic sample bags and inserted the sample tag into the sample bag for the original sample. Both bags were closed and sealed at the drill with plastic tie wraps and transported to the camp facilities.
- 2. If the sample was wet, it was discharged to a cyclone and then passed through a rotary cone splitter to divide the sample into two equal portions, one of which was automatically rejected. The other portion was collected and simultaneously split into two equal halves by means of a mechanism designed for this purpose and installed in the lower portion of the rotary splitter. The two samples were collected in fabrine (micropore) sample bags to allow retention of the solids and the slow dissipation of the drilling water through the pores in the bags, without sample loss. In all cases, a flocculent was used to settle the solids, including the fine portion, prior to tying the fabrine bag. The outside of each sample bag was marked with the sample's individual number which corresponded to the number on the sample tag which was inserted into the bag containing the original sample.

All samples from the RC drilling were prepared at the drill site by the Alio staff geologists and their assistants. Each time that a hole was completed, a truck was dispatched from the drill site to the preparation facilities of the Alio assay laboratory, which currently supports the mining and processing operations of the San Francisco Mine and the exploration in the area surrounding the pit.

For check assays and their preparation, a truck was periodically dispatched to deliver samples to the Hermosillo assay preparation facility of IPL Laboratories and, from January, 2010, to IPL-Inspectorate. Sample bags containing the blank and standard samples were added into the sequential numbering system prior to shipment of samples to the preparation facilities, both at the San Francisco Mine and in Hermosillo. Samples selected as duplicates were split into two separate sequentially numbered samples during the sampling process at the drill.

11.4.2 RAB Drilling

The procedures used for the RAB drilling are the same as those used for the RC drilling, with the exception of the length of the sample. In the case of the RAB drilling, the sample length is 2.032 m rather than 1.52 m used for RC drilling. This generates a larger sample weight per sample but does not impact the quality of the sample.



11.4.3 Core Drilling

Geologic descriptions of the core samples, including nature of the sample, length of sample, lithology, alteration and mineralization, were captured on drill log forms. Samples were sealed in cloth bags with drawstring closures with the sample identification tags placed with each sample in the bag. A matching tag was retained in a sample book. Samples are stored on site in a locked warehouse at the exploration camp.

A truck goes to each drill site to collect the core boxes at regular intervals during the day. The boxes are loaded into the truck and placed in a criss-cross pattern and then secured to the truck by ropes to prevent movement on the short drive back to the on-site core logging facilities.

Once the core boxes arrive at the logging facility, they are laid out in order, the lids are removed and the core is washed to remove any grease and dirt which may have entered the boxes. The depth markers are checked by the geologist and the depth "from" and "to" for each box is noted on both the top and the bottom covers of each core box.

The geologist logging the core begins by examining the core to ensure it is intact. During the core logging process, the geologist defines the sample contacts and designates the axis along which to cut the core. Special attention is paid to the mineralized zones to ensure that the sample splits are representative. The sample limits are marked on the core, as well as on the side of the core box, and the sample numbers are marked on the core box next to the sample limits. Afterwards, the sample limits are input into an Excel spreadsheet, which records the sample number and intervals.

Once the core has been logged and the samples marked, the core boxes are brought to the area where an electric diamond saw is set up to cut the samples. At the sampling area, two core splitters and their helpers process the samples by using the diamond saw to cut the core in half. Once the core is sawn in half, one half of the core is placed into a plastic sample bag and the other half is returned to the core box. The geologist or an assistant has previously marked the sample bags with the sample number and inserted the individual numbered sample tag into the plastic bag. A geologist supervises the core sawing to ensure that the quality of the sampling remains high and that no mistakes are introduced into the system due to sloppy practices. The boxes containing the remaining half core are stacked, with lower numbers at the bottom and the higher numbers at the top, and stored on site in a secure core storage facility.

11.4.4 General Quality Control/Quality Assurance (QA/QC) Procedures

As part of Alio's QA/QC procedures, a set of samples comprised of a blank sample, a standard reference sample and a field duplicate sample are inserted randomly into the sample sequence. The insertion rate for the blanks, standards and duplicate samples is approximately one each in every 25 samples.



11.4.4.1 Blank Samples

Since 2005, the blank samples used for the San Francisco drilling program have been obtained from three sources.

During the second semester of 2011, blank samples were used that had been prepared from a tonalite dike that outcrops on the southwestern extension of the San Francisco pit. The rock unit is younger than both the host rock of the gold mineralization and the mineralizing events in the region, at least as far as is known. A geologist working with Alio, and previously for both Geomague and Fresnillo, considered the material in the dike to be barren and this was verified during the 2005 to 2010 drill programs. However, during the 2011 to 2013 program, anomalous gold values, including economic values, started to appear in this material and a detailed mapping program resulted in the discovery of xenoliths of mineralized rock within the dike. As a result, Alio made the immediate decision to use material from another source, which was selected based upon a regional geological reconnaissance. The regional reconnaissance resulted in the identification of a basalt-andesite occurrence in several areas within a 40 km perimeter around the San Francisco Mine. Due to the accessibility of the Norma Project area to the northwest of the mine, a series of outcrops were chosen at the southern end of the Norma concession, from which several samples were taken and assayed by the San Francisco Mine laboratory. The results of the assaying revealed gold values either below the detection limits or no gold.

While Alio was waiting for a new blank sample to be generated from its own material, it used blanks purchased from Proveedora de Laboratorios, SA de CV, based in Hermosillo. Alio purchased two types of blanks, a fine and coarse grain blank, with the first one used to check the assaying of the primary laboratory and the second to check the sample preparation in the Alio on-site facilities.

The procedure used to prepare the bags of blanks from the basalt-andesite was the same that the used by Alio for the tonalite. Alio collected 1 tonne lots of the material which were transported to the San Francisco Mine, where the material was crushed to -1/8", followed by homogenization, and then split into 1 kilogram lots. During the drilling campaign, gold values were detected in a specific lot of blank samples. Alio then obtained the sample rejects from the Inspectorate laboratory and re-analyzed them in the San Francisco laboratory which confirmed the gold values, but noted that the material in the rejects was different from that in the blanks. From the position of the samples in the sampling sequence, and their position with respect to the gold values hosted in the metamorphic sequence cross-cut by the drilling, it was concluded that a mistake had been made in the numbering of the samples. The rest of the blank material was promptly rejected and a new 2-t sample was obtained and sent for preparation to the Sonora preparation laboratory, with Alio specifying the requirements for the preparation.

Figure 11.3 and Figure 11.4 show fragments of rock used for the blank samples and the bags once they had been prepared for insertion in the sampling sequence.



Figure 11.3 Fragment of Basalt used for Blank Sample



Figure provided by Alio Gold Inc.

Figure 11.4
Blank Sample Bag ready to be Inserted into the Sample Sequence



Figure provided by Alio Gold Inc.



11.4.4.2 Standard Reference Materials

Certified standard reference materials (SRM's) were submitted with each sample shipment during the course of the drill programs. A total of 27 standard reference samples have been used since 2005, and these are summarized in the Table 11.1. Standard pulps, consisting of 70 to 100 g of material, were randomly inserted into each batch of 25 samples. The 27 standards include low, medium and high gold grades, in relation to the average grade of the known deposits in the area.

Table 11.1
Standard Reference Material Samples used During the Drilling Programs

Standard	Accepted G	old Value	Lower Gold	Upper Gold	Source	Material
Standard	g/t	+/-	Limit (g/t)	Limit (g/t)	Source	Material
OXC-88	0.203	0.003	0.183	0.223	RockLabs	Basalt and feldspar with gold
OXC-102	0.207	0.002	0.192	0.222	RockLabs	Basalt and feldspar with gold
OXC-109	0.201	0.020	0.191	0.211	RockLabs	Basalt and feldspar with gold
OXD-87	0.417	0.004	0.391	0.443	RockLabs	Basalt and feldspar with gold
OXD-108	0.414	0.003	0.380	0.448	RockLabs	Basalt and feldspar with gold
OXE-86	0.613	0.007	0.571	0.655	RockLabs	Basalt and feldspar with gold
OXE-101	0.607	0.005	0.566	0.648	RockLabs	Basalt and feldspar with gold
OXE-106	0.606	0.004	0.576	0.636	RockLabs	Basalt and feldspar with gold
OXF-85	0.805	0.008	0.755	0.855	RockLabs	Feldspars and iron pyrite
OXF-100	0.804	0.006	0.764	0.844	RockLabs	Feldspars and iron pyrite
OXF-105	0.800	0.005	0.743	0.857	RockLabs	Feldspars and iron pyrite
OXG-83	1.002	0.009	0.948	1.056	RockLabs	Basalt and feldspar with gold
OXG-84	0.920	0.010	0.850	0.994	RockLabs	Basalt and feldspar with gold
OXG-99	0.932	0.006	0.860	1.004	RockLabs	Basalt and feldspar with gold
OXH-66	1.285	0.012	1.221	1.349	RockLabs	Basalt and feldspar with gold
OXH-82	1.278	0.010	1.224	1.332	RockLabs	Basalt and feldspar with gold
OXI-81	1.807	0.011	1.692	1.922	RockLabs	Basalt and feldspar with gold
OXH-97	1.278	0.009	1.214	1.342	RockLabs	Basalt and feldspar with gold
OXJ-95	2.337	0.018	2.220	2.454	RockLabs	Basalt and feldspar with gold
GS-2K	1.970	0,180	1.862	2.078	CDN Labs	Blank granitic ore and high gold ore
GS-2L	2.340	0.240	2.163	2.517	CDN Labs	Blank granitic ore and high gold ore
GS-P2A	0.229	0.030	0.198	0.260	CDN Labs	Ore of the Carlin style mineralization
GS-P3B	0.409	0.042	0.378	0.440	CDN Labs	Blank granitic ore and high gold ore
GS-P3C	0.263	0.020	0.237	0.289	CDN Labs	Blank granitic ore and high gold ore
GS-P7E	0.766	0.086	0.728	0.804	CDN Labs	Blank granitic ore and high gold ore
PGMS-18	0.5170	0.060	0.435	0.599	CDN Labs	Mix material from two ore deposits in the US
ME-15	1.386	0.102	1.284	1.488	CDN Labs	Ore from Minera San Javier, Mexico

Table provided by Alio Gold Inc.

11.4.4.3 Duplicate Samples

For the RC drilling, the samples which were identified for duplication (field duplicates) were processed and split in the same way as the regular samples taken on either side of them. In the case of dry samples, the final 21 to 23 kg sample was subjected to a further split in the field, yielding two 10.5 to 11.5 kg samples. Wet samples were dried and then passed through the riffle splitter to obtain a second (duplicate) sample of approximately the same mass as the original. The duplicate samples were given sequential numbers and submitted as two separate samples for the purpose of assaying.



11.4.5 Preparation Laboratories

11.4.5.1 San Francisco Mine Preparation Facilities

For the 2010 to 2011 exploration drilling program, only a small number of samples were prepared and assayed by the San Francisco Mine laboratory. In August, 2010, Alio decided to send all of the samples from the exploration program for preparation at an external laboratory. Alio did consider building a laboratory at the mine site to analyze the exploration assays, but the costs related to the laboratory, in order to meet the strictest QA/QC requirements, were prohibitive and it was decided to build only the preparation facilities, which were completed and ready to begin operations in November, 2012. This facility at the mine was only capable of preparing up to 350 to 400 pulps per day which, considering the quantity of samples generated by the exploration drilling, meant that a large proportion of the samples were sent to external laboratories for both preparation and assaying. Alio conducted an expansion of the preparation facility, so that it is able to prepare at least 700 samples per day of RC or core drilling.

The equipment in the preparation facilities includes:

- Two ovens for drying samples (Grieve TBH550E2 model).
- Two TBH-550 oven trucks.
- Sixteen nickel plated carbon steel shelves.
- One hundred SS rectangular sample pans (Model SC-50).
- Two Combo Boyd/RSD Boyd crushers with single split.
- Two VP-1989 ring and puck pulverizer, Bico 3 phase motor.

The procedure used at the San Francisco Mine for the preparation of samples to be assayed for gold is as follows:

- 1. The samples received are inspected by the laboratory supervisor or an assigned deputy, to ensure that each is identified and that the original packing is not damaged. All of the samples are placed in the designated reception area.
- 2. On the registration form, the user must enter the date and time, the work order number assigned by the laboratory, and record the origin of the sample, elements to be analyzed, requested assay method, sample type (rock fragments, soil, etc.) and priority of the sample. The registration form is filled out in duplicate.
- 3. Once reviewed, the form is then registered with the name and signature of the persons who submitted and received the samples.
- 4. All exploration and mine samples are weighed individually, with the weight recorded in the designated notebooks. The samples are then delivered to the sample preparation staff.



- 5. All samples received are dried in trays that are of an adequate size to ensure that they remain free of any contaminating material.
- 6. Using a permanent marker, each sample is labelled according to its original identification number. Each sample is poured into a corresponding tray, ensuring that 100% of the sample is contained within the tray, to avoid cross-contamination of samples. Inside each tray is an identification card that matches the original identification label.
- 7. Each tray containing a sample is placed in the oven.
- 8. Samples with a low moisture content are checked after 60 minutes to see if they have dried. Samples with high moisture content are checked after 3, 6, or 8 hours, at the discretion of the supervisor. Once the samples are completely dry, they are removed from the oven and placed on trolleys for transport.
- 9. The initial crushing is done in a jaw crusher, after it has been cleaned with compressed air. A first pass is conducted to reduce the size of the material to 85% passing a ¼ inch mesh. The material is then transferred to another tray that has already been labelled with the original sample number. Once the crushing is completed, the crusher and trays used in the process are cleaned using compressed air, and then the crusher is cleaned using fragments of monzonite dike. This material is monitored by the laboratory periodically to ensure that it is unmineralized.
- 10. A second crushing pass is performed using a roll crusher, in order to obtain a product of minus 10 mesh (2 mm).
- 11. The minus 10 mesh product is homogenized by rolling on a rectangular blanket, canvas or plastic liner. Once the sample homogenized, it is placed back into the tray to be split in a Jones riffle splitter.
- 12. Prior to splitting the sample, the splitter is checked to ensure that it is free of particles that could contaminate the sample. Compressed air is used where necessary to clean the splitter. The sample is then split, with one half being returned to the original sample bag and the other portion being split again.
- 13. The sample continues to be split between 3 to 8 times, until a sample of approximately 250 grams is obtained. This sample is then sent to the pulverizer.
- 14. Pulverizing is conducted such that 90% of the material is minus 150 mesh. The samples arrive at the pulverizing process in laminated Kraft envelopes, with each one identified according to the sample number and the work order. Once each sample has been pulverized, it is delivered to an external laboratory for assaying.

Equipment in the sample preparation facilities at the San Francisco Mine is shown in Figure 11.5 and Figure 11.6.



Figure 11.5
Oven for Drying Samples in the Preparation Facilities



Figure provided by Alio Gold Inc.

Figure 11.6 Combo Boyd/RSD Boyd Crusher with Single Split



Figure provided by Alio Gold Inc.

11.4.5.2 Sample Preparation and Analytical Protocols for Services Provided to Alio by Inspectorate

Samples from the San Francisco Mine are picked up periodically by Inspectorate de Mexico, SA de CV. (Inspectorate), a subsidiary of Inspectorate America Corp. (also, Inspectorate).



These sample pickup trips are performed by Inspectorate's wholly owned trucks, driven by full time Inspectorate employees. Samples are picked up at the San Francisco Mine.

Alio delivers the samples to Inspectorate personnel in rice sacks marked with the numbers corresponding to the samples in each sack. The samples inside the rice sack are contained in plastic bags marked with the sample number and including a numbered sample tag.

Alio provides proper documentation to Inspectorate's personnel regarding the samples being picked up, including a list of the samples delivered, the type of samples, the type of analysis requested and the elements for which assays are to be reported.

Sample Preparation Process for Reverse Circulation Samples

Samples are driven to Inspectorate's sample preparation facilities in Hermosillo, Sonora, where they are subjected to the sample preparation process prior to shipment of a representative subsample to the analytical laboratories located in Richmond, B.C., Canada or Sparks, Nevada, USA.

Sample Sorting and Entering Data into the Laboratory Information Management System (LIMS)

Once the samples are received at Inspectorate's sample preparation facilities, they are sorted in alpha-numerical or numerical order in the sample layout area. A registration form is completed providing details of the samples received.

When all the samples have been sorted and no extra, missing or duplicate samples are found, the sample registration is accepted by the supervisor and is taken to the administration office where the sample data are entered into the Laboratory Information Management System (LIMS).

Sample Drying

Once the samples have been registered, each sample is taken out of its plastic bag and placed in a stainless steel drying pan which is then positioned in the wheeled drying racks. The drying racks are placed inside a high capacity drying oven where the samples are fully dried at 100°C. The samples are never dried for more than 5 to 6 hours.

Sample Crushing and Splitting

Once the samples are fully dried, the wheeled racks are taken to the crushing area where the entire sample is crushed by a TM Engineering Terminator Jaw Crusher to 70% minus 10 mesh (2 mm).



A quality control check test is performed to ensure that the crushed sample meets the specified size criteria. The test is performed on the first sample crushed at the beginning of a shift and then once every 40 samples thereafter.

Once a sample has been crushed, it is split using a Jones riffle splitter until a 250 g representative sub-sample is obtained.

Sample Pulverizing

The entire 250 sub-sample is pulverized by using a Bico VP-1989 VP Pulverizer or LM2 Labtechnics Pulverizer, to 85% passing minus 200 mesh (75 microns).

A quality control check test is performed to ensure that the pulverized samples meet the specified size criteria. This test is performed at the same frequency as the crushed sample sizing test.

The pulverized material is split to obtain a 100 g representative sample, which is sent to Inspectorate's analytical laboratory in Richmond, B.C. or Sparks, Nevada, where it is analyzed. The other 150 g split is saved in the warehouse for future checks or returned to the San Francisco Mine.

Samples from the San Francisco Project are assayed for gold by fire assay, with atomic absorption finish, on a one assay-tonne sample. The lower and upper detection limits for this method are 5 and 10,000 ppb.

Inspectorate's Metals and Minerals Inspection and Laboratory Testing Services are certified by BSI Inc. (BSI) annually, in compliance with the ISO 9001:2008 Guidelines for Quality Management.

Inspectorate's internal QA/QC program is considered to meet normal industry standards for analytical laboratories.

11.4.5.3 Sample Preparation and Analytical Protocols for Services Provided to Alio by ALS

The following is taken and abbreviated from notes provided to Alio by ALS.

Logging Procedures

All samples received at ALS Chemex are furnished with a bar code label attached to the original sample bag. The system will also accept client supplied bar coded labels that are attached to sampling bags in the field. The label is scanned and the weight of the sample is recorded together with additional information such as date, time, equipment used and operator name. The scanning procedure is used for each subsequent activity involving the sample from preparation to analysis, through to storage or disposal of the pulp or reject.



ALS logging (tracking) procedures are summarized in Table 11.2.

Table 11.2
ALS Method Code and Description for Alio Sample Preparation

Method Code	Description
LOG-21	Log sample in tracking system (Samples received with bar code labels attached).
LOG-22	Log sample in tracking system (Samples received without bar code labels attached).

Table provided by ALS to Alio Gold Inc.

Standard Sample Preparation: Dry, Crush, Split and Pulverize

The sample is logged in the tracking system, weighed, dried and finely crushed to better than 70% passing a 2 mm screen. A split of up to 250 g is taken and pulverized to better than 85% passing a 75 micron screen. ALS states that this method is appropriate for rock chip or core samples. Table 11.3 summarizes ALS methodology codes and descriptions for the preparation methods used for Alio samples.

Table 11.3
ALS Method Code and Description for Alio Sample Preparation

Method Code	Description
LOG-22	Sample is logged in tracking system and a bar code label is attached.
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.

Table provided by ALS to Alio Gold Inc.

Assay Methods

Au-AA23 & Au-AA24 Fire Assay Fusion, AAS Finish.

Sample Decomposition

Fire Assay Fusion (FA-FUS01 & FA-FUS02).

Analytical Method

Atomic Absorption Spectroscopy (AAS).

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 atomic absorption spectroscopy against matrix-matched standards.

Table 11.4 summarizes the ALS laboratory Au-AA23 and Au-AA24 Fire Assay Fusion, AAS Finish assay methods.

Table 11.4 Summary of the Au-AA23 and Au-AA24 Fire Assay Fusion, AAS Finish Assay Details

Method Code	Element	Symbol	Units	Sample Weight (g)	Lower Limit	Upper Limit	Default Overlimit Method
Au-AA23	Gold	Au	ppm	30	0.005	10.0	Au-GRA21
Au-AA24	Gold	Au	ppm	50	0.005	10.0	Au-GRA22

Table provided by ALS to Alio Gold Inc.

Ag-GRA21, Ag-GRA22, Au-GRA21 and Au GRA22 Precious Metals Gravimetric Analysis Methods.

Sample Decomposition

Fire Assay Fusion (FA FUSAG1, FA FUSAG2, FA FUSGV1 and FA-FUSGV2).

Analytical Method

Gravimetric

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents in order to produce a lead button. The lead button containing the precious metals is cupelled to remove the lead. The remaining gold and silver bead is parted in dilute nitric acid, annealed and weighed as gold. Silver, if requested, is then determined by the difference in weights.

Table 11.5 summarizes the ALS Ag-GRA21, Ag-GRA22, Au-GRA21 and Au GRA22 Precious Metals Gravimetric Analysis Methods.

Table 11.5 Summary of the ALS Ag-GRA21, Ag-GRA22, Au-GRA21 and Au GRA22 Precious Metals Gravimetric Analysis Methods

Method Code	Element	Symbol	Units	Sample Weight (g)	Detection Limit	Upper Limit
Ag-GRA21	Silver	Ag	ppm	30	5	10,000
Ag-GRA22	Silver	Ag	ppm	50	5	10,000
Au-GRA21	Gold	Au	ppm	30	0.05	1,000
Au-GRA22	Gold	Au	ppm	50	0.05	1,000

Table provided by ALS to Alio Gold Inc.



11.5 QA/QC PROGRAM RESULTS

11.5.1 July, 2010 to June, 2011 QA/QC Program Results

11.5.1.1 Check Sampling

A total of 416 sample pulps that were assayed at the Inspectorate facilities in Sparks or Richmond were sent to ALS-Chemex as a check against the assays obtained by Inspectorate. Samples for the check assaying program were selected randomly not only from the mineralized zones but also from the host rock on either side of the mineralized zone. All check samples selected had a grade above or equal to 0.10 ppm gold. This cut-off was established in order to approximate a true representation of the assays that are generating the resources in the block model and to avoid comparing assay results with a zero value or those with very low gold values.

In the first batch of check samples were 37 samples that had been assayed at the San Francisco Mine laboratory since, as of July, 2010, the mine laboratory was still assaying a number of exploration samples.

Table 11.6 indicates that the overall correlation factor between the ALS-Chemex results and the combined San Francisco Mine and Inspectorate laboratory assays is sufficient to demonstrate that the original assays conducted by the San Francisco Mine and Inspectorate laboratories can be relied upon.

Table 11.6 Comparison of the Original Assays with the ALS-Chemex Check Assays, 2010 to 2011 Drilling Program

Description	Results
Number of Samples	416
Overall Laboratories (San Francisco Mine + Inspectorate) Mean Grade	1.018
ALS-Chemex Mean Grade	1.041
Difference Between Means	-0.023
Mean Difference %	-2.20%
Correlation Factor	0.9484

Table provided by Alio Gold Inc.

11.5.1.2 Standard Reference Sampling

A total of 1,512 SRM samples were submitted to Inspectorate for assaying and comparison with the thirteen SRM values used by Alio. The results are summarized in the Table 11.7.



Table 11.7 Summary of Inspectorate Assaying versus the Standard Reference Material

STANDARD TYPE	OXA-71	OXC-72	OXC-88	OXD-87	OXE-86	OXE-74	OXF-65	OXF-85	OXG-83	OXH-82	OXH-66	OXK-69	TOTAL
Au grade ppm	0.085	0.205	0.203	0.417	0.613	0.615	0.805	0.805	1.002	1.278	1.285	3.583	
CONCEPT	CONCEPT STATISTICS PARAMETERS												
No of Samples	230	108	135	162	35	79	117	67	151	32	191	21	1328
Min	0.055	0.083	0.171	0.354	0.535	0.540	0.690	0.718	0.863	1.155	1.074	2.987	
Max	0.124	0.230	0.217	0.436	0.607	0.638	0.844	0.834	1.057	1.430	1.414	3.962	
Average Inspect	0.0848	0.2003	0.1933	0.3950	0.5787	0.5817	0.7649	0.7752	0.9539	1.246	1.2169	3.4959	
Standard Value	0.085	0.205	0.203	0.417	0.613	0.615	0.805	0.805	1.002	1.278	1.285	3.583	
Difference Absolute	-0.0002	-0.005	-0.0097	-0.0220	-0.034	-0.033	-0.040	-0.030	-0.032	-0.032	-0.068	-0.087	
Difference %	-0.256%	-2.353%	-5.012%	-5.581%	-5.935%	-5.725%	-5.24%	-3.841%	-3.355%	-2.60%	-5.592%	-2.493%	-3.866%
Mediana	0.08	0.20	0.19	0.396	0.58	0.58	0.7650	0.78	0.96	1.24	1.217	3.53	
Variance	0.000	0.0003	0.0001	0.0002	0.0003	0.0003	0.001	0.0005	0.0014	0.0043	0.003	0.053	
Standard Deviation	0.011	0.017	0.009	0.0134	0.019	0.018	0.029	0.022	0.037	0.065	0.050	0.231	

Table provided by Alio Gold Inc.

RockLabs recommends using the standard deviation as the basis for setting control limits and establishing the value of two standard deviations to determine the upper and lower limits of acceptable results. In general, the Inspectorate assays of the SRM samples fall within acceptable limits.

11.5.1.3 Blanks

Blank samples were inserted into the sample stream at an average of one for every 25 samples submitted to the laboratories used during the 2010 to 2011 exploration drill program. For the period from July, 2010 to June, 2011, a total of 1,956 blank samples were submitted for gold analysis, of which 189 were sent to the San Francisco Mine laboratory and the rest, (1,767) were sent to the Inspectorate laboratories in Canada and the USA. Table 11.8 summarizes the results obtained for both laboratories.

Table 11.8 San Francisco Gold Project, Summary of Blank Assay Data for the 2010 to 2011 Drill Program

Details	Laborato	ry		
Details	San Francisco Mine	Inspectorate		
Number of Samples	189	1,726		
Minimum Gold Value	0.025	0.005		
Maximum Gold Value	0.205	0.277		
Mean grade (g/t gold)	0.031	0.021		
Standard Deviation	0.0134	0.031		
Variance	0.00018	0.00094		
Samples Above 0.100 ppm gold	1	41		
Percentage	0.53%	2.38%		

Table provided by Alio Gold Inc.

A total of 42 out of the 1,956 blank samples (2.1%) returned gold values in excess of 0.1 ppm. These unexpectedly high assays prompted an investigation of the Alio and Inspectorate procedures to determine the cause. It was concluded that the samples were mislabelled, and that they were duplicate samples which contained the wrong sample tags. Alio then revised its



sample identification procedures to minimize the risk of mislabelling. Alio acknowledges the assistance of both Inspectorate personnel and its own exploration staff in identifying and rectifying this weakness in its procedures.

Overall, the results for the blank sample analyses obtained by both laboratories are considered satisfactory.

11.5.1.4 Duplicates

A total of 1,513 field duplicate samples were taken in order to verify and control the sampling procedures in the field and check the gold assays in the laboratory. Of these, 210 samples were sent to the mine laboratory and the remaining 1,303 samples were shipped to Inspectorate.

The duplicate samples were assigned consecutive numbers in the sample numbering sequence, so that the laboratory did not know it was receiving duplicates. These samples were submitted in the same shipment as their matching original samples but were not necessarily placed in the same furnace load as the original sample. The rate of the duplicate sampling was one duplicate for every 25 samples.

Table 11.9 summarizes the results of the comparison between the original and duplicate sample assays.

Table 11.9 Summary of Results for the Duplicate Samples, July, 2010 to June, 2011 Drill Program

		Labora	Entire Drilling Program				
Description	San Franci (g/t g		_	ctorate gold)	Entire Drilling Program (g/t gold)		
	Original	Duplicate	Original	Duplicate	Original	Duplicate	
Number of Pairs	210	210	1,303	1,303	1,513	1,513	
Avg. Grade (g/t gold)	0.16	0.17	0.090	0.088	0.100	0.102	
Maximum (g/t gold)	5.92	6.20	7.384	6,752	7.384	6.752	
Minimum (g/t gold)	0.03	0.03	0.005	0.005	0.005	0.005	
Difference Between Avg. Grades		0.01		-0.002		0.003	
Difference %	•	8.04%		-1.69%		2.59%	
Correlation Coefficient		0.9913		0.9321		0.9297	

Table provided by Alio Gold Inc.

It was observed that 87% of the samples included in the duplicate assaying program were below or close to 0.1 g/t gold, which means that differences in assays are generally magnified because of the low gold content of the samples.

11.5.1.5 General Comments Regarding the QA/QC Program

Alio subsequently stopped using its assay laboratory at the San Francisco Mine to analyze samples and used it only for sample preparation. However, there were still some mine laboratory assays in the QA/QC program. The San Francisco Mine laboratory continued to



participate in a round-robin assay process through CANMET, which is the Materials Technology Laboratory at Natural Resources Canada, a branch of the Canadian Government.

In terms of overall averages, the blank and duplicate assay results were satisfactory for both the San Francisco Mine and Inspectorate laboratories. The error in numbering between 42 blank samples and duplicate samples represents a breakdown in procedure which Alio has recognized and corrected. The differences in the duplicate program were generally magnified by being below or close to 0.1 g/t gold due to the low gold content.

In general, Micon found no significant issues with the Alio July, 2010 to June 2011 QA/QC program results and concluded that the assays obtained could be used in a resource estimate for the mine.

11.5.2 July, 2011 to June 2013 QA/QC Program Results

During the period between July, 2011 to June, 2013, over 327,000 m were drilled by core and reverse circulation, but primarily the latter. Throughout this period, the demand for services from assay laboratories remained strong and, due to the long turn-around periods for assay results, Alio used more than one external laboratory to meet its assaying requirements, which averaged more than 10,000 drill samples per month. The laboratories used for assaying were Inspectorate, ALS Minerals (ALS) and, occasionally, Skyline Assayers and Laboratories (Skyline). All of these laboratories are independent.

Skyline is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system

11.5.2.1 Check Sampling

A total of 852 sample pulps were selected for check assays, with Inspectorate and ALS being chosen as the primary laboratories. 357 of these sample pulps were assayed at the Inspectorate facilities and a further 495 sample pulps were assayed either by ALS, SGS or Inspectorate as check assays. Samples for the check assaying program were selected randomly, not only from the mineralized zones but also from the host rock on either side of the mineralized zone. All check samples selected had a grade of at least 0.10 ppm gold.

The 852 samples pulps were divided into three batches; two batches of sample pulps from the San Francisco pit drilling and a third batch from the La Chicharra and San Francisco drill programs. Table 11.10 summarizes the results of the check sample comparisons, for each of the three batches.



Table 11.10 Comparison of the Original Assays with the ALS-Chemex, Inspectorate and SGS Check Assays, 2011 to 2013 Drill Program

	San Franciso	co Mine	Both Pits	All Primary Lab
Details	ALS vs	ALS vs	Inspectorate	Assays vs All Check
	Inspectorate	SGS s	vs ALS	Assays one to one
Number of Samples	257	238	357	852
Mean Grade of ALS Minerals Assays	0.850	1.801	1.122	1.266
Mean Grade of the Inspectorate Assays	0.806		1.112	1.210
Mean Grade of the SGS Assays		1.778		0.016
Difference Between Means	0.044	0.023	-0.009	1.303%
Mean Difference	5.203%	1.294%	-0.833%	
Correlation Factor	0.9793	0.9534	0.9781	0.9881

Table provided by Alio Gold Inc.

Table 11.10 indicates that the overall correlation factors between the laboratories used by Alio for the San Francisco Mine and La Chicharra check samples are sufficient to demonstrate that the original assays conducted by the laboratories can be relied upon.

11.5.2.2 Standard Reference Material Samples

A total of 7,052 SRM samples were submitted to Inspectorate, ALS and Skyline for assaying and comparison with the 27 SRM samples used by Alio. Since there are assay results from three laboratories to be compared against SRM's, the numbers of SRM samples used of each standard and each assay supplier are summarized in Table 11.11.



Table 11.11 Summary of SRM's Used to Check Inspectorate, ALS and Skyline Assaying

No.	Standard	Each L	r of Sam ab for T	he San		r of Sam Lab for T	The La		Total Number Samples for the		
		Insp	ALS	Skyline	Insp	ALS	Skyline	Insp	ALS	Skyline	
1	OxH82	17			25			42			
2	OxH66	132			109	129		241	129		
3	OxG99	102	59		130	35		232	94		
4	OxF85	62			84	19		146	19		
5	OxE86	137			10	97		147	97		
6	OxD87	160		50	159	137	5	319	137	55	
7	OxC88	357			339			696			
8	OxJ95	128	189	35	126			254	189	35	
9	OxH97	142	343		114			256	343		
10	OxF105	126	193		6			132	193		
11	OxE101	120	75	58	343			463	75	58	
12	OxD108	133	198		6			139	198		
13	OxC102	133	130	54	285			418	130	54	
14	CDN-GS-P7E	15			60			75			
15	CDN-GS-2K	39			155			194			
16	OxG83	127			0	105		127	105		
17	OxI81	115			0	137		115	137		
18	OxG84				26			26			
19	OxF100		35	36	67			67	35	36	
20	CDN-PGMS-18				37			37			
21	CDN-ME-15			17	65			65		17	
22	CDN-GS-P3C				61			61			
23	CDN-GS-P3B				97			97			
24	CDN-GS-P2A				112			112			
25	CDN-GS-2L				71			71			
26	OxE106		192						192		
27	OxC109		192						192		
GRA	AN TOTAL	2,045	1,606	250	2,487	659	5	4,532	2,265	255	
										7,052	

Both RockLabs and CDN Laboratories suggest a maximum value of two standard deviations to determine the upper and lower limits of acceptable results. In general, the Inspectorate assays of the SRM samples fall within acceptable limits, although the trend in the Inspectorate assays is that they are below the certified values in most cases. In general, the gold values obtained by Inspectorate are underestimated within a range that varies from 0.256% to 5.935%, and averages 3.742%.

Overall, Micon considers that the results are of sufficient quality to indicate that the assaying conducted by the various laboratories can be used as the basis of a resource estimate.



11.5.2.3 Blanks

During the 2011 to 2013 drilling campaign, 10,578 blank samples were inserted into the sample stream, at an average rate of one blank for every 25 samples. Of these, ten blanks were assayed at the San Francisco Mine laboratory, with all returning assay of less than 0.03 g/t gold. The remaining 10,568 were distributed among Inspectorate, ALS and Skyline, yielding the results summarized in Table 11.12.

Table 11.12 San Francisco Gold Project, Summary of Blank Assay Data for the 2011 to 2013 Drill Program

Details		Laboratory					
Details	ALS	Inspectorate	Skyline				
Number of Samples	4,438	5,790	340				
Minimum Gold Value	0.005	0.005	0.005				
Maximum Gold Value	0.959	4.431	0.022				
Mean grade (g/t gold)	0.05	0.048	0.007				
Standard Deviation	0.1301	0.231	0.003				
Variance	0.0169	0.05348	0.00001				
Samples Above 0.100 g/t gold	83	119	0				
Percentage	1.87%	2.06%	0%				

Table provided by Alio Gold Inc.

A total of 62 out of a batch of 2,794 blank samples from the San Francisco Project, assayed by Inspectorate, returned gold values in excess of 0.1 ppm. These represent 2.2% of the total. The unexpected high assays prompted an investigation of the Alio and Inspectorate procedures, to determine the cause. It was concluded that all of the samples were from the rock material that was supposed to be barren, obtained from the vicinity of the Norma Project to the west-northwest of the San Francisco pit. Due to the anomalous gold results, the remaining samples of this material were rejected for use as blank samples.

Overall, the results for the blank sample analyses obtained by all laboratories are considered satisfactory.

11.5.2.4 Duplicates

A total of 1,513 field duplicate samples were taken, in order to verify and control the sampling procedures in the field and check the gold assays in the laboratories. The duplicate samples were assigned consecutive numbers in the sample numbering sequence, so that the laboratory did not know it was receiving duplicates. These samples were submitted in the same shipment as their matching original samples, but were not necessarily placed in the same furnace load as the original sample. The rate of the duplicate sampling was one duplicate for every 25 samples.

Table 11.13 summarizes the results of the comparison between the original and duplicate sample assays.



Table 11.13 Summary of Results for the Duplicate Samples, July, 2011 to June, 2013 Drill Program

		Laboratory									
Description	A	LS	Inspe	ctorate	Skyline						
	Original	Duplicate	Original	Duplicate	Original	Duplicate					
Number of pairs	2,473	2,473	4,032	4,032	291	291					
Average Grade (g/t)	0.188	0.194	0.076	0.079	0.049	0.048					
Maximum (g/t)	9.260	9.310	10.617	8.871	2.981	2.583					
Minimum (g/t)	0.005	0.005	0.005	0.005	0.004	0.004					
Difference between average grade (g/t)		-0.006		-0.002		0.001					
Difference %		-3.33		-2.81		1.76					
Correlation Coefficient		0.9463		0.9497		0.9834					

Table provided by Alio Gold Inc.

Table 11.13 indicates that the results of the duplicate assaying at the laboratories are satisfactory, with a correlation factor ranging from 0.9463 for ALS to 0.9834 for Skyline. However, it was observed that the majority of the samples included in the duplicate assaying program were of low grade and the differences in assays are generally magnified because of the low gold content of the samples.

11.5.2.5 General Comments Regarding the QA/QC Program

In terms of overall averages, the blank and duplicate assay results were satisfactory for all laboratories used by Alio. The error noted by Alio, where some of the blank samples were found to be mineralized, was corrected and Alio has obtained a different local material to be used as blank samples. Alio followed correct procedure in this regard.

Concerning the issue of the SRM samples potentially being underestimated, particularly by the Inspectorate laboratory, Micon acknowledges that lower grade samples will have any differences amplified, due to the low grade nature of the sample. Micon considers that, in general, the assaying of the SRM samples is of sufficient quality that the original assays can be used for a mineral resource estimation.

11.6 RESULTS OF THE JANUARY, 2014 TO DECEMBER, 2015 QA/QC PROGRAM

Between January, 2014 and December, 2015, in addition to its regular QA/QC programs, Alio added a program of conducting screen metallic samples as part of its assay checks to deal with free gold that it observed at the Vetatierra Project.

11.6.1 Screen Metallic Assaying

At the Vetatierra Project, part of the gold mineralization appears to be related to finely disseminated and coarse free gold on the quartz-tourmaline±pyrite. As a result, Alio believed it was necessary to conduct assays checks to identify any potential nugget effect in the assay data or if there was the possibility of losing gold during the drilling or RC/core sampling process. Figure 11.7 is a piece of core showing the location of visible gold found within it.



To better understand if there was coarse gold affecting the sample, 5 samples were analyzed. Five rejects samples from the RC drilling were analyzed as sample pairs for screen metallics at the Inspectorate laboratory and at the San Francisco Mine laboratory. An additional five field duplicate samples of the same interval, as rejects samples (25% of the total sample), were analyzed by screen metallics.

VT14-005
Visible coarse Gold

225.10 - 225.20

Figure 11.7
Drill Hole VT14-005 Showing a Location with Visible Gold in the Core

Photograph provided by Alio Gold Inc.

The assays results indicated that fine gold or clustering gold may occur at the Vetatierra Project, giving a variation in the assays results which were either positive or negative depending on whether or not free gold was present (Figure 11.8).

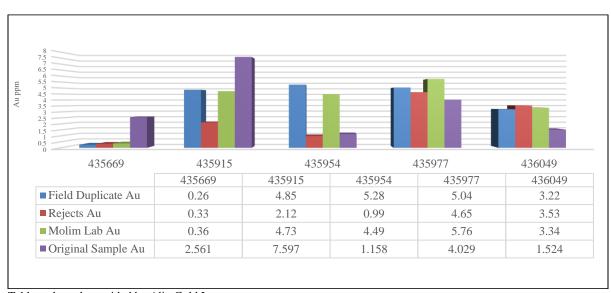


Figure 11.8 Summary and Graph Showing the Assays Results for the Five Samples

Table and graph provided by Alio Gold Inc.

Note that in the sample 435954 the assays results are higher in the original sample sent to the lab than the assay returned from screen metallics.



Five of the samples were analyzed as pairs at Inspectorate laboratory, one sample was taken from the rejects and the other one from field duplicate taken at the rig (both samples were from the same interval). Three of the samples produced results that were very similar to each other, but two of the samples had a strong variation in the gold results, suggesting that a nugget effect or loss of gold may be present. Table 11.14 shows the variation in the samples both in a tabular fashion and graphically

Table 11.14 Summary and Graph Showing the Gold Variation in the Five Pairs of Samples Rejects vs Field Duplicates

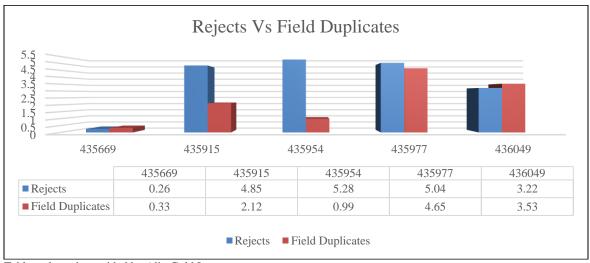


Table and graph provided by Alio Gold Inc.

Another 5 samples were analyzed to compare the gold assay results from the screen metallics and fire assays with the AA finish (original sample) and, once again, the results are very variable (either positive or negative) giving one the impression that a nugget effect due to very fine or clustering of gold may occur at the project (Figure 11.9).



Screen Metalics Vs Fire Assay (Original Sample) 7.565.554.535.25 1.5 43591 43604 43681 43566 43595 43597 43682 43692 43707 43676 5 4 7 9 7 0 2 4 ■ Screen Metalics 0.33 2.12 0.99 4.65 3.53 4.8 0.52 1.04 1.03 6.4 Fire Assay Sample 2.561 1.158 4.029 1.524 3.694 2.961 1.156 1.444 3.807 ■ Screen Metalics Fire Assay Sample

Figure 11.9
Summary and Graph Showing the Gold Variation in the Samples Screen Metallics vs Fire Assays

Table and graph provided by Alio Gold Inc.

11.7 RESULTS OF THE AUGUST, 2016 TO MARCH, 2017 QA/QC PROGRAM

During the period between August, 2016 to March, 2017, over 13,000 m were drilled by reverse circulation. Samples were primarily prepared at San Francisco Mine. Samples were sent to Bureau Veritas Laboratory (Inspectorate) at Hermosillo, Sonora, and smaller number of samples were sent to ALS Minerals for check assays. At Inspectorate, 50 g pulps were analyzed by fire assay with an atomic absorption finish (FA430) and samples assaying greater than 10 g/t Au, then re-assayed with gravimetric finish (FA-430). ALS Minerals methodology was similar, 50 g pulps were analyzed by fire assay with an atomic absorption finish (Au-AA24). Assays grading over 10 g/t Au were re-assayed by fire assay with a gravimetric finish (Au-GRAV22).

As part of Alio's QA/QC procedures, a set of samples comprised of a fine-blank sample, a standard reference sample and a field duplicate sample are inserted randomly into the sampling sequence. The insertion rate for the blanks, standards and duplicate samples is approximately one each in every 25 samples.

11.7.1 Standard Reference Material Samples

A total of 267 standard reference material samples were submitted to Bureau Veritas (Inspectorate) and ALS Minerals for assaying. Table 11.15 summarizes the number of each of the the standard reference material samples sent to the two laboratories. The repeatability of standard assays is illustrated in Figure 11.10 through Figure 11.18.



Table 11.15 Summary of Standard Material Reference Samples Used at Check Inspectorate and ALS Minerals

Number	Standard	Standard of Samples for Each Laboratory for the San Francisco Pit Inspectorate	Standard of Samples for Each Laboratory for the N & NW La Chicharra Pit's ALS Minerals		
1	CDN-GS-2M	34			
2	CDN-GS-P7H	47	2		
3	OXC-109	82	33		
4	OXE-101	1			
5	OXF-105	18			
6	OXH-97	13			
7	OXJ-95	15			
8	OXD-108		22		
Gra	and Total	210	57		

Figure 11.10
Precision Plot – Gold in Reference Standard CDN-GS-2M for the San Francisco Pit In-Fill Drilling

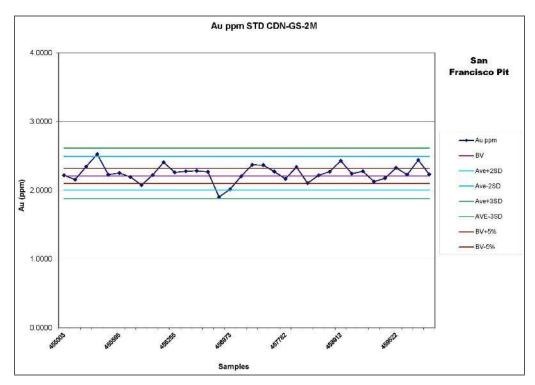




Figure 11.11
Precision Plot – Gold in Reference Standard OXH-97 for the San Francisco Pit In-Fill Drilling.

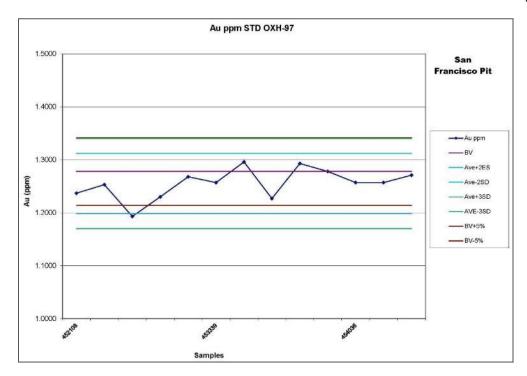


Figure 11.12
Precision Plot – Gold in Reference Standard CDN-GS-P7H for the San Francisco Pit In-Fill Drilling

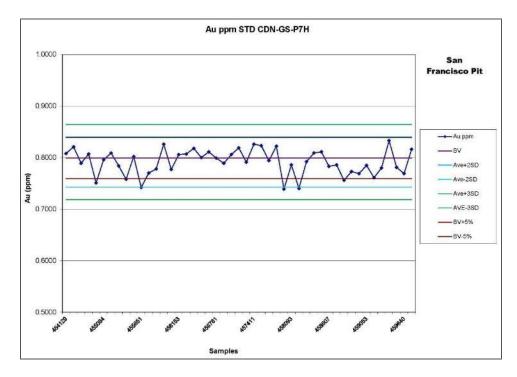




Figure 11.13
Precision Plot – Gold in Reference Standard OXC-109 for the San Francisco Pit In-Fill Drilling

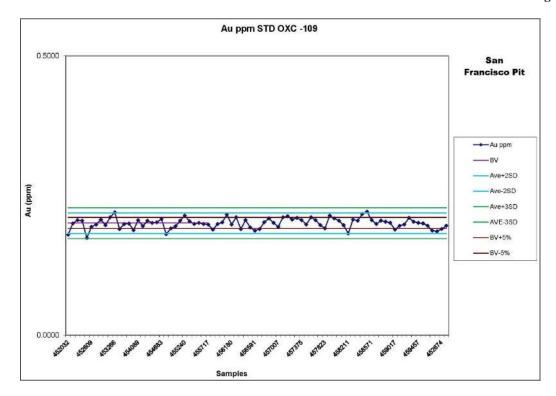


Figure 11.14
Precision Plot – Gold in Reference Standard OXE-101 for the San Francisco Pit In-Fill Drilling

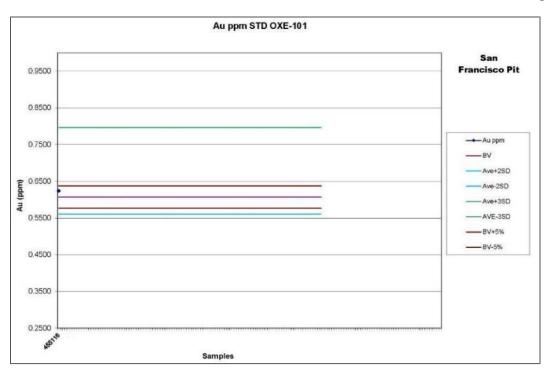




Figure 11.15
Precision Plot – Gold in Reference Standard OXF-105 for the San Francisco Pit In-Fill Drilling

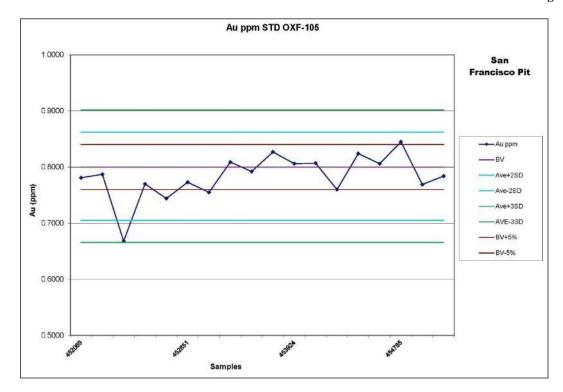


Figure 11.16
Precision Plot – Gold in Reference Standard OXJ-95 for the San Francisco Pit In-Fill Drilling

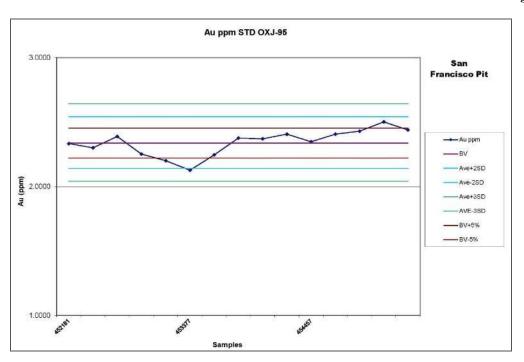




Figure 11.17
Precision Plot – Gold in Reference Standard OXC-109 for the N and NW La Chicharra Drilling

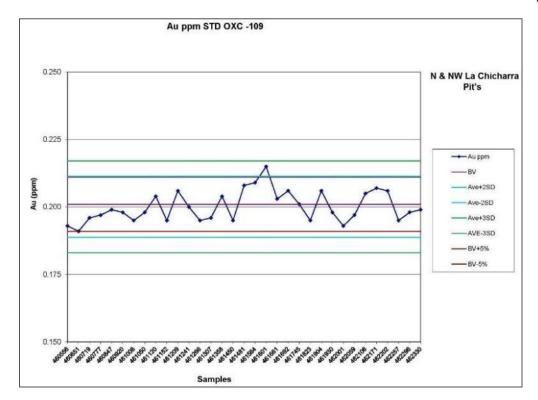
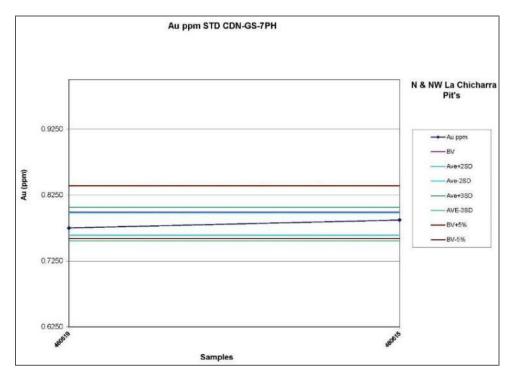


Figure 11.18
Precision Plot – Gold in Reference Standard CDN-GS-7PH for the N and NW La Chicharra Drilling





Overall, the assay results of the standard samples are considered satisfactory.

11.7.2 Duplicates

A total of 244 field duplicate samples were taken, in order to verify and control the sampling procedures in the field and check the gold assays in the laboratories. The rate of the duplicate sampling was one duplicate for every 25 samples.

Figure 11.19 and Figure 11.20 show the results for the duplicate samples, plotted as relative error diagrams, for the San Francisco and for the north and northwest La Chicharra Pits, in the August, 2016 to March, 2017 drill program.

The failed pairs in Figure 11.19 and Figure 11.20 are clearly shown as those points above the error limit line. The appearance of higher failure rate in the San Francisco Pit duplicates versus the La Chicharra duplicates may be in part due to the larger amount of drilling in and around the San Francisco pit versus the La Chicharra pit.

Figure 11.19
Results for the Duplicate Samples Plotted as a Relative Error Diagram for the San Francisco Pit, August, 2016 to March, 2017 Drill Program

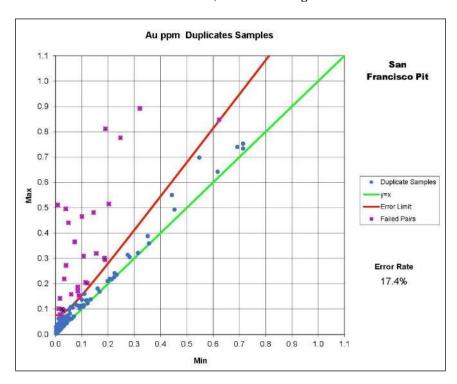
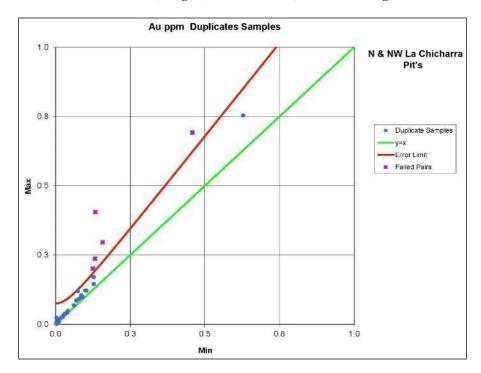




Figure 11.20
Results for the Duplicate Samples Plotted as a Relative Error Diagram for the North and Northwest La
Chicharra Pits, August, 2016 to March, 2017 Drill Program



11.7.3 Blank Samples

Blank samples were inserted into the sample stream at an average of one for every 25 samples submitted to the laboratories used during exploration drill program. The blank reference material was prepared by Alio from barren rock (basalt) acquired from the San Francisco property. For the period from August, 2016 to March, 2017, a total of 234 blank samples were submitted for gold analysis, of which 173 were sent to the Bureau Veritas and 61 were sent to the ALS Laboratories in Canada and the USA. Figure 11.21 through Figure 11.24 plot the results obtained for both laboratories.

Overall, the results for the blank sample analyses obtained by both laboratories are considered satisfactory.



Figure 11.21
Plot of Blank Assay Data from the Bureau Veritas Laboratory for the 2016 to 2017 Drill Program at San Francisco Pit

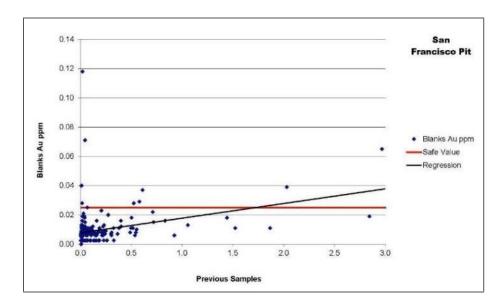


Figure 11.22
Plot of Blank Assay Data from the ALS Minerals Laboratory for the 2016 to 2017 Drill Program at San Francisco Pit

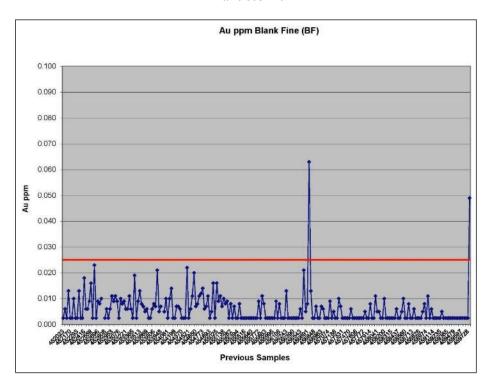




Figure 11.23
Plot of Blank Assay Data from the Bureau Veritas Laboratory for the 2016 to 2017 Drill Program at N & NW Chicharra Pit

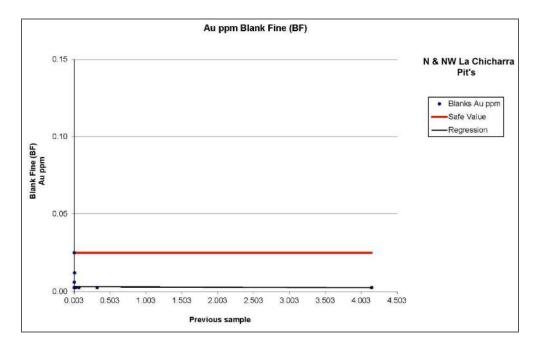
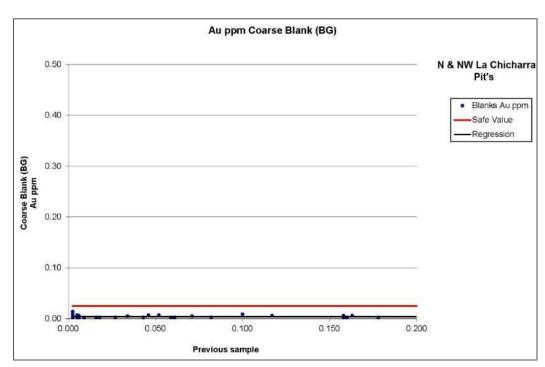


Figure 11.24 Plot of Blank Assay Data from the ALS Minerals Laboratory for the 2016 to 2017 Drill Program at N & NW Chicharra Pit





11.8 2017 AND 2018 DRILLING PROGRAM QA/QC

11.8.1 August to December, 2017 Drilling Program QA/QC

For the portion of the 2017 drilling program conducted between August and December there were no changes to the QA/QC program. Thus the previous information regarding the 2016-2017 QA/QC program at the San Francisco Project were still valid for the remainder of 2017.

11.8.2 2018 Drilling Program QA/QC

For the 2018 drill campaign all samples were assayed in the laboratory located at the San Francisco Project. Assaying at a mine's on-site laboratory is very common throughout the world and these data are usually used for updating the project data unless major issues have been identified with the use of the on-site analysis.

All drill sample assays were performed in the San Francisco Mine laboratory, using fire assays and cold cyanidation. A total of 5,027 samples were sent for analysis, of which, 333 were control samples with an insertion percentage of 6.6%.

The quality control protocol during in-fill drilling consisted of inserting blanks, duplicates and standards, alternated approximately every 12 samples. The QA/QC of the control samples inserted between the routine samples was reviewed and thus Alio believes that the validated information meets the requirements to be entered into the San Francisco resource model. A total of 333 control samples were inserted, which corresponds to 6.6% of the samples tested in 2018 drilling campaign, being 60 fine blanks (18%), 63 coarse blanks (19%), 72 duplicates (22%), 138 standards (41%).

Three different standards from obtained from Rocklabs were used in the 2018 program. The Rocklabs standard reference samples used were:

- OxC145 (0.212 g/t Au).
- OxD144 (0.417 g/t Au).
- OxG124 (0.918 g/t Au).

11.8.2.1 OxC145 Standard Reference Sample

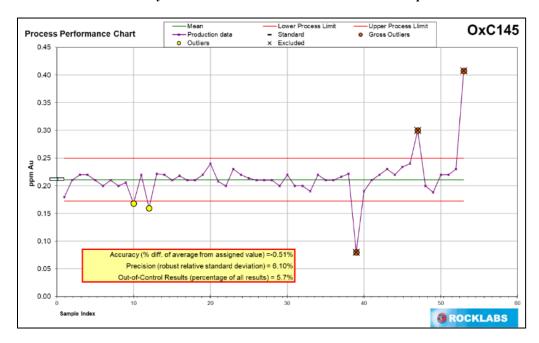
Three of the 53 OxC145 reference samples are considered to be outliers which are outside the maximum allowable limits of 3 standard deviations (SD). The three sample outliers represents 5.7% of the total number of samples analyzed which appears to be within the acceptable limits and typical range for the standard but the margin could probably be improved. Table 11.16 summarises the analysis information for standard reference sample OxC145. Figure 11.25 is a plot of the analysis results for standard reference sample OxC145.



Table 11.16
Summary of the Analysis Information for Standard Reference Sample OxC145

Analysis Table	All results	Gross Outliers Excluded	User Outliers Excluded	Comments
Number of results	53	50	50	
Average	0.2138	0.2109	0.2109	
Accuracy: (% Difference of Average from Assigned Value)	0.9%	-0.5%	-0.5%	
Precision: Relative Standard deviation (Robust)	10.1%	6.1%	6.1%	Industry Typical
Number of Outlying Results (Outside Process Limits)	0	3	3	
Perec	entage of Out	lying Results ⇒	5.7%	Room for improvement

Figure 11.25
Plot for the Analysis Information for Standard Reference Sample OxC145



11.8.2.2 OxD144 Standard Reference Sample

Two of the 46 OxD144 reference samples are considered to be outliers which represents 4.3% of the total samples analyzed. This number of outliers appears to be within the acceptable limits and typical range for the standard. Table 11.17 summarises the analysis information for standard reference sample OxD144. Figure 11.26 is a plot of the analysis results for standard reference sample OxD144.

Table 11.17
Summary of the Analysis Information for Standard Reference Sample OxD144

Analysis Table	All results	Gross Outliers Excluded	User Outliers Excluded	Comments
Number of results	46	44	44	
Average	0.4305	0.4148	0.4148	
Accuracy: (% Difference of Average from Assigned Value)	3.2%	-0.5%	-0.5%	
Precision: Relative Standard deviation (Robust)	10.5%	4.1%	4.1%	Good
Number of Outlying Results (Outside Process Limits)	0	2	2	
Perec	entage of Out	lying Results ⇒	4.3%	Industry typical



Lower Process Limit Upper Process Llimit
Gross Outliers — Mean → Production data OxD144 **Process Performance Chart** 1.00 0.90 0.80 0.70 0.60 0.50 0.40 0.30 0.20 curacy (% diff. of average from assigned value) =-0.52 Precision (robust relative standard deviation) = 4.15% 0.10 Out-of-Control Results (percentage of all results) = 4.39 0.00 @ ROCKLABS

Figure 11.26
Plot for the Analysis Information for Standard Reference Sample OxD144

11.8.2.3 OxG124 Standard Reference Sample

None of the OxG124 standard reference samples analyzed fell outside of the allowable limits as setout for the standard. Table 11.18 summarises the analysis information for standard reference sample OxG124. Figure 11.27 is a plot of the analysis results for standard reference sample OxG124.

Table 11.18
Summary of the Analysis Information for Standard Reference Sample OxG124

Analysis Table	All results	Gross Outliers Excluded	User Outliers Excluded	Comments		
Number of results	39	39	39			
Average	0.9065	0.9065	0.9065			
Accuracy: (% Difference of Average from Assigned Value)	-1.3%	-1.3%	-1.3%			
Precision: Relative Standard deviation (Robust)	3.8%	3.8%	3.8%	Good		
Number of Outlying Results (Outside Process Limits)	0	0	0			
Perec	Perecentage of Outlying Results					



Figure 11.27
Plot for the Analysis Information for Standard Reference Sample OxG124

The San Francisco Project laboratory has a lower detection limit of 0.03 Au ppm for the fire assay. In the review of the blank assays, a lower limit detection equivalent was used that was five times the lower limit detection of the mine laboratory. Fine and coarse blanks were found to be within the allowed limits.

Coarse duplicates were analyzed based on a tolerance of 15%, and an error rate of 18% was observed. In total, 13 out of 72 samples exceeded the allowed margin. Figure 11.28 is a plot of the duplicate sample analysis for the 2018 drilling program.



Duplicates Samples Au ppm 2.0 1.8 San Francisco 2018 1.5 Duplicate Samples 1.3 Error Limit Failed Pairs 1.0 Error Rate 18% 8.0 0.5 0.5 8.0 1.5 0.0 0.3 1.0 1.3 Min

Figure 11.28
Plot of the Duplicate Sample Analysis for the 2018 Drilling Program

11.9 MICON COMMENTS

Micon considers that the QA/QC program in place as part of Alio procedures is of sufficient quality to be considered as following the best practices guidelines as published by the CIM and that the results are suitable to be used as the basis of mineral resource estimate.

Magna will need to implement its own QA/QC program for the San Francisco Project once it completes its acquisition of the Project from Alio.



12.0 DATA VERIFICATION

The qualified persons responsible for the preparation of this report are William J. Lewis, P.Geo., Richard M. Gowans, P.Eng., and Rodrigo Calles-Montijo, CPG.

Mr. Lewis, a Senior Geologist with Micon, is responsible for the independent summary and review of the exploration and mining on the San Francisco Project, and the comments on the propriety of Magna's plans and budget for the next phase of in-fill drilling.

Mr. Gowans, President and Principal Metallurgist of Micon, reviewed the metallurgical aspects of the San Francisco Project.

Mr. Lewis conducted site visits in relation to all of the previous Technical Reports that Micon has written for the San Francisco Project. These reports spanned the original acquisition and early exploration through to, and including, the production phase of the Project. Site visits in conjunction with Technical Reports were conducted in 2005, 2007, 2008, 2009, 2010, 2011, 2013, 2016 (2) and 2017.

Mr. Calles-Montijo conducted a site visit to the San Francisco Mine on May 29, 2020.

12.1 Notes from Previous Alio Site Visits

Since 2005, Micon has prepared 10 previous Technical Reports on the San Francisco Mine for Alio, all of which have been filed on SEDAR and are referenced in Section 28 of this report. The steps taken by Micon to verify the databases and material provided by Alio for the previous reports have been the same as described below.

12.2 2017 ALIO SITE VISIT

A site visit was conducted between May 15 and 17, 2017, related to the publication of the 2017 Technical Report. In addition to the site visit to the San Francisco Mine, a day was spent at the exploration offices in Hermosillo, reviewing data for the report. Discussions were also held with responsible Alio personnel.

Prior to the 2017 and 2016 site visits, the database and model were reviewed in Toronto. This review allowed for any potential issues to be noted so that they could be discussed during the site visit. No issues were noted with the database and model during these reviews.

A number of discussions were held via skype and phone conference calls between Micon personnel in Toronto and Alio personnel in Hermosillo regarding the database, block model and parameters for the mineral resource estimate, as well as other topics related to the audit and preparation of previous Technical Reports.

The QPs responsible for the preparation of the 2017 report were William J. Lewis, P.Geo., Alan J. San Martin, MAusIMM(CP)., Mani Verma, P.Eng., and Richard M. Gowans, P.Eng.



No independent samples were taken by Micon during the 2016 and 2017 site visits. The San Francisco Project was an operating mine and produces gold doré as a result of its heap leach operations, verifying the existence of gold mineralization on the property.

12.3 **2020 SITE VISIT**

The San Francisco Mine was visited on May 29, 2020, by Mr. Rodrigo Calles-Montijo, CPG, an independent consultant and certified geologist with the AIPG. During the site visit, Mr. Calles-Montijo was accompanied by Mr. Miguel Angel Soto, Vice President of Exploration with Magna, and Jose Luis Soto, Operative Manager of the San Francisco Mine.

The site visit included an overview of the relevant facilities, which included the San Francisco and La Chicharra open pits, the operative heap leach patios and the extraction plants.

The extraction operation at the San Francisco and La Chicharra open pits has been in standby mode since December, 2018, as was noted by the representatives of Magna. General conditions in both open pits were observed to be adequate for a near-future re-start of mining operations. A general cleaning of the access ramps and stabilization of some sectors along the southern wall of the San Francisco open pit will be required. At the La Chicharra open pit, a new access ramp is programmed as part of an updated mineplan by Magna. According to the verbal information received from the representatives of Magna, the conditioning work in both open pits will take approximately 15 days, after which production from the pits can resume.

The crushing plant was observed during the site visit. The facility is currently not operating but has been maintained such that it can be brought back into operation with little difficulty.

The heap leach pad is currently operating under residual leach conditions with material placed on the pad up to the end of December, 2019. Based on the comments from Magna representatives, it is expected that the current leach process will be completed by the end of the 2020, at which time the efficiency of the leach process will be reduced and the spent material will no longer release economic mineralization.

Two ADR plants for the pregnant leach solution are still currently operating. The ADR Plant 2 was visited and it was observed that the recovery carbon column system is currently in operation. Currently, the final extraction has been completed in ADR Plant 2.

General infrastructure, such as offices, labs, workshops, etc., were observed to have been under adequate care and maintenance. The infrastructure is apparently in satisfactory condition, such that full operations could restart in a short period of time.

There is no new technical or scientific information, other than the historical resources/reserves included in this document, that justify additional data verification.



Figure 12.1 through Figure 12.6 are pictures of the San Francisco Project, taken by Mr. Calles-Montijo during the site visit conducted on May 29, 2020.

Figure 12.1 View of the San Francisco Pit Looking East



Source: Rodrigo Calles-Montijo, 2020.

Figure 12.2 View of the La Chichara Pit Looking West-Northwest



Source: Rodrigo Calles-Montijo, 2020.



Figure 12.3 View Looking Southeast Towards the San Francisco Pit



Note: The remaining low-grade stock pile is shown in the middle left side of the picture. Source: Rodrigo Calles-Montijo, 2020.

Figure 12.4 View Looking Southwest Towards the La Chicharra Waste Pile and Pit in the Distance



Note: Picture taken from one of the leach pads with a further leach pad in the centre left of the picture. Source: Rodrigo Calles-Montijo, 2020.



Figure 12.5 View of the ADR Plant 2



Source: Rodrigo Calles-Montijo, 2020.

Figure 12.6 Partial View of the Crushing Facility



Source: Rodrigo Calles-Montijo, 2020.

12.4 GENERAL MICON COMMENTS

In general, Micon's review of the material provided by Alio and its discussions with Alio personnel during the 2016 and 2017 site visits found that the data provided were adequate for the purposes of preparing Technical Reports for the San Francisco Project.



Micon has conducted a number of prior data verification reviews for the San Francisco property for the previous Technical Reports and, in each case, has found that the data provided were adequate to serve as the basis of the material contained within the Technical Reports.

Since Magna has access to Alio's data for the purposes of the acquisition of the San Francisco Project and since these data have been updated since Micon's site visit in 2017, Micon and its QPs believe the data to be of sufficient quality to use in a Techninal Report in support of Magna's acquisition of the Project.



13.0 MINERAL PROCESSING AND METALLURGICAL TESTING

Magna is acquiring the San Francisco Project from Alio and has not conducted any mineral processing and metallurgical testing to date. If necessary, Magna will conduct its own testwork once it has fully assessed the Project. The information for this Section was extracted from the May 25, 2017, Technical Report.

13.1 ALIO WORK

Alio continued to conduct metallurgical testwork periodically to potentially improve gold recoveries and to gain a better understanding of the mineralization as mining continued at the San Francisco property. The San Francisco property was in production since 2010 and to date there have been no processing factors or deleterious elements identified that have had a material negative effect on economic extraction.

13.2 TESTWORK BY METCON, 2012

On November 21, 2012, Alio announced a summary of the results from a recent bulk sample locked column leach testing program on representative mineralization from the San Francisco Project. This test program was completed at the METCON Research metallurgical laboratory in Tucson, Arizona.

The cyanide leach column test results on samples from the San Francisco deposit indicated an average gold extraction of 71.0% based on a crush size of 80% of the particles passing (P_{80}) 9.5 mm ($\frac{3}{8}$ inch) and 77.1% based on a crush size of P_{80} 6.3 mm ($\frac{1}{4}$ inch). For La Chicharra samples, the average column test gold extractions were 78.3% and 80.9%, based on crush sizes of P_{80} 9.5 mm and P_{80} 6.3 mm, respectively. No percolation issues were observed during the column leach tests.

Alio stated, in the November 21, 2012 press release, that it was encouraged by the results from the testing program but that it would continue to use a life-of-mine (LOM) gold recovery of 68.6% in its resource estimations, mine planning and economic analyses. Alio also stated that it believed that the results of the testing program indicated that there was potential to further improve its gold recoveries through optimization of the process.

13.2.1 Discussion of the 2012 Test Results

Six composite samples were tested in the 2012 metallurgical study; five from the San Francisco deposit and one from the La Chicharra deposit. The samples were classified by the following rock types:

- La Chicharra.
- SF Granite.
- SF Basic gneiss.



- SF Gabbro.
- SF Pegmatite and schist.
- SF Acid gneiss.

Table 13.1 and Table 13.2 summarize the gold extractions for these samples, based on P₈₀ crush sizes of 9.5 mm 6.3 mm, respectively. Two averages are presented in the tables, a simple arithmetic average and a weighted average based on the estimated LOM relative abundance of each rock type within the deposit. The samples were considered a good representation of each of the rock types and style of the mineralization within the deposit as a whole.

Table 13.1 Summary of Column Leach Test Results, Crush Size P₈₀ 9.5 mm, 127 Days Leach Time

Sample Description	Relative Proportion of the Deposit (%)	Au Extraction (%)	
SF - Granite	13.0	76.58	
SF – Basic Gneiss	26.4	71.08	
SF - Grabbro	18.9	63.79	
SF – Pegmatite and Schist	12.7	74.38	
SF – Acid Gneiss	29.1	71.40	
Sample average	100	71.45	
Weighted average (based on LOM abundances)	100	71.00	
La Chicharra	100	78.34	

Table provided by Alio Gold Inc.

Table 13.2 Summary of Column Leach Test Results, Crush Size P₈₀ 6.3 mm, 127 Days Leach Time

Sample Description	Relative Proportion of the Deposit (%)	Au Extraction (%)
SF - Granite	13.0	87.89
SF – Basic Gneiss	26.4	74.37
SF - Grabbro	18.9	71.22
SF – Pegmatite and Schist	12.7	79.69
SF – Acid Gneiss	29.1	77.03
Sample average	100	78.04
Weighted average (based on LOM abundances)	100	77.06
La Chicharra	100	80.89

Table provided by Alio Gold Inc.

The leaching test parameters typically used for the column leach tests are summarized below:

- Sample sizes were approximately 178 kg for each column test.
- Lime was blended with the test charge. Lime addition was estimated from a 72-hr agitated cyanidation bottle roll test.
- The initial feed solution was prepared by adding reagent grade lime to Tucson tap water to obtain a solution pH of 11.00, followed by the addition of 1.0 gram of sodium



cyanide per litre of solution. The columns were irrigated at a flow rate of 10 litres per hour per square metre.

- Column tests were conducted under a locked cycle type of leaching regime, by contacting the pregnant solution with activated carbon to remove gold and silver. The loaded activated carbon in each column test was dried, weighed and saved in sealed and labeled plastic bags.
- The resulting barren solution was recycled as feed solution after the addition of sodium cyanide and lime to maintain 1.0 gram of cyanide per litre of solution and a pH of 10.50 to 11.00.

13.2.2 Quality Assurance/Quality Control

As part of the METCON QA/QC program, approximately 10% of the daily pregnant solution samples from each column test were re-assayed to verify the accuracy of the original gold and silver assays. Linear regression analysis was conducted to quantify the difference between both assays. Table 13.3 summarizes the QA/QC analyses conducted on the pregnant solution samples.

Table 13.3
Correlation Coefficient, Daily Pregnant Solution vs. Duplicates

Commis Description	R ² Correlation Coefficient					
Sample Description	Gold (Au)	Silver (Ag)				
SF – Granite	0.9596	0.9539				
SF – Basic Gneiss	0.9563	0.9445				
SF – Grabbro	0.9842	0.9729				
SF – Pegmatite and Schist	0.9808	0.9738				
SF – Acid Gneiss	0.9277	0.9086				
La Chicharra	0.9696	0.9970				

Table provided by Alio Gold Inc.

The regression analysis conducted on the pregnant solution assays showed that there is a good correlation between the original gold and silver assays and the duplicate assays.

13.3 INTERNAL TESTWORK

Alio has conducted internal column leach testing to continuously improve recovery and understanding of the metallurgical response of the mineralization types located on the San Francisco property. Table 13.4 summarizes the 2015 results from these internal metallurgical tests and Table 13.5 presents the preliminary column test results from a series of tests undertaken 2017.



Table 13.4 Summary of the 2015 Internal Metallurgical Testwork

ID Test	Sample ID	Column Height (m)	Presoak ¹ (mg/L)	Solution Strength (ppm NaCN)	Au Grade (g/t)	Rock Size (<9.5 mm)	Days Leached	% Gold Recovery				
Regular Monthly Composites												
January, 2015	1	3	1,000	350	0.500	85.61%	90	63.59%				
January, 2015	1 A	3	2,000	350	0.500	85.61%	90	63.15%				
February, 2015	2	3	1,000	350	0.480	83.95%	90	61.91%				
February, 2015	2 A	3	2,000	350	0.480	83.95%	90	59.87%				
March, 2015	3	3	1,000	350	0.520	81.94%	90	52.00%				
March, 2015	3 A	3	2,000	350	0.564	85.71%	90	53.10%				
April, 2015	4	3	2,000	350	0.510	85.18%	90	59.95%				
April, 2015	4 A	3	2,000	250	0.520	86.33%	90	59.08%				
April, 2015	4 B	3	2,000	350	0.510	100.00%	90	62.13%				
April, 2015	4 C	3	2,000	250	0.510	100.00%	90	59.17%				
May, 2015	5	3	2,000	350	0.530	85.18%	90	69.21%				
May, 2015	5A	3	2,000	350	0.560	85.18%	90	68.72%				
May, 2015	5B	3	2,000	350	0.510	85.18%	90	68.70%				
June, 2015	6	3	2,000	350	0.450	88.01%	90	59.53%				
June, 2015	6A	3	2,000	350	0.415	89.04%	90	59.86%				
June, 2015	6B	3	2,000	350	0.480	88.31%	90	61.17%				
July, 2015	7	3	2,000	500	0.502	86.99%	90	58.31%				
July, 2015	7A	3	2,000	500	0.502	86.99%	90	56.92%				
August, 2015	8	3	2,000	500			15	36.18%				
August, 2015	8A	3	2,000	500			15	34.52%				
September, 2015	9	3	2,000	500	0.480	86.78%	51	52.64%				
September, 2015	9A	3	2,000	500	0.510	85.31%	51	54.28%				
			Variable Ro	ck Types								
Old ore Phase 2	RPL-01	3	N/A	250	0.412	81.00%	90	20.55%				
Old ore Phase 2	RPL-02	3	N/A	250	0.412	82.00%	90	20.46%				
Underground ore	2 SUB 01	3	2,000	300	4.400	100.00%	90	64.92%				
Underground ore	2 SUB 02	3	2,000	500	4.400	100.00%	90	64.71%				
Underground ore	2 SUB 03	3	N/A	500	3.030	97.50%	90	69.35%				
Underground ore	2 SUB 04	3	N/A	500	3.030	97.80%	90	66.74%				
		N	Metallurgical	Research								
Oct-15, with O ₂	Col. A	2.5	N/A	400	0.370	86.25%	23	73.50%				
Oct-15, without O ₂	Col. B	2.5	N/A	400	0.370	86.25%	23	68.78%				
Old ore with O ₂	Col. C	2.5	N/A	400	0.200	85.26%	23	23.21%				
Old ore without O ₂	Col. D	2.5	N/A	400	0.200	85.28%	23	19.37%				

Table provided by Alio Gold Inc.

¹ Presoak, 7% solution by weight with 1 or 2 g/L sodium cyanide (NaCN) solution.



Table 13.5 Summary of the 2017 Internal Metallurgical Testwork

ID Test	Assayed Head (g/t)	Calculated Head (g/t)	NaCN consumed (g/t)	Crush Size (P ₈₀ mm)	Days Leached	Liquid/Solid Ratio	% Gold Recovery				
Regular Monthly Composites											
December 2016 composite	0.51	0.47	250	7.97	80	2.27	61.72%				
January 2017 composite	0.42	-	312	7.47	73	2.16	81.07%				
February 2017 composite	0.39	-	372	8.29	62	1.95	76.32%				
March 2017 composite	0.44	-	180	7.89	51	1.59	53.77%				
April 2017 composite	0.39	-	54	7.76	19	0.49	53.63%				
		Variable R	ock Types								
Low grade stockpiled	0.25	0.26	200	7.26	58	1.64	63.55%				
Low grade stockpiled + solid peroxide	0.25	0.26	150	6.97	58	1.71	64.25%				
Basic gneiss, SF	0.27	0.27	120	7.24	59	1.81	52.22%				
Basic gneiss, LCH	0.49	0.45	164	7.10	59	1.75	69.82%				
Gabbro, LCH	0.30	0.28	177	7.28	59	1.59	76.53%				
Gabbro, SF*1	0.17	0.16	55	7.40	23	0.53	46.88%				
Granite, SF	0.72	-	362	6.89	105	3.504	60.84%				
Las Barajitas ore	0.66	-	54	6.70	12	0.26	61.31%				
		Metallurgica	al Research			•					
December 2016 composite + solid peroxide	0.51	0.47	185	7.97	80	2.31	62.86%				
January 2017 composite + solid peroxide	0.42	-	258	7.47	73	2.02	84.44%				
January 2017 composite (P ₉₀ -1/4")	0.42	-	342	4.49	73	1.64	81.38%				
February 2017 composite + solid peroxide	0.38	-	144	8.29	41	1.15	73.36%				
Electronic Initiator ENAEX	0.24	-	67	11.06	35	1.00	43.94%				
	Variable G	rind Size (da	ted at March 2	23, 2017)							
OVERLAND P80 9.41 mm	0.41	-	95	9.41	33	1.04	44.92%				
OVERLAND P80 7.87 mm	0.41	-	87	7.87	33	0.93	47.29%				
OVERLAND P80 6.35 mm	0.39	-	131	6.35	33	1.07	49.23%				

¹ Table provided by Alio Gold Inc.

13.3.1 Discussion of Column Test Results

The regular monthly column test results show gold recoveries between 52% and 81% for tests operated for 60 day or more. These test results compare reasonably well with the typical plant gold recovery which, historically, has been approximately 65%. Figure 13.1 presents the cumulative reported recoverable and actual gold recoveries from 2010 to 2017.

² No Presoak



80%
70%
60%
Au Recoverable
Gold Recovered
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

Quarters (2010 to 2017)

Figure 13.1 Historical Cumulative Plant Gold Recoveries

Of particular note are the relatively high recoveries achieved for the standard 2017 January and February composite tests, which were 81% and 76%, respectively.

The metallurgical research tests suggest that the addition of oxygen and/or peroxide improves the kinetics and the overall gold recovery. Also, preliminary results from recent tests comparing crush sizes have shown improved gold recoveries with finer crushing.

13.4 MICON COMMENTS/CONCLUSIONS

Alio continues to use the information obtained from its testing programs to improve its understanding of the various mineralization types and to optimize its current process for recovery of gold from the San Francisco and La Chicharra deposits.

Alio's most recent LOM plan anticipates that the gold recovery rate will average 73%. This estimate is based on optimizing the blending of the San Francisco and La Chicharra ores and using a finer crush size (100% below 9.5 mm).



14.0 MINERAL RESOURCE ESTIMATES

Magna is treating Alio's July 1, 2018 mineral resource estimate as a historical estimate. As the Alio estimate is considered historical it is discussed in Section 6 of this Technical Report.

Magna stated in its March 6, 2020 Press Release discussing the purchase agreement for the San Francisco Project, that "a qualified person has not done sufficient work on behalf of Magna to classify the historical estimate as current Mineral Resources or Mineral Reserves and Magna is not treating the historical estimate as current Mineral Resources or Mineral Reserves. Although Magna is not treating this information as current estimates, it believes Alio's work is reliable and that the information, which was made publicly available by Alio, may be of assistance to investors. The Company intends to review all project data, validate data quality, create a new geological model and then make an updated resource estimate in the upcoming months. As well, the Company will be reviewing metallurgical information and key economic parameters in order to evaluate the potential economics of an open pit gold mine and heap leach extraction facility."



15.0 MINERAL RESERVE ESTIMATES

Magna is treating Alio's July 1, 2018 mineral reserve estimate as a historical estimate. As the Alio estimate is considered historical it is discussed in Section 6 of this Technical Report.



16.0 MINING METHODS

The information for this Section was extracted from the May 25, 2017, Technical Report, with updated information to cover the period since that report was written. Magna personnel are familiar with the San Francisco Project and its mineral deposits and they will be reviewing the previous mining operations once the acquisition is completed.

Mining at the San Francisco Project was conducted by a contractor, using open pit mining methods and stockpiling the lower grade material for processing once the open pit was no longer producing. Although Alio drew material from the stockpiles intermittently from 2014, routine processing of the stockpile material began at the end of 2018 when production from the open pits ceased and continued through 2019. Currently, operations are solely focused on recovery of the residual inventory ounces.

16.1 ALIO PRODUCTION

The San Francisco Mine resumed commercial production in April, 2010. Table 16.1 summarizes production from April, 2010 to the end of 2019, by quarter, with notes at the end as to what is included or excluded from the table. Ore of lower grade was stockpiled for processing at the end of the mine life. Alio reports that, at the end of March, 2016, that a total of 8.121 Mt at an average grade of 0.260 g/t gold had been placed on the low-grade stockpile since 2010, as shown in Table 16.2. As the end of December, 2019, Alio has processed from the stockpiles a total of 7.406 Mt at an average grade of 0.224 g/t gold.

During July, 2011, Alio expanded of the crushing system to 15,000 t/d. In December, 2012, a new crushing circuit was installed to provide an additional capacity of 5,000 t/d. In August, 2013, the second crushing circuit was expanded by 2,000 t/d. The processing rate at the time of the 2017 Technical Report was 22,000 t/d and had been operating at this rate since the 2013 Technical Report was released. During 2019, Alio decided to stop processing material from the open pits and concentrate on processing material from the stockpiles. Currently, the operation is on residule leach.

Figure 16.1 to Figure 16.4 are views of the San Francisco pit during the Micon site visits in July, 2011, August, 2013, February, 2016 and May, 2017. Figure 16.5 and Figure 16.6 are views of the La Chicharra pit during the Micon site visit in February, 2016 and May, 2017. In order to demonstrate the yearly growth of the San Francisco pit since Alio resumed mining in 2009 and the extent of mining up to 2019, a plan view of the current pit (Figure 16.7) outlining the locations of a longitudinal section (Figure 16.8), and a cross-section (Figure 16.9) of the pit, are provided to show the annual pit limits in these areas. The yearly growth of and the extent of the mining up to 2019 for the La Chicharra pit is demonstrated in Figure 16.10 (plan view), Figure 16.11 (longitudinal section) and Figure 16.12 (cross-section).

Figure 16.13 is a view of the San Francisco pit as of February, 2020, looking to the east. Figure 16.14 is a photograph of the Southwall of the San Francisco pit showing phase 7 as of February, 2020, looking to the east.



Table 16.1 San Francisco Project, Annual Production from April, 2010 to the End of December, 2019 (by Quarter)

Year	Quarter	Total Ore Extracted (dry tonnes)	Avg Grade Extracted (g/t Gold)	Total Gold Extracted (oz Au)	ROM extracted (dry tonnes)	Avg Grade ROM Extracted (g/t Gold)	Waste Mined (dry tonnes)	Strip Ratio (w:o)	Processed Ore (dry tonnes)	Avg Processed Grade (g/t Gold)	Gold Placed on Leach Pad (oz Au)	Gold Sold (oz Au)	Days in Quarter	Average Ore Mined (tonnes/day)	Average Ore Processed (tonnes/day)	Total Mined (tonnes/day)
	April – June	989,146	0.768	24,427	0	0	4,057,842	4.10	905,296	0.718	20,904	10,375	91	10,870	9,948	55,461
2010	July – September	1,110,169	0.862	30,756	0	0.000	3,630,021	3.27	1,090,768	0.817	28,667	15,685	92	12,067	11,856	51,524
	October - December	1,271,281	0.947	38,712	0	0.000	4,498,925	3.54	1,208,677	0.939	36,483	20,030	92	13,818	13,138	62,720
	January – March	1,624,297	0.721	37,656	0	0.000	4,701,677	2.90	1,207,339	0.895	34,743	17,020	90	18,048	13,415	70,289
2011	April – June	1,648,231	0.762	40,370	0	0.000	4,239,137	2.57	1,239,075	0.859	34,235	16,676	91	18,112	13,616	64,696
2011	July – September	2,030,276	0.650	42,429	0	0.000	5,097,292	2.51	1,364,290	0.804	35,282	17,287	92	22,068	14,829	77,474
	October - December	2,097,621	0.582	39,282	0	0.000	4,160,488	1.98	1,327,299	0.778	33,195	21,524	92	22,800	14,427	68,023
	January – March	2,092,389	0.593	39,864	0	0.000	3,879,662	1.85	1,255,477	0.772	31,150	21,532	91	22,993	13,796	65,627
2012	April – June	2,098,087	0.656	44,274	0	0.000	4,342,495	2.07	1,347,112	0.901	39,028	23,203	91	23,056	14,803	70,776
2012	July – September	2,266,504	0.646	47,090	0	0.000	4,210,428	1.86	1,420,414	0.887	40,490	25,154	92	24,636	15,439	70,401
	October - December	1,867,512	0.707	42,439	0	0.000	5,295,383	2.84	1,493,623	0.819	39,339	24,556	92	20,299	16,235	77,858
	January – March	2,113,611	0.712	48,383	0	0.000	6,375,048	3.02	1,787,262	0.825	47,434	28,328	90	23,485	19,858	94,318
2013	April – June	2,233,783	0.702	50,394	0	0.000	6,235,920	2.79	1,848,832	0.814	48,380	28,024	91	24,547	20,317	93,074
2013	July – September	2,110,667	0.684	46,425	0	0.000	5,441,889	2.58	1,815,709	0.771	45,016	29,139	92	22,942	19,736	82,093
	October – December	2,284,242	0.737	54,118	0	0.000	5,307,526	2.32	2,014,968	0.872	56,504	34,166	92	24,829	21,902	82,519
	January – March	2,373,603	0.727	55,477	0	0.000	5,520,468	2.33	2,122,650	0.760	51,838	35,413	90	26,373	23,585	87,712
2014	April – June	2,461,018	0.625	49,467	0	0.000	5,810,088	2.36	2,184,316	0.650	45,616	32,932	91	27,044	24,003	90,891
2014	July – September	2,017,523	0.561	36,359	0	0.000	6,208,303	3.08	2,213,740	0.504	35,889	26,675	92	21,930	24,062	89,411
	October – December	1,944,436	0.650	40,656	0	0.000	6,417,044	3.30	2,101,873	0.563	38,078	25,007	92	21,135	22,846	90,886
	January – March	2,086,331	0.563	37,779	0	0.000	5,997,897	2.88	2,074,788	0.532	35,469	24,155	90	23,181	23,053	89,825
2015	April – June	2,118,215	0.565	38,476	0	0.000	7,151,798	3.38	2,252,591	0.527	38,176	22,869	91	23,277	24,754	101,868
2015	July – September	1,962,879	0.548	34,601	0	0.000	7,000,474	3.57	2,200,292	0.510	36,072	23,387	92	21,336	23,916	97,428
	October – December	1,712,867	0.486	26,788	0	0.000	6,857,052	4.00	1,921,060	0.458	28,314	22,787	92	18,618	20,881	93,151
	January – March	1,999,320	0.620	39,840	0	0.000	4,708,661	2.36	2,003,712	0.622	40,038	25,121	91	21,971	22,019	73,714
2016	April – June	1,848,675	0.604	35,892	0	0.000	3,729,153	2.02	1,939,567	0.604	37,640	25,863	91	20,315	21,314	61,295
2016	July – September	1,745,081	0.604	33,901	0	0.000	3,724,904	2.14	1,791,399	0.610	35,135	24,053	92	18,968	19,472	59,456
	October - December	1,864,407	0.486	29,123	0	0.000	2,365,312	1.27	1,917,965	0.482	29,703	25,287	92	20,265	20,847	45,975
	January – March	1,942,117	0.485	30,255	0	0.000	3,241,871	1.67	1,963,307	0.475	29,996	26,048	90	21,579	21,815	57,600
2017	April – June	1,651,256	0.523	27,779	0	0.000	4,300,791	2.61	1,933,253	0.466	28,958	22,012	91	18,146	21,245	65,407
2017	July – September	1,645,607	0.468	24,750	0	0.000	5,184,524	3.15	1,916,332	0.400	24,616	19,428	92	17,887	20,830	74,241
	October - December	1,709,950	0.533	29,326	53,311	0.193	6,232,422	3.65	1,777,461	0.449	25,632	16,069	92	18,586	19,320	86,330
	January – March	1,725,744	0.481	26,683	1,100,860	0.168	5,810,318	3.37	1,714,564	0.416	22,960	16,860	90	19,175	19,051	83,734
2010	April – June	1,620,935	0.433	22,574	543,376	0.171	4,038,721	2.49	1,617,158	0.463	24,086	13,534	91	17,812	17,771	62,194
2018	July – September	1,539,587	0.481	23,816	117,788	0.141	1,984,781	1.29	1,602,613	0.481	24,770	10,857	92	16,735	17,420	38,308
	October - December	1,159,962	0.478	17,838	0	0.000	3,618,151	3.12	1,576,781	0.418	21,168	10,136	92	12,608	17,139	51,936
	January – March	0	0.000	0	0	0.000	0	0.00	1,619,443	0.274	14,290	10,876	90	0	17,994	0
2010	April – June	0	0.000	0	0	0.000	0	0.00	1,744,165	0.274	15,349	10,204	91	0	19,167	0
2019	July – September	0	0.000	0	0	0.000	0	0.00	1,607,925	0.248	12,809	8,167	92	0	17,477	0
	October - December	0	0.000	0	0	0.000	0	0.00	1,183,727	0.228	8,665	7,097	92	0	12,867	0
Total		64,967,330	0.617	1,287,999	1,815,336	0.168	171,376,466	2.64	66,306,823	0.599	1,276,118	817,534	3,562	20,321	18,615	73,927

Table provided by Magna.

NOTES:

- Alio's management team decided to process ROM ore by the end of 2017. The record of this ore is not reflected in the above table. Approximately 1.8 Mt were processed in this manner.
- From Q4, 2018 till Q4, 2019, the low grade ore stockpiled was processed and placed on pads
- Total Ore Extracted columns take into account the low grade ore sent to stockpile
- Total Processed Ore columns include the low grade ore rehandled and processed. These figures do not reflect the ROM ore extracted and placed over pads



Table 16.2 San Francisco Project, Annual Ore Stockpiled and Processed from April, 2010 to the End of December, 2019 (by Quarter)

Year	Quarter	Low Grade Stockpile (Dry Tonnes)	Average Grade (g/t Gold)	Gold Oz Stockpiled	Low Grade Processed (Dry tonnes)	Average Grade (g/t Gold)	Ounces LG Processed (oz Au)
	April – June	77,828	0.366	916	0	0.000	0
2010	July - September	24,324	0.344	269	0	0.000	0
	October - December	48,730	0.320	501	Gold Oz. Stockpiled Processed (Dry tonnes) Grade (g/t Gold) Process (oz An oz An o	0	
	January - March	395,254	0.258	3,283	0	0.000	0
2011	April – June	379,778	0.276	3,371	0	0.000	0
2011	July - September	671,185	0.276	- ,	0	0.000	0
	October - December	812,586	0.274	7,160		0.000	0
	January - March	804,585	0.271	7,001	0	0.000	0
2012	April – June	791,775	0.252	6,414	0	0.000	0
2012	July - September	842,973	0.229	6,197		0.000	0
	October - December	526,800	0.265	4,487	0	0.000	0
	January - March	399,784	0.261	3,354	0	Processed ry tonnes Grade (g/t Gold) 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 124,606 0.286 148,021 0.282 260,406 0.291 0 0.000 45,106 0.259 20,055 0.259 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0	0
2012	April – June	456,950	0.248	3,645	0	0.000	0
2013	July – September	445,603	0.255	3,660	0	0.000	0
	October - December	349,338	0.253	2,839	0	0.000	0
	January - March	288,021	0.259	2,396	0	0.000	0
2014	April – June	399,075	0.245	3,140	124,606	0.286	1,147
2014	July – September	67,598	0.245	533	148,021	0.282	1,344
	October - December	158,625	0.225	1,146	260,406	0.291	2,435
	January - March	112,206	0.257	927	0	0.000	0
2015	April – June	47,446	0.283	432	45,106	0.259	376
2015	July – September	16,030	0.409	211	20,055	0.259	167
	October - December	968	0.328	10	0	0.000	0
	January - March	3,966	0.244	31	0	0.000	0
2016	April – June	0	0.000	0	0	0.000	0
2010	July - September	0	0.000	0	0	0.000	0
2015	October - December	0	0.000	0	0	0.000	0
	January - March	349,338 0.253 2,839 0 0.000 288,021 0.259 2,396 0 0.000 399,075 0.245 3,140 124,606 0.286 67,598 0.245 533 148,021 0.282 158,625 0.225 1,146 260,406 0.291 112,206 0.257 927 0 0.000 47,446 0.283 432 45,106 0.259 16,030 0.409 211 20,055 0.259 968 0.328 10 0 0.000 3,966 0.244 31 0 0.000 0 0.000 0 0 0.000 0 0.000 0 0 0.000 0 0.000 0 0 0.000 0 0.000 0 130,063 0.250 0 0.000 0 0 0.250 0 0.000 0 0 0.	0.000				
2017	April – June	0	0.000	0	129,525	0.250	1,041
2017	July - September	0	0.000	0	130,063	0.250	1,045
	October - December	0	0.000	0	13,100	0.250	105
	January - March	0	0.000	0	0	0.000	0
2019	April – June	0	0.000	0			
2018	July - September	0	0.000	0	38,082	0.250	306
	October - December	0	0.000	0	341,788	0.242	2,657
	January - March	0	0.000	0	1,619,443	0.218	11,335
2010	April – June	0	0.000	0	1,744,165	0.217	12,157
2019	July - September	0	0.000	0	1,607,925	0.214	11,040
	October - December	0	0.000	0	1,183,727	0.212	8,073
	TOTAL	8,121,427	0.260	67,883	7,406,012	0.224	53,230

Table provided by Magna.



Figure 16.1 View of the San Francisco Pit in July, 2011 (Looking West-Northwest)



Photograph taken during the July, 2011 Micon site visit.

Figure 16.2 View of the San Francisco Pit in August, 2013 (Looking East-Northeast)



Photograph taken during the August, 2013 Micon site visit.



Figure 16.3 View of the San Francisco Pit in February, 2016 (Looking East-Northeast)



Photograph taken during the February, 2016 Micon site visit.

Figure 16.4 View of the San Francisco Pit in May, 2017 (Looking East-Northeast)



Photograph taken during the May, 2017 Micon site visit.



Figure 16.5 View of the La Chicharra Pit in February, 2016 (Looking to the East)



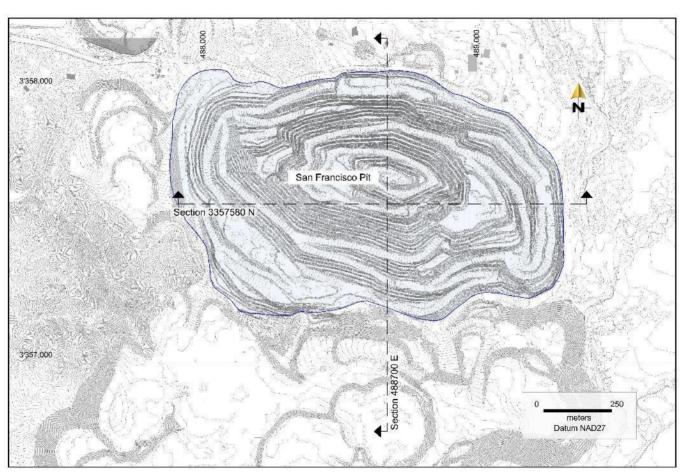
Photograph taken during the February, 2016 Micon site visit.

Figure 16.6 View of the La Chicharra Pit in May, 2017 (Looking to the West Northwest)



Photograph taken during the May, 2017 Micon site visit.

Figure 16.7
Plan View of the San Francisco Pit Showing the Location of the Longitudinal and Cross-Sections Demonstrating the Growth of the Pit Since 2009





488500 E 489000 E 488000 E Looking North West East 🖒 800 RL San Francisco Pit 600 RL **EVOLUTION OF OPEN** PIT PROFILE Original Pit Limit 400 RL December 2009 Pit Limit December 2010 Pit Limit December 2011 Pit Limit December 2012 Pit Limit Section North 3357580 December 2013 Pit Limit 200 RL December 2014 Pit Limit December 2015 Pit Limit Graphic Scale December 2016 Pit Limit 200

meters

Figure 16.8
Longitudinal Section (3357580 North) Demonstrating the Growth of the San Francisco Pit Since 2009

Figure provided by Magna Gold Corp. dated March, 2020.

December 2019 Pit Limit

Figure 16.9 Cross-Section (488700 East) Demonstrating the Growth of the San Francisco Pit Since 2009

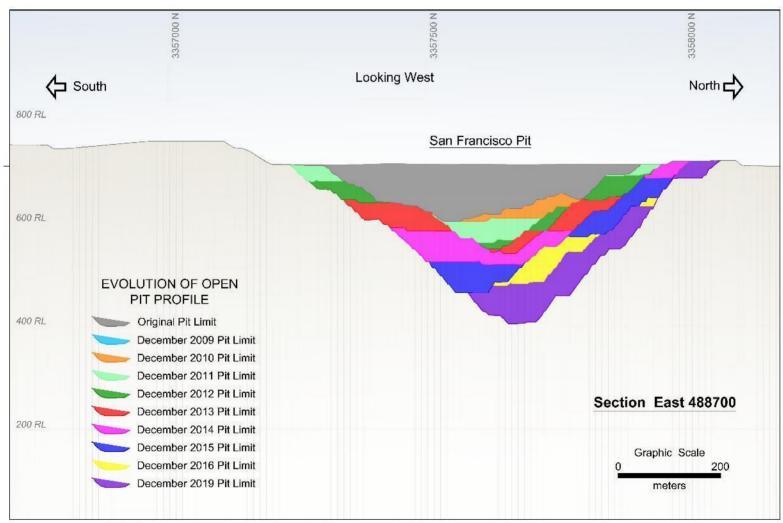


Figure 16.10
Plan View of the La Chicharra Pit Showing the Location of the Longitudinal and Cross-Sections Demonstrating the Growth of the Pit Since 2009

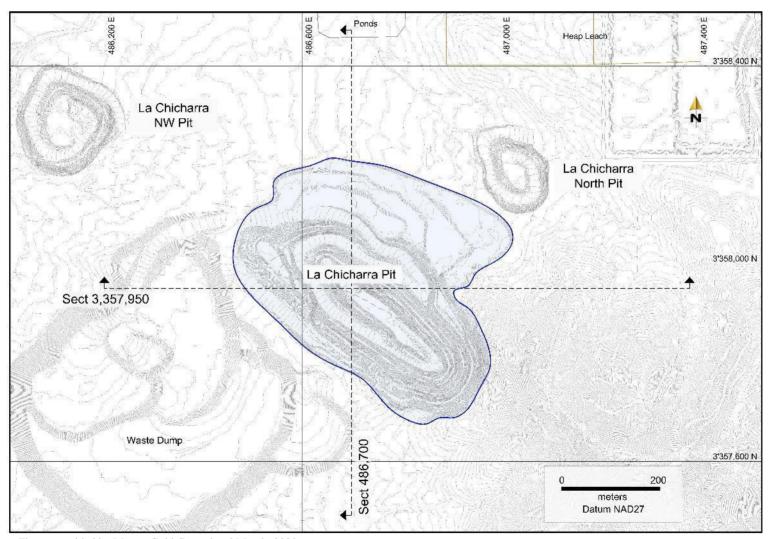




Figure 16.11 Longitudinal Section (3357950 North) Demonstrating the Growth of the La Chicharra Pit Since 2009

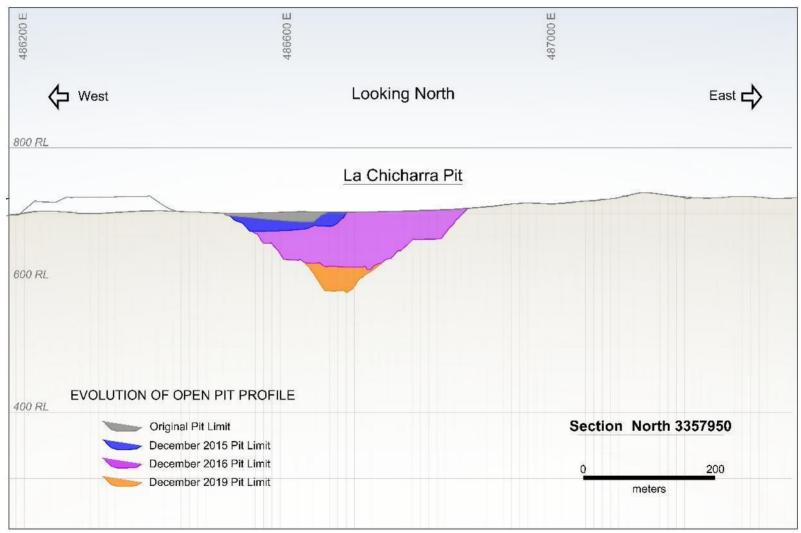
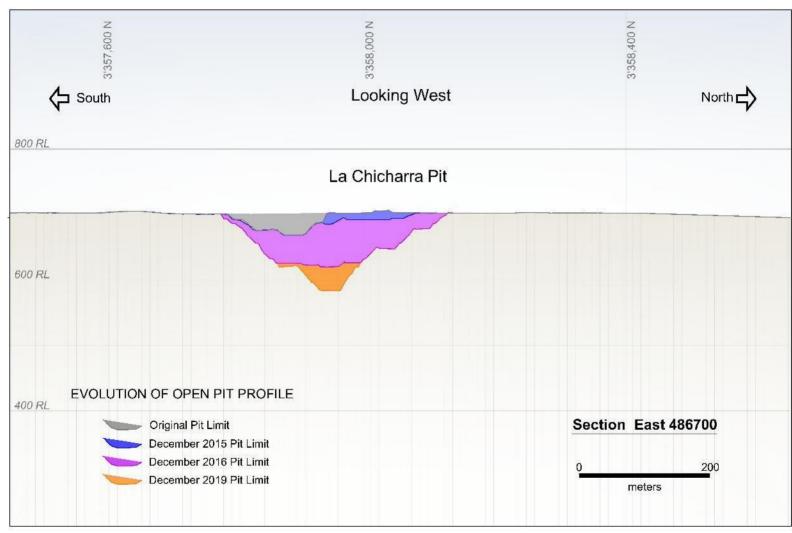


Figure 16.12 Cross-Section (488700 East) Demonstrating the Growth of the La Chicharra Pit Since 2009



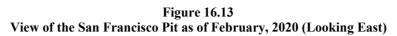




Figure supplied by Magna Gold Corp. in March, 2020.

Figure 16.14
View of the Southwall of the San Francisco Pit Showing Phase 7 as of February, 2020 (Looking East)



Figure supplied by Magna Gold Corp. in March, 2020.



16.2 OPEN PIT MINE DESIGN

16.2.1 Geotechnical Studies and Slope Design Criteria

The previous owners of the property, Geomaque de Mexico, retained Golder Associates (Golder) to conduct a geotechnical study on the San Francisco pit in December, 1996. Golder's scope of work was to carry out site investigations, testing and analysis to develop slope angle recommendations for the pit design.

The recommended overall slope angles ranged from 37° for single 6 m benches along the northeast facing slopes, to a maximum of 56° for double-benching in schist units. Golder presented a table of recommended inter-ramp slope angles and catch bench widths to achieve the recommended overall slope angles. Alio used the Golder recommendations when carrying out the pit optimization analysis and included an allowance for 25 m ramp widths. In July, 2012, Molimentales received the results of a new geotechnical analysis of the pit it had commissioned from Call & Nicholas, Inc. (CNI).

The purpose of the study conducted by CNI was:

- 1. To determine optimum inter-ramp slope angles and bench design parameters for the final San Francisco pit design.
- 2. To identify and analyze any potential major instability that would represent a significant cost or interference to the mine operations.
- 3. To provide recommendations for slope management over the life of the mine.

Stability analyses included bench scale Backbreak analysis, from which the expected distribution of bench face angles and reliability schedules were developed. The Backbreak analysis relied on a cell-mapping program conducted along existing pit benches. Average and minimum bench face angles for individual cells were recorded concurrently with the mapping. The bench face angle database confirmed the pit wall geometries that are currently being achieved at San Francisco. Discrete faults with lengths exceeding roughly 40 m were analyzed to determine their potential for forming viable failure geometries along final pit walls.

16.2.1.1 Design Recommendation

CNI's recommended inter-ramp slope angles are based on bench geometries that resulted from the Backbreak analysis, using an 80% reliability of achieving the required 7.0-m catch bench width for a double-bench configuration and an 8.2-m catch bench width for a triple-bench slope configuration. The recommended slope design angles are based on the following considerations:

• Recommended slope angles are the flattest inter-ramp slopes resulting from three analytical analyses: the Backbreak bench analysis, the inter-ramp (multibench) slope analysis and the overall slope analysis. Resulting inter-ramp slope angles for 12-m double benching range from 39° to 50°; angles for 18-m triple benching range from 42° to 52°.



- The recommended slope angles require average bench face angles of at least 72°. Accordingly, a blast control program to minimize damage to final pit walls will be necessary.
- Double and triple benching (12 and 18 m) is recommended for most of the final pit walls. Double and triple bench geometries should have minimum catch bench widths of 7.0 and 8.2 m, respectively. Recommended mine planning catch widths range from 8.7 m to 13.1 m.
- Single benching (6 m) is recommended for upper slope segments that are composed of either alluvial material, or mine waste dump. Slopes composed of these materials may be designed at a continuous 37° inclination, provided that a total height of about 40 m is not exceeded.

The inter-ramp slope angles were determined for static seismic conditions. The impact of an earthquake on rock slope stability is considered minimal. The reported slope angles are also based on depressurized pit slopes.

16.2.1.2 Impact of Groundwater on Slope Stability

CNI's recommended slope angles assume adequately drained (depressurized) slopes. The Backbreak analysis assumed depressurized conditions on mine benches, and inter-ramp stability analyses were performed for both saturated and depressurized conditions. Preliminary observations suggest that the final pit walls may be relatively free-draining, precluding the development of any excessive pore pressure buildup. It appears that draining will occur mostly through major faults and the more fractured ground surrounding these faults. This assumption should be confirmed once data are available from the piezometer monitoring and from the water seepage record for the pit wall, as the pit deepens.

16.2.2 2016 Southwall Stability

In December, 2016, the south wall at the San Francisco pit was affected by a transversal failure which could potentially compromise the mining operations in the area, if the deformation were to resume movement.

In March, 2017, Alio started a monitoring program with the assistance of Ground Pro, in order to determinate, in real time, what is occurring in the area of the failure and the extent of the deformation occurring after blast events and rainfall, to identify and determine the extent of the potential risk to the mining operations within the San Francisco pit. As of the date of this report, Alio's monitoring shows no further movement in the area of the December, 2016 transversal failure.

16.2.3 Hydrological Considerations

During its site inspections, Micon observed that the existing pit walls were generally dry, with a few minor seepages along shear zones. At the end of 2010, a hydrogeological study was



conducted by Investigación y Desarrollo de Acuíferos y Ambiente (IDEAS) around the pit, to evaluate the hydrological regime in this area. A number of piezometers were installed to monitor the water flow surrounding the pit (Figure 16.15).

Figure 16.15
Piezometer (PFP-01A) Installed to Monitor Water Flow Surrounding the Pit



Photograph taken during the August, 2013 Micon Site Visit.

16.2.4 Phased Pit Designs

Before Alio commenced mining within the San Francisco pit, pit designs were revised from the two mining phases developed previously by IMC, to three mining phases designed by Alio. The latter designs were used for re-starting operations, in order to achieve a favourable distribution of waste tonnage during the mine life and enhance the availability of heap leach feed.

In 2010, the three-phase open pit design was extended to incorporate the additional resources delineated to the northwest of the previous pit outline. Additional drilling extended the pit limits by 70 to 100 m and a fifth pit phase was added to the design. The first phase was completely mined in the first quarter of 2012.

The reserves for the La Chicharra pit have also now been incorporated into the formal mine plan. The La Chicharra pit is located 1,000 m west of the San Francisco pit and was previously operated by Geomaque. Drilling has delineated additional resources and a pit design has been developed based on the USD 1,200/oz gold optimized pit shell.

Figure 16.16 shows the final pit designs for the San Francisco and La Chicharra pits.

EXPLANATION (14) 1 Main Gate 2 Water Well #1 3 ADR Plant 1 4 Exploration Office TOWN OLD LEACH PAD 5 Operation Office 6 ADR Plant 2 (15) 7 Fresh Water Tanks (13) 8 Fine Crushing Circuit (26) (25) 9 Crushing Circuit 10 Water Well #3 3'358,000 11 Water Well #4 12 Water Well #2 (20) 13 "Ground of the low grade stockpile (18) 14 Leach Pads 15 Leach Pads 16 La Chicharra Pit (19) (21) 17 San Francisco Pit 18 La Chicharra Waste Dump 19 La Chicharra Waste **Dump Project** 20 San Francisco West Waste Dump 21 San Francisco West (22) (23) Waste Dump Project 22 San Francisco South-West Waste Dump Project 23 San Francisco South Waste Dump 24 Ponds meters 25 New crushing facilities Datum NAD27 26 La Chicharra NW Pit 3'356,000 27 La Chicharra North Pit 489,000

Figure 16.16 San Francisco and La Chicharra Final Pit Designs, Dumps and Low Grade Stockpile Layout





In addition to the open pit, Alio previously conducted an investigation into whether or not it is economical to conduct limited underground mining beneath the southern pit wall of the San Francisco pit. In 2015, Alio conducted limited underground drifting to expose the mineralized lenses outlined in preliminary drilling. In September, 2015, Alio ceased the underground drifting after exposing the mineralization along two lenses. Alio was contemplating further drilling to define the extent of the mineralization exposed in the workings and also to assist it in deciding the best underground mining method, should it proceed with mining these lenses.

In the latest open pit design, the mineral resources previously identified to be mineable via underground mining methods will be recovered by conducting a pushback of the pit wall in the southern direction towards the waste dumps. This pushback constituted a fifth phase of mining at the San Francisco pit.

16.2.5 Waste Rock Management

Existing waste rock dumps are located to the south of the San Francisco open pit, close to the pit rim and cannot be extended to the north. They are also limited to the east by a property boundary and to the west by the natural hills. Accordingly, the existing dumps will be extended further south, where adequate space does exist. Previously, with the expansion of the reserves, additional waste dump volume was required and a site located northwest of the pit was identified that would contain the majority of waste rock produced during the mine life. A condemnation drilling program was conducted and waste is currently being dumped in this area.

16.2.6 Mine Operations

All mining activities were conducted by the contractor, Peal Mexico, S.A. de C.V., of Navojoa, Mexico. The contractor is obliged to supply and maintain the appropriate principal and auxiliary mining equipment and personnel required to produce the tonnage mandated by Alio, in accordance with the mining plan. Table 16.3 is summary of the contractor's mining equipment in place when the open pits were in operation.

Alio provides contract supervision, geology, engineering and planning and survey services, using its own employees.

Further discussions related to the mining contract are included in Section 19.0.



Table 16.3 Contractor's Mining Equipment List when the Open Pits were in Operation to the End of 2018

Brand	Model	Quantity	Type
CATERPILLAR	777F	14	Trucks
KOMATSU	785	9	Trucks
KENWORTH	T300	1	Auxiliary
CATERPILLAR	D10T	1	Dozer
CATERPILLAR	D8T	3	Dozer
INGRESOLL	2475	3	Auxiliary
INGRESOLL	Power Generator	3	Auxiliary
CATERPILLAR	775B	3	Water truck
CATERPILLAR	834G	2	Dozer
CATERPILLAR	16M	2	Grader
CATERPILLAR	CS583	1	Pipe Layer
CATERPILLAR	993K	2	Loader
KOMATSU	PC2000	3	Shovel
KOMATSU	1250	1	Shovel
ATLAS COPCO	DML	2	Drilling
ATLAS COPCO	DM45	7	Drilling
SANDVIK	1500	1	Drilling
ATLAS COPCO	Roc L6	1	Drilling
CATERPILLAR	535	1	Roller

Table provided by Alio Gold Inc.

The contractor naturally reduced the amount of equipment when material from the stockpiles were being placed on the heaps during 2019. The list of equipment in Table 16.3 will be most likely required if Magna restarts the pit operations.

16.2.6.1 Some Relavent Extracts from Alio Press Releases Related to San Francisco Operations

November 9, 2017 Press Release "Alio Gold Provides Third Quarter 2017 Update"

"The Revitalization Plan announced during the second quarter which includes a significant pre-stripping campaign, modifying the crusher and upgrading the power infrastructure continued to advance during the third quarter. The pre-stripping campaign envisions moving approximately 22 million tonnes of waste from the San Francisco Main pit and the La Chicharra pit over the next 20 months. Pre-stripping of Phase 6 of the San Francisco Main pit commenced in July 2017 and a second contractor mobilized a team in October 2017 to undertake pre-stripping Phase 2 of the La Chicharra pit. During the quarter, significant stripping to fully access Phase 5 occurred that will be the primary ore source for Q4 and the first half of 2018. The main ore zone in Phase 5 was not accessed until the first week in November, approximately 3 months behind plan."



"The crusher improvement project is advancing with the decision to add a high pressure grinding role ('HPGR') to the circuit. The scope of the project has been determined and a purchase order to initiate the logistics for the fabrication of the HPGR was signed. It is expected that the HPGR would be fully operational in late 2018. The crushing circuit modifications are expected to improve gold recovery and increase reliability."

"The update to the power infrastructure is underway and the power substation has been ordered and is scheduled to be at site by the end of Q2 2018. The detailed engineering and permitting is also underway. The power upgrade will eliminate the use of diesel generated power at the mine site, reducing operating costs."

While the equipment for the new power substation is on site, Magna has noted that Alio did not complete the installation of the substation.

January 30, 2018 Press Release "Alio Gold Provides 2018 Guidence For San Francisco Mine"

"In 2017 we undertook a significant waste stripping campaign to open up the main pit. As a result, we now have increased mining flexibility and the ability to deliver consistent ore feed to the leach pads."

"Additionally, we have implemented a dual cut-off strategy in the mining operations. The strategy involves trucking lower grade run-of-mine ore to old heap leach pads while higher cut off grade material will be fed to the crusher. Subsequently, the waste stripping expansionary capital contemplated in the revitalization plan will now be included within AISC."

Figure 16.17 shows the leach pads with the run-of-mine (ROM) material being placed.

April 11, 2018 Press Release "Alio Gold Provides First Quarter 2018 Production From San Francisco With Management and Transaction Updates"

"We anticipated the first quarter to be our lowest production quarter of the year as we implemented our dual cut-off strategy at San Francisco. With the run of mine ore only placed under leach towards the end of January, we did not see ounces draining from the pad until March," said Greg McCunn, Chief Executive Officer. "Further, we still have not yet seen the impact of increased cut-off grade to the crusher feed and the average grade fed to the crusher of 0.42 g/t gold was below expectations. As our operating processes with this relatively new strategy improve, we maintain our full-year guidance of between 90,000 and 100,000 ounces of gold at all-in sustaining costs of between \$1,000 and \$1,100 per ounce."



Figure 16.17
Leach Pads with ROM Material Being Placed on the Pads



Figure supplied by Magna Gold Corp. March, 2020.

May 9, 2018 Press Release "Alio Gold Reports First Quarter 2018 Results"

"The Mine produced 17,624 gold ounces and 8,997 silver ounces compared to 26,048 gold ounces and 11,899 silver ounces during Q1 2017. The decrease was a result of lower grade. Mining was primarily from the upper level of Phase 5 of the San Francisco pit which has slower leach kinetics, in addition the impact of the increased cut-off grade to the crusher feed has not yet materialized and the average grade fed to the crusher of 0.42 g/t gold was below expectations. Underreconciliation and higher than anticipated dilution was seen during Q1 which is primarily as a result of being at the perimeter of the main ore body and is anticipated to reverse when the active benches mined are in the heart of the orebody in the second quarter. The blasting improvement strategy which has been underway since December 2017 will continue to be monitored closely over the next two quarters to ensure it is not contributing to the under-reconciliation and dilution within the mine plan."

August 10, 2018 Press Release "Alio Gold Reports Second Quarter 2018 Results"

"At the San Francisco Mine we are negotiating with our mining contractor to slow down the waste stripping on Phases 6 and 7 and reduce the mining rate to focus on generating cash flow in the current gold price environment."



"The dual cut-off strategy deployed in January 2018 to increase the grade of crusher feed ore has not been successful as crusher feed grade in Q2 2018 was 0.46 g/t compared to a plan of 0.59 g/t. The underperformance of gold grade is due to higher than expected levels of dilution which may partly be attributable to increased blast movement due to finer blasting, as well as to ore control modeling. In May 2018, an updated resource model was prepared for San Francisco as well as refined ore control modelling techniques. In June and July 2018, crusher feed is tracking closely to grades predicted by the new ore control model. The Company has initiated a full technical review of the pit operations at San Francisco and expects to refine its operations over the remainder of the year."

"While the technical review is underway, the Company has developed an interim mine plan which reduces capital stripping and focuses mining on more profitable ounces to maintain cash neutral operations. The interim mine plan is subject to negotiations with the mining contractor. As a result of the reduced capital stripping, access to ore will be limited during the second half of the year and production guidance of 90,000 to 100,000 ounces of gold for 2018 will not be met."

"The Mineral Reserve estimate at San Francisco from April 1, 2017 was updated as of July 1, 2018 utilizing the latest available information, including mining depletion over the period and in-fill and grade-control drilling carried out as part of the mining operations during the period. Mining depletion of Mineral Reserves was partly offset by expansion of the reserves in Phases 6 through 9 of the San Francisco Pit."

November 08, 2018 Press Release "Alio Gold Reports Third Quarter 2018 Results"

"In July 2017, the Company initiated a significant push-back of the main San Francisco pit. Approximately 50% of the waste stripping campaign that was envisioned to be required in the May 2017 technical report was completed as at September 30, 2018. The final stages of the push-back require mining Phases 6, 7 and 8 of the San Francisco pit in order to access the main ore body in Phase 9. Mineralization in Phases 6, 7 and 8 occur in more narrow, discontinuous zones which are more difficult to mine without dilution of the ore with the associated waste."

"A full technical review of the mining operations commenced in September 2018 and has identified a number of opportunities to reduce mining dilution, including:

- Optimizing the mine planning to align dig plans with the geological structure;
- *Splitting mining of ore benches; and,*
- Monitoring movement during blasting."

"While the technical review is underway, the Company developed an interim mine plan which was agreed to by the mining contractor on a temporary basis until the



end of December 2018 with an option to extend until the end of February 2019. The Company is investigating a number of mine planning options for 2019 which include:

- Increasing mining rates back to 90,000 to 100,000 tonnes per day if dilution can be effectively controlled in order to complete the pit push-back by the end of 2019;
- Reducing mining rates in the San Francisco pit and deferring stripping until an improved gold price environment;
- Bringing forward mining operations in the La Chicharra pit; or
- Suspending mining temporarily while continuing leaching and processing low grade ore from stockpiles."

January 15, 2019 Press Release "Alio Gold Provides 2018 Gold Production"

"At San Francisco fourth quarter gold production was 10,292 ounces and full year production was 53,990 ounces. Following a full technical review of the operations that commenced in September 2018 progress was made on reducing the dilution that was occurring in the more narrow, discontinuous zones of Phases 6, 7 and 8 of the San Francisco pit. Further engineering work is ongoing to optimize the life of mine plan, in particular to bring forward the satellite La Chicharra pit. While this work is ongoing, the mine has begun processing low grade stockpile material through the crushing circuit and has stopped mining in the San Francisco pit. There are sufficient stockpiles to operate at full capacity throughout 2019 (as at July 1, 2018, the low-grade stockpile consisted of approximately 7.2 million tonnes of 0.26 g/t gold material (60,200 contained ounces). Gold production at San Francisco is expected to remain consistent with current production levels for at least the first half of 2019."

February 12, 2019 Press Release "Alio Gold Files Technical Report and Provides San Francisco Update"

"At San Francisco, the previously announced processing of low-grade stockpile material through the crushing circuit is working well. In January, approximately 528,770 tonnes of stockpile grading 0.306 g/t gold were stacked on the leach pads. Gold production for the month of January was consistent with Q4 production at approximately 3,890 ounces1. There are sufficient stockpiles to operate at this capacity throughout 2019 and the Company is continuing to develop an engineered plan for recommencing mining activities."

"As part of the engineered plan and consistent with the Company's need to minimize costs at San Francisco, negotiations with the mining contractor, Peal Mexico SA de CV ("Peal"), continued in January with the objective of obtaining a cost structure that was more in-line with benchmark mining costs for the region.



Peal has notified the Company that it is seeking to terminate the contract and seeking compensation for amounts owing under the contract as well as additional amounts for cancellation of the contract that the Company believes have no basis. Peal continues to operate on the San Francisco site, moving low grade stockpile material, and the Company is continuing to discuss these matters with the contractor. In the event that discussions do not resolve the matter, the Company will vigorously defend its position."

March 13, 2019 Press Release "Alio Gold Reports Fourth Quarter and Full-Year 2018 Results"

"A full technical review of the mining operations that commenced in September 2018 identified a number of opportunities to reduce mining dilution. These included:

- Optimizing the mine planning to align dig plans with the geological structure;
- Split mining of ore benches; and
- Monitoring movement during blasting."

"However, the San Francisco pit did not meet planned ore production rates at an acceptable strip ratio in the upper levels of the planned pit laybacks. As a result, in January 2019 the Company made the decision to stop active mining in the San Francisco pit and only process low grade stockpile material through the crushers while investigating a number of mine planning options. These options were investigated and included:

- Resume mining at 90,000 to 100,000 tonnes per day with ore feed from both the San Francisco and La Chicharra pits;
- Possible enhancements to the comminution circuit to improve gold recovery; and
- Rationalizing and optimizing the ore yield with mining rates."

"While these options were economic the Company does not have the ability to fund the capital required for the various options. As a result the decision has been made to continue leaching and processing low grade ore from the stockpiles until the end of the year at which time the stockpiles are expected to be depleted. Following the depletion of the stockpiles the operation will go into residual leach."

May 08, 2019 Press Release "Alio Gold Reports First Quarter 2019 Results"

"In January 2019, the Company made the decision to stop active mining in the San Francisco pit and focus on processing the low grade stockpile, as a result of the San Francisco pit not meeting planned ore production rates at an acceptable strip ratio in the upper levels of the planned pit laybacks. The Company investigated a



number of mine planning options to potentially restart active mining however, while the options were economic the Company does not have the ability to fund the capital required for the various options. As a result the decision was made to continue leaching and processing low grade ore from the stockpiles until the end of the year at which time the stockpiles are expected to be depleted. Following the depletion of the stockpiles the operation will go into residual leach."

November 06, 2019 Press Release "Alio Gold Reports Third Quarter 2019 Results"

"During the quarter, operations at the San Francisco Mine continued with processing of low grade stock piles resulting in the placement of 12,809 ounces onto the pad. The Company anticipates the low grade stock will be exhausted during Q4 2019 after which crushing will cease and operations will solely focus on recovery of the residual inventory ounces."

"Cash flow from operations from the quarter were used to service dated accounts payable."

"The Company is currently exploring value-maximizing alternatives for the operation."

Figure 16.18 shows the site of the low grade stockpile (in the foreground) and the remaining material in it as of March, 2020.

Figure 16.18
Site of the Low-grade Stockpile (In the Foreground) and the Remaining Material on it as of March 2020



Figure supplied by Magna Gold Corp. March, 2020.

March 06, 2020 Press Release "Alio Gold Announces Sale of San Francisco Mine"

"Alio Gold Inc. (TSX, NYSE AMERICAN: ALO) ("Alio Gold" or the "Company"), announces that it has entered into a definitive share purchase agreement (the "Agreement") to sell its wholly-owned subsidiary, Molimentales del Noroeste S.A.



de C.V. ("Molimentales"), which owns a 100% interest in the San Francisco Mine ("San Francisco" or the "Mine") and the surrounding mineral concessions to Magna Gold Corp. (TSXV: MGR, OTCQB: MGLQF) ("Magna") (the "Transaction"). Under the terms of the Agreement, Alio Gold will receive 9,740,000 shares of Magna upon closing of the Transaction, representing approximately 19.9% of the issued and outstanding shares of Magna, and an additional \$5 million in cash within twelve months of closing of the Transaction. Alio Gold and Magna expect the Transaction to close in March 2020."



17.0 RECOVERY METHODS

The information for this Section was extracted from the May 25, 2017, Technical Report, with updated information to cover the period since that report was written.

Magna has not conducted mining or processing at the Project and will be reviewing the previous mining and processing operations once it has completed its acquisition.

17.1 PROCESSING DESCRIPTION

17.1.1 Crushing and Conveying

Ore extracted from the pit is transported in 100 t capacity haulage trucks and fed directly into the gyratory primary crusher with dimensions of 42×65 inches. The primary crusher has a nominal capacity of 900 t/h. The crushed product is then transported on conveyor belts to a coarse ore stockpile with a capacity of 6,000 t.

Two feeders beneath the coarse ore stockpile deliver the material to a conveyor belt for transport to the secondary crushing circuit. The ore is screened at 9.52 mm (3/8 inch). Screen undersize reports to the final product, while screen oversize is fed to two secondary crushers.

Product from the secondary crushers is transported on conveyor belts to the tertiary crushing circuit, which comprises three parallel tertiary crushers operating in closed circuit with screens. The minus 9.52 mm undersize from the screens is delivered to the leach pad. This crushing circuit had a nominal capacity to deliver 16,000 t/d of crushed material to the leach pads, but typically operated at 15,000 t/d.

By August, 2013, Alio had installed a new crushing circuit with a capacity for processing an additional 7,000 t/d. This circuit comprises one jaw primary crusher, two secondary crushers, three tertiary crushers, screens and conveyors.

The current crushing operating rate is 22,000 t/d. At the time of writing the 2017 Technical Report, Alio did not have any additional plans to increase throughput of the crushing and conveying systems for the San Francisco Mine.

17.1.2 Leaching

Product from the crushing plant is transported to the leach pad on overland conveyors and deposited on the pad with a stacker, forming 8 m to 12 m high lifts. A bulldozer is used to level the surface of each lift. The irrigation pipelines are then installed to distribute the leach solution over the entire surface of the lift. The design primary leach time is reported to be 180 days although in practice this can be extended when leaching a lift placed above the original placed material.



Alio has constructed the leach pads and has 6 different phases for depositing, based on the permits granted by the Mexican Environmental Agency (PROFEPA, Procuraduría Federal de Protección al Ambiente). Table 17.1 summarizes the leach pad phases based upon the permits acquired. Figure 7.1 is a photograph of the heap leach pads, as viewed from the road to the La Chicharra pit with, Phase 6 under construction in the foreground during the 2017 Micon site visit.

The leach solution consists of 0.05% sodium cyanide with lime addition to obtain a pH of 10.5 to 11. The solution percolates to the bottom of the lift and flows to the channel that carries the solution to the pregnant solution storage pond, from which it is pumped to the adsorption, desorption and recovery (ADR) plants.

Barren solution exiting the ADR plants flows to the barren solution storage pond where fresh water and sodium cyanide are added, before being pumped back to the leach pad.

17.1.3 Adsorption/Desorption/Recovery (ADR) Plants

Pregnant leach solution is fed to the first adsorption plant which consists of 2 parallel lines of carbon columns, each with 5 tanks in series, through which the carbon is advanced counter-currently to the solution flow. One line of columns contains approximately 2.0 t of carbon and the other 2.5 t. Gold is adsorbed on the carbon to a concentration of approximately 5,000 g/t. Desorption of the carbon is achieved in a Zadra type elution circuit. Gold is recovered by an electrowinning circuit comprising stainless steel electrodes in a stainless steel electrolytic cell. The stainless steel cell and cathodes are relatively new and replace the original polypropylene cell with steel wool cathodes. The use of stainless cathodes is more efficient, as it eliminates the smelting of substantial quantities of steel wool, which requires substantially more flux and can lead to inferior grade doré.

Installation of a new line of carbon columns (second ADR plant) with 5 tanks containing approximately 6 t of carbon, and a design flow of 3,500 USGM (805 m³/h), was completed in August, 2011, to increase the production capacity.

Figure 7.2 is a view of the second ADR plant taken during the May, 2017 Micon site visit.



Table 17.1 Summary of the Leach Pad Phases Based Upon the Permits Acquired for the San Francisco Mine

# Phase	Duration	Surface	Nominal Capacity	Capacity to date	Status
1 & 2	November, 2009 to November, 2013	36 ha	26 Mt	25 Mt	Releached
3	November, 2013 to August, 2015	25 ha	18 Mt	18 Mt	On Irrigation
4	August, 2015 to October, 2016	16 ha	12 Mt	12 Mt	On Irrigation
5	October, 2016 to June, 2017	12 ha	9 Mt	7 Mt	On Irrigation
6	June, 2017 to September, 2018	17 ha	12 Mt	5 Mt	On Irrigation
Total			76.56 Mt	66.31 Mt	

Table provided by Alio Gold Inc.

Figure 17.1 Heap Leach Pads as Viewed from the Road to the La Chicharra Pit with Phase 6 Under Construction in the Foreground



Panoramic photograph taken during the May, 2017 Micon site visit.



Figure 17.2 View of the Second ADR Plant



Photograph taken during the May, 2017 Micon site visit.

A new stripping circuit with a capacity of 5.5 t of carbon has been added to the process. In March, 2017, this new circuit started full operations. The target was to improve the stripping efficiency to an average of 95%.

In March, 2017, Alio initiated a process to separate the drainage solution from old leach pads (Phases 1 and 2) to a parallel intermediate solution process which continually recirculates this drained solution until it is enriched enough to process (minimum average solution grade of 0.13 ppm Au). Additional equipment and piping was added in order to process the 8,000 m³/d recirculated from the old leach pads.

An additional carbon tank with a capacity of 6 t of activated carbon (similar at the existing ones in ADR Plant #2) for capturing the gold from the old phases was added to the circuit.

17.1.4 Process Plant Layout

Figure 17.3 to Figure 17.8 show the fine crushing circuit, the new crushing circuit, plan view of the crushing circuit, view of the crushing circuit from the San Francisco pit lookout, solution balance and the overall gold recovery circuit flowsheet. Figure 17.7 includes the additional tank built (May, 2017) to capture the gold that comes from the old leach pads (Phases 1 and 2). Figure 17.8 includes the increased the stripping capacity of 8 t of carbon per day instead of 6 t per day previously.

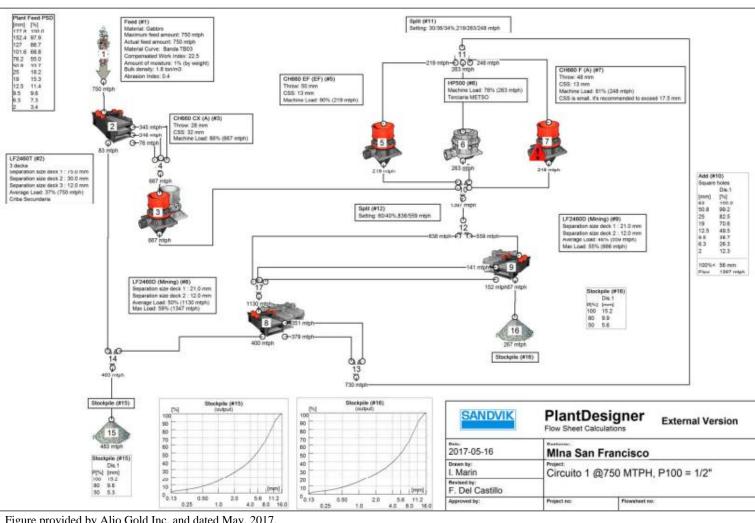


Figure 17.3 Fine Crushing Circuit Actual Flowsheet (at 80% passing 9.5 mm)

Figure provided by Alio Gold Inc. and dated May, 2017.



Alimentación de TBD-01 Producto de Quebradora de Quijada SD 2.85 t/m3 Cr 39 % Abr 1227 g/t Gabbro ~Quebradora Terciaria 3 Sandvik CHSS0 C-CX / M-Flex Meed FS 403 ~Quebradora Secundaria (5) #25 mm #19 mm Sandvik CH660 C-CX / M-A1 #12 mm Criba Terciaria 3 ~FS 403 **(7**) #30 mm #19 mm #12 mm Cribas Terciarias 1 y 2 10 HP400 HP400 sh medium 3 sh medium Quebradoras Terciarias 1 y 2 (6)

Figure 17.4
New Crushing Circuit Actual Diagram (80% passing 9.5 mm)

Figure provided by Alio Gold Inc. and dated May, 2017.



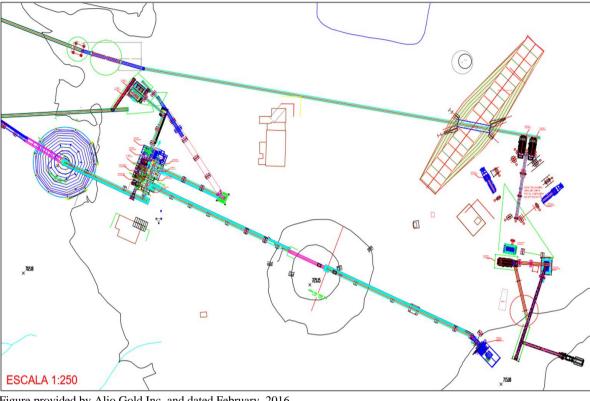


Figure 17.5
Plan View of the Current Crushing Facilities¹

Figure provided by Alio Gold Inc. and dated February, 2016.

Note 1: Drawing not to scale and North direction is toward the top of the figure.

Figure 17.6
View of the Crushing Facilities and Heap Leach Pads as Seen from the Lookout at the San Francisco Pit (Zoom Lens)



Panoramic zoom lens photograph taken during the May, 2017 Micon site visit.



Heap Leach Circuit Showing Proposed Solution Balance (22,000tpd)

40,000 m3d4

40,000 m3d4

40,000 m3d4

FRAIN

7,151 m3d4

FRAIN

32,0 m3d4

FRAIN

32,0 m3d4

FRAIN

SOLUTION

POND

ALD m3d4

FRAIN

SOLUTION

POND

ALD m3d4

ALD m3d4

FRAIN

SOLUTION

POND

ALD m3d4

ALD m3d

Figure 17.7 Heap Leach Circuit Showing the Solution Balance

Figure provided by Alio Gold Inc. and dated May, 2017.

CARBON (6 x 12) 8 Ton/Dia NaCN (200 ppm) BARREN SOLUTION 8 Ton/Dia PREGNANT SOLUTION 800 Kg/Dia RECTIFIERS NaCN (200 ppm) NaCN 500 Kg/Dia RAW WATER 111 CARBON FROM ACID WASH ACID HCI WASH al 3% 350 Litros/Dia SOLUTION WASH CATHODE REFINERY PRECIPITED XAlio Gold FILTER SAN FRANCISCO MINE

Figure 17.8
Overall Gold Recovery Circuit (ADR) Flowsheet

Figure provided by Alio Gold Inc. and dated May, 2017.



Figure 17.9 and Figure 17.10 shows the upgrade to crushing circuit 1 and the redesign to crushing circuit 2, so that 100% of the material can be crushed to finer than 9.5 mm.

| First Face | First |

Figure 17.9 Crushing Circuit 1 Proposed Upgrade - Flowsheet (100% passing 9.5 mm)

Figure provided by Alio Gold Inc. and dated May, 2017.

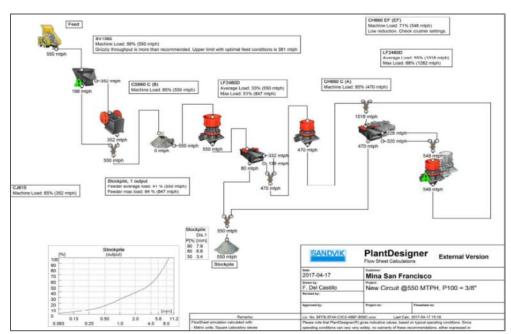


Figure 17.10
Crushing Circuit 2 Proposed Redesign – Flowsheet (100% passing 9.5 mm)

Figure provided by Alio Gold Inc. and dated May, 2017.



17.1.5 Manpower

The process plant manpower is summarized in Table 17.2.

Table 17.2

Manpower at the San Francisco Mine Process Plant and Associated Facilities

Department	Description	Quantity
ADD plant	Superintendent / Supervisor	7
ADR plant	Hourly personnel	36
Leach	Superintendent / Supervisor	3
Leach	Hourly personnel	14
Couching	Superintendent / Supervisor	9
Crushing	Hourly personnel	56
Laboratom	Superintendent / Supervisor	9
Laboratory	Hourly personnel	23
TOTAL		157

Table provided by Alio Gold Inc.

It should be noted that the operation is in the residual leach stage currently and therefore the normal operating manpower noted in Table 17.2 has been greatly reduced.

17.1.6 Consumables and Maintenance

The typical average usage rates and costs of process reagents are summarized in Table 17.3.

Table 17.3
San Francisco Process Reagents (Consumables) Usage Rates and Costs

Reagents	Consumption (Unit/tonne)	Annual Cons (Unit/year)	Unit Cost (USD)	Annual Cost (USD)
Antiscalent	0.018 L	133,992 L	\$2.30	308,032
Sodium Cyanide	0.462 kg	3,371 t	\$2.45	8,259,949
Caustic Soda	0.141 kg	1,032 t	\$0.46	477,583
Lime	1.756 kg	12,816 t	\$0.17	2,148,397
Carbon	0.010 kg	72 t	\$4.50	325,730
Hydrochloric Acid	0.016 kg	114 t	\$0.31	35,087
Propane	0.097 L	711,068 L	\$0.48	337,906
Total cost				11,892,684
Total cost per tonne				\$1.63

Table provided by Alio Gold Inc.



18.0 PROJECT INFRASTRUCTURE

The information for this Section was extracted from the May 25, 2017, Technical Report, with updated information to cover the period since that report was written.

18.1 ADMINISTRATION, ENGINEERING AND EXISTING INFRASTRUCTURE

Figure 18.1 shows the 2016 San Francisco Mine site layout, with the current operations and the pit, leach pads, waste storage expansion, the low grade ore stockpile and the area around the La Chicharra pit.

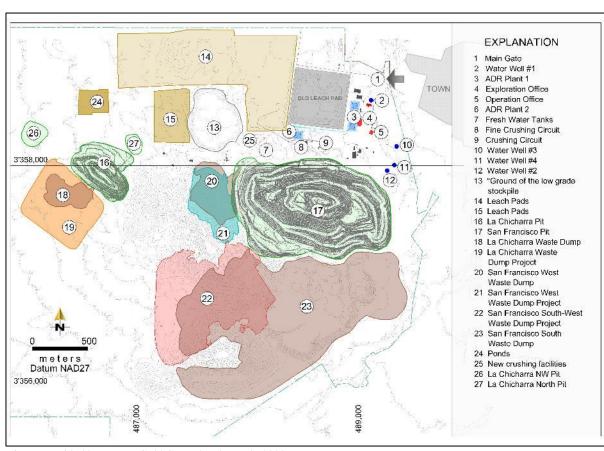


Figure 18.1 2016 General Site Layout

Figure provided by Magna Gold Corp. dated March, 2020.

18.1.1 Manpower Organization

The total manpower at the San Francisco Mine is shown in Table 18.1, excluding the mine contract personnel and with both open pits in production. The numbers do not reflect the current operations which are in the residual leach stage. If Magna decides to resume full



operations, after its review, the total manpower will once again reflect the number found in Table 18.1.

Table 18.1 Total Manpower for the San Francisco Mine

Department	Description	Quantity
ADR Plant	Superintendent/Supervisor	7
ADR Flain	Hourly Personnel	36
Land	Superintendent/Supervisor	3
Leach	Hourly Personnel	14
Crushing (incl. Mec Maint.)	Superintendent/Supervisor	9
	Hourly Personnel	56
Warehouse	Supervisor	1
	Hourly Personnel	5
T 1 (*	Superintendent/Supervisor	0
Exploration	Hourly Personnel	0
Discotion	General Manager	1
Direction	Superintendent/Supervisor	4
Caalaav	Superintendent/Supervisor	3
Geology	Hourly Personnel	13
Mine	Superintendent/Supervisor	3
Mine	Hourly Personnel	1
Enginessine	Superintendent/Supervisor	3
Engineering	Hourly Personnel	3
I also water wa	Superintendent/Supervisor	9
Laboratory	Hourly Personnel	23
Matallanasa	Superintendent/Supervisor	3
Metallurgy	Hourly Personnel	6
Electrical Maintenance	Superintendent/Supervisor	4
Electrical Maintenance	Hourly Personnel	13
Administrative/Accounting	Superintendent	1
	Supervisor/Assistant	4
D 1 '	Superintendent	2
Purchasing	Supervisor/Assistant	2
Human Resources	Superintendent/Supervisor	1
	Hourly Personnel	5
Sofatry and Environment	Superintendent/Supervisor	9
Safety and Environment	Hourly Personnel	2
TOTAL		246

Table provided by Alio Gold Inc. in May, 2017.

18.1.2 Offices, Workshops and Stores

Office space is provided in a structure of approximately 450 m², located on the property, southeast of the ADR plant. The building has adequate working space for the on-site mine administration and also provides basic catering and ablution facilities.



A vehicle workshop, south of the ADR plant and north of the open pit, occupies more than 660 m² and is available for maintenance of the off-road haul trucks, excavators and ancillary vehicles used in the open pit mining operation.

A general warehouse of approximately 200 m², located north of the ADR plant, accommodates process reagents and mechanical spares. Bulk lime for the heap leach process is stored in a silo near the crushing plant.

A new building was completed in December, 2010, to house the exploration offices. This office space is approximately 150 m², and provides adequate working space and basic ablution facilities. It is located east of the original ADR plant.

A 1,500 m² core and sample storage facility (Figure 18.2, Figure 18.3 and Figure 18.4), north of the ADR plant, was completed in 2013. This facility provides permanent and secure storage for both the diamond drill core and pulp samples, as well as hosting the new sample preparation facilities for the exploration department. The rear half of the building is currently being used as a secure storage facility for reagents used in the ADR plants.

A 1,500 m² general warehouse expansion, located north of the ADR plant, was completed in January, 2014. The facility accommodates mechanical spares and other consumables.



Figure 18.2 Exploration Sample Storage and Preparation Facility

Photograph taken during 2017 Micon site visit.



Figure 18.3
Core Stored in the Exploration Sample Storage and Preparation Facility



Figure 18.4
Pulp Samples Stored in the Exploration Sample Storage and Preparation Facility





18.1.3 Electrical Power Supply

Electrical power supply to the mine is delivered through a 33 kV overhead line from the utility company, Comisión Federal de Electricidad (CFE). From the main metering point, the power is distributed to the crushing and screening plant and other site infrastructure at 480/220/110 V. However, power for the new crushing circuit is supplied by diesel generators with approximately 2 MW of capacity. At the crushing and screening plant, separate transformers feed the principal equipment. Installed transformer capacity is summarized in Table 18.2.

Table 18.2 Summary of the Installed Transformer Capacity

Area of Transformer	KVA
Primary Crushing (Gyratory Crusher)	1,000
Fine Crushing Circuit	3,000
New Crushing Circuit	1,500
Overland & grasshoppers conveyors	5,500
Leach solution ponds	1,500
Pumping Substation	2,500
ADR Plant	1,000
Assay & Met Laboratory	300
Exploration Assay Laboratory	500
Main office	75
Exploration office	45
Water well #1	75
Water well #2	45
Water well #3	150
Water well #4	225
Overall lighting	50
Mining contractor office	75
Mining contractor workshop	75
Mechanical maintenance workshop	75
Washer truck area	75
Geology warehouse	75
Liquid cyanide facility	30
Maintenance contractor office (Inpromine)	150
Main warehouse	15
Total	18,035

Table provided by Alio Gold Inc.

The electrical power supply is sufficient for the full production rate of 22,000 t/d of ore, with some spare capacity.

18.1.4 Water Supply

At full production capacity, the demand of fresh water is $3,296 \text{ m}^3/\text{d}$, of which $1,841 \text{ m}^3/\text{d}$ are for the leach area and ADR plants, $988 \text{ m}^3/\text{d}$ for the irrigation of the roads inside both pits, $136 \text{ m}^3/\text{d}$ for crushing and offices, $58 \text{ m}^3/\text{d}$ for the mining contractor office and workshop and $273 \text{ m}^3/\text{d}$ for the irrigation of community roads.



Comisión Nacional del Agua (CONAGUA) has authorized 4 concession titles to exploit and use national water for a grand total of 1,900,000 m³/year. Alio has built and commissioned 4 water wells, each one with the following capacity:

- Water well #1: 300,000 m³/year.
- Water well #2: 300,000 m³/year.
- Water well #3: 400,000 m³/year.
- Water well #4: 900,000 m³/year.

All fresh water is conducted through pipelines and distributed to each point of usage, as shown in Figure 18.5.

SOUTH THE STATE OF
Figure 18.5
Fresh Water Distribution Network at the San Francisco Mine

Figure provided by Alio Gold Inc. and dated September, 2016.

A new water tank and a pressure pump were installed to comply with regulation NOM–002–STPS of the Secretaría del Trabajo y Previsión Social (STPS) regarding the prevention of and protection against fire in the workplace, which states that water pressure for fire control should be at least 7 kg/cm².



19.0 MARKET STUDIES AND CONTRACTS

The information for this Section was extracted from the May 25, 2017, Technical Report, with updated information to cover the period since that report was written, if avalible. Upon completion of its acquisition of the San Francisco Project, Magna will conduct a review of the contracts and complete any discussions it has had with the various contractors which may have occurred as part of the acquisition process.

Gold doré is produced at the San Francisco Mine which is further refined and readily sold on the world market at prices that are usually fixed by the London Metal Exchange (LME)

19.1 MARKET AND MARKET STUDIES

Gold is a metal that is traded on world markets, with benchmark prices generally based on the London market (London fix). Gold has two principal uses: product fabrication and bullion investment. Fabricated gold has a wide variety of end uses, including jewellery (the largest fabrication use), electronics, dentistry, industrial and decorative uses, medals, medallions and official coins. Gold bullion is held primarily as a store of value and as a safeguard against the depreciation of paper assets denominated in fiat currencies. Due to the size of the bullion market and the above-ground inventory of bullion, Alio's activities will not influence gold prices. The doré produced by Alio at its mines is further refined by third parties before being sold as bullion (99.99% pure gold). To a large extent, gold bullion is sold at the spot price.

Table 19.1 summarizes the high and low average annual London PM gold and silver price per ounce from 2000 to March 20, 2020.

Table 19.1
Average Annual High and Low London PM Fix for Gold and Silver from 2000 to March 20, 2020 (prices expressed in USD/oz)

	Gold Price			Silver Price		
Year	High (USD)	Low (USD)	Cumulative Average	High (USD)	Low (USD)	Cumulative Average
2000	312.70	263.80	279.11	5.45	4.57	4.95
2001	278.85	255.95	271.04	4.82	4.07	4.37
2002	349.30	277.75	309.73	4.85	4.20	4.60
2003	416.25	319.90	363.38	5.96	4.37	4.88
2004	454.20	375.00	409.72	7.83	5.49	6.67
2005	536.50	411.10	444.74	9.23	6.39	7.32
2006	725.00	524.75	603.46	14.94	8.83	11.55
2007	841.10	608.30	695.39	15.82	11.67	13.38
2008	1,011.25	712.50	871.96	20.92	8.88	14.99
2009	1,212.50	810.0	972.35	10.51	19.18	14.67
2010	1,421.00	1,058.00	1,224.53	15.14	28.55	20.19
2011	1,895.00	1,319.00	1,571.52	26.68	48.70	35.12
2012	1,791.75	1,540.00	1,668.98	37.23	26.67	31.15
2013	1,693.75	1,192.00	1,411.23	31.11	18.61	23.79
2014	1,385.00	1,142.00	1,266.40	22.05	15.28	19.08
2015	1,295.75	1,049.40	1,160.06	18.23	13.71	15.68
2016	1,366.25	1,077.00	1,250.74	20.71	13.58	17.14
2017	1,346.25	1,151.00	1,257.12	18.21	15.22	17.04



	Gold Price			Silver Price		
Year	High (USD)	Low (USD)	Cumulative Average	High (USD)	Low (USD)	Cumulative Average
2018	1,354.95	1,178.40	1,268.49	17.52	13.97	15.71
2019	1,546.10	1,269.60	1,392.60	19.31	14.38	16.21
2020*	1,683.65	1,474.25	1,580.41	18.78	12.01	17.28

Source: www.kitco.com, London PM Fix – USD.

19.2 MINING CONTRACTS

The mining contract details are reflective of the contract as of the May 25, 2017, Technical Report. This section does not reflect any changes as a result of the open pit operations winding down and the operation only stockpiled material in 2019 or the current state at the mine where the operation is in the residual leach stage.

19.2.1 Contractor Requirements

Under the mining contract dated September 19, 2009, as amended on March 18, 2011, November 1, 2012, April 1, 2013, March 21, 2014, and in February and March, 2015, the contractor's performance of mining operations at the San Francisco Mine includes drilling and blasting, loading and transportation of waste rock and ore, pit drainage, building slopes and roads as needed, scaling of pit walls to design limits, maintenance of equipment, and providing safe and orderly working conditions.

Until the end of 2017, the base contract rate for mining was USD 1.59/t for the first 2.5 Mt mined in a given month, with reduced rates for the incremental tonnage mined in excess of 2.5 Mt, as summarized in Table 19.2. As part of Alio's negotiations with the mining contractor to reduce the operating costs, it has been agreed that there will be a base rate of USD 1.59/t for the San Francisco pit and USD 1.30/t for the La Chicharra pit.

Table 19.2 Contract Mining Rates

Tonnage Range (Mt/y)	Base Rate (USD/t)	Incremental Rate (USD/t)
Monthly tonnage San Francisco pit	1.59	=
Monthly tonnage La Chicharra pit	1.30	-

Other terms of the mining contract include:

- The assumed powder factor is 0.200 kg of ANFO per tonne of rock blasted. The base cost per tonne of material blasted (including items such as explosives, supplies and accessories, drill service for blasting etc.), is USD 0.19/t.
- The drill pattern is 4.5 m by 5.0 m, using 6.5-inch diameter blast hole drills.
- The base cost of diesel fuel is USD 0.52 per litre.
- Design rock densities are ore 2.66 t/m³ and waste 2.77 t/m³.

^{*} Data for 2020 is as of March 20, 2020.



• The work schedule is based on two shifts of 12 hours per day, 360 days per year.

19.2.2 Owner Mining Requirements

Mining engineering and design services are provided by Alio. These services include:

- Obtaining of all permits and licences for mining.
- Mine design and planning, grade control and surveying services.
- Supply of electric power, water and telecommunications.
- Security services, safety plans and personnel and first aid stations.

19.2.3 Alio Dispute with the Mining Contractor

Due to the changes Alio intitiated regarding ceasing production from the open pits at the end of 2018 and only processing stockpiled material, there was a dispute regarding details contained within the the contract with the mining contractor as noted in the following Alio Press Releases:

November 08, 2018 Press Release "Alio Gold Reports Third Quarter 2018 Results"

"While the technical review is underway, the Company developed an interim mine plan which was agreed to by the mining contractor on a temporary basis until the end of December 2018 with an option to extend until the end of February 2019. The Company is investigating a number of mine planning options for 2019 which include:

- Increasing mining rates back to 90,000 to 100,000 tonnes per day if dilution can be effectively controlled in order to complete the pit push-back by the end of 2019;
- Reducing mining rates in the San Francisco pit and deferring stripping until an improved gold price environment;
- Bringing forward mining operations in the La Chicharra pit; or
- Suspending mining temporarily while continuing leaching and processing low grade ore from stockpiles."

February 12, 2019 Press Release "Alio Gold Files Technical Report and Provides San Francisco Update"

"As part of the engineered plan and consistent with the Company's need to minimize costs at San Francisco, negotiations with the mining contractor, Peal Mexico SA de CV ("Peal"), continued in January with the objective of obtaining a cost structure that was more in-line with benchmark mining costs for the region. Peal has notified the Company that it is seeking to terminate the contract and



seeking compensation for amounts owing under the contract as well as additional amounts for cancellation of the contract that the Company believes have no basis. Peal continues to operate on the San Francisco site, moving low grade stockpile material, and the Company is continuing to discuss these matters with the contractor. In the event that discussions do not resolve the matter, the Company will vigorously defend its position."

19.2.4 Magna Discussions with the Mining Contractor

Magna has informed Micon that it has been in discussions with the former mining contractor at the San Francisco site and that its discussions are progressing well and that it hopes to be able to sign a letter of intent to resolve the issues surrounding the dispute once it has acquired the San Francisco Project. If and when the letter of intent is signed, the ongoing legal process initiated by Peal de Mexico against Molimentales will be terminated upon Magna concluding the acquisition process for the San Francisco Project.

19.3 REFINING AND SALES CONTRACTS

19.3.1 Refining Agreement

Alio's subsidiary Molimentales entered into an agreement with Asahi Refining USA Inc. (Asahi) to refine the gold and silver doré bars produced at the San Francisco Mine, at Asahi's Salt Lake City refinery in Utah, USA.

Some of the terms and conditions in the contract are as follows:

- Shipments will consist of no less than 75 kg of material, in the form of doré bars weighing approximately 10 to 25 kg.
- Each shipment will have full and complete documentation to permit importation into the United States.
- The refiner will credit the following percentages of the final agreed assayed gold and silver content of the refined material in each shipment:
 - o 99.925% of the assayed gold content.
 - o 99.00% of the assayed silver content.
- Delivery of the gold and silver components of the recoverable metals from each shipment will be made 5 working days after receipt of the material by the refiner, subject to the assay results being within the splitting limits as set forth in the agreement.
- Treatment charges are USD 0.40 per troy ounce of material received.
- If Alio elects to take an early settlement of the account, Asahi will levy a fee which is calculated according to the terms of the agreement.
- Asahi may charge additional fees for refining or may reject any material containing in excess of the maximum limits of deleterious elements, as defined by the contract.



The first refining agreement between Molimentales and Asahi commenced on December 28, 2009 and remained in effect until December 31, 2011. It was renewed in 2012 and the term was extended until December 31, 2013. Thereafter, the agreement has been automatically renewed for 12 months at a time. The current agreement was signed on December 12, 2016 and covers the period from January 1, 2017 to December 31, 2017 and was extended. Once Magna acquires the Project it intends to continue the contract with Asahi.

19.3.2 Master Purchase Contract and Bill of Sale and Trading Agreement

On June 23, 2010, Molimentales entered into a contract and sale agreement with Auramet Trading, LLC (Auramet), under which it agreed to sell the gold and silver output from the San Francisco Mine to Auramet.

On June 23, 2010, Molimentales also entered into a trading agreement with Auramet, which set forth the terms and conditions that govern non-exchange traded, over-the-counter, spot, forward and option transactions, on a deliverable and non-deliverable basis, involving various metals, energy products and currencies. The trading agreement is part of the Master Purchase Contract and Bill of Sale agreement with Auramet.

19.3.3 Blasting Services

Molimentales had an agreement, valid until October 31, 2017, with DUFIL, S.A. de C.V. (Dufil), to handle the explosives from the warehouse to the pit, to prepare the ANFO, to design the blasting grids and to load the explosives into the holes. The agreement was extended into 2018.



20.0 ENVIRONMENTAL STUDIES, PERMITTING AND SOCIAL OR COMMUNITY IMPACT

The information for this Section was extracted from the May 25, 2017, Technical Report. There have been no material changes to this section since the May, 2017 Technical Report was published.

20.1 DETAILS FROM THE MAY 25, 2017 TECHNICAL REPORT

20.1.1 Environmental Considerations

On March 2, 2012, Molimentales submitted a request to the Secretary for the authorization of an additional land use of 70.00 ha for the Chicharra pit, 160.00 ha for a new waste dump, 100.00 ha for the new leach pads, 8.54 ha for a new crushing circuit and 9.18 ha for a new area in the ADR plant, for the increase in production capacity to 25,000 t/d. The Secretary conditionally authorized the additional land on May 02, 2012.

On July 22, 2013, Molimentales submitted a Technical Justification Study for the Change of Use of Land (Estudio Técnico Justificativo para el Cambio de Uso de Suelo) to the Secretary to grant authorization for 334.75 ha of new land use areas, based upon the inventory of the natural resources to be affected, and an environmental evaluation of the new areas. The Secretary authorized the additional land on October 16, 2013. At that time, the whole mine site was covered by the authorization.

Modifications to the Environmental Licence (Licencia Ambiental Única), authorized on March 17, 2010, were submitted on August 25, 2014, to request the authorization of the Secretary of Environment and Natural Resources to include new equipment and increased production capacity for the operating licence, new inventory and registration of emissions to the atmosphere, new inventory and registration of hazardous waste generation and, also to register modifications to the blasting program. The Secretary conditionally authorized the modifications on October 6, 2014.

Molimentales continues to comply with conditions established by the Secretary of Environment and Natural Resources for all of the previous and newly authorized environmental permits. These conditions include programs for the recovery and relocation of flora, reforestation, recovery and relocation of fauna, monitoring of surface water quality, monitoring of air quality, and hazardous waste management.

Alio was certified in April, 2015 as a "Clean Industry", which is granted by the Federal Attorney of Environmental Protection (PROFEPA). The certification was granted after an environmental audit process at the San Francisco Mine and it was valid for 2 years. Alio was committed to maintaining excellent standards of environmental protection and care in all of its operations.



Magna expects that renewal of the "Clean Industry" certification will be obtained by the fourth quarter of 2020.

20.1.2 Community and Social Considerations

Alio is an active participant in, and supporter of, a number of community activities in Estación Llano and the surrounding communities. These activities range from assisting with health issues, education, athletics, cultural, social service and public works. Between July, 2013 and April 1, 2017, Alio spent approximately USD 989,000 (54.50 million pesos) on community activities

Alio assisted the community with health-related activities, such as donations of medicine and medical supplies for the local health day and to the local health centre.

Alio is continuing with medical seminars, where it provides medical consultations by specialists and medicine free of charge to the local communities. In addition, Alio assists with a number of other health related activities such as:

- Awareness Program "Fight Against Breast Cancer".
- Agreement with the Fire Department of Santa Ana for transfers for patients in the community.
- Management for the certification of the community canteens that are provided by the Secretariat of Health.
- Food assistance to the intern from the medical community, Estación Llano.
- A program to assist people with hearing devices was initiated by Alio, under which Alio provided hearing devices to 10 people in the community.

Alio has assisted educational activities in the community with donations of graduation gifts, cistern construction, school bus repairs and the purchase of trees for the purpose of reforestation in the community. In addition, Alio:

- Continues with the maintenance support for the infrastructure of the kindergarten at Estación Llano; air conditioners for Estación Llano, Ejido El Claro and Santa Ana schools were also provided.
- Equipped a chemistry laboratory in a high school in Santa Ana.
- In coordination with the municipality of Santa Ana, paid for the construction of a roof in a primary school.
- Donated and installed equipment in the Ejido El Claro community for it to be able to have internet service.
- Contributed to equipment for a bus for the Ministry of Education and Culture, for the transportation of students.



- Financed material for the construction of a perimeter fence around the high school in Estación Llano.
- Contributed to universities for the purchase of equipment for the Schools of Geology and Mines.
- Paid for advisers to develop high school open and basic education (ISEA).
- Assisted the local adult community, in coordination with the national employment service and the University of Sonora, in training 25 persons from the community for self-employment.

Alio is continuing to assist the community with financial contributions towards the purchase of athletic equipment and team uniforms, travel expenses for local teams, payment of instructor's fees for summer camps in martial arts, music, art, sports and swimming lessons.

Alio continues to support cultural activities, such as funding for Mother's Day, the Christmas festivities and party for the children of Estación Llano, support for the children's or student's day at the local schools, a water campaign conducted by the city's water agency and payment of teachers for the summer camp.

Financial assistance of social services has included donation of a vehicle and mechanical service for the local Estación Llano police officer, funding training for the Fire Department of the Municipality of Santa Ana in the handling of hazardous materials, sponsoring training of a person for the prevention of drugs and alcoholism program, and ambulance support.

Public works support has included the donation of electrical cables for the local community's water well, playground repair, construction of cattle fencing and payment for road safety signs. Alio also contributed to public works by undertaking the following:

- Continuing support for drinking water services, by assisting with the necessary replacement of the engines and pumps for wells that provide water to the communities of Estación Llano, Ejido San Diego and Benjamin Hill.
- Supporting access to the communal lands by arranging for the construction of roads.
- Building a local municipal canteen for Estación Llano.
- Working with the city of Santa Ana for the approval of a drainage project, which will benefit Estación Llano.
- Conducting the rehabilitation and renovation of the ballpark "Francisco Celaya and Jesus Bracamontes" of Estación Llano.

In addition to the above activities, Alio did:

- Make donations and dispensations of Christmas presents and other materials to benefit the municipalities of Santa Ana, Benjamin Hill and Magdalena.
- Provide dispensations to the public canteens of Benjamin Hill.



- Donate groceries to an orphanage located in Imuris, Sonora.
- Make a donation in accordance with an existing agreement with the State DIF.
- Assist in the organization of festivities in Estación Llano.
- Implementing watering of the streets with greater traffic, to reduce dust contamination.

In 2016, due to its efforts in the area of corporate social responsibility, Alio was awarded for the fifth time with the Company emblem "Socially Responsible" (ESR®), which is granted by the Mexican Centre of the Philanthropy (CEMEFI) and the Alliance for Managerial Social Responsibility in Mexico. This recognition is awarded on an annual basis and recognizes companies that are leaders in setting social responsibility standards.

Alio has also received several other awards, such as:

- In June, 2016, Alio obtained the "Mexico Without Child Labour" award granted by the Ministry of Labour (STPS), This award is given to companies that demonstrate the implementation of policies to prevent and eradicate child labour.
- In December, 2016, Alio obtained the "Inclusive Company" award which is granted by the Ministry of Labour to companies that demonstrate the implementation of policies designed to enhance the employment of members of minority groups.
- Also, in December, 2016, Alio obtained the renewal of the "Family Responsible Company" distinction, which is granted every two years by the ministry of Labour.

Magna will continue to work with and support the local community of Estacion Llano once it has completed its acquisition of the San Francisco Project.



21.0 CAPITAL AND OPERATING COSTS

Magna is in the process acquiring the San Francisco Project and will be assessing potential capital and operating costs for the Project once it has completed the acquisition. The details of Magna's assessment of the capital and operating costs will be noted in future Technical Reports.



22.0 ECONOMIC ANALYSIS

Magna is in the process acquiring the San Francisco Project and will be conducting an economic analysis of reopening the Project once it has completed the acquisition. The details of Magna's economic analysis of the San Francisco Project will be noted in future Technical Reports.



23.0 ADJACENT PROPERTIES

The information for this Section was extracted from the May 25, 2017, Technical Report. There have been no material changes to this Section since the publication of the May 25, 2017 Technical Report.

The San Francisco property exists within the Sierra Madre Occidental metallogenic province and is known to host a number of separate zones or showings of anomalous gold mineralization. There are other metallic mineral deposits in the area, but very little information is available on those properties. There are no immediately adjacent properties which directly affect the interpretation and evaluation of the mineralization or anomalies found at San Francisco. However, the 1995 San Francisco Property Reserve and Resource document by Mine Development Associates of Reno, Nevada, listed a number of exploration possibilities in the immediate area of the mine that are not on the San Francisco property

Among the targets which remain is the bedrock area surrounding the Arroyo La Perra, a placer deposit located approximately 2 km northwest of the San Francisco pit. The 1995 report mentions that seven holes had been drilled in bedrock to that point and that one of the holes intersected 8 m of 1.6 g/t gold at 42.5 m down-hole, while another intersected 18 m of 0.422 g/t gold at 4 m down-hole. Other targets mentioned with fair to good exploration potential for the discovery of significant gold deposits were La Desconocida, Casa de Piedras Oeste and La Trinchera, all of which are located between 2 km to 5 km northwest of the San Francisco pit.

Micon has not verified the information regarding the adjacent mineral deposits and showings described above that are outside the immediate area of the San Francisco and La Chicharra pits. The information contained in this section of the report, which was provided by Alio, is not necessarily indicative of the mineralization at the San Francisco Project.



24.0 OTHER RELEVANT DATA AND INFORMATION

All relevant data and information regarding the San Francisco Project are included in other sections of this Technical Report.

Micon is not aware of any other data that would make a material difference to the quality of this Technical Report or make it more understandable, or without which the report would be incomplete or misleading.



25.0 INTERPRETATION AND CONCLUSIONS

Magna is in the process acquiring the San Francisco Project and will be conducting an assessment of the Project once it has completed the acquisition.

Magna considers that Alio's August 10, 2018 mineral resources and reserves are historical and will review the geological modelling and interpretation of the mineralization as part of its review.

Magna will be also conducting a review of the mining and processing operations, infrastructure, capital and operating costs, as well conducting its own economic analysis of the Project once it has completed the acquisition.

Micon is familiar with the San Francisco Project through its previous work from 2005 until 2017 on the Project. As a result of its previous work, Micon agrees with Magna that an assessment of the Project should be conducted prior to any restart of the operations to define any redundancies and efficiencies that would assist Magna in returning the San Francisco Project to an operating status.



26.0 RECOMMENDATIONS

Magna is in the process of acquiring the San Francisco Project from Alio's subsidiary Timmins. Once Magna has completed the acquisition it will review the underlying operational data as well as the operations themselves in order to deetermine the best direction to potentially re-start the mining in the open pits and overall operations at the Project.

Magna has proposed a budget of approximately USD 1,262,963 in order to conduct the review and studies necessary to recommence mining of the open pits at the San Francisco Project and bring the project back into full production. The details of the proposed budget for the review and studies is summarized in Table 26.1.

Table 26.1 Budget for Review and Studies for the San Francisco Project

Items in Budget	Budget to Restart Operations (USD)	Budget to Restart Operations* (CAD)				
Operational Improvement Plan						
Confirmation Drilling	\$100,000	\$142,857				
Metallurgical Testwork	\$50,000	\$71,429				
Resources and Reserves, Mine Planning	\$50,000	\$71,429				
NI 43101 Tech Report	\$75,000	\$107,143				
Legal and Fees	\$125,000	\$178,571				
Subtotal Operational Improvement Plan	\$400,000	\$571,429				
Cyanide and Reagents Initial Loads						
Cyanide	\$140,000	\$200,000				
Carbon	\$15,000	\$21,429				
Lime	\$80,000	\$114,286				
Subtotal Cyanide and Reagents Initial Load	\$235,000	\$335,714				
Operational Continuity						
General and Administration (G&A)	\$400,000	\$571,429				
Refurbishment of Overland Conveyor Belts	\$68,232	\$97,474				
Screening Modules to Lower Particle Size to Pads (P ₈₀ 7.0 mm)	\$74,731	\$106,759				
Preventive Maintenance on Pumping Substations and Hydraulic Systems	\$40,000	\$57,143				
Miscellaneous	\$45,000	\$64,286				
Subtotal Operational Continuity	\$627,963	\$897,090				
Total Expenditures	\$1,262,963	\$1,804,233				

^{*} Exchange Rate used was 1 USD = 0.700 CAD

Table provided by Magna Gold Corp. March 26, 2020.

Micon has reviewed the budget proposed by Magna and recommends that Magna proceed with the budget as proposed, subject to funding and other operational changes that may arise once Magna has acquired the San Francisco Project.

Given the prospective nature of the property, it is Micon's opinion, and that of its QP, that the San Francisco Project merits further exploration. Micon recommends that Magna continues to hold the existing mineral concessions and that Magna conduct a drilling program of in-fill and down dip drilling as the first stage of further work to be conducted on the San Francisco



property. Further exploration programs and drilling will be needed in order to identify any other potential secondary mineral deposits on the property which may be economic and provide secondary feed for the processing facilities.



27.0 DATE AND SIGNATURE PAGE

MICON INTERNATIONAL LIMITED

"William J. Lewis" {signed and sealed as of the report date}

William J. Lewis, P.Geo. Report Date: June 1, 2020 Senior Geologist Effective Date: June 1, 2020

"Richard Gowans" {signed and sealed as of the report date}

Richard M. Gowans, P.Eng.

Report Date: June 1, 2020

Effective Date: June 1, 2020

SERVICIOS GEOLÓGICOS IMEX, S.C.

"Rodrigo Calles-Montijo" {signed and sealed as of the report date}

Rodrigo Calles-Montijo, CPG. Report Date: June 1, 2020 General Administrator and Principal Consultant Effective Date: June 1, 2020



28.0 REFERENCES

28.1 TECHNICAL REPORTS, PAPERS AND OTHER SOURCES

Alio Gold Inc., (November 9, 2017), Press Release: Alio Gold Provides Third Quarter 2017 Update.

Alio Gold Inc., (January 30, 2018), Press Release: Alio Gold Provides 2018 Guidence For San Francisco Mine.

Alio Gold Inc., (April 11, 2018), Press Release: Alio Gold Provides First Quarter 2018 Production From San Francisco With Management and Transaction Updates.

Alio Gold Inc., (May 9, 2018), Press Release: Alio Gold Reports First Quarter 2018 Results.

Alio Gold Inc., (August 10, 2018), Press Release: Alio Gold Reports Second Quarter 2018 Results.

Alio Gold Inc., (November 08, 2018), Press Release: Alio Gold Reports Third Quarter 2018 Results.

Alio Gold Inc., (January 15, 2019), Press Release: Alio Gold Provides 2018 Gold Production.

Alio Gold Inc., (February 12, 2019), Press Release: Alio Gold Files Technical Report and Provides San Francisco Update.

Alio Gold Inc., (March 13, 2019), Press Release: Alio Gold Reports Fourth Quarter and Full-Year 2018 Results.

Alio Gold Inc., (May 08, 2019), Press Release: Alio Gold Reports First Quarter 2019 Results.

Alio Gold Inc., (November 06, 2019), Press Release: Alio Gold Reports Third Quarter 2019 Results.

Alio Gold Inc., (March 06 08, 2020), Press Release: Alio Gold Announces Sale of San Francisco Mine.

Anderson, T.H., and Silver, L.T., (1979), The role of the Mojave-Sonora Megashear in the Tectonic Evolution of Northern Sonora, in Clark, K.F. et al., editors, Geology and Mineral Resources of Northern Sierra Madre Occidental, Mexico, Guidebook for the 1992 Field Conference, El Paso Geological Society, 479 p.

Call & Nicholas Inc., (2012), Geotechnical Evaluation for the San Francisco Final Pit Plan Prepared for Molimentales del Noroeste S.A. de C.V., 304 p.



Calmus, T. et al., (1992), Geology of Estación Liano (Sonora): A New Proterozoic Basement and the San Francisco Gold Deposit, in Clark, K.F. et al., editors, Geology and Mineral Resources of Northern Sierra Madre Occidental, Mexico, Guidebook for the 1992 Field Conference, El Paso Geological Society, 479 p.

De Jong, K., et al., (1988), Eastward Thrusting, Southwestward Folding and Backsliding in the Sierra La Vibora, Sonora, Mexico: Geology, V. 16.

Defiance Mining Corporation, (2004), Annual Report 2003, 30 p.

Geomaque Explorations Ltd, (2001), Annual Report 2000, 19 p.

Geomaque Explorations Ltd, (2002), Annual Report 2001, 26 p.

Geomaque Explorations Ltd, (2003), Annual Information Form for the Year Ended December 31, 2002, 68 p.

Geomaque of Mexico, S.A. de C.V., (1994), Presentation by Geomaque de Mexico, S.A. de C.V. for the evaluation of Environmental Impact Report, General Category, for the Geological-Mining Project Named "San Francisco" Mining Project.

Golder and Associates, (1996), Final Pit Wall Stability Evaluation, San Francisco Mine Project Draft Report prepared for Geomaque De Mexico, 39 p.

Hester, M., (2007), San Francisco Mineral Resource, Memo prepared for Timmins Gold Corporation by Independent Mining Consultants Inc., 11 p.

Independent Mining Consultants Inc., (1997), San Francisco Project, Minable Reserves and Geological Resources as of April 30, 1997 prepared for Geomaque Exploration Ltd., 42 p.

Jacques-Ayala, C., et al., (1991), The Interpreted Trace of the Mojave-Sonora Megashear in Northwest Sonora-A Laramide Thrust Front and Middle Tertiary Detachment Zone: Primer Congreso Mexicano Mineralogia, Conv. Evolucion Geologica de Mexico, Memoria. Lewis, W.J., (2005), Technical Report on the San Francisco Mine Property, Estación Llano, Sonora, Mexico, 68 p.

Lewis, W.J. and Hester, M.G. (2007), NI 43-101 Technical Report and Resource Estimate for the San Francisco Gold Property, Estación Llano, Sonora, Mexico, www.sedar.com 140 p.

Lewis, W.J. et al., (2008), NI 43-101 Technical Report on the Preliminary Feasibility Study for the San Francisco Gold Property, Estación Llano, Sonora, Mexico, 207 p.

Lewis, W.J. et al., (2009), NI 43-101 Technical Report on the Preliminary Feasibility Study for the San Francisco Gold Property, Estación Llano, Sonora, Mexico, Amended 2008 Technical Report, 205 p.



Lewis, W.J. et al., (2010), NI 43-101 Technical Report Updated Resources and Reserves and Mine Plan for the San Francisco Gold Mine, Sonora, Mexico, 217 p. Report Amended 2011.

Lewis, W.J. et al., (2011), NI 43-101 F1 Technical Report Updated Resources and Reserves and Mine Plan for the San Francisco Gold Mine, Sonora, Mexico, 300 p.

Lewis, W.J.et al, (2013), NI 43-101 F1 Technical Report Updated Resources and Reserves and Mine Plan for the San Francisco Gold Project, Sonora, Mexico, 330 p.

Lewis, W.J.et al, (February, 2016), NI 43-101 F1 Technical Report Updated Resources and Reserves and Mine Plan for the San Francisco Gold Project, Sonora, Mexico, 215 p.

Lewis, W.J.et al, (September, 2016 and amended November, 2016), NI 43-101 F1 Technical Report Updated Resources and Reserves and Mine Plan for the San Francisco Gold Project, Sonora, Mexico, 264 p.

Lewis, W.J.et al, (May 25, 2017), NI 43-101 F1 Technical Report Updated Resources and Reserves and Mine Plan for the San Francisco Gold Project, Sonora, Mexico, 261 p.

Luna, R. and Gastelum, G., (1992), Geology of the San Francisco Project Estación Llano, Sonora in Clark, K.F. et al., editors, Geology and Mineral Resources of Northern Sierra Madre Occidental, Mexico, Guidebook for the 1992 Field Conference, El Paso Geological Society, 479 p.

Magna Gold Corp., (March 6, 2020), Press Release: Magna Gold Corp. Announces Acquisition of the San Francisco Mine and Private Placement.

Micon International Limited, (2012), Technical Memorandum, San Francisco Mine Reconciliation of Reserves, 16 p. plus appendices.

Medina, Miguel Rangel, (2013), Estudio de Evaluación Hidrogeológica en el Área de Nuevos Patios de Lixiciación, de La Mina San Francisco, Estacion Llano, Sonora, 46 p.

Medina, Miguel Rangel, (2012), Informe Mensual Noviembre "Construcción de Piezómetros en el Área de la Mina San Francisco, Municipio de Santa Ana, Sonora", 74 p.

Medina, Miguel Rangel, (2013), Informe Final "Memorias de la Construcción de Piezómetros en el Área de la Mina San Francisco, Municipio de Santa Ana, Sonora" (Nov-Dic/2012), 45 p. Medina, Miguel Rangel, (2013), Memorias "Construcción de Piezómetros en el Área de la Mina San Francisco, Municipio de Santa Ana, Sonora" (Nov-Dic/2012), 127 p.

Perez Segura, E., (1992), The Au-Te Mineralogy of the San Francisco Deposit, Sonora, Mexico, in Clark, K.F. et al., editors, Geology and Mineral Resources of Northern Sierra Madre Occidental, Mexico, Guidebook for the 1992 Field Conference, El Paso Geological Society, 479 p.



Prenn, N.B., et al., (1995), San Francisco Property Resource and Reserve Sonora, Mexico prepared by Mine Development Associates for Geomaque Exploration Ltd., 46 p.

Salas, G.P., et al, (1991), Economic Geology, Mexico, Volume P-3 of the Geology of North America, in The Decade of North American Geology Project series by The Geological Society of America, Inc., 438 p.

Silberman, M., (1992), Characteristics and Complex History of Gold-Bearing Quartz veins along the Mojave-Sonora Megashear Zone, northern Sonora, Mexico, in Clark, K.F. et al., editors, Geology and Mineral Resources of Northern Sierra Madre Occidental, Mexico, Guidebook for the 1992 Field Conference, El Paso Geological Society, 479 p.

Silver, L.T., and Anderson, T.H., (1974), Possible Left-lateral Early to Middle Mesozoic Disruption of the Southwestern North American Craton Margin, in Geological Society of America, Abstracts with Programs, v. 6, 955 p.

Sol & Adobe Ingenieros Asociado S.A. de C.V. (2006) San Francisco Scoping Study, 9-1 to 9 7 p.

Telluris Consulting Ltd., (2009), Structural Review of the San Francisco Deposit, Sonora Mexico, Prepared for Timmins Gold Corp. Molimentales del Noroeste S.A. de C.V., 35 p.

Timmins Gold Corp., (January, 2011), Exploration Report, 209 p.

Timmins Gold Corp., (January-February, 2012) Exploration report, 229.

Timmins Gold Corp., (January, 2013), Report of Exploration, 212 p.

Timmins Gold Corp., (May, 2011), Press Release: Timmins Gold sells 65,784 ounces of gold during first year of commercial operations at the San Francisco Mine.

Timmins Gold Corp., (September, 2011), Press Release: Timmins Gold Corp Announces Updated Reserve and Resource Estimates for the San Francisco Gold Project.

Timmins Gold Corp., (October, 2011), Press Release: Timmins Gold Reports Second Quarter Production Results.

Timmins Gold Corp., (November, 2011), Press Release: Timmins Gold to commence Trading on NYSE Amex on November 4, 2011.

Timmins Gold Corp., (January, 2012), Press Release: Timmins Gold reports record production of 21,524 gold ounces in final quarter of 2011.

Timmins Gold Corp., (March, 2012), Press Release: Timmins Gold Corp Announces Updated Resource Estimate for the San Francisco Gold Project.



Timmins Gold Corp., (April, 2012), Press Release: Timmins Gold Reports Record Gold Production of 21,532 Ounces of Gold and Record Gold Recovery Ratio of 69% during Q1 2012.

Timmins Gold Corp., (July, 2012), Press Release: Timmins Gold reports record production of 23,203 ounces of gold and 14,453 ounce of silver during Q2 2012.

Timmins Gold Corp., (October, 2012), Press Release: Timmins Gold reports record production of 25,153 ounces of gold and 13,857 ounce of silver during Q3 2012.

Timmins Gold Corp., (January, 2013), Press Release: Timmins Gold reports record production of 94,444 ounces of gold for 2012.

Timmins Gold Corp., (April, 2013), Press Release: Timmins Gold reports record production of 28,328 ounces of gold for the first quarter of 2013.

Timmins Gold Corp., (April, 2013), Press Release: Timmins Gold intersects 72 metres of 1.6 gpt gold, 15 metres of 4.2 gpt gold and 14 metres of 3.2 gpt gold at San Francisco Pit.

Timmins Gold Corp., (July, 2013), Press Release: Timmins Gold reports production of 28,024 gold ounces for the second quarter of 2013.

Timmins Gold Corp., (October, 2013), Press Release: Timmins Gold reports record production of 29,139 gold ounces for the third quarter of 2013.

Timmins Gold Corp., (November, 2013), Press Release: Timmins Gold Announces Updated Reserve and Resource Estimates for the San Francisco Gold Mine.

Timmins Gold Corp., (November, 2013), Press Release: Updated Mine Plan for the San Francisco Mine.

Timmins Gold Corp., (December, 2013), Press Release: Timmins Files Updated NI 43-101 Technical Report for its San Francisco Gold Mine.

Timmins Gold Corp., (January, 2014), Press Release: Timmins Gold surpasses guidance with record production of 120,900 AuEq ozs in 2013 and 34,563 ozs for the fourth quarter of 2013.

Timmins Gold Corp., (April, 2014), Press Release: Timmins Gold reports record production of 35,684 AuEq* ounces for the first quarter of 2014.

Timmins Gold Corp., (May, 2014), Press Release: Timmins announces USD5 million 2014 exploration program focusing on three high potential targets.

Timmins Gold Corp., (July, 2014), Press Release: Timmins Gold reports production of 32,932 gold ounces for the second quarter of 2014.



Timmins Gold Corp., (October, 2014), Press Release: Timmins Gold reports production of 27,013 gold equivalent ounces for the third quarter of 2014.

Timmins Gold Corp., (December, 2014), Press Release: Timmins Gold to Purchase Caballo Blanco Gold Project.

Timmins Gold Corp., (December, 2014), Press Release: Timmins Gold completes acquisition of Caballo Blanco Gold Project.

Timmins Gold Corp., (January, 2015), Press Release: Timmins Gold reports record production of 121,573 AuEq ozs in 2014 and 25,304 AuEq ozs for the fourth quarter of 2014.

Timmins Gold Corp., (February, 2015), Press Release: Timmins Gold Identifies Potential Satellite Deposits North of San Francisco Mine Drills 33.85 m of 1.29 g/t Au and 10.2 m of 5.52 g/t Au.

Timmins Gold Corp., (February, 2015), Press Release: Timmins Gold Corp. Identifies High Grade Mineralization Adjacent to San Francisco Mine; Drills 14 metres of 8.0 g/t gold and 29 metres of 3.5 g/t gold.

Timmins Gold Corp., (February, 2015), Press Release: Timmins Gold to Combine with Newstrike Capital to Create an Emerging, Mexican-Focused Intermediate Gold Producer.

Timmins Gold Corp., (April, 2015), Press Release: Timmins Gold reports production of 24,374 AuEq ounces for the first quarter of 2015.

Timmins Gold Corp., (May, 2015), Press Release: Timmins Gold Completes Acquisition of Newstrike Capital.

Timmins Gold Corp., (July, 2015), Press Release: Timmins Gold Commences Underground Pilot Phase at its San Francisco Mine.

Timmins Gold Corp., (March, 2016), Press Release: Timmins Gold Updates San Francisco Technical Report.

Timmins Gold Corp., (August, 2016), Press Release: Timmins Gold Extends Operations at San Francisco Gold Mine into 2023.

Timmins Gold Corp., (Undated), Exploration Drilling Update on San Francisco Property, Internal Letter Report, unpagenated 19 p.

Timmins Gold Corp., (Undated), In-fill Drilling at San Francisco Gold Mine 2014 – 2015, Exploracion on the San Francisco Mine, Internal Letter Report, unpagenated 18 p.

Timmins Gold Corp., (2005), Promotional Information Brochure, 2 p.



Timmins Gold Corp., (2005), San Francisco Gold Mine, Sonora Mexico, May, 2005, Power Point Presentation, 13 p.

Tosdal, R.M., Haxel, G.B., and Wright, J.E., (1989), Jurassic Geology of the Sonoran Desert Region, Southern Arizona, Southeastern California and Northwestern Sonora: Construction of a Continental-Margin Magmatic Arc, in J.P. Jenny, and S.H. Reynolds (editors), Geological Evolution of Arizona, Tucson, Arizona Geological Society Digest.

Vargas, J.C., et al, (1994), Geological – Mining Monograph of the State of Sonora, M-8E, published by the Consejo de Recursos Minerales, 220 p.

Zonge Engineering and Research Organization Inc., (2007), Processing and Interpretation of High Resolution Aeromagnetic and Radiometric Data for the San Francisco and Pima Project Areas, Sonora, Mexico, for Timmins Gold Corporation, 19 p.

28.2 Internet Sources

Alio Gold Inc., <u>www.aliogold.com</u>, (2017 to 2020) Press Releases.

Kitco website, www.kitco.com,

Magna Gold Corp., www.magnagoldcorp.com, (2018 to 2020) Press Releases

SEDAR website, www.sedar.com

Timmins Gold Corp., website www.timminsgold.com, (2005 to 2016) Press Releases.



29.0 CERTIFICATES OF AUTHORS



CERTIFICATE OF AUTHOR William J. Lewis

As the co-author of this report for Magna Gold Corp. entitled "NI 43-101 F1 Technical Report for the San Francisco Gold Project, Sonora, Mexico" dated June 1, 2020 with an effective date of June 1, 2020, I, William J. Lewis do hereby certify that:

- 1. I am employed by, and carried out this assignment for, Micon International Limited, Suite 900, 390 Bay Street, Toronto, Ontario M5H 2Y2, tel. (416) 362-5135, fax (416) 362-5763, e-mail wlewis@micon-international.com;
- 2. This certificate applies to the Technical Report titled "NI 43-101 F1 Technical Report for the San Francisco Gold Project in Sonora, Mexico" dated June 1, 2020 with an effective date of June 1, 2020;
- 3. I hold the following academic qualifications:

B.Sc. (Geology)

University of British Columbia

1985

- 4. I am a registered Professional Geoscientist with the Association of Professional Engineers and Geoscientists of Manitoba (membership # 20480); as well, I am a member in good standing of several other technical associations and societies, including:
 - Association of Professional Engineers and Geoscientists of British Columbia (Membership # 20333)
 - Association of Professional Engineers, Geologists and Geophysicists of the Northwest Territories (Membership # 1450)
 - Professional Association of Geoscientists of Ontario (Membership # 1522)
 - The Canadian Institute of Mining, Metallurgy and Petroleum (Member # 94758)
- 5. I have worked as a geologist in the minerals industry for 35 years;
- 6. I am familiar with NI 43-101 and, by reason of education, experience and professional registration, I fulfill the requirements of a Qualified Person as defined in NI 43-101. My work experience includes 4 years as an exploration geologist looking for gold and base metal deposits, more than 11 years as a mine geologist in underground mines and 20 years as a surficial geologist and consulting geologist on precious and base metals and industrial minerals;
- 7. I have read NI 43-101 and this Technical Report has been prepared in compliance with the instrument;
- 8. I visited the San Francisco Mine project on numerous previous occasions since 2005 and most recently between May 15 and 17, 2017 to review the resource/reserve estimates and in-fill drilling programs on the property and discuss the ongoing QA/QC program for the previous Technical Report for Alio Gold Inc. No site visit was conducted in relation to this Technical Report due to the COVID-19 pandemic. A site visit will be conducted as soon as possible once the pandemic has passed and borders are open for travel once again.
- 9. I have written or co-authored previous Technical Reports for the mineral property that is the subject of this Technical Report;
- 10. I am independent Magna Gold Corp. and Alio Gold Inc. and thier subsidiaries according to the definition described in NI 43-101 and the Companion Policy 43-101 CP;
- 11. I am responsible for Sections 1 to 12, 14 to 16 and 18 through 26 of this Technical Report;
- 12. As of the date of this certificate, to the best of my knowledge, information and belief, the Technical Report contains all scientific and technical information that is required to be disclosed to make this technical report not misleading;

Report Dated this 1st day of June, 2020 with an effective date of June 1, 2020.

"William J. Lewis" {signed and sealed as of the report date}

William J. Lewis, B.Sc., P.Geo.



CERTIFICATE OF AUTHOR Richard M. Gowans

As the co-author of this report for Magna Gold Corp. entitled "NI 43-101 F1 Technical Report for the San Francisco Gold Project Sonora, Mexico" dated June 1, 2020 with an effective date of June 1, 2020, I, Richard Gowans do hereby certify that:

- 1. I am employed by, and carried out this assignment for, Micon International Limited, Suite 900, 390 Bay Street, Toronto, Ontario M5H 2Y2, tel. (416) 362-5135, fax (416) 362-5763, e-mail rgowans@micon-international.com.
- 2. I hold the following academic qualifications:
 - B.Sc. (Hons) Minerals Engineering, The University of Birmingham, U.K. 1980.
- 3. I am a registered Professional Engineer of Ontario (membership number 90529389); as well, I am a member in good standing of the Canadian Institute of Mining, Metallurgy and Petroleum.
- 4. I am familiar with NI 43-101 and by reason of education, experience and professional registration, fulfill the requirements of a Qualified Person as defined in NI 43-101. My work experience includes over 30 years of the management of technical studies and design of numerous metallurgical testwork programs and metallurgical processing plants.
- 5. I have read NI 43-101 and this Technical Report has been prepared in compliance with the instrument.
- 6. I have not visited the mine site.
- 7. I have participated in the preparation of a number of prior Technical Reports on the San Francisco property.
- 8. I am independent of Magna Gold Corp. and Alio Gold Inc. and their related entities.
- 9. I am responsible for Sections 13 and 17 of this Technical Report.
- 10. As of the date of this certificate, to the best of my knowledge, information and belief, the Technical Report contains all scientific and technical information that is required to be disclosed to make this technical report not misleading.

Report Dated this 1st day of June, 2020 and Effective Report Date: June 1, 2020.

"Richard Gowans" {signed and sealed as of the report date}

Richard Gowans P.Eng.



CERTIFICATE OF AUTHOR Rodrigo Calles-Montijo

As the co-author of this report for Magna Gold Corp. entitled "NI 43-101 F1 Technical Report for the San Francisco Gold Project, Sonora, Mexico" dated June 1, 2020 with an effective date of June 1, 2020, I, Rodrigo Calles-Montijo do hereby certify that:

- 1. I am General Administrator and Principal Consultant of the firm Servicios Geológicos IMEx, S.C, located at Blvd. Morelos No. 639, Locales 13 y 14, Hermosillo, Sonora, Mexico, C.P. 83148, Email: rodrigo.calles@sgimex.mx;
- 2. This certificate applies to the Technical Report titled "NI 43-101 F1 Technical Report for the San Francisco Gold Project in Sonora, Mexico" dated June 1, 2020 with an effective date of June 1, 2020;
- 3. I hold the following academic qualifications:

B.Sc. (Geologust Engineer) Autonomous University of Chihuahua 1986 M.Sc. (Economic Geology) University of Sonora 1999

- 4. I am a Certified Professional Geologist in a good standing with American Institute of Professional Geologist with certificate number 11567 and member of the Association of Mining Engineers, Metallurgist and Geologist of Mexico, A.C., Membership 556;
- 5. I have 35 years of experience in exploration and evaluation of mineral deposits, including metallic and non-metallic deposits in several countries around the world; I have experience in evaluation of diverse types of gold deposits, including placer, skarn and disseminated deposits
- 6. I am familiar with NI 43-101 and, by reason of education, experience and professional registration, I fulfill the requirements of a Qualified Person as defined in NI 43-101. My work experience includes 20 years as an exploration geologist looking f base metal and industrial mineral deposits and more than 11 years as consulting geologist on precious, base metals and industrial minerals and operative mines;
- 7. I have read NI 43-101 and this Technical Report has been prepared in compliance with the instrument;
- 8. I visited the San Francisco Mine project in several previous occasions since 2015 and most recently in May 29, 2020 to asses current mine infrastructure conditions.
- 9. I am independent Magna Gold Corp. and Alio Gold Inc. and thier subsidiaries according to the definition described in NI 43-101 and the Companion Policy 43-101 CP;
- 10. I am responsible for the site visit as described in this Technical Report;
- 11. As of the date of this certificate, to the best of my knowledge, information and belief, the Technical Report contains all scientific and technical information that is required to be disclosed to make this technical report not misleading;

Report Dated this 1st day of June, 2020 with an effective date of June 1, 2020.

"Rodrigo Calles-Montijo" {signed and sealed as of the report date}

Rodrigo Calles-Montijo, M.Sc., CPG.



APPENDIX I GLOSSARY OF MINING AND OTHER RELATED TERMS



GLOSSARY AND DEFINED TERMS

The following is a glossary of certain mining terms that may be used in this Technical Report.

A

Ag Symbol for the element silver.

Alio or ALO Alio Gold Inc., including, unless the context otherwise requires, the

Company's subsidiaries.

Assay A chemical test performed on a sample of ores or minerals to determine the

amount of valuable metals contained.

Au Symbol for the element gold.

В

Base metal Any non-precious metal (e.g. copper, lead, zinc, nickel, etc.).

Bulk mining Any large-scale, mechanized method of mining involving many thousands

of tonnes of ore being brought to surface per day.

Bulk sample A large sample of mineralized rock, frequently hundreds of tonnes, selected

in such a manner as to be representative of the potential orebody being sampled. The sample is usually used to determine metallurgical

characteristics.

Bullion Precious metal formed into bars or ingots.

By-product A secondary metal or mineral product recovered in the milling process.

 \mathbf{C}

Channel sample A sample composed of pieces of vein or mineral deposit that have been cut

out of a small trench or channel, usually about 10 cm wide and 2 cm deep.

Chip sample A method of sampling a rock exposure whereby a regular series of small

chips of rock is broken off along a line across the face.

CIM Standards The CIM Definition Standards on Mineral Resources and Mineral Reserves

adopted by CIM Council from time to time. The most recent update adopted

by the CIM Council is effective as of May 10, 2014.

CIM The Canadian Institute of Mining, Metallurgy and Petroleum.

Concentrate A fine, powdery product of the milling process containing a high percentage

of valuable metal.



Contact A geological term used to describe the line or plane along which two

different rock formations meet.

Core The long cylindrical piece of rock, about an inch in diameter, brought to

surface by diamond drilling.

Core sample One or several pieces of whole or split parts of core selected as a sample for

analysis or assay.

Cross-cut A horizontal opening driven from a shaft and (or near) right angles to the

strike of a vein or other orebody. The term is also used to signify that a drill

hole is crossing the mineralization at or near right angles to it.

Cut-off grade The lowest grade of mineralized rock that qualifies as ore grade in a given

deposit, and is also used as the lowest grade below which the mineralized rock currently cannot be profitably exploited. Cut-off grades vary between deposits depending upon the amenability of ore to gold extraction and upon

costs of production.

D

Dacite The extrusive (volcanic) equivalent of quartz diorite.

Deposit An informal term for an accumulation of mineralization or other valuable

earth material of any origin.

Development/In-fill drilling

Drilling to establish accurate estimates of mineral resources or reserves

usually in an operating mine or advanced project.

Dilution Rock that is, by necessity, removed along with the ore in the mining process,

subsequently lowering the grade of the ore.

Diorite An intrusive igneous rock composed chiefly of sodic plagioclase,

hornblende, biotite or pyroxene.

Dip The angle at which a vein, structure or rock bed is inclined from the

horizontal as measured at right angles to the strike.

Doré A semi refined alloy containing sufficient precious metal to make recovery

profitable. Crude precious metal bars, ingots or comparable masses produced at a mine which are then sold or shipped to a refinery for further

processing.

 \mathbf{E}

Epithermal Hydrothermal mineral deposit formed within one kilometre of the earth's

surface, in the temperature range of 50 to 200°C.

Epithermal deposit



A mineral deposit consisting of veins and replacement bodies, usually in volcanic or sedimentary rocks, containing precious metals or, more rarely,

base metals.

Exploration Prospecting, sampling, mapping, diamond drilling and other work involved

in searching for ore.

 \mathbf{F}

Face The end of a drift, cross-cut or stope in which work is taking place.

Fault A break in the Earth's crust caused by tectonic forces which have moved the

rock on one side with respect to the other.

Flotation A milling process in which valuable mineral particles are induced to become

attached to bubbles and float as others sink.

Fold Any bending or wrinkling of rock strata.

Footwall The rock on the underside of a vein or mineralized structure or deposit.

Fracture A break in the rock, the opening of which allows mineral-bearing solutions

to enter. A "cross-fracture" is a minor break extending at more-or-less right

angles to the direction of the principal fractures.

G

g/t Abbreviation for gram(s) per metric tonne.

g/t Abbreviation for gram(s) per tonne.

Grade Term used to indicate the concentration of an economically desirable mineral

or element in its host rock as a function of its relative mass. With gold, this term may be expressed as grams per tonne (g/t) or ounces per tonne (opt).

Gram One gram is equal to 0.0321507 troy ounces.

Η

Hanging wall The rock on the upper side of a vein or mineral deposit.

Heap Leaching A process used for the recovery of copper, uranium, and precious metals

from weathered low-grade ore. The crushed material is laid on a slightly sloping, impervious pad and uniformly leached by the percolation of the leach liquor trickling through the beds by gravity to ponds. The metals are

recovered by conventional methods from the solution.

High grade Rich mineralization or ore. As a verb, it refers to selective mining of the best

ore in a deposit.

Host rock The rock surrounding an ore deposit.



Hydrothermal Processes associated with heated or superheated water, especially

mineralization or alteration.

Ι

Indicated Mineral Resource

An Indicated Mineral Resource is that part of a Mineral Resource for which quantity, grade or quality, densities, shape and physical characteristics are estimated with sufficient confidence to allow the application of Modifying Factors in sufficient detail to support mine planning and evaluation of the economic viability of the deposit. Geological evidence is derived from adequately detailed and reliable exploration, sampling and testing and is sufficient to assume geological and grade or quality continuity between points of observation. An Indicated Mineral Resource has a lower level of confidence than that applying to a Measured Mineral Resource and may only be converted to a Probable Mineral Reserve.

Inferred Mineral Resource

An Inferred Mineral Resource is that part of a Mineral Resource for which quantity and grade or quality are estimated on the basis of limited geological evidence and sampling. Geological evidence is sufficient to imply but not verify geological and grade or quality continuity. An Inferred Mineral Resource has a lower level of confidence than that applying to an Indicated Mineral Resource and must not be converted to a Mineral Resource. It is reasonably expected that the majority of Inferred Mineral Resources could be upgraded to Indicated Mineral Resources with continued exploration.

Intrusive

A body of igneous rock formed by the consolidation of magma intruded into other

K

km Abbreviation for kilometre(s). One kilometre is equal to 0.62 miles.

L

Leaching The separation, selective removal or dissolving-out of soluble constituents

from a rock or ore body by the natural actions of percolating solutions.

Level The horizontal openings on a working horizon in a mine; it is customary to

work mines from a shaft, establishing levels at regular intervals, generally

about 50 m or more apart.

Limestone A bedded, sedimentary deposit consisting chiefly of calcium carbonate.

 \mathbf{M}

m Abbreviation for metre(s). One metre is equal to 3.28 feet.



Magna Gold Corp., including, unless the context otherwise requires, the

Company's subsidiaries.

Marble A metamorphic rock derived from the recrystallization of limestone under

intense heat and pressure.

Measured Mineral Resource

A Measured Mineral Resource is that part of a Mineral Resource for which quantity, grade or quality, densities, shape, and physical characteristics are estimated with confidence sufficient to allow the application of Modifying Factors to support detailed mine planning and final evaluation of the economic viability of the deposit. Geological evidence is derived from detailed and reliable exploration, sampling and testing and is sufficient to confirm geological and grade or quality continuity between points of observation. A Measured Mineral Resource has a higher level of confidence than that applying to either an Indicated Mineral Resource or an Inferred Mineral Resource. It may be converted to a Proven Mineral Reserve or to a Probable Mineral Reserve.

Metallurgy The science and art of separating metals and metallic minerals from their

ores by mechanical and chemical processes.

Metamorphic Affected by physical, chemical, and structural processes imposed by depth

in the earth's crust.

Mill A plant in which ore is treated and metals are recovered or prepared for

smelting; also a revolving drum used for the grinding of ores in preparation

for treatment.

Mine An excavation beneath the surface of the ground from which mineral matter

of value is extracted.

Mineral A naturally occurring homogeneous substance having definite physical

properties and chemical composition and, if formed under favourable

conditions, a definite crystal form.

Mineral Claim/Concession

That portion of public mineral lands which a party has staked or marked out in accordance with federal or state mining laws to acquire the right to explore

for and exploit the minerals under the surface.

Mineralization The process or processes by which mineral or minerals are introduced into a

rock, resulting in a valuable or potentially valuable deposit.

Mineral Resource

A Mineral Resource is a concentration or occurrence of solid material of economic interest in or on the Earth's crust in such form, grade or quality and quantity that there are reasonable prospects for eventual economic extraction. The location, quantity, grade or quality, continuity and other geological characteristics of a Mineral Resource are known, estimated or



interpreted from specific geological evidence and knowledge, including sampling. Material of economic interest refers to diamonds, natural solid inorganic material, or natural solid fossilized organic material including base and precious metals, coal, and industrial minerals. The term mineral resource used in this report is a Canadian mining term as defined in accordance with NI 43-101 – Standards of Disclosure for Mineral Projects under the guidelines set out in the Canadian Institute of Mining, Metallurgy and Petroleum (the CIM), Standards on Mineral Resource and Mineral Reserves Definitions and guidelines adopted by the CIM Council on December 11, 2005 and recently updated as of May 10, 2014 (the CIM Standards).

Mineral Reserve

A Mineral Reserve is the economically mineable part of a Measured and/or Indicated Mineral Resource. It includes diluting materials and allowances for losses, which may occur when the material is mined or extracted and is defined by studies at Pre-Feasibility or Feasibility level as appropriate that include application of Modifying Factors. Such studies demonstrate that, at the time of reporting, extraction could reasonably be justified. The reference point at which Mineral Reserves are defined, usually the point where the ore is delivered to the processing plant, must be stated. It is important that, in all situations where the reference point is different, such as for a saleable product, a clarifying statement is included to ensure that the reader is fully informed as to what is being reported. The public disclosure of a Mineral Reserve must be demonstrated by a Pre-Feasibility Study or Feasibility Study.

N

Net Smelter Return

A payment made by a producer of metals based on the value of the gross metal production from the property, less deduction of certain limited costs including smelting, refining, transportation and insurance costs.

NI 43-101

National Instrument 43-101 is a national instrument for the Standards of Disclosure for Mineral Projects within Canada. The Instrument is a codified set of rules and guidelines for reporting and displaying information related to mineral properties owned by, or explored by, companies which report these results on stock exchanges within Canada. This includes foreign-owned mining entities who trade on stock exchanges overseen by the Canadian Securities Administrators (CSA), even if they only trade on Over The Counter (OTC) derivatives or other instrumented securities. The NI 43-101 rules and guidelines were updated as of June 30, 2011.



O

Open Pit/Cut A form of mining operation designed to extract mineral sthat lie near the

surface. Waste or overburden is first removed, and the mineral is broken and loaded for processing. The mining of metalliferous ores by surface-mining methods is commonly designated as open-pit mining as distinguished from strip mining of coal and the quarrying of other non-metallic materials, such

as limestone and building stone.

Outcrop An exposure of rock or mineral deposit that can be seen on surface, that is,

not covered by soil or water.

Oxidation A chemical reaction caused by exposure to oxygen that results in a change

in the chemical composition of a mineral.

Ounce A measure of weight in gold and other precious metals, correctly troy ounces,

which weigh 31.2 grams as distinct from an imperial ounce which weigh 28.4

grams.

oz Abbreviation for ounce.

P

Plant A building or group of buildings in which a process or function is carried

out; at a mine site it will include warehouses, hoisting equipment,

compressors, maintenance shops, offices and the mill or concentrator.

Probable Reserve

A Probable Mineral Reserve is the economically mineable part of an Indicated, and in some circumstances, a Measured Mineral Resource. The confidence in the Modifying Factors applying to a Probable Mineral Reserve

is lower than that applying to a Proven Mineral Reserve.

Proven Reserve

A Proven Mineral Reserve is the economically mineable part of a Measured Mineral Resource. A Proven Mineral Reserve implies a high degree of

confidence in the Modifying Factors.

Pyrite A common, pale-bronze or brass-yellow, mineral composed of iron and

sulphur. Pyrite has a brilliant metallic luster and has been mistaken for gold. Pyrite is the most wide-spread and abundant of the sulfide minerals and

occurs in all kinds of rocks.



Q

Qualified Person Conforms to that definition under NI 43-101 for an individual: (a) to be an

engineer or geoscientist with a university degree, or equivalent accreditation, in an area of geoscience, or engineering, related to mineral exploration or mining; (b) has at least five years' experience in mineral exploration, mine development or operation or mineral project assessment, or any combination of these, that is relevant to his or her professional degree or area of practice; (c) to have experience relevant to the subject matter of the mineral project and the technical report; (d) is in good standing with a professional association; and (e) in the case of a professional association in a foreign jurisdiction, has a membership designation that (i) requires attainment of a position of responsibility in their profession that requires the exercise of independent judgement; and (ii) requires (A.) a favourable confidential peer evaluation of nthe individual's character, professional judgement, experience, and ethical fitness; or (B.) a recommendation for membership by at least two peers, and demonstrated prominence or expertise in the field of mineral exploration or mining.

R

Reclamation The restoration of a site after mining or exploration activity is completed.

 \mathbf{S}

Shoot A concentration of mineral values; that part of a vein or zone carrying values

of ore grade.

Stockpile Broken ore heaped on surface, pending treatment or shipment.

Strike The direction, or bearing from true north, of a vein or rock formation measure

on a horizontal surface.

Stringer A narrow vein or irregular filament of a mineral or minerals traversing a rock

mass.

Sulphides A group of minerals which contains sulphur and other metallic elements such

as copper and zinc. Gold and silver are usually associated with sulphide

enrichment in mineral deposits.

T

Tonne A metric ton of 1,000 kilograms (2,205 pounds).

V



Vein A fissure, fault or crack in a rock filled by minerals that have travelled

upwards from some deep source.

 \mathbf{W}

Wall rocks Rock units on either side of an orebody. The hanging wall and footwall rocks

of a mineral deposit or orebody.

Waste Unmineralized, or sometimes mineralized, rock that is not minable at a

profit.

Working(s) May be a shaft, quarry, level, open-cut, open pit, or stope etc. Usually noted

in the plural.

\mathbf{Z}

Zone An area of distinct mineralization.



APPENDIX II

TITLE OPINION MINING CONCESSIONS SAN FRANCISCO PROJECT