NI 43-101 Technical Report, Preliminary Economic Assessment of the Tonopah Project

Nye County, Nevada

Prepared for:



#302 – 8047 199th Street Langley, BC, Canada V2Y-0E2 **Project Number: GU-1309723.003**

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Prepared by:



200 Union Boulevard, Suite 440 Lakewood, CO 80228

Qualified Persons: Donald E. Hulse, P.E, SME-RM Christopher Emanuel, SME-RM Deepak Malhotra Ph.D., SME-RM Edward Bryant, AIPG, CPG

1 Executive Summary

1.1 Property Description & Location

The Tonopah property encompasses 10,250 acres in the Ralston Valley, on the northeast side of the San Antonio Mountains in central Nevada, located approximately 30 kilometers northeast of the town of Tonopah in Nye County (Figure 1-1).

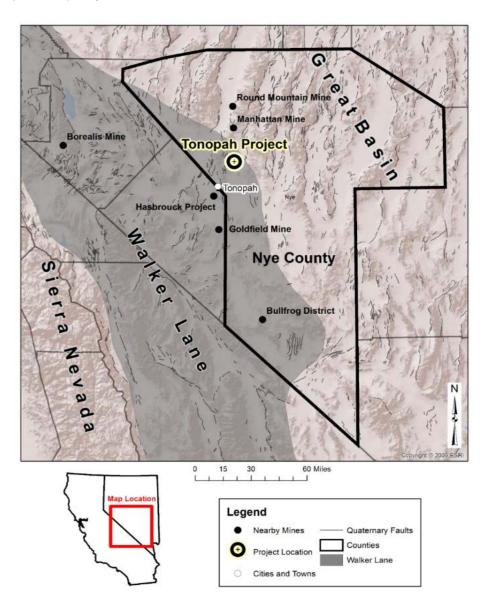


Figure 1-1: Tonopah Location Map

1.2 Ownership

The Project consists of 513 unpatented lode claims covering an area of approximately 10,250 acres. All claims are 100% controlled by Viva Gold Corp. (Viva); copies of the individual claim notices and location maps are on file with the central BLM office in Reno, Nevada, and with the Nye County Recorder's office in Tonopah, Nevada. The list of claims is included as Appendix C – List of Claims.

A 2% Net Smelter Return Royalty exists on 176 of the unpatented lode mining claims. The surface rights of the unpatented claims located in all claim Sections other than Section 32 are managed by the BLM. Those surface rights located in Section 32 are on lands under private ownership through the Stock Raising Homestead Act (SRHA) of 1916.

1.3 Geology & Mineralization

Surface geology at the Tonopah Property is dominated by valley fill deposits including alluvium, colluvium, sand dunes and playa deposits. With the exception of a single outcrop, the gold-bearing altered and mineralized zones of the Tonopah deposit are masked by these Quaternary deposits. Drilling indicates that the surface sediments are underlain by several rhyolitic to mafic Tertiary volcanics units, which non-conformably overlie Ordovician argillites of the Palmetto formation.

The Tonopah property contains a low-sulfidation epithermal gold system associated with near vertical quartz-adularia-gold veins hosted by Ordovician black argillite of the Palmetto Formation (Opa) and Tertiary rhyolitic volcanics (Tv) and also in association with a discontinuity at the contact with the top of the Palmetto Formation and lower sequence of the Tertiary volcanics. A ten-meter contact zone at the disconformity includes the deeply weathered Opa, and the colluvial/alluvial material at the weathered surface. When mineralized, this zone forms a shallowly dipping, manto-like zone of mineralization similar to the mineralized zones found in the overlaying tertiary volcanic sequences. Gold bearing veins occur in a series of en-echelon clusters along a 2.4 kilometer northwest-trending band of mineralization. Proximal to the major quartz-adularia veins, the wallrock is pervasively altered and mineralized. The main altered and mineralized zones are overlain by alluvial gravels, sand dunes, and playa deposits.

Structural geology significantly influences the distribution of mineralization and alteration at Tonopah. The Rye Patch fault system is a complex, oblique-slip fault system with numerous northwest trending splays, believed to be associated with north-south trending compressional stress common in the Walker Lane structural trend. Subordinate steeply dipping, north-south striking extension fractures developed between the two bounding strike slip faults. Gold bearing veins occur in a series of en-echelon clusters along a 1.5-mile northwest-trending band of mineralization. Contact related and disseminated gold mineralization is also seen along this entire band.

Two overlapping mineralized trends have been identified in drilling. The primary trend runs parallel to the west-northwest Rye Patch Fault System, bearing 290-300 degrees over at least 3,000 meters, and 500 meters width, and open along strike. Mineralization within this trend is generally within the lower portion of the tertiary volcanics, and sometime in the uppermost argillites, parallel to the Opa/Tv contact and is generally low to moderate grade, from 0.1 ppm to 5 ppm Au.

The top of the Ordovician Palmetto Argillite is deeply weathered at the contact with the overlying Miocene and younger volcanic rocks. This surface appears to have been exposed as an erosional surface for a significant period. There is evidence for an erosional surface at this horizon in both the core and RC cuttings.

Secondary extensional fractures range from 345 to 360 degrees strike, are near-vertical in dip, and host veins and hydrothermal breccia's with higher grade mineralization, ranging from 1.0 to over 30 ppm Au. These extensional fracture zones are best represented in drilling in the Discovery and Dauntless zones.

Alteration and mineralization at the Tonopah property are typical of low-sulfidation, volcanic-hosted epithermal gold deposits found elsewhere in Nevada and around the world. The deposit type is characterized by overall low original sulfide content, and quartz-adularia and clay-sericite alteration assemblages, among others. Vein textures are indicative of high level, near surface emplacement and include void fills, crustiform coatings, colloform banding, and comb structures. Similar deposits in Nevada have proven to be economic, including the Midas and Bullfrog deposits. The proximity and similarities of the Tonopah property to other gold deposits does not, on its own, indicate that the Tonopah property should be similarly mineralized.

Vein structures and orientation are best defined in the Discovery Zone, at the center of the project site.

1.4 Exploration Status

Early exploration work was focused on establishing the limits of a large, low-grade gold mineralized system located in the upper portion of the Palmetto formation and in the altered lower units of the tertiary volcanics.

Viva is focused on understanding both the higher grade and moderate grade portions of the deposit, into a combined model. This consolidated interpretation is more viable because of Viva's reduced royalty structures, which allows for potentially reduced cutoff grades.

1.5 Drilling

A total of 691 holes totaling 96,959 meters have been drilled at the Tonopah Project. 637 of these were completed prior to the acquisition by Viva Gold. Existing drill holes include 12 reverse circulation and auger holes drilled by Midway Gold for hydrology studies, and 12 diamond core holes drilled for geotechnical studies. Approximately half of these drill holes are outside the current resource area, including 100+ holes drilled in the Thunder Mountain area, which is no longer part of the Tonopah Project, and approximately 200 holes drilled west of the current resource area. Drill hole data for the Project is summarized in Table 10-1, and drill hole locations are shown on Figure 10-1. A complete list of drill holes, including year drilled, coordinates, drilling campaign, azimuth and dip, is included as Appendix D.

Viva initiated a drilling program in 2018 designed first to confirm the historical database and secondarily to extend mineralization by targeting areas of inferred which could be upgraded to measured and indicated categories, as well as to provide fresh material for metallurgical test work. Viva has drilled a total of 9 Core and 54 RC holes totaling 10,250 meters during the 2018-2021 drilling campaigns.

1.6 Sample Preparation, Analysis & Security

Viva Gold maintains industry standards for drilling, sampling, and assays in its current operations. Historical data were reviewed in detail by independent qualified persons in previous 43-101 reports and are believed to meet industry standards.

1.7 Data Verification

The QP considers that the drill data are generally adequate for resource estimation. However, the lack of downhole survey control for many of the historical drill holes may introduce location uncertainty for early sampling at the project.

1.8 Mineral Processing & Metallurgical Testing

Several scoping-level metallurgical studies were undertaken by mining companies from 1990's to 2009 for the Tonopah property. The test work included gravity separation, flotation and cyanidation leaching.

Viva has conducted additional test work to update and expand upon earlier metallurgical results and the results of this test work were documented in the 2020 Preliminary Economic Assessment (PEA) and are reproduced in Section 13 of this report. Based on the 2020 PEA the estimated recovery values are 83% gold recovery for argillite and 58% recovery for volcanics in agglomerated heap leach following 3-stage crushing.

1.9 Mineral Resource Estimate

Gustavson used Leapfrog software to aggregate Palmetto formation, Volcanics, and Gravels within the drill holes for the project, and used the contact points to generate surfaces which represent the contacts between each of the lithologic domains. The exploratory data analysis shows a distinct difference between the mineral continuity between the lower volcanics and the Palmetto argillite. The estimation has been updated to reflect this information.

Block grade estimation was completed using MicroModel 10 software. Grade estimates use ordinary kriging, with nearest neighbor and inverse distance used as a basis of comparison.

Each grade estimate uses a single pass, with a minimum of five and a maximum of nine 6- meter composites used to estimate grades A maximum of three composites are used per drill hole, thus requiring at least two drill holes to contribute to each block estimate. Classification utilizes an estimate of the average drilling density as measured by the declustering weight assigned to the composites for statistical analysis.

Donald E. Hulse, PE, SME-RM, of Gustavson Associates is the Qualified Person with responsibility for the mineral resource estimation in Table 1-1. Resources do not have modifying factors or dilution applied. The QP is of the opinion that the resources presented reasonably represent the in-situ resources modeled for the deposit using all available data as of the January 1, 2022 effective date of this report. Resources are presented at a 0.150 g/t (ppm) cutoff grade in argillite and 0.200 g/t (ppm) in volcanics, and inside a \$1,650/oz Au pit optimization shell. The reporting cutoff grade and constraining the resource inside an optimization shell and two tests for the 'reasonable prospects for economic extraction'.

	Tonnes	Gold Grade	Contained
Classification	(x1,000)	grams/tonne	Gold (ozt)
Measured	4,764	0.830	127,000
Indicated	11,440	0.727	267,000
Measured plus Indicated	16,204	0.758	395,000
Inferred	7,352	0.872	206,000

*Contained Gold rounded to 3 significant figures.

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Tonopah Property

Mineral Resources are not Mineral Reserves and have not been demonstrated to have economic viability. There is no certainty that the Mineral Resource will be converted to Mineral Reserves. The quantity and grade or quality is an estimate and is rounded to reflect the fact that it is an approximation. Quantities may not sum due to rounding.

1.10 Mining and Project Development

The Tonopah Property as planned in this report has a project life of 8 years, consisting of 2 years of preproduction, 5 years of mining and heap stacking, and one year of final gold recovery, pad rinsing and reclamation work. Mining will be done using traditional, open pit surface mining techniques.

A three phased pit was designed, Figure 1-2, and material movements scheduled. The mine schedule is then used to develop costs and the cost model used in the financial analysis. The mine schedule targets approximately 2.5 million tonnes of mineralization per year. Total material movement is constrained by the productivity mining, based on a productivity and haulage study of the project, and the fleet size. The mine schedule is shown in Table 1-2.

Parameter	Unit	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Total
Mineral Movement	kt	2,460	2,620	1,990	2,540	2,870		12,500
Grade	g/t	0.976	0.732	0.909	0.640	0.708		0.784
Contained Au	kg	2,400	1,920	1,810	1,620	2,030		9,790
Waste Movement	kt	14,600	12,800	11,500	10,500	8,400		57,800
Total Movement	kt	17,000	15,400	13,500	13,100	11,300		70,300
Strip Ratio		5.9	4.9	5.8	4.2	2.9		4.6
Recovered Au	kg	1,160	1,510	1,500	1,230	1,290	335	7,030

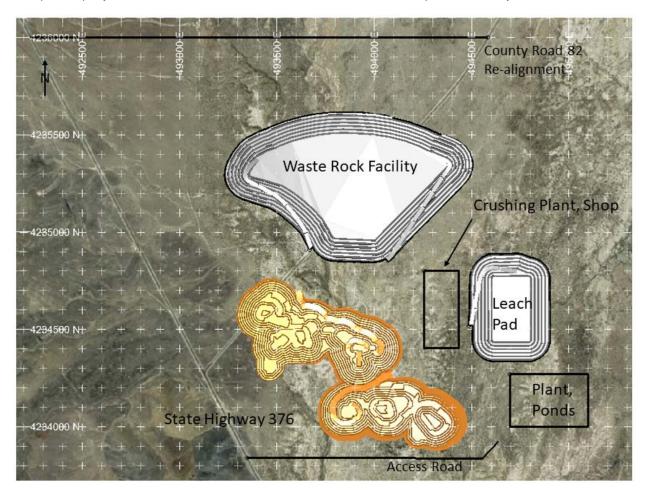


Figure 1-2: Project Layout - Ultimate Pit

The information for the PEA is based on mine plans derived from a subset of the mineral resource declared in Section 14.12. Pit constrained mineral resources are not mineral reserves and include inferred resources which are too speculative geologically to have modifying factors applied. There are no mineral reserve estimates for the project at this time.

1.11 Recovery Methods

Process flowsheet and recoveries are based primarily on the 2019 McClelland Laboratories test work. Gold recovery from argillite averages 83%, while recovery from volcanics averages 58%, with a weighted average recovery of 71%. The process will consist for three-stage crushing with closed screen in the third stage to produce a product leaving a particle size of P_{80} of 10 mesh. The crushed ore will be agglomerated with cement and transported to the leach pad using a conveyor system and radial stacker.

The agglomerated ore will be leached with sodium cyanide solution and the pregnant solution will be sent to the adsorption-desorption (ADR) plant utilizing a carbon-in- column circuit to recover gold and silver. The barren solution from CIC circuit and the electrowinning circuit in the gold recovery room will be sent to the barren solution pond.

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The doré bar consisting of predominantly gold and some silver will be sent to the refinery.

The planned processing capacity for crushing and heap leach is 7,000 tonnes per day (2.5 Mt per year). The planned ADR plant had a solution processing capacity of 400 cubic meters per hour and will be equipped with 2 tonne carbon stripping circuit.

1.12 Project Infrastructure

The site has excellent logistics and access for exploration, being a short drive from the town of Tonopah, Nevada, with good road access, communications, and access to contractors and labor.

1.13 Environmental Studies

Preliminary data related to environmental and cultural studies have been collected, as detailed in section 20. Permits for exploration activities are discussed in section 20.1. No mining permits have yet been sought or secured.

1.14 Capital and Operating Costs

Based on the PEA, capital and operating costs for both the mine and processing facilities were estimated based on factored estimating techniques for use in determining the unit costs and cutoff grades. These costs and equipment requirements were determined from a variety of sources including, the authors' professional experience, and third-party mining cost databases. Capital costs are summarized in Table 1-3 and unit operating costs are summarized in Table 1-4.

Category	Initial Capital	Sustaining Capital	Total
	(\$ Millions)		
Mine Development	\$7.20	-	\$7.20
Mine Mobile Fleet	\$4.98	\$13.6	\$18.6
Process Plant and Heap	\$30.5	-\$1.05	\$29.5
Environmental & Other	\$15.2	\$2.13	\$17.3
Total	\$57.9	\$14.7	\$72.6

Table 1-3: Project Capital Costs

Table 1-4: Project Operating Costs

Area	LoM Cost	Average Unit Cost	
Area	(\$ Millions)	(\$/tonne processed)	
Mining	\$90.2	\$7.22	
Processing	\$56.5	\$4.52	
Site G&A	\$8.23	\$0.66	
Contingency (10%)	\$15.5	\$1.24	
Total	\$170	\$13.6	

1.15 Economic Analysis

An after tax, discounted cash flow model was developed to assess the economic performance of the Tonopah Project on a PEA basis. This analysis relies on the mining schedule, capital and operating costs, and recovery parameters discussed in the previous sections of the report. The model assumes 100% equity funding, a 5% discount rate, and a gold price of \$1,400/oz. The results of the analysis are shown in Table 1-5 and Table 1-6. The analysis presented is a preliminary economic assessment which includes inferred resource and the positive economic outcome presented does not delineate a mineral reserve.

The economic analysis for the PEA is based on mine plans derived from a subset of the mineral resource declared in Section 14.12.

(USD million)	Base Case
Gold Price (\$/oz)	\$1,400
Pre-Tax Economics	
IRR	25%
Cash Flow (Undiscounted)	\$69.7
NPV 5% Discount Rate	\$43.6
NPV 10% Discount Rate	\$25.9
Payback (Years)	2.9
After-Tax Results	
IRR	22%
Cash Flow (Undiscounted)	\$60.1
NPV 5% Discount Rate	\$36.3
NPV 10% Discount Rate	\$20.3

 Table 1-5: PEA Economic Results

	Base Case
Gold Price (\$/oz)	\$1,400
Gold Ounces Sold	226,000
Initial Capital ⁽¹⁾	\$58
Sustaining Capital	\$16
Avg Cash Cost of Production	\$754
All in Sustaining Cost (AISC)	\$1,075
Project Life (Years)	6
Total Processed Tonnes (M)	12.5
Average Au Grade (g/t)	0.78
Total Waste Tonnes (M)	57.8
Strip Ratio	4.6
Personnel Employed	135
Average Operating Costs	
Mining Cost (\$/t mined)	\$1.28
Process Cost (\$/t crushed)	\$4.52
Gen & Admin Cost	\$0.66
Offsite marketing and Refining	
(\$/oz)	\$1.50

Table 1-6: Project Details

(1) \$1.0 million is included in capital cost to exercise Viva's Option to acquire 1% of the 2% NSR on the project

The PEA is preliminary in nature, that it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the preliminary economic assessment will be realized.

1.16 Other Relevant Information

The QPs do not believe there is additional relevant information not disclosed in this document.

1.17 Interpretation & Conclusions

1.17.1 Interpretation & Conclusions

Viva has continued drilling to upgrade mineral resources on the Tonopah project, building on a significant database of technical information, drill data, geologic interpretation, and preliminary metallurgical data. The data are of industry standard quality and can be used for resource estimation for the project.

Additional drilling has allowed a reinterpretation of the estimation parameters, which has increased the overall resource as well as increasing the amount of measured and indicated. Further drilling should be targeted at extending mineralization along the direction of continuity of the overall zone at about 110° azimuth. Additional interpretation in the NNW trending structures and structural intersection zones should be valuable to increase the confidence in the estimate of high-grade resources.

The Tonopah project contains a significant gold resource with good continuity at relatively low cutoff grades, and with significant contribution from higher-grade zones. The resource as reported is contained within a pit shell and appears amenable to open pit mining methods. Metallurgical test work to date shows that the deposit is amenable to cyanide leaching. Initial Column leach test work provides preliminary recovery projections for the Tonopah project.

The PEA used mine designs based on a subset of the total current mineral resource, and indicates that at the gold prices considered, the project showed potential to be developed as a mining operation. The economic portion of the deposit shows potential to continue expanding to the ESE as well as towards Midway Hills to the WNW following the updated mineral resource estimate presented herein.

1.17.2 Risks and Uncertainties

The Tonopah project is subject to risks and uncertainties typical of gold projects, particularly risk in commodity prices and the precious metals equity markets. Lower metals prices or lack of precious metals equity market interest or activity could render the project uneconomic or reduce access to project financing.

Specific risks to the project exploration and subsequent mine development center primarily around water use and non-degradation of waters, cultural resources mitigation, management of sensitive biological resources, and public road relocation, as discussed in Section 4, Section 24, and Section 20. Each of these risks appears to be manageable; however, there is potential to increase the operating or capital cost for the project, or delay or stop development activities.

The existing exploration data appear to be of high quality, but errors or omissions in the database could potentially reduce the reliability of resource estimates prepared using this information, which could negatively impact the project.

1.18 Recommendations

The QPs recommend that ongoing digital database additions/upgrades continue so that the complete database includes all assay data, including gold, silver, and trace element geochemistry, all available primary observational data on lithology and alteration, and appropriate and available metadata about drilling, sampling, and survey. This will improve the reliability and verifiability of the assay database, as well as making alteration and trace element geochemistry available for geological and geometallurgical modeling efforts.

The QPs recommend that additional specific gravity determinations be made, especially in the more distal parts of the deposit. Previous work has focused on the high-grade areas around the Dauntless and Discovery faults. Geometallurgical modeling and metallurgical testing is also recommended to support cost and recovery assumptions for further studies.

An existing inventory of oriented core from various areas on the project, some from peripheral (near-pitwall) areas, and some from the center of the deposit was reviewed in a 2020 Geotechnical Prefeasibility Study (Call & Nicolas 2020) and utilized to produce an initial geotechnical evaluation of pit slope angles approximately confirming pit slope angles used in this study. The QPs recommends that additional oriented core be drilled as part of ongoing drilling operations in various pit sectors, as the mineral resource expands. It is recommended that Viva continue advancing the Tonopah Project by completing a Pre-Feasibility Study to establish reserves and to clarify the economic potential of the project.

The QPs recommend that exploration be focused on two areas: First, there are areas of inferred mineralization within the PEA pits which should be targeted to confirm grades and to potentially improve classification to measured and indicated. Second, the eastern and western sections of the resource area have potential for expansion to the east and west, which would have the potential to expand the resource and to reduce stripping in the eastern and western portions of the pit. Exploration drilling should be targeted to step out from both the eastern and western extents of the estimated resource.

1.18.1 Specific Work Plan:

A proposed drilling program is recommended in two segments consisting of approximately 2,500 meters of RC drilling each. The focus of the exploration will be the eastern and western extension of the main zone, the southern extent of the Dauntless zone and the western extent of the south pit trend. The work plan for the first phase of drilling has been submitted and awaiting approval. Samples from these RC holes could also provide additional fresh material for metallurgical samples.

Metallurgical test work should be completed with the objective of providing information for cost and recovery assumptions to be incorporated into future studies, as well as to refine process design criteria.

A part of the specific work plan includes long-lead baseline work for environmental monitoring, geochemical, biological and cultural resources studies and surveys, in support of the development efforts. Also, recommended is to complete a Pre-Feasibly Study (PFS) with the intention to clarity the economic potential of the project and to potentially declare Mineral Reserves.

The proposed work plan, including completion of a PFS, metallurgical and exploration drilling, metallurgical test program and ongoing environmental test work, is estimated to cost approximately \$2.37 million.

Category	Estimated Cost	Notes
Exploration	\$1,600,000	
RC Drilling - Phase 1	\$800,000	12 - 14 holes, 2,500 meters drilling, work plan submitted
RC Drilling - Phase 2	\$800,000	2,500 meters drilling
Metallurgical	\$115,000	
Test work - Phase 1	\$65,000	Bottle Roll, Column Leach, CIL test work
Test work - Phase 2	\$50,000	
Environmental	\$255,500	
Hydrology Studies	\$102,000	
Biologic Studies	\$49,500	
Humidity Cell Testing	\$57,000	
Raptor Surveys	\$17,000	
General Consulting	\$30,000	
Engineering/Studies	\$300,000	
Pre-Feasibility Study	\$350,000	
Plan of Operations	\$50,000	
Total	\$2,370,500	

Table 1-7: Project Budget

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2 Introduction

2.1 Purpose of Report & Terms of Reference

Viva Gold Corp ("Viva") retained Gustavson Associates, LLC. ("Gustavson") to prepare Technical Report for a Mineral Resource Estimate of the Tonopah Project (formerly the Midway Project) located 30 kilometers northeast of Tonopah, Nevada. Gustavson previously prepared other reports on this property:

- June 2020 "Technical Report, Preliminary Economic Assessment" (2020 PEA)
- May 2019 "Technical Report on Resources for the project for Viva Gold.
- March 2018 "Technical Report on Resources" for the project for Viva Gold.
- July 2017 "Technical Report on Mineral Exploration Results for the Tonopah Project" for Aintree Resources Inc. ("Aintree").

Aintree changed its name to Viva Gold Corp on January 8, 2018. For consistency, Viva Gold Corp and its predecessor company, Aintree Resources, will be referred to as Viva throughout this document. The purpose of this report is to update the resource estimate for the project to incorporate additional exploration drilling since the previous 2020 PEA.

2.2 Qualifications of Consultants (Gustavson)

The qualified persons responsible for this report are:

- Donald E. Hulse, PE, SME Registered Member (SME-RM), Principal Mining Engineer, Gustavson Associates is a Qualified Person as defined by NI 43-101 and is responsible for Sections 1-5, 14, 19 20, and 23 26 and for the overall content of this report. Mr. Hulse is independent of Viva.
- Christopher Emanuel, SME Member (SME-RM), Senior Mining Engineer, Gustavson Associates is a Qualified Person as defined by NI 43-101 and is responsible for Sections 16, 18, and 21-22 Mr. Emanuel is independent of Viva.
- Deepak Malhotra, PhD., SME-RM, President, Resource Development Inc., is a qualified person as defined by NI 43-101 and is responsible for section 13, 17 and portions of section 25 and 26. Dr. Malhotra is independent of Viva.
- Edward G. Bryant, AIPG CPG11122, Geologic consultant. Mr. Bryant is a consultant to Viva on drilling, exploration, and geologic matters; thus Mr. Bryant is not independent of the Company. Mr. Edward Bryant has visited the site on multiple dates. He has supervised drilling and data collection, logged core, visited the site offices and reviewed drill core and RC chip trays, as well as visiting the claims, where he observed surface geology, including limited outcrops, and observed locations of capped monitoring wells as well as site access and infrastructure. Mr. Bryant visited the property to observe RC drilling conditions during the 2018, 2019, 2020 and 2021 drilling campaigns. He also observed surface geology, drill pad conditions and drill hole collars in the Midway Hills area. Mr. Bryant is responsible for Sections 6 12 of this Technical Report.

Additional Contributing Authors are:

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- Todd W. Lewis, Technical Consultant, Lewis Environmental Consulting LLC.
- James Hesketh, CEO of Viva Gold Corp

Additional information as to observations from the site visits are detailed in Section 12.

Mr. Lewis has visited the site, twice in 2017 for project and Regulatory Authority inspections. Mr. Lewis supports Viva's environmental and ESG management programs, and contributed text and guidance to Section 20.

Mr. Hesketh contributed text and guidance to Sections 4.2 and 4.3, as well as edits as to form and accuracy and general commentary.

2.3 Effective Date

The effective date of this report is January 1, 2022.

2.4 Units of Measurement

Primary data for the project were historically collected in US Commercial Imperial units. A few historical maps are presented in the original units, and are labeled as such. Part of the effort for this report was updating the project to metric units, and maps and cross sections are generally reported in metric units, including grades, which are reported in parts per million (equivalent to grams per metric tonne). For clarity and consistency for TSX reporting, this report uses metric units for grades and tonnages for resource reporting. Gold quantities are generally reported in troy ounces, as this is the unit of trading for gold. Currencies, with exception of the recommended work programs, which are expressed in current US dollars, are expressed in constant 2020 US dollars.

3 Reliance on Other Experts

Viva staff provided documentation related to environmental status, land and legal maps, deeds, mineral claims and royalty agreements, which were relied upon to support section 4 of the report.

Mr. Todd W. Lewis of Lewis Environmental Consulting was instrumental in reviewing the current status of environmental and cultural resources in the Tonopah Project area, and drafted sections 4.5 and 4.6 of this report. The QPs have reviewed the statements and conclusions therein and believes them to be complete and correct according to the records available.

Mr. James Hesketh of Viva Gold Corp was instrumental in reviewing Mineral Titles, Royalty Agreements, and surface rights agreements, and has provided guidance to the authorship of sections 4.2, 4.3 and 4.4, as well as supporting documentation in the form of legal filings for the statements therein. The QPs have reviewed the statements and documentation and believes them to be complete and accurate according to the records available.

4 **Property Description and Location**

4.1 **Property Description & Location**

The Tonopah property encompasses 10,250 acres in the Ralston Valley, on the northeast side of the San Antonio Mountains in central Nevada, located approximately 30 kilometers northeast of the town of Tonopah in Nye County (Figure 4-1).

The Project site can be found on the USGS Henry's Well and Thunder Mountain 1:24,000 scale, 7.5-minute series, topographic quadrangle maps. The geographic center of the property is located at 38°16'N latitude and 117°04'W longitude. Access to the site is provided by State Highway 376, which intersects Nye County Road 82 (Belmont Road) near the center of the property.

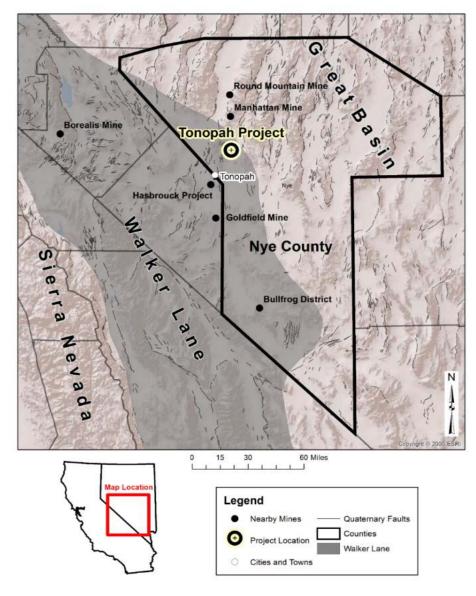


Figure 4-1: Property Location Map

4.2 Mineral Titles

The Tonopah Project mining claims are in Sections 16 to 21, 28 to 30 and 31 to 33 of Township 5 North, Range 44 East (T5NR44E); and Sections 4 and 5 of Township 4 North, Range 44 East (T4NR44E), Mount Diablo Base and Meridian (MDB&M) as illustrated on Figure 4-2. Some claims are also found in Township 5 North, Range 43 East Sections 13, 24 and 25 (T5NR43E).

The Project consists of 513 unpatented lode claims (including 176 royalty claims) covering an area of approximately 10,250 acres. All claims are 100% controlled by Viva; copies of the individual claim notices and location maps are on file with the central Bureau of Land Management (BLM) office in Reno, Nevada, and with the Nye County Recorder's office in Tonopah, Nevada. The list of claims is included as Appendix E - List of Claims.

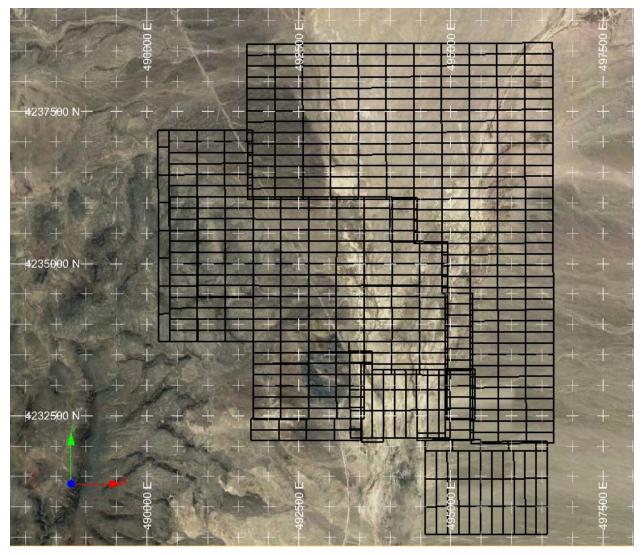


Figure 4-2: Mineral Claim Map

The United States federal law governing locatable minerals is the Mining Law of 1872. This law established a process by which a claimant may locate and extract mineral resources. Location notices for each claim are filed with the BLM and at the courthouse in the county in which the claims are located.

An annual maintenance fee on unpatented claims of US\$165 per claim must be paid to the BLM by September 1 at 12 noon each year. A County proof of labor fee of \$14.50 for the first claim and \$10.50 for each subsequent claim is also assessable on filing of the Federal annual maintenance fees. As of the effective date of this report, Viva is current on all assessment fees.

4.3 Royalties, Agreements, & Encumbrances

The original Midway (now Tonopah) property consisted of 245 claims owned by Paul and Mary Ann Schmidt and Thomas and Linda Patton (Schmidts and Pattons) with each group having a 50% interest. InFaith Community Foundation, a Minnesota nonprofit corporation, now acts as trustee to the Paul and Mary Ann Schmidt 2012 Charitable Trust. InFaith Community Foundation and Thomas and Linda Patton are collectively referred to as the Optionors.

Rex Exploration Corp. (Rex) held an option on the 245 claims under an agreement with the Schmidts and Pattons dated July 2, 2001 and exercised August 5, 2005. Midway Gold Corp (Midway Gold), at the time known as Red Emerald Resource Corp (Red Emerald), held an option on the claims under an agreement with Rex dated August 8, 2001 and exercised October 15, 2002. The original option agreement granted Rex the right to acquire an undivided 100% interest in the Tonopah property by paying the sum of US\$3,000,000 to the owners on or before August 15, 2005. US\$425,000 was paid between August 2001 and August 2004.

In an amendment dated November 2, 2004, the Optionors granted Rex and Midway Gold the option to purchase the property on payment to the Optionors for an additional US\$200,000 (reducing the total purchase price from US\$3,000,000 to US\$625,000) on or before August 15, 2005. At that time, the property would be transferred to Rex free of all encumbrances except for annual advance royalty payments initiating on August 15, 2006. In addition to these payments, Rex fulfilled the requirement to expend not less than US\$1,000,000 on exploration by August 15, 2004. On December 31, 2004, Midway Gold acquired all of the issued and outstanding shares of Rex and assigned the original option agreement to its wholly owned subsidiary MGC on January 1, 2005.

MGC was required to pay to the Optionors an annual advance on royalties that would be payable from commercial production of US\$300,000 on or before August 15th of every year until the Project achieved commercial production. These advances were to be credited against future royalties should the Project start commercial production. Once commercial production started, the production royalty would have been based on a sliding Net Smelter Return (NSR) increasing from a 2%NSR at \$300 per ounce gold to a maximum 7% NSR at \$700 per ounce in increments of 1% for every \$100 of price increase.

In 2002, Newmont Mining Corporation entered into a joint venture (JV) agreement with Midway Gold. The JV was terminated in 2004 and Newmont transferred all claims within the agreement's area of interest to Midway Gold, which subsequently assigned them to MGC.

On June 22, 2015 MGC, together with Midway Gold and its affiliated debtors filed petitions under the US Bankruptcy Code (Chapter 11 of Title 11) in US Bankruptcy Court in the District of Colorado. Viva submitted a bid in Bankruptcy Auction to purchase the original property from the debtors. Viva entered into a Royalty Deed Modification and Waiver of Claims Agreement on March 24, 2017 with the Optionors.

The Optionors agreed to support Viva's bid to purchase the property free and clear of the Optionors original royalty and unpaid advanced royalty payment claims against the debtors by terminating the existing royalty agreement with Midway and replacing it with a new royalty agreement negotiated (termed the "Royalty Modification Agreement").

The details of the modified royalty deed and waiver of claims is as follows:

- Upon commercial production the Royalty Modification Agreement granted to the Optionors a 2% NSR over a total of 176 unpatented lode mining claims in the RD08 to RD106 claim group, the RV31 to 41 group, the SP#1 to SP#127 group, the SP4 to SP382 group, the MW26 to 119 group, and the MWAY 649 to 655 group. The claim groups are discontinuous in numerical order.
- Upon commercial production, the Optionors will receive a 2% royalty based on the Net Smelter Return
- Viva paid \$25,000 to each of the two royalty holders
- Viva issued 750,000 common shares to each of the two royalty holders
- Viva has the option to buy down 1% (half) of the 2% royalty at any time by paying the Optionors \$1.0 million in cash or immediately available funds.

4.4 Surface Rights

The surface rights of the unpatented claims located in Sections all Sections, with the exception of Section 32, T5N R44E, are managed by the BLM. Those surface rights located in Section 32 are on lands under private ownership through the Stock Raising Homestead Act (SRHA) of 1916. This land was transferred to private ownership under SRHA to allow ranchers to privatize lands deemed to be of no value except for livestock grazing and the growing of forage. The federal government retained the subsurface mineral rights, where the right to surface access is granted subject to various conditions under the1872 Mining Law. Viva controls the mineral rights underlying Section 32 as unpatented mining claims. The BLM expects good faith negotiations with the landowners for activities conducted on their surface rights. The Town of Tonopah and two individuals are the owners of the surface rights in Section 32, who allowed the earlier staking of the unpatented claims by agreement.

All surface infrastructure and disturbance in the conceptual designs for the PEA are located on BLM surface.

4.5 Environmental Liabilities

The BLM DR and FONSI authorize surface disturbance for up to 75 acres for mineral exploration and support activities. Viva's current reclamation bond liability deposited with the BLM Nevada State Office is \$100,058 for reclamation of disturbance authorized under Casefile NVN-076629. To-date only 10.1 acres of public land and 0 acres of private land of the total 75 acres of public and private land have been disturbed and remain under reclamation bond. The 10.1 acres will require reclamation prior to release of bonds.

Viva is not aware of any current environmental liabilities not identified in this Report resulting from prior Operators' mineral exploration and testing operations. Field inspections by Agency staff and Viva support staff confirm the existence of water supply and groundwater monitoring wells that require plug and abandon following completion of exploration or potential subsequent mining operations. BLM and Bureau of Mining Regulation and Reclamation (BMRR) regulations require sufficient reclamation bonding to ensure ultimate completion of all reclamation obligations. Review of Company and Agency records do not report the current presence of residual hydrocarbon (diesel, lubricants, etc.) products resulting from exploration drilling operations in the Project area.

Field inspection of the site by the BLM and BMRR is conducted periodically. No citations or warnings have been issued, and no fines or penalties were levied for any environmental or regulatory issues pertaining to the Project under Viva's ownership.

Technical issues, requirements and practices related to non-degradation of ground waters of the State, cultural resources preservation, and mitigation of potential impacts on sensitive plant and wildlife species, are not dissimilar to those encountered and managed at mineral exploration projects located elsewhere in the Great Basin of Nevada.

4.6 Required Permits and Status

Viva has assumed the permits and authorizations necessary to conduct mineral exploration activities on both public and private land. Authorizations assumed include:

- Decision Record (DR) and Findings of No Significant Impact (FONSI) issued by the United States Department of the Interior Bureau of Land Management (BLM) Casefile NVN-076629, and
- Reclamation Permit 0210 issued by the Nevada Division of Environmental Protection (NDEP) Bureau of Mining Regulation and Reclamation (BMRR).

Temporary groundwater appropriations were issued by the Nevada Division of Water Resources (NDWR) to supply exploration drilling water from an existing well in the Project area. On November 17, 2021 the NDWR granted an extension to use the project's existing water supply well for exploration and fugitive dust suppression purposes through November 17, 2022. The use is restricted to dust control and drilling purposes, and must not exceed five acre-feet per annum.

Viva also assumed two exploration Notices of Intents (NOI's), NVN-095436 and NVN-095437, the East and North Basins. Reclamation bonds currently posted in regards to these NOI's amount to \$3,294 and \$4,182 respectively. The NOI's involve existing groundwater monitoring and injection wells constructed and used by Midway for groundwater re-infiltration and injection testing. These two NOI's have been terminated, the wells plugged and abandoned, and reclamation vegetation success demonstration is ongoing. Bonds will be released on acceptance of demonstration of vegetative success by the BLM.

4.7 Other Significant Factors & Risks

Risk factors to exploration and subsequent mine development center primarily around water use and nondegradation of waters, cultural resources mitigation, and public road relocation(s).

Sub-surface aquifers in the Ralston valley are the primary water source for the Town of Tonopah. Tonopah is located on a heavily mineralized regional trend (Walker Lane Trend) that has been well exploited, and where ground waters are naturally impacted by naturally-occurring arsenic content inherent in the geology. Elevated naturally-occurring arsenic concentration in groundwater creates issues relative to United States Environmental Protection Agency (EPA) and NDEP Bureau of Safe Drinking Water (BSDW) public drinking water supply standards. TPU's wellfield water supply and distribution system had been located entirely downgradient from the project, below the confluence of the Walker Lane and Sweetwater subsurface aquifers. TPU had difficulty meeting both BSDW and EPA arsenic standards with this wellfield. To rectify this issue, TPU in August 2012, drilled two additional water production wells upgradient and to the north and east of the Project, located entirely in the Sweetwater aquifer. This allowed TPU to cease primary reliance on its prior downgradient wellfield as the source of the Town potable water supply. A water pipeline and 15 Kilovolt (Kv) power line were extended across the eastern side of the Tonopah project claims to support this new water production field, which is meeting all Town water needs, while also meeting EPA and BSDW drinking water standards. The power line is lightly utilized, connects to the Nevada Energy power grid, and may be upgraded under existing permits to a 25 Kv service. This power line may have sufficient capacity, subject to additional study, to meet the needs of a production operation at Tonopah and water may potentially be commercially purchased from the pipeline through TPU for the project. TPU, by taking water out of the aquifer ahead of the project location, may help to reduce future dewatering rates for the Project.

With respect to cultural resources matters, Viva's exploration activities are required to meet all Federal and State cultural resources regulations and stipulations. Initial wildlife baseline surveys report presence of certain rodent and raptor species in or near the project area. Mitigation may be required by Federal and State regulations and stipulations to minimize impacts of exploration and a future mining project on these biological resources.

A third risk factor includes the potential for local relocation of either or both of Nevada State Route (SR) 376 and Nye County Road 82 (Belmont Road) depending on the scope of a future mining project. This will not be an issue during exploration. SR 376 runs proximal to the Project and may not require relocation. Belmont Road crosses the principal area of mineralization in the Project and may be impacted. This risk is viewed more as a cost and time factor than as a threat to the project as both roads are generally lightly travelled by local traffic, especially Belmont Road. If any road relocation is necessary due to potential mining operations, Viva would work with the Nye County Road Department, and the Nevada Department of Transportation.

5 Accessibility, Climate, Local Resources, Infrastructure, & Physiography

5.1 Topography, Elevation, Vegetation and Climate

Local terrain at the Tonopah site is gentle to moderate with seasonal streams and broad washes separating the surrounding pediment slopes near the Ralston Valley bottom. In places, seasonal streams have cut deeply incised channels. Elevation at the property ranges from 1,750 to 2,100 meters above sea level. Vegetation is typical of high-altitude desert in central Nevada, dominated by desert scrub plant species including shadscale, spiny horsebrush, budsage, winterfat, and prickly pear cacti. Sandy hummocks within defined drainage areas are dominated by greasewood, rubber rabbitbrush, quailbush, and bush seepweed. A few weedy species (cheatgrass, halogeton, Russian thistle, poverty weed, and mustards) reportedly do exist within the project area (Gustin, et al., 2005; U.S. Bureau of Land Management, 2003).

The local climate is typical for the high desert of central Nevada and the Basin and Range province. Data from the Western Regional Climate Center (WRCC) shows an average of 12.6 cm of total precipitation per year 36.6 cm of average total snowfall. Average temperatures range from 4.5°C in the winter to 17°C in the summer at Tonopah, Nevada, and daytime temperatures commonly exceed 33°C during the months of July and August (WRCC, 2009). Work can be conducted year-round at the property.



Figure 5-1: Aerial Photo of Tonopah Project Area during 2007 Drill Campaign, Looking SW

5.2 Accessibility & Transportation to the Property

Access to the Tonopah Project site is provided by State Highway 376, a paved road that intersects Nye County Road 82 (Belmont Road) near the center of the project area. It is approximately 30 kilometers, via paved road, from Tonopah, Nevada to the Tonopah property. The property is accessible year-round.

5.3 Infrastructure and Local Resources

The Tonopah Project is wholly located on Viva land holdings approximately 30 kilometers northeast of the Town of Tonopah, Nevada, in the Midway (also known as Rye Patch) Mining District.

The town nearest to the project site, Tonopah, Nevada, hosts a population of approximately 2,607 residents according to the Town of Tonopah website. Nye County hosts an area population of over 43,000 as of 2017.

Electrical power is available from the Tonopah well field line, approximately 5 kilometers east of the project area. Exploration campaigns use water from a well located on site for exploration, or purchase water from TPU, for exploration drilling water and fugitive dust suppression. Water rights for exploration, mine production and process efforts will need to be secured. Potential sources to meet additional needs for water include purchase of water from TPU's wellfield, and acquisition of excess water rights available near the

towns of Manhattan and Round Mountain, up-drainage from the project area. The Ralston Valley Hydrographic Basin, where the project resides, is a designated groundwater basin per the Nevada State Engineer; however, purchase or lease of existing permitted water rights or new temporary water rights may be permitted on application to the Division of Water Resources.

Logistical support is available in Tonopah, which currently supports the Round Mountain Mine just 50 kilometers north of the Tonopah Project. The surrounding region has a long history of mining activity, and mining personnel and resources for operations at Tonopah should be available from the local and regional communities.

5.4 Sufficiency of Surface Rights

Surface rights are described in section 4.4. This PEA outlines a mining area and operating footprint which will assist in understanding what surface rights might be needed for eventual development of the project. However, surface rights for eventual development have not yet been secured.

5.5 Infrastructure

The site has excellent logistics and access for exploration, being a short drive from the town of Tonopah, Nevada, with good road access, communications, and access to contractors and labor. The Las Vegas metropolitan area has a population of approximately 2.7 million people with significant construction and manufacturing infrastructure, and is located 340 kilometers southeast of the project via US Highway 95. There are major Komatsu and Caterpillar dealers and supply depots located in Las Vegas, as well as Cat and Komatsu parts depots and mining-specific machine shops in Round Mountain, approximately 50 kilometers north of the project. Power and water are available, although water rights will need to be acquired.

There is one water production well already on site. Previous hydrological work has been done on the site due to its proximity to municipal water sources as discussed in Section 4.6 of this report. The report by Water Management Consultants Inc. titled "Hydrologic Assessment and projection of Dewatering Requirements" completed in 2008 confirms that pit or underground mine dewatering activities will be required for the Project and that sufficient sub-surface water supply exists in the drainage to meet the needs of both potential production operations and TPU water supply requirements.

A second dewatering study was completed in 2011 by Schlumberger Water Services which established a plan for dewatering prior to shaft or adit development. This report also includes a hydrogeologic groundwater model for the mine area.

Viva does not currently envision an underground mining operation for the project, but the data collected for the hydrological studies will be useful in assessing water management needs for open pit mining. Hydrogeologic monitoring at the project resumed in 2020 and continues with a quarterly frequency. Additional seep and springs studies have also been performed in a 15 kilometer radius around the project.

6 History

6.1 Ownership

The original property consisted of 245 privately held claims which were first optioned in the 1970's. Ownership and operation of the property has changed hands a number of times over the years, and a variety of exploration work has been conducted. Midway Gold gained an option on the claims through an agreement with Rex in 2001 and became the sole owner of the property as of December 31, 2004. MGC, a wholly-owned subsidiary of Midway Gold, conducted exploration drilling, sampling, mapping, and geophysics from assignment of the project on January 1, 2005 through suspension of exploration activities in 2015.

On June 22nd, 2015, Midway Gold filed a voluntary petition for relief under Chapter 11 of Title 11of the United States Code in the United States Bankruptcy Court for the District of Colorado. On March 22nd, 2017 the Court issued an order authorizing the sale of the Tonopah Project by Midway Gold to Viva free and clear of liens, claims and interest pursuant to applicable sections of the Bankruptcy Code.

Viva assumed certain royalty and environmental bonding obligations, outstanding drill road and pad reclamation liabilities, (as discussed in Section 4.6) and provided other valuable considerations, including cash payment. Viva also entered into a Royalty Deed Modification and Waiver of Claims Agreement with underlying royalty holders on the Tonopah Project to waive certain claims by the royalty holders against Midway, eliminate advance royalty payments, and to restructure an onerous sliding scale Net Smelter Royalty (NSR) into a flat 2% NSR structure in exchange for cash consideration and shares of the company.

6.2 Exploration History

Mining and exploration have occurred in the vicinity of the Tonopah Project since the early 1900's. The Tonopah property is located in the Tonopah (or Rye Patch) Mining District. While there is no record of historic gold or silver production at the Tonopah Project site, past production has occurred in the Tonopah Mining District to the south and the Manhattan District immediately to the north of the project area.

At least one shaft and several prospect pits exist as remnants of early mining activity at the Tonopah property, but no data or descriptive information associated with that activity is available. The property was held and explored by Houston Oil and Minerals (Houston) from the 1970s through 1984. Three RC holes were drilled at the property prior to 1981, but it is unclear whether these holes were drilled by Houston or some other company.

In 1981, Felmont drilled 96 RC holes in the Thunder Mountain area, southeast of the Tonopah Project area. No further exploration activity was completed until 1986, when Messrs. Patton and Schmidt staked claims covering the Tonopah property and areas to the north and east. In 1988, Messrs. Patton and Schmidt optioned the property to the Coeur d'Alene Mines Corporation (CDA). CDA conducted preliminary geological, geochemical, and geophysical surveys and drilled three RC holes into targets identified from this exploration. The results of the exploration program were inconclusive and CDA dropped their option on the property.

Rio Algom Ltd., in conjunction with Coeur d'Alene optioned the property in 1989 and completed a similar exploration program, including 42 RC holes. This program was completed in an area to the north-northwest

of the Tonopah Mine (now called the Midway Hills Area) and yielded a best intersection of 4.6 meters of gold mineralization of 16.9 grams/tonne.

Kennecott Exploration Company leased the property from Messrs. Patton and Schmidt in 1992. Kennecott drilled 10 holes in the Midway Hills area in 1992 with limited success. Between 1992 and 1996, Kennecott completed four geophysical programs including airborne magnetic, airborne electromagnetic (EM), gravity, and controlled source audio-frequency magnetotelluric (CSAMT) surveys. Based on the geophysics work, Kennecott switched focus to covered targets east of the Midway Hills. Kennecott ultimately drilled 132 RC holes and four core holes, identifying the Discovery Zone.

In August 1996, Mr. Jay W. Hammitt developed a polygonal resource estimate associated with the Discovery Zone. Golconda Resources Ltd. drilled nine RC holes in the Thunder Mountain area, also in 1996. Tombstone Exploration and Kennecott formed a JV in 1997, and Tombstone drilled 14 RC holes in several different areas at the Tonopah property. Late in 1997, rights to the Tonopah property were returned to Messrs. Patton and Schmidt.

In 2001, Rex Exploration Corporation negotiated to acquire a 100% interest in Tonopah from Messrs. Patton and Schmidt. At that time, Rex also entered into an option agreement with Red Emerald Resources Corporation, the predecessor to Midway Gold. In 2002, Red Emerald became Midway Gold and Rex became a wholly owned subsidiary. Between May 2002 and September 2002, Midway Gold drilled 19 RC and 50 core holes at the Tonopah Project (Gustin et al., 2005; MGC Resources, 2008).

In September of 2002, Midway Gold entered into a JV agreement with Newmont Mining Corporation under which Newmont was the operator. Between 2002 and 2004, Newmont completed a regional exploration program that included additional geophysical surveys in the form of ground and airborne radiometric, magnetic and EM/Time-delay electromagnetic (TEM), gravity, CSAMT, Induced Polarization (IP)/resistivity and a small-scale self-potential test over the Discovery Zone. During this period, 75 RC and 46 core holes were drilled at the Tonopah Project and Thunder Mountain areas. Metallurgical testing was also conducted during 2002, and the Northwest and Thunder Mountain areas were mapped, and regional rock and stream sediment geochemical surveys were completed. The Midway – Newmont JV was dissolved in 2004.

Between 2004 and 2012, Midway Gold drilled 90 RC holes and 73 core holes at the Tonopah Project. Midway also collected geotechnical data from and conducted hydrological studies on many of these holes. During this period, Midway also dropped the Thunder Mountain claim area and shrank the claim position to the current holdings.

Historic drilling at the Tonopah Project is summarized in Table 6-1, including drilling conducted by Midway in 2002 and from 2005 through 2012.

Viva initiated a drilling program in January 2018 for confirmation drilling for the property, and potentially to gather fresh material for metallurgical studies. This program is discussed in Section 10, below.

Company	Year	RC		Core		Total Drill Holes	Total (m)
		No.	m	No.	m		
Felmont	1980-1981	92	9,214			92	9,214
Coeur d'Alene	1988	3	328			3	328
Rio Algom	1990-1991	41	6,026			41	6,026
Kennecott	1992-1996	133	20,486	4	553	137	21,039
Bob Warren	1994	3	361			3	361
Golconda	1996 - 1997	9	515			9	515
Tombstone	1997	14	1,980			14	1,980
Midway Gold	2002	20	3,304	49	4,832	69	8,136
Newmont	2002 - 2004	84	12,692	38	8,022	122	20,714
Midway Gold	2005	22	2,739	1	43	23	2,782
	2006	44	6,899	19	1,289	63	8,188
	2007	11	1,436	8	967	19	2,403
	2008			16	1,051	16	1,051
	2011			26	3,970	26	3,970
Total		476	65,980	161	20,727	637	86,707

Table 6-1: Tonopah Project Historic Drilling (Pre-Viva Gold)

6.3 Historical Mineral Resource Estimates

In 2005 Gustin and Ristorcelli completed a Mineral Resource Estimate as part of the, "*Updated Summary Report Midway Gold Project, Nye County, Nevada (2005)*". The estimate was based on 195 drill holes which supported a data base of 8,860 composites. The Inferred Mineral Resource totaled 5.526 million short tons at 0.039 opt Au at a 0.01 opt Au cutoff. This estimate was superseded by the Gustavson 2011 estimate based on an underground mining concept.

Gustavson (March 2011) estimated a mineral resource for the Midway (now Tonopah) project of 114,000 short tons at 0.10 opt Au cutoff in the inferred category, with an average grade of 0.3017 opt Au, containing 34,400 oz gold. This resource was disclosed in a 43-101 report on resources by Midway Gold Corp, the previous owner of the property. The 2011 study focused on estimating resources for a small underground mining target as reflected by the elevated cutoff grade. This estimate is superseded by the current resource estimate disclosed in this report.

Thomas Matthews, prepared a resource estimate for Viva Gold based on historical drilling and recent drilling conducted by Viva Gold with an effective date of May 15, 2019. The results of this estimate were reported in the May 2019 "Technical Report on Mineral Resources for the Tonopah Project". This estimate is superseded by the current resource estimate disclosed in this report.

Donald Hulse, the qualified person for resource estimation for this report, has not done sufficient work to classify any of the historical estimates as current mineral resources or mineral reserves. Viva is not treating any of the historical estimates, nor the superseded estimates as current mineral resources or mineral reserves. The current mineral resource estimate for the Tonopah property is disclosed in section 14 of this report.

6.4 Past Production & Mining

There is no record of historic gold or silver production at the Tonopah Project site; however, past production has occurred in the Tonopah Mining District to the south and the Manhattan District to the north of the project area.

The QP does not know of any reserves, compliant to US SEC or Canadian National Instrument standards, which have ever been estimated or reported for the property.

7 Geological Setting & Mineralization

7.1 Regional Geology

The Tonopah property is located on the northeast edge of the Walker Lane structural zone, a zone of subparallel, right lateral strike-slip faults that separate the Sierra Nevada batholith from the Basin and Range province (Bonham and Garside, 1979). The project area is situated in the Midway Hills and Rye Patch valley in the eastern San Antonio Mountains, and includes a portion of the Ralston Valley. The San Antonio Mountains are regionally capped by Miocene Red Mountain trachyandesite flows which can reach thicknesses of up to nearly 1,000 ft.

Argillite, chert, limestone, and other fine-grained clastic rocks of the Ordovician Palmetto Formation are exposed in outcrop at the eastern foot of the Tonopah Hills, near the western edge of the Tonopah property. Rocks of the Palmetto Formation strike northwest to east-west, and dip moderately to the north and northeast. Valley fill alluvial, colluvial, aeolian, and playa deposits extend east from the eastern foot of the Tonopah hills into Ralston Valley, masking bedrock geology over most of the Tonopah property. A regional geologic map of the area is presented as Figure 7-1.

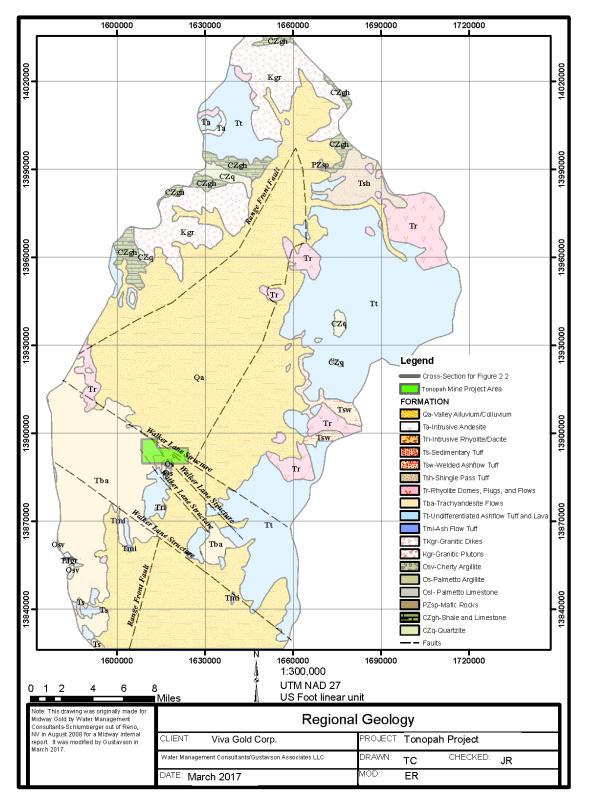


Figure 7-1: Regional Geology

7.2 Local Geology

Local geology in the vicinity of the Tonopah Property is dominated by valley fill deposits including alluvium, colluvium, sand dunes and playa deposits. With the exception of a single outcrop, the goldbearing altered and mineralized zones of the Tonopah deposit are masked by these Quaternary deposits. Argillite, sandstone, and limestone of the Ordovician Palmetto Formation outcrop in the nearby foothills of the Midway Hills, to the west of the property. These rocks are unconformably overlain by felsic volcanic rocks of the Rye Patch member of the Tonopah Formation (MDA 2003, 2005) or Tombstone Formation (MDA 2002, Panterra 2003).

Intermediate to mafic volcanic flows, presumably of the Red Mountain trachyandesite unit, cap most of the hills to the west of the Tonopah property. These rock types are exposed in a series of north-trending ridges that represent stacked, easterly-directed thrust sheets and low amplitude, open to tight folds. Structure is dominated by the northwest trending Rye Patch fault system, a feature typical of the Walker Lane structural belt.

Rhyolite dikes ranging in width from 1 to 20 meters occur in northwest trending dike swarms in the Palmetto Formation. The dikes are typically clay altered with drusy to chalcedonic quartz veinlets and may host anomalous gold mineralization. Similar felsic dikes have been encountered during drilling.

The current understanding of bedrock geology and the distribution of mineralization and alteration in the Tonopah Project area is based on the results of drilling exploration. A map of the local bedrock geology is presented in Figure 7-2.

7.3 Property Geology

The Tonopah property contains a low-sulfidation epithermal gold system associated with near vertical quartz-adularia-gold veins hosted by Ordovician black argillite of the Palmetto Formation (Opa) and Tertiary rhyolitic volcanics. A ten-meter contact zone at the disconformity includes the deeply weathered Opa, and the colluvial/alluvial material at the weathered surface. When mineralized, this zone forms a shallowly dipping, manto-like zone of mineralization similar to the mineralized zones found in the overlaying tertiary volcanic sequences. Gold bearing veins occur in a series of en-echelon clusters along a 2.4 kilometer northwest-trending band of mineralization. Proximal to the major quartz-adularia veins, the wallrock is pervasively altered and mineralized. The main altered and mineralized zones are overlain by alluvial gravels, sand dunes, and playa deposits. An idealized stratigraphic column based on drill core logs is presented in Figure 7-3.

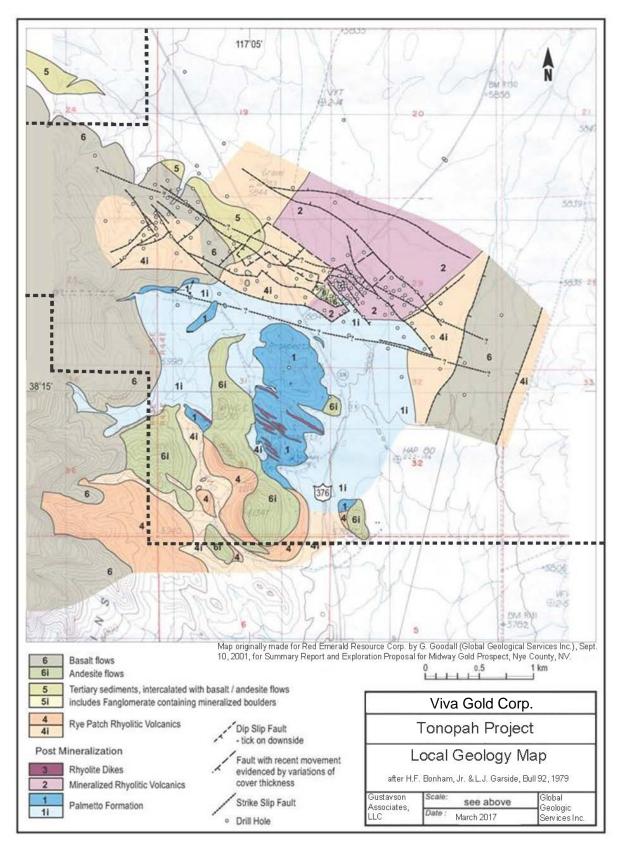


Figure 7-2: Local Bedrock Geology

Period	Formation	Thickness	Host Rocks	Graphical Representation and Description Note: Not drawn to scale			
Quaternary	Alluvium	0 - >210 m			Unconsolidated sand dunes, alluvial and colluvial gravels, and playa deposits extending from the San Antonio Mountains east and north into the Ralston Valley.		
	Tb/Tab	≤300 m			Late Tertiary Red Mountain basalt and andesitic basalt flows.		
	Tit	≤50 m			Tertiary monolithic lapilli rhyolite tuff. Green to whitish pink tuff containing poorly welded pumice, lapilli and crystals.		
	Tag	≤70 m			Tertiary alluvium, gravel, and paleosol between eruptive units containing clasts of re-worked older volcanic fragments. Generally separates the mineralized volcanics from the post-mineral volcanic, but pinches out abruptly and is absent in some areas.		
Tertiary	Tpl2	10 - 30 m			Tertiary polylithic tuff. Matrix supported, crystal-poor, abundant ash matrix.		
	Tpl1	0 - 10 m			Tertiary polylithic tuff. Clast-supported tuff containing lapilli and abundant angular fragments of pink rhyolite tuff, generally crystal-rich. Unit appears breccia-like due to abundant clasts.		
	Тор	0 - 20 m			Tertiary heterolithic rhyolite tuff, crystal rich, containing Opa lithics.		
	Trv/Tvg	3 - 40 m			Tertiary Rhyolitic volcaniclastic greywacke. Poorly bedded, fine to medium grained greywacke with airfall tuff containing silty ash and coarse feldspars in an arkosic matrix. Likely interfingers or grades into well- laminated, interbedded siltstone and volcaniclastic mudstone to the east.		
Cretaceous/ Tertiary	ТКі	0 - 8 m			Quartz monzonite to granitic dikes, fine-grained groundmass with 10-40% crystals of plagioclase, k-feldspar and quartz. The dikes range in thickness from 0.3 - 6 m in drilling intercepts.		
Ordovician	Ора	>110 m		H Real	The Palmetto formation consist of a massive, black carbonaceous siltstone with minor siliceous mudstone beds often referred to as argillite. The argillite has weak phyllitic textures.		

Figure 7-3: Stratigraphic Column at Tonopah Project (After Podratz & LeLacheur, 2014)

Individual lithologic units identified at the project site are described below, from oldest to youngest.

7.3.1 Ordovician Palmetto Formation (Opa)

The Opa is the oldest and deepest unit encountered in drill holes at Tonopah. The Opa is comprised of siltstone, argillite and chert in the drilled area. Bedding dips moderately, ranging in direction from northeast to northwest in oriented drill core measurements (Rhys, 2003). Pre-Tertiary deformation produced tight to isoclinal folds and a crenulation cleavage in Opa rocks; overlying Tertiary volcanic rocks are unaffected

The top of the argillite layer is deeply weathered at the contact with the overlying Miocene and younger volcanic rocks. This surface appears to have been exposed as an erosional surface for a significant period. Other than intrusions, there are not any post Paleozoic rocks deposited in this area until the onset of volcanism in the mid-Cenozoic. This depositional unconformity appears to have persisted for much of the Paleocene and Eocene and possibly longer.

There is evidence for an erosional surface at this horizon in both the core and RC cuttings. A pronounced zone of bleaching and clayey rubble with abundant FeOx persists for approximately ten meters before transitioning to un-weathered argillite. In several core hole the surface exhibits the features of a classic paleosol, with preserved soil, gravel, and cobbles.

7.3.1.1 Disconformity Zone

The top of the Opa is a disconformity at the contact with the overlying volcanic rocks. This disconformity zone is approximately 10 meters thick and encompasses the deeply weathered top of the Opa, coarse clastic material derived from the Opa, as well as coarse clastic material of Tertiary Tombstone Formation origin. This appears to be a thick paleosol and offers a highly permeable zone favorable for mineralization. It can be modeled as a discrete unit.

7.3.2 Tertiary Tombstone Formation

Felsic tuffs and volcanoclastic sediments of the Tertiary Tombstone Formation unconformably overlie the Opa. Subsurface mapping and correlation of horizons in drill core or cuttings is difficult due to textural destruction by hydrothermal alteration and rapid lateral facies changes (Rhys, 2003).

7.3.3 Tertiary Intrusive Rocks

Fine to medium grained, and aphanitic felsic dikes and sills intrude the Opa and Tombstone Formations, commonly filling faults. These intrusive rocks are altered and mineralized similar to those observed in surface outcrop in the Midway Hills and are likely coeval. Relative age and timing relationships indicate the intrusives are younger or partially coeval with the Tombstone Formation and are syn- to pre-mineral relative to the mineralization/alteration events within the Tombstone.

7.3.4 Tertiary Volcanics (Post-mineral)

A variety of rhyolitic to mafic volcanics unconformably overlie the Tombstone Formation, resting on an interpreted post-mineral paleo-surface. These units have not been studied in any detail.

7.3.5 Quaternary Deposits

Quaternary deposits consisting of a heterogeneous mix of locally derived silt, sand and gravel cover the majority of the Tonopah Property. Mixed dune-playa deposits occur in the central and eastern portion of the property in the lowest areas of the valley floor. Sand dunes are generally small, under 30 meters long

and 3 to 4 meters high and are mostly stabilized by vegetation. The mineralized area is buried by 10 to 30 meters of Quaternary cover.

7.4 Structural Geology

Structural geology significantly influences the distribution of mineralization and alteration at Tonopah. The Rye Patch fault system is a complex, oblique-slip fault system with numerous northwest trending splays, believed to be associated with north-south trending compressional stress common in the Walker Lane structural trend. Subordinate steeply dipping, north-south striking extension fractures developed between the two bounding strike slip faults.

Detailed structural studies of bedrock exposures and oriented core from 22 drill holes indicate that alteration and mineralization developed between two moderately northeast dipping faults with right-lateral strike slip movement. Veins and hydrothermal breccias developed along sub-parallel, north-south extension fractures that terminate at the northwest faults.

7.5 Significant Mineralized Zones

Two overlapping mineralized trends have been identified in drilling. The primary trend runs parallel to the west-northwest Rye Patch Fault System, bearing 290-300 degrees over at least 3,000 meters, and 500 meters width, and open along strike. Mineralization within this trend is generally within the lower portion of the tertiary volcanics, and sometime in the uppermost argillites, parallel to the Opa/ Tv contact and is generally low to moderate grade, from 0.1 ppm to 5 ppm Au.

Secondary extensional fractures range from 345 to 360 degrees strike, are near-vertical in dip, and host veins and hydrothermal breccias with higher grade mineralization, ranging from 1.0 to over 30 ppm Au. These extensional fracture zones are best represented in drilling in the Discovery and Dauntless zones.

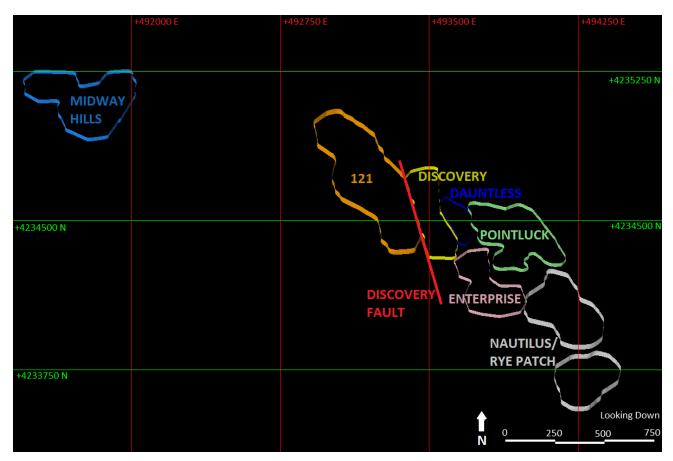


Figure 7-4: Mineralized Zones at the Tonopah project

7.6 Mineralization and Alteration

A discontinuity has been identified in drilling at the top of the Opa, where tertiary volcaniclastics and ashfall tuffs unconformably overlay the argillite. Significant alteration and mineralization are localized within a low-angle zone which includes and often parallels the erosion surface of the Opa, as well as several facies in the tertiary volcanics, particularly where veins and mineralized structures intersect this contact zone.

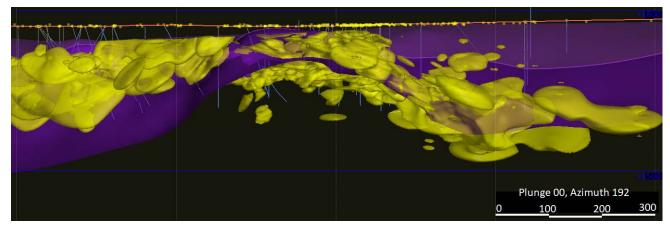


Figure 7-5: Long section looking South (Az 192), showing gold mineralization (gold shell) adjacent to Palmetto argillite contact (purple)

It is interpreted that ascending fluids entering the contact zone deposit precious metals in a favorable chemical and textural horizon in the base of the tertiary volcanics. Figure 7-5 shows the geometry of mineralization along this contact zone. Mineralization within this zone trends parallel to the Rye Patch right-lateral oblique-slip fault system, with a general azimuth of 330 degrees. Higher grade gold mineralization and associated alteration have been identified in a series of north-striking extensional structural zones within the overall mineralized trend, including the Dauntless and Discovery Zones (Figure 7-4). Gold mineralization in the Dauntless and Discovery occurs in zones of massive quartz-adularia alteration in volcanic and volcaniclastic rocks of the Tombstone Formation and in veins, breccias, and silicified faults in both the Tombstone Formation and the underlying Palmetto Formation. Quartz-adularia alteration in the Discovery Zone tends to extend laterally in the Tombstone Formation immediately above and parallel to nonconformable contact with the Palmetto Formation associated low grade disseminated gold mineralization. In the Dauntless Zone, the quartz-adularia forms a funnel-shaped zone that expands upward into the Tombstone Formation above the moderately dipping nonconformity.

Alteration outside of the quartz-adularia zones in the Tombstone Formation is characterized as strong argillic alteration, which persists to the limits of drilling to date. Oxidation is extensive, and only local relict patches of incompletely oxidized pyrite remain in the many of the altered areas.

Significant gold mineralization occurs within the quartz-adularia altered zones, with higher gold grades associated with a variety of siliceous veins, and veinlets including chalcedonic, bladed or drusy quartz, and quartz +/- iron oxide cemented breccias. In the Discovery Zone, to the southwest of the mineralized zones in the Midway Hills and northwest of the Dauntless Zone, there is a strong predominance of steeply dipping north-south trends in mineralized veins and structures of the Tombstone Formation (Rhys, 2003). These structures are interpreted as extension fractures consistent with the structural interpretation described in Section 7.4, Structural Geology.

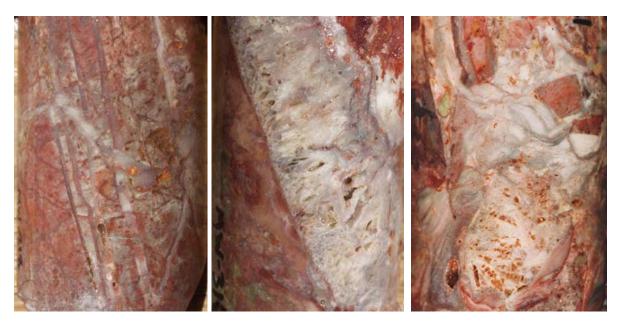


Figure 7-6: Core Photos of Tonopah Vein Structures

The Discovery Zone is the most densely drilled zone at the Tonopah property. Drill holes have intercepted a large number of veins, breccia-veins, and mineralized structures occurring in sub-parallel clusters 3 to 6 meters apart. According to MGC, vein and mineralized structure thicknesses vary from a few centimeters to over 6 meters, averaging 2 meters; Gustavson did not sufficiently review drill core and drill hole data to confirm that estimate. Continuity of veins, vein zones and structures is projected, but not certain, over approximate north-south strike lengths of 30 to 100 meters, and with vertical dimensions that may locally exceed 100 meters. Continuity of gold mineralization and gold grades coincides, approximately, with projections of the veins and structures, but becomes far less certain at progressively higher gold grade cutoffs. At lower cutoff grades, good continuity develops between zones, veins and structures, due largely to lower grade mineralization associated with the discontinuity contact between the Palmetto Formation and the overlying Tombstone volcanics. There is a tendency for well-defined veins in the Palmetto Formation to branch and splay upward into a broader network of veins, vein zones, veinlets in the overlying Tombstone Formation volcanics. Gold mineralization is associated with the veins, breccias and structures, and lower-grade mineralization also spreads laterally in a more disseminated fashion associated with quartzadularia alteration in the Tombstone volcanics. The system remains open at depth in the Palmetto Formation for lack of sufficient deep drilling.

Visible gold is commonly observed in and along the edges of veins, is frequently associated with hematite, and occurs locally in coarse form. Dendritic gold has been observed in core. Examples of visible gold from the Tonopah property are shown in Figure 7-7.

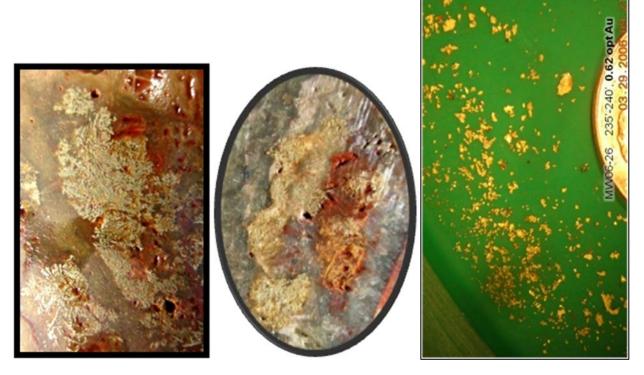


Figure 7-7: Visible Gold from Tonopah Project

Rhys (2003) documents the vertical sequence of veining in the Tombstone Formation:

"Within well mineralized portions of the Discovery Zone, a vertical sequence of veining is frequently apparent in the otherwise massive, intense K-feldspar-quartz alteration zone developed in the Tertiary sequence. High in the zones of K-feldspar-quartz alteration, veinlets are generally rare, but when present, are composed of opaline to chalcedonic quartz, locally with fine-grained drusy quartz lined cavities. Beneath this, significant Au values generally occur within and above a zone containing bladed quartz veins and veinlets that contain lattice-like replacement textures of quartz after calcite. These textures can be traced as a discrete, tabular, 2-to-7-meter thick, shallow northeast dipping textural zone from hole to hole that sits in the upper or central portions of the K-feldspar-quartz altered zone, and which probably records a boiling level in the hydrothermal system. Below this bladed quartz zone, chalcedonic quartz veinlets are common, and progressively increase in abundance downward toward the Palmetto conformity"

Siliceous structures oriented similarly to those in the Tombstone Formation occur in the underlying Palmetto Formation. Veins hosted in the Palmetto Formation form well-defined discrete veins and hydrothermal breccias up to 2 meters wide according to MGC. Alteration in the Palmetto Formation is characterized by argillic alteration extending up to a few hundreds of meters below the nonconformity with the Tombstone Formation. Intense argillic alteration is typically limited to a zone within one to eight meters of the nonconformity, with gradual weakening of bleaching and clay alteration to greater depth. Locally, the zone of intense quartz-adularia alteration in the overlying Tombstone Formation may extend into the Palmetto Formation for a few feet (Rhys, 2003).

8 **Deposit Types**

Alteration and mineralization at the Tonopah property are typical of low-sulfidation, volcanic-hosted epithermal gold deposits found elsewhere in Nevada and around the world. The deposit type is characterized by overall low original sulfide content, and quartz-adularia and clay-sericite alteration assemblages, among others. Vein textures are indicative of high level, near surface emplacement and include void fills, crustiform coatings, colloform banding, and comb structures. Similar deposits in Nevada have proven to be economic, including the Midas and Bullfrog deposits.

The proximity and similarities of the Tonopah property to other gold deposits does not, on its own, indicate that the Tonopah property should be similarly mineralized.

9 Exploration

9.1 Previous Owner's Exploration Work

A total of 637 drill holes totaling 86,707 meters were completed in the greater Tonopah Project area by a number of companies beginning in the 1970's. The work focused specifically on the concealed gold system at the Tonopah Project was conducted beginning in the late 1980's and continued through Midway's ownership.

Early exploration work was focused on establishing the limits of a large, low-grade gold mineralized system located in the upper portion of the Palmetto formation and in the altered lower units of the tertiary volcanics. Previously issued technical reports (Ristorcelli and Muerhoff, 2002; Ristorcelli, 2003; Gustin and Ristorcelli, 2005) are focused on this interpretation for the deposit.

MGC reviewed and compiled subsurface data and targeted exploration on evaluation of higher-grade gold mineralization localized around structural zones, quartz veins, and feeders. MGC used this data to evaluate a model focused on the potential for underground mining vein and feeder zones. The superseded Gustavson 2011 technical report focused on this interpretation of the mineralized system and attempted to model only high-grade veins and feeder zones which might be amenable to underground mining.

Viva is focused on understanding both the higher grade and moderate grade portions of the deposit, as a combined model. This consolidated interpretation is more viable because of Viva's reduced royalty structures and the near surface aspect of the deposit, which allows for potentially reduced cutoff grades.

The record of exploration conducted prior to 2005 was documented in technical reports previously released by Mine Development Associates (MDA) (Ristorcelli and Muerhoff, 2002; Ristorcelli, 2003; Gustin and Ristorcelli, 2005). During the period, MGC completed a large volume of drilling, a reconnaissance soil gas survey, and a limited amount of rock chip sampling in areas peripheral to the mineral system. Physical exploration activity did not occur at the Tonopah property during 2009 and 2010. 26 drill holes were completed during 2011, principally targeting extensions of subvertical vein zone structures. Drill holes completed in 2011 were documented in Gustavson 2017 and Gustavson 2018 and have been included in the resources estimate shown in this report.

Viva's drilling is discussed in section 10 of this report and is included in the resource estimate in Section 14.

The exploration work carried out under previous operators of the Tonopah Project is described in detail in Section 6.2 (Exploration History) of this report.

9.2 Geologic Studies

A number of Geologic studies have been completed, as are referenced in Section 6.2, Exploration History. No geologic studies had been completed by Viva as of the effective date of this report.

9.3 Geologic Mapping

Available geologic mapping to date is summarized in Section 6.2, Exploration History. No geologic mapping had been completed by Viva as of the effective date of this report.

9.4 Geophysical Modelling

A significant amount of geophysical data was collected during historical exploration, as described in Section 6.2, Exploration History. The geophysical database is extensive with uniformly high-quality data. It contains data for eight (8) geophysical techniques applied to gold exploration. All the data were generated by either Kennecott Corporation in the early 1990's and/or Newmont Mining Corporation in the early 2000's. Viva contracted James Wright of Wright Geophysics to review the historical geophysical data in conjunction with the updated geological modelling and drilling information to generate additional insights and drilling targets.

9.5 Surface Sampling

Limited surface sampling has been carried out at the Tonopah property, principally because the main mineralized targets, with the exception of the Discovery outcrop, are covered by post-mineral alluvium, colluvium, and dune sands deposits. Evidence exists to indicate that surface sampling at the western portion of the claim block, where there is outcrop of the tertiary volcanics and Palmetto formation, was completed. Drilling for the last several campaigns has focused on covered areas east of where surface sampling occurred, and the surface samples are not considered material to resource estimation for the Tonopah project.

9.6 Samples in Mine Workings

There are no mine workings of significant extent in the main project area. There are some small prospect pits in the hills to the western portion of the claim block, which have been sampled at surface. Again, this is outside the main mineralized area and not considered material to resource estimation for the project.

10 Drilling

A total of 691 holes totaling 95,959 meters have been drilled at the Tonopah Project. 637 of these were completed prior to the acquisition by Viva Gold. Existing drill holes include 12 reverse circulation and auger holes drilled by Midway Gold for hydrology studies, and 12 diamond core holes drilled for geotechnical studies. A number of these drill holes are outside the current resource area, including 100+ holes drilled in the Thunder Mountain area, which is no longer part of the Tonopah Project, and approximately 200 holes drilled west of the current resource area. Drill hole data for the Project is summarized in Table 10-1, and drill hole locations are shown on Figure 10-1. A complete list of drill holes, including year drilled, coordinates, drilling campaign, azimuth and dip, is included as Appendix D.

Viva initiated a drilling program in 2018 designed first to confirm the historical database and secondarily to extend mineralization by targeting areas of inferred which could be upgraded to measured and indicated categories, as well as to provide fresh material for metallurgical test work. Viva initiated additional drill programs in 2019, 2020 and 2021 for exploration and infill drilling. Viva has drilled a total of 9 Core and 45 RC holes totaling 9,652 meters during the 2018-2021 drilling campaigns.

Company	Year		RC	Core		Total Drill Holes	Total (m)
		No.	m	No.	m		
Felmont	1980-1981	92	9,214			92	9,214
Coeur d'Alene	1988	3	328			3	328
Rio Algom	1990-1991	41	6,026			41	6,026
Kennecott	1992-1996	133	20,486	4	553	137	21,039
Bob Warren	1994	3	361			3	361
Golconda	1996 - 1997	9	515			9	515
Tombstone	1997	14	1,980			14	1,980
Midway Gold	2002	20	3,304	49	4,832	69	8,136
Newmont	2002 - 2004	84	12,692	38	8,022	122	20,714
Midway Gold	2005	22	2,739	1	43	23	2,782
Midway Gold	2006	44	6,899	19	1,289	63	8,188
	2007	11	1,436	8	967	19	2,403
	2008			16	1,051	16	1,051
	2011			26	3,970	26	3,970
	2018	16	2,195	4	576	20	2,771
Viva Gold	2019	16	2,168			16	2,168
	2020	10	2,769	5	604	15	3,373
	2021	3	1,940			3	1,940
Total		521	75,052	170	21,907	691	96,959

Table 10-1: Drill Hole Data Summary at Tonopah Project

Figure 10-1: Exploration Drilling at the Tonopah Project.

10.1 Drill collar Survey Update

Following the 2019 drilling campaign, Viva conducted a review of all collar survey location data for the Tonopah project. This effort had been previously recommended by Gustavson geologists to resolve concerns about location data from the various drilling campaigns because historical databases are found to have location data in NAD 83 and NAD 27 projection systems, as well as two separate local grids, and because there had been conversions back and forth between US survey feet and metric units.

This review was intended to accomplish two objectives. First, any remaining concerns about collar locations for the projects may be resolved, allowing for higher confidence in the resource models. Secondly, as permitting maps at Tonopah are filed in UTM meters, it is useful to update all project databases, resource estimates, maps, and planning documents to UTM meters as part of the PEA.

To conduct this review, Viva reverted to historical drill collar location data from original log forms and survey sheets, with careful note of the original projection system and coordinate type. Second, all locations were converted to UTM using the National Geodetic Survey Coordinate Conversion and Transformation Tool (NCAT) which accounts both for both translation and rotation adjustments between survey systems.

Most drill hole locations were found to be within 2 meters of the previously recorded location data. However, certain batches of data were found which show offsets of up to 10 meters. It appears that these shifts are related to conversion errors between metric and imperial coordinates. (too few decimal places used in the conversion, which has impact on UTM scale numbers.)

Viva has cross-checked drill hole locations where available by comparison with handheld GPS, and is confident that the updated location data are consistent with field observed locations.

The QP has reviewed Viva's work on recompiling survey data and believes the updated information, subject to the degree of accuracy of the original surveys, is the best available location information for the drill holes.

10.2 Drilling Procedures and Conditions

Core logging and drilling conditions prior to 2005 have been described by previous independent reviewers. Drilling procedures described by Gustin et al. (2005) indicate that industry standards were practiced from 1981 to at least 1997. Industry standards were also practiced with regard to drilling, logging and chain of custody from 2002 through 2004. Given the presence of coarse and visible gold at Tonopah, care must be taken with regard to sample collection during both core and RC drilling. Water used during RC drilling may contribute to sample bias, and core samples need to be large in order to provide a representative analytical sample.

Detailed information regarding drilling campaigns prior to 2005 is included in technical reports produced by MDA (Ristorcelli and Muerhoff, MDA, 2002; Ristorcelli, MDA, 2003; and Gustin and Ristorcelli, MDA, 2005). That information is summarized in earlier sections of this report and is not repeated here in detail.

MGC contracted Diversified Drilling of Missoula, Montana to perform reverse circulation drilling in 2005, and Layne Christensen, Las Vegas, Nevada, was contracted for all reverse circulation drilling during 2006-

2008. Kirkness Diamond Drilling Co., Inc. and M2 Core Drilling and Cutting, Inc. provided core drilling services in 2007 and 2008, respectively.

The 2011 Core Drilling campaign was completed by KB drilling of Mound House, Nevada, using a track mounted Versa KMB 1.4 Drill Rig equipped with HQ3 tools for use of split tube. Drill hole collars were initially located with handheld global positioning system (GPS) units, and surveyed afterward by Trimble GPS using UTM NAD 83, Zone 11 projection. Down-hole surveys for each hole were completed by International Directional Services of Elko, Nevada, using a Surface Recording Gyroscope, model DG-69. Upon completion of drilling and down-hole surveying, the holes were abandoned according to Nevada State regulations

During 2018 through 2021, Viva has run several programs of both reverse circulation and core drilling. Drilling was supervised by Mr. Ed Bryant who was responsible for sample collection and security. Holes were spotted using handheld GPS.

In 2018 and 2019 RC holes were drilled by the George DeLong construction Company of Winnemucca Nevada. Survey, and Major Drilling America Inc. drilled the 2018 core campaign. In 2019, 2020, and 2021 Drillright LLC drilled RC holes as well as PQ core holes in 2021. Downhole gyroscopic surveys for all Viva campaigns were performed by International Directional Services of Elko, Nevada.

10.3 Drill Hole Logging

Available core and RC chips from drilling prior to 2002 were re-logged and entered into the Tonopah Project drill hole database by Newmont geologists. Between 2002 and 2004 all core was photographed, logged, and entered into an electronic drill hole database. Data captured during core logging included geology and RQD measurements. The drill hole database is stored electronically and in hardcopy at the Tonopah, Nevada project office. The drill hole database includes all existing drill logs, analyses, photographs, drill collar locations and down-hole survey information for the Tonopah Project. Viva continues to adhere to the same procedures established by Newmont.

10.4 Sample Procedure

Gustavson personnel were not on-site during any of the drilling programs conducted prior to 2011, and rely on historical reports regarding sample handling and security.

Core sampling procedures remained essentially the same through the transition from Newmont to Midway Gold to Viva as operators. RC chips were logged at the drill site. Both core and RC chips were stored at the drill site until taken core storage warehouse in Tonopah, where drill core was photographed and logged.

Core was generally sampled in five-foot intervals, but sample intervals do not extend across distinct geologic breaks. Core samples were split by mechanical or hydraulic splitters, or sawed into two halves, with half samples placed in cloth bags that have been pre-numbered with a unique sample identification number. The sample identification did not contain the drill hole name, drill hole number, sample depth or sample length. A sample tag was also placed in each bag. Core samples were picked up by ALS Chemex or American Assay for analysis. One half of the core was retained in the Tonopah warehouse facilities and half submitted for analysis.

Sampling of the RC cuttings was done by the drilling contractor under the supervision of the Viva geologist. RC samples were collected on 1.52 m (5 ft) increments over the entire hole. All RC drilling used water as a drilling fluid, partly because water was injected down the hole in order to minimize dust (in accordance with BLM requests), but also because all holes intersected ground water at some point. The sampled cuttings were placed in cloth bags, which were pre-labeled with sample ID numbers. Labeling of RC samples was guided and managed by the geological contractors [or employees or consultants], but not necessarily done by them. Samples were given a unique label, which did not relate to either drill hole or depth and only the company and their geological contractors knew the relationship between sample and location. A sample tag was placed in each bag. Representative samples of drill cuttings were collected and stored at the drill site. Chip samples were collected for each five-foot interval.

The RC cuttings remained under the supervision of site geologists each day until the end of shift, at which time the geological contractors took them to a secure sample storage area. The samples remained stored until picked up by ALS Chemex or American Assay. The laboratory generally picked up the core and RC samples about two times per week.

For both RC and drill core, duplicate samples were collected approximately every 31 m (20 samples) [see the QA/QC comments in the Sample Preparation, Reference standards and blanks were each inserted every 20 samples and periodic duplicate samples were collected.

10.5 Viva Drilling Campaigns

Viva has drilled 54 reverse circulation and core holes since acquiring the property in 2017. Drilling was targeted to verify the historical database, to upgrade inferred mineralization to measured and indicated by targeting inferred mineralization, to provide material for ongoing metallurgical test work, and to test mineralized extensions through step-out drilling. Figure 10-2 shows drill hole locations from the resource area, extending west to the Midway Hills area. Collars from the 2020 and 2021 drill campaigns are labeled in green while past drill collars are shown in blue.

Mr. Bryant visited the site and observed drilling during the 2019, 2020, 2021 drilling campaigns and found drilling and sampling conditions to be consistent with industry standards.

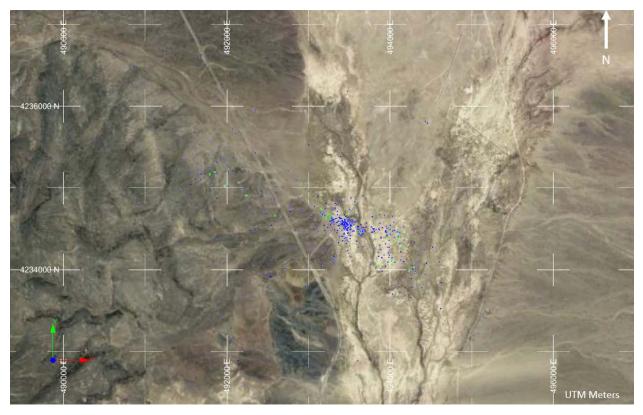


Figure 10-2: Plan view of drilling

10.6 Tabulation of Viva Drilling Results

The results of Viva's 2018-2021 drilling campaigns are presented in Appendix C. Grades intersected are consistent with surrounding drill holes and with grade estimates from the 2022 resource model, which constitutes positive validation of the historical database. Because of the complex relationship between subvertical high-grade mineralization and low-angle, lower grade mineralization, it is difficult to estimate true thicknesses for the various drill hole intersections. In general, the QP, Mr. Bryant expects that true thicknesses for these intersections are 70-80% of the lengths indicated.

10.7 Cross Sections of Drilling Results

Because of the large number of historical drill holes completed at the Tonopah project, Mr. Bryant believes that showing typical cross sections through the mineralized zones is more representative of drilling results than a tabulation of drilling results, particularly with regard to interpretation of true thickness and continuity of mineralization.

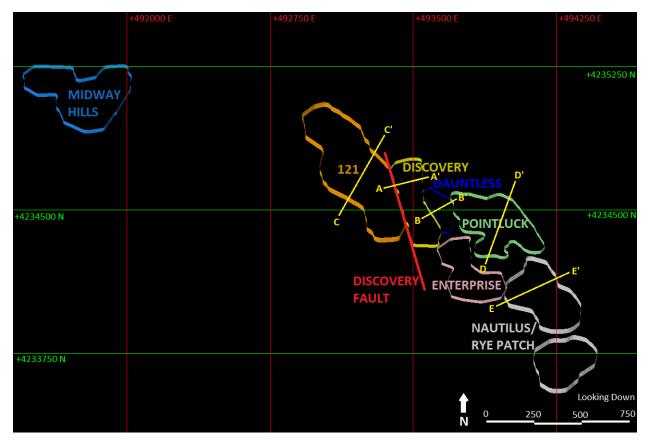


Figure 10-3: Mineralized Zones at the Tonopah project and cross section traces for Section Lines. Section A-A' corresponds to Figure 10-4, Section B-B' corresponds to Figure 10-5, Section C-C' corresponds to Figure 10-6, Section D-D' corresponds to Figure 10-7, and Section E-E' corresponds to Figure 10-8.

A plan view of drilling with section traces is shown in Figure 10-3. Figure 10-4 through Figure 10-8 show 30-meter-thick sections through the deposit. Lower-grade mineralization is typically associated with the contact zone between the Tertiary volcanics and the underlying Ordovician argillite. Higher-grade mineralization sometimes parallels these zones, but also may be associated with subvertical structural zones. In the figures below, the Opa upper surface is shown as purple and Tv Upper Surface is shown as orange.

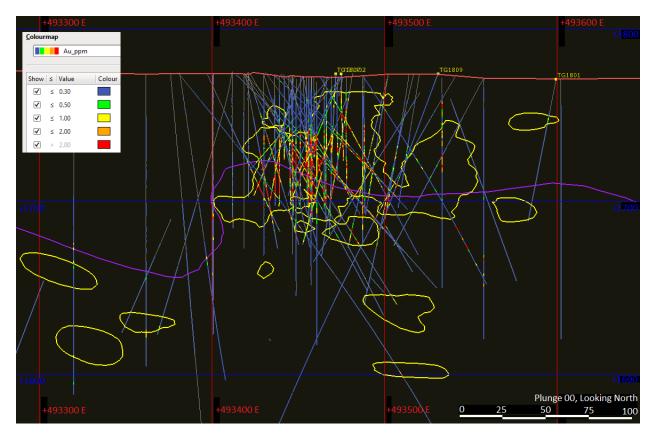


Figure 10-4: Cross Section through Discovery Zone Mineralization (Section A-A' from Figure 10-3)

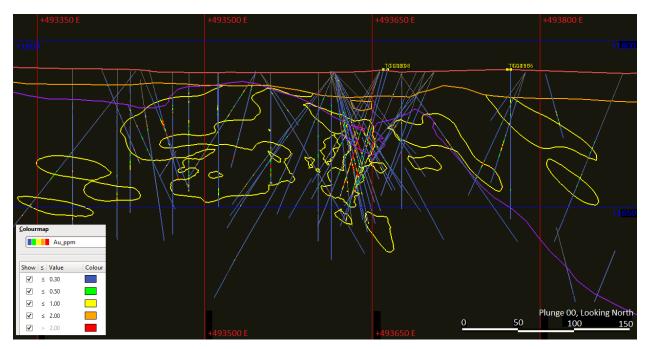


Figure 10-5: Cross Section through Discovery (Left) and Dauntless Zone (Center) Mineralization with 2018-2019 drill holes identified in gold text (Section B-B' from Figure 10-3)

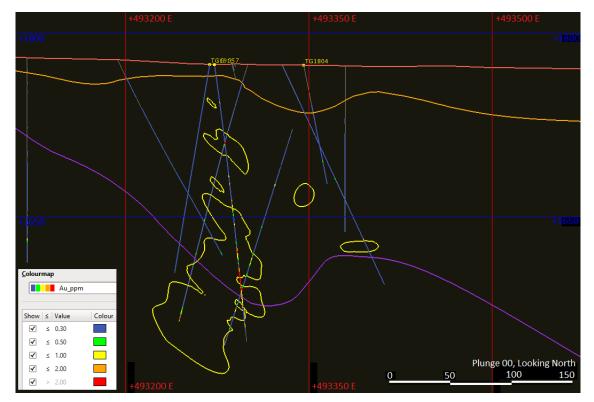


Figure 10-6: Cross Section showing 121 Zone Mineralization with 2018-2019 drill holes identified in gold text. (Section C-C' from Figure 10-3)



Figure 10-7: Cross Section showing 63-77/Pointluck Zone Mineralization with 2018-2019 drill hole collars identified in gold text. (Section D-D' from Figure 10-3)

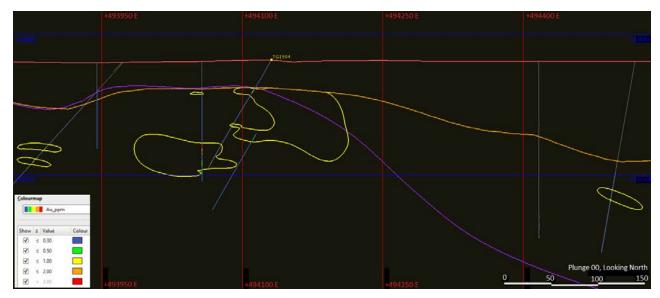


Figure 10-8: Cross Section showing Nautilus/Rye Patch Zone Mineralization with 2018-2019 drilling (Section E-E' from Figure 10-3)

10.8 Interpretation and Relevant Results

Viva inherited a database of historical drill hole data which is useful for geological modelling and resource estimation. Historical drilling processes and procedures have been well designed, well documented, and subject to periodic independent review and reporting. Viva has completed a total of 54 drill holes on the property and has generally adopted the well-developed and documented drilling and sampling procedures which have previously been used at the project, with attention given to ensuring a consistent record of QA/QC to monitor laboratory performance.

The Viva drilling campaigns have been effective in verifying grades and locations of mineralization as identified in the historical database, and has provided infill data in certain areas of the deposit.

11 Sample Preparation, Analysis, & Security

11.1 Historic Campaigns

A review of sample preparation, analyses, and security with regard to Tonopah exploration prior 2004 was discussed in previously released technical reports prepared by MDA on Midway Gold Drilling Campaigns. Section 6.2 (Exploration History) summarizes past exploration campaigns at Tonopah.

11.2 Sample Preparation and Assaying Methods

Diamond drill core samples were placed in core boxes at the drill site and were transported daily to the sample warehouse in Tonopah. The core was photographed and marked for splitting, and all pertinent geologic and geotechnical information recorded. The core was cut with a diamond rock saw or split using a manual or hydraulic splitter, if necessary. The half-core for each sample interval was placed in pre-labeled bags, sealed, and stored until the sample was transported to Chemex.

Reverse circulation samples were placed in sample bags at the drill site and were transported daily to the project warehouse in Tonopah. Chip trays were made from each sample. The samples and chip trays were logged and stored securely at the warehouse until they were transported to Chemex.

Overall assay results from the Tonopah Project do not vary substantially between drilling campaigns or operators. The QP has no reason to suspect that sample integrity was compromised in any of the historic campaigns or under MGC in recent years.

Sample preparation at Chemex was and is conducted according to the guidelines set out in ISO/IEC Guide 25 – "General requirements for the competence of calibration and testing laboratories" and was certified to the ISO 9002 standard.

At Chemex, Tonopah samples were generally prepared by crushing the entire sample and pulverizing the sample split to 75 microns. Samples were analyzed for gold by fire assay with an atomic absorption finish (AA). Other elements were analyzed by induced coupled plasma (ICP) techniques.

11.2.1 2011 Assay Procedures; Coarse Gold Sampling Review

Sampling for the 2011 Drilling program was designed to test nugget effect and sampling procedures for high-grade intervals. (Podratz & LeLacheur, 2014). Samples were collected in two stages: vein sampling and all other material sampling. For vein sampling, all quartz vein material, quartz vein selvage and breccia, and vein-related silica alteration material was sampled and sent to Florin Labs for Metallic Screen Assay.

Florin Labs Analytical procedure:

- 1. Crush to 95% passing 32 Mesh
- 2. Rotary split sample to 1,000 g
- 3. Pulverize to 85% <75 micron
- 4. A complete fire screen assay process, (assay 100% of coarse metallic fraction + 100 mesh, two 30gram fire assays on minus 100 mesh fraction) on entire 1,000g pulp.

For all other material, samples were sent to ALS Chemex Labs.

ALS Chemex Lab procedure:

- 1. Crush sample to 70% -20mm
- 2. Riffle sample split 30g
- 3. Pulverize split to 85% <75 micron
- 4. Fire assay, AA finish
- 5. Then for all intercepts > 0.002 opt
 - a. Re-split fine crush reject to 1,000g
 - b. Au screen fire assay -100-micron, Ore grade FA AA finish

A total of 867 samples were sent to Florin for Metallic Screen Assay from the 2011 drilling campaign.

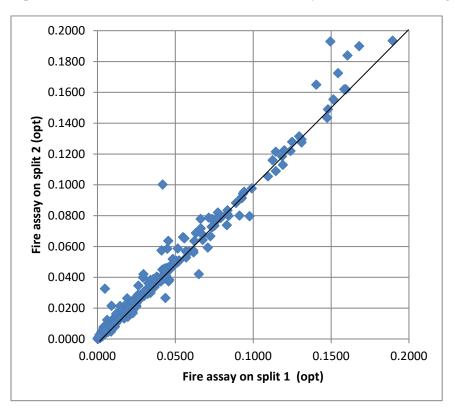


Figure 11-1: Comparison of Fire Assay Split 1 to Split 2

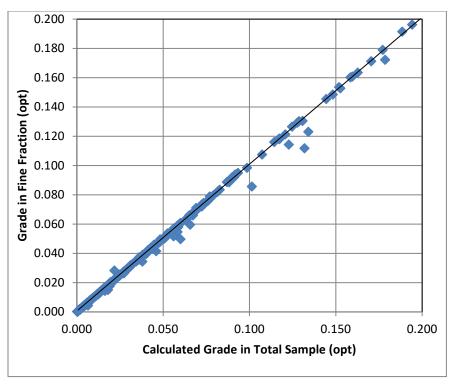


Figure 11-2: Comparison of Gold in Fine Fraction to Gold in total Sample

Comparison of two fire assay splits (Figure 11-1) and fine fraction gold grade to total sample gold grade (Figure 11-2) indicates high reproducibility of gold assays and that gold is reasonably evenly distributed through the samples. With careful sample preparation and splitting, standard 30g fire assays should provide a reasonable gold assay for the Tonopah project.

11.3 Quality Controls and Quality Assurance

QA/QC programs for historic drilling and sampling campaigns at the Tonopah project were addressed in several contemporaneous prior technical reports. Not all the QA/QC data for the programs have been captured in the project database. Bryant recommends that this information be captured to allow for the full record of data verification to be preserved with the remainder of the data.

MGC submitted a combination of standard samples and duplicate samples at a rate of about 4%, or one of either type of sample with every 24 unknown samples.

While the rate of submission of combined standards and duplicates has remained fairly constant, the mix of standards and duplicates samples appears to vary from drill hole to drill hole and duplicate samples are not included in the sample mix from some drill holes. The QP believes the 4% rate for combined standards and duplicates is adequate, but recommends that a more rigorous split between standards and duplicates be maintained.

Midway did not submit blank samples during any of their drilling campaigns from 2004 through 2008. Based on QP recommendations, Viva has since 2018 submitted blank samples with each drill hole or other sample batch at the rate of 5% (or 1 sample out of each 20) in order to increase the likelihood of contamination detection, independent of the internal QA/QC program of the lab.

Because there is coarse gold at the Tonopah Project, significant effort and study has been spent on the project to study and recommend optimal sampling methods at site as well as optimal methods for crushing and splitting samples at the laboratory. The overall recommendations are:

- For Core: ¹/₂ split of core sent to lab, nominally on 5-foot sampling intervals, except where changes in lithology or alteration dictate a shorter interval. At laboratory, 100% of sample dried, primary and secondary crush to -32 mesh. 1 kg split of crushed material taken and pulverized to pulp. Minimum 1 assay ton split from pulp for assay.
- For RC: 100% collection of RC cuttings from cyclone, wet or dry. 5-foot sampling, intervals. 100% of sample sent to laboratory. At laboratory, 100% of sample dried, primary and secondary crush to -32 mesh. 1 kg split of crushed material taken and pulverized to pulp. Minimum 1 assay ton split from pulp for assay.

All samples assaying greater than 5.0ppm Au are sent for metallic screen gravimetric assays to determine the effect of free gold. The results of this work (11.2.1, above) indicate that standard fire assays should be usable for resource estimation.

11.4 Viva 2018-2021 Drilling Campaigns

Viva Gold maintains industry standards for drilling, sampling, and assays in its current operations.

For core holes, HQ core was boxed on site by the drill crews and transferred by Viva's geological consultant to the exploration office in Tonopah Nevada for sampling. Core boxes were labeled with drill hole number, start and end depths, and core box number. Core was photographed, logged digitally to excel files, and marked for splitting by Viva's geology consultants. Samples were split by cutting by rotary or mechanical methods. ¹/₂ sample was placed in numbered sample bags, bundled into rice sacks, and set aside for pickup at site. ¹/₂ core was retained in the core storage facility at the Viva exploration office. 100% of HQ core was split and sampled for the Viva drill holes. There are no unsampled or unassayed intervals. Assays were preformed by either ALS Chemex Laboratories or American Assay Laboratories of Reno NV who collected the samples at the storage facility for transport to the lab. PQ core was cut by American Assay at their laboratory.

For dry RC Drilling, samples were collected at 5-foot intervals in pre-labeled 12x18" sample bags. Samples are not split. Wet samples are collected into 5-gallon buckets. Samples are allowed to settle for 10-15 minutes. Excess water is decanted, and the damp sample is poured into a pre-labeled sample bag. 100% of sample is bagged and shipped to one of the labs for sample preparation, to ensure a large sample. Coarse rejects are returned for sample inventory.

For all RC samples, a small quantity of material from the sample is captured to a labeled chip tray for logging.

Samples are aggregated into rice bags and were either collected at site by ALS Chemex laboratories of Reno, Nevada, or were transported by Viva's geology consultants to the Tonopah office for pickup.

Samples for the Viva drilling campaign are prepped at the labs by drying in ovens and crushing to 70% less than 2mm, rotary split off 1kg, pulverize split to better than 85% passing 75 microns. A 1kg split is taken by rotary splitter and the entire 1kg is prepared as pulp (minimum 85% passing 75 microns). Assays are 30-gram fire assay, AA finish, with Gravimetric finish for overlimit gold assays.

Viva also typically requests 30-gram cyanide leach assays for Au, Ag with AA finish, in mineralized intervals. For the core holes, four acid digestion, AAS for Ag, Co, Mo, Pb, Zn, Cu, Ni and Zn, was also used. Multi-element geochem and cyanide leach assay values are captured to the database but are not currently used in the resource estimation. Viva has inserted 235 standards and 235 blanks in the 2018-2021 drilling campaigns. Of these none has violated the criteria of mean plus and minus 2 standard deviations as stated on the data sheet of the purchased standard. The check values were recorded on the written drill logs by Mr. Bryant when the data were received but were not compiled in electronic form. Mr. Hulse has reviewed these hand written checks on the logs.

11.5 Summary Statement on Sample Preparation, Analysis and Security

It is the QP's opinion that sample preparation, analysis and security procedures are adequate. The QP is unaware of any sampling or recovery factors that materially impact the mineral resources. The procedures used provided samples that are sufficient to us in mineral resource estimation.

12 Data Verification

12.1 Site Visits

Ed Bryant visited the Tonopah Project on multiple occasions. The surface geology was reviewed. The only outcrop within the area of immediate interest was visited (the so-called "Discovery Outcrop"), and rock type, alteration and silica veining were confirmed as reported.

Mr. Bryant has relogged the available historical core and RC chips. The geology and alteration observed was found entirely consistent with the database record. Geologic logs of the drill holes were reviewed, and assay sample numbers were compared with assay certificates for selected holes. Assay values reported by Chemex were spot checked against the manual entry on the drill logs, and as entered in the project database. No significant errors were identified. Sample rejects and pulps are well organized, numbered and are stored in shipping containers at the Tonopah warehouse site in numbered boxes from Chemex. All geologic logs have been transferred to electronic format with the original paper logs and assay certificates retained on paper and scanned.

There are a few drill logs and assay certificates missing from the hard copy files, but geologic information and assays have been captured in the database.

Table 10-1 is a summary of the available drilling including historic drilling. Not all of the historic drilling is on the current claims, particularly the 1980-1981 Felmont drilling, which is focused on a separate claim block to the southeast that is not currently part of the Tonopah Project claims. However, for sake of completeness, all drill holes which were once associated with the project database are maintained as part of the record.

For Viva gold, Mr. Bryant has supervised drilling and data collection, logged core, visited the site offices and reviewed drill core and RC chip trays, as well as visiting the claims, where he observed surface geology, including limited outcrops, and observed locations of capped monitoring wells as well as site access and infrastructure. Mr. Bryant visited the property to observe RC drilling conditions during the 2018, 2019, 2020 and 2021 drilling campaigns. He also observed surface geology, drill pad conditions and drill hole collars in the Midway Hills area.

12.2 Collar Survey

The updated collar survey database is in UTM, NAD83 meters, with a reported precision of hundredths of meters.

Different generations of drilling used at least UTM NAD 83 and UTM NAD 27, and surveys have been stored in both meters and feet and converted between meters and feet during different drilling programs. Earlier data may have been collected in State Plane Feet and converted. Following the 2019 drilling campaign, Viva reconstructed the drill collar database by reverting to original logs and survey records, determining the survey system and datum employed, and converting the database to UTM NAD 83 Meters. While most drill holes remain in the same location as previously estimated, some sets of holes translate by up to 10 meters. This is believed to be a result of low precision conversion between metric and imperial units. It is expected that this resolves any remaining collar survey issues with the database.

Collar surveys from 2018 through 2021 have been collected by handheld GPS and reported in UTM NAD83 meters. Selected holes have been surveyed by a Professional Land Surveyor (PLS) with Solaris LLC of Ely NV, to validate the handheld surveys. Handheld GPS and Precision GPS were well correlated, the QP, Mr. Bryant, judges that the hole locations are sufficiently precise to utilize for mineral resource estimation.

12.3 Downhole Survey

Early drilling was designed to test the relatively low-angle contact between the Palmetto Argillite and the overlying volcanics, and as such typically consists of vertical holes. Since 2006, angled drilling was used to test the importance of higher-grade mineralization along sub-vertical structures.

Downhole surveys have been conducted for most drill holes from the 2006 and 2007 campaigns, and for the entire 2011 campaign. Most of the earlier drill holes were vertical, were relatively short in length, and are not expected to deviate significantly. 18.8 percent of holes have downhole surveys, typically with one survey each 50 feet (15 meters) downhole. Because of the lack of downhole survey data for the majority of drill holes, it is expected that individual sample locations may be shifted from their actual location by up to a few meters, particularly with increasing depth. This is not uncommon in historical drill hole databases, but it does decrease the reliability of location information for the drill hole database, which may affect resource classification for future reporting.

Downhole surveys were captured for 32 of the 57 holes of the Viva 2018-2021 drilling programs by a downhole survey contractor as described in Section 10. These downhole surveys are stored in the project database.

12.4 Lithology & Alteration

Lithology is recorded in the database as alpha codes. The Lithology data as recorded is consistent with industry standards, and cross-checking the lithology data by review of available drill core yielded no anomalies. Lithology data as recorded corresponds with the overall geological interpretations of the deposit.

Lithology coding in the database allows for geological models to be constructed which segregate Palmetto Argillite, at least 2 generations of tertiary volcanics, and overlying gravels. More detailed distinctions between the volcanic units are preserved in the database, but are not always correlated between drill holes.

Primary alteration type is recorded in the database as alpha codes. Intensity of alteration is not recorded. The QP generally prefers to see alteration data recorded as numerical codes or quantitative values by alteration field, as recording information in this way allows for more complete alteration models that recognize both relative intensity as well as the possible influence of secondary or tertiary alteration types. For some of the drill holes, alteration data was recorded in this manner, but has not been captured to the digital database. As the project advances, quantitative alteration data be captured to the main digital database so that it is available for geometallurgical models.

Mr. Bryant has relogged available historical drill core and RC chips, which compared well with the original geological logs.

12.5 Assay

Gold assays are recorded in the database, typically reported as selected values in parts per million, as well as in troy ounces per short ton. Final gold values are recorded. It is clear that the final value recorded is

selected based on earlier reported assay values, including a number of different laboratories, assay techniques, detection limits, and over-limit assay techniques. Approximately 1% of assays in the database were checked against assay certificates accounting for 4% of the assay certificates for samples used to estimate the mineral resource. No errors were encountered and the checks were abandoned.

The data for the 2018-2021 drill hole program was added to the database according to its own data entry and review processes. A few inconsistencies in data entry were identified during this process, checked with Viva geologists, and resolved. The QP is of the opinion that the resulting assay database is appropriate for use in resource estimation.

12.6 Data Adequacy

The lack of downhole survey control for many of the historical drill holes will introduce location uncertainty for early sampling at the project. The current resource model utilizes $6 \times 20 \times 20$ -meter blocks. At this resolution, location uncertainty due to downhole survey control is not expected to have a material impact on resource estimation. However, it is noted that delineation and estimation of discrete high-grade zones could be impacted by location uncertainty.

It is expected that presence of coarse gold will increase the local variability of gold samples in the database, but no bias has been demonstrated in several reviews of the data.

Consistent with previous recommendations, project coordinate systems have been converted to NAD83 UTM meters, starting from original data where possible to resolve any outstanding survey control issues, to re-align the project, survey systems, and permit filings in a single coordinate system. This should allow for reduced survey error rates going forward, and aligns the project survey systems with the filing standards for the State of Nevada. Care should continue to be taken to confirm survey locations where errors may have crept in during the conversion process. Mr. Bryant recommends that site surveys be conducted periodically to locate new drill roads and drill pads at a high precision, and to locate significant landmarks and historical drill holes where possible to confirm the coordinate transformation.

The QP considers that the drill data are adequate for resource estimation.

13 Mineral Processing & Metallurgical Testing

Several scoping-level metallurgical studies were undertaken by mining companies from 1990's to 2009 for the Tonopah property. The test work included gravity separation, flotation and cyanidation leaching.

13.1 Metallurgical Results from Pre-Viva Testing

13.1.1 Kennecott Cyanide Shake Tests

There is reference in the project records of 350 cyanide shake tests having been carried out for some 350 assays pulp. According to the MDA 2002 report, the data included all rock types, alteration types, and grades, and the mean extraction was 67% of gold on an average sample grade of 0.045 oz. Au/t. This data is considered to indicate that cyanide extraction is likely to be a suitable recovery methodology, but cannot be used to provide exact recoveries for plant operations. The reason is that cyanide shake tests are performed on finely ground pulps ($P_{80} = 150$ mesh) and the plant operating conditions are going to be different.

13.1.2 McClelland 1995 Cyanidation Test Work

McClelland Laboratories conducted two cyanidation leach tests in October 1995 on a composite of drill core material from MW-87, 128-176.4 feet. One was on 80% passing 200 mesh material that yielded 90.8% gold recovery and 35.5% silver recovery and one on 80% passing 10 mesh yielded 49.6% gold and 14.8% silver recovery. The results indicated that the gold is recoverable by cyanide, and that recovery is likely influenced by grind size. The tests consumed 0.60 lbs/t and 0.15 lbs/t cyanide and 8.9 lbs/t and 5.0 lbs/t lime respectively.

The bulk densities were determined for 15 samples. The average bulk density was reported to be 139.2 lb/ft³. The specific gravity of the samples was 2.23.

13.1.3 1995 Dawson Metallurgical Laboratories Test Work

Dawson Metallurgical Laboratories, Inc. conducted additional cyanide leach tests to determine the optimal leach time versus reagent consumption. Dawson determined that 82% of the gold was recovered from the sample in the first 24 hours, with a maximum 88% gold extracted after 96 hours of leeching. These results confirmed that cyanide leach process will recover gold.

13.1.4 1996 Rocky Mountain Geochemical Cyanide Shake Test Work

Test work was carried in February 1996 out for Kennecott by Rocky Mountain Geochemical Corp. on a single composite, designated MW-121, with a head grade of 0.105 oz, Au/t, and calculated head grade of 0.114 oz. Au/t. This composite was selected to determine why "sulfide mineralization intervals in this hole indicated low gold recoveries [while] bottle roll test work on the composite yielded 87.8% gold extraction in 96 hours." Cyanide shake tests were run on the composite sample for 1 and 24 hours. The test showed that 50% of the gold extracted after 1 hour and 100% after 24 hours. Hence, it was concluded that "the sulfide mineralization in MW-121 is not refractory [but] requires a longer leach period to extract all the cyanide soluble gold via the standard shake tests."

13.1.5 Newmont 2003 Test Work

Newmont's test work concentrated on proper sampling of core or RC drill samples. Significant differences were noted between fire assay and metallic assay values due to nugget effect. The study concluded that for the RC drill samples, the entire sample needs to be crushed in the laboratory and no splitting at site. Also, recommendations were made that metallic assay procedure should be used for gold values greater than 5 ppm Au.

13.1.6 2006 McClelland Laboratories Gravity Test Work

The test work, performed on composite samples assaying 0.6 g/t to 34 g/t Au, evaluated the response of gold recovery vs. feed grade using gravity concentration. This test work demonstrates a direct correlation between head grades and recovery from gravity concentration. Higher head grade achieved a higher gold recovery as shown in Table 13-1.

Au Recovery % of Contained Values Coloriant								
Sample	Nominal G	•	ieu values	Au Recovery Total (%)	Head Grade, g An	Direct Head g Au/st		
	-420mm	150mm	75mm		g Au/st	9		
Comp. 12	72.5	7.6	8.1	88.2	36.17	34.40		
Comp. 13	35.5	12.6	7.7	55.8	8.73	10.36		
Comp. 14	23.8	8.2	7.7	39.7	3.44	3.44		
Comp. 15	6.1	8.4	32.8	47.3	1.03	0.59		

Table 13-1: McClelland Laboratories Gravity Test Work Results

13.1.7 2006 SGS Lakefield Test Work

SGS undertook test work on a single composite involving pre-concentration by floatation and gravity concentration, and cyanidation of pulverized material as well as cyanidation of concentrates plus tails in 2006.

The composite sample assayed 6.45 ppm Au, 82.0% SiO2, and 0.05% S. Initial gravity concentration testing resulted in the recovery of 15.4% of the total contained Au. Cyanidation of the gravity tails resulted in combined gravity and cyanidation recoveries ranging between 89.5% and 94.1%.

A series of gravity concentration-floatation tests were performed using the composite sample. Combined gravity/floatation test gold recoveries given in Table 13-2 ranged from 43.6% to 52.5%.

Test #	Product	Product Wt. %	Assay Au (g/t)	Au Distribution (%)
	Ro Conc. 1-4	12.1	19.7	46.9
F1	Head (calc.)		5.07	
	Grav + Ro Conc.	12.2	27.7	55.2
	Ro Conc. 1-4	7.47	29.5	45.9
F2	Head (calc.)		4.8	
	Grav + Ro Conc.	7.38	42.5	54.2
	Ro Conc. 1-4	11.5	18.9	43.6
F3	Head (calc.)		4.99	
	Grav + Ro Conc.	11.5	27.3	52.2
	Ro Conc. 1-4	10.2	26.5	52.5
F4	Head (calc.)		5.17	
	Grav + Ro Conc.	8.9	37.3	59.8

 Table 13-2: 2006 SGS Gravity and Rougher Con Flotation Test Work Results

Base line cyanidation tests were also performed on the gravity tailings. Depending on grind size, gold recoveries in cyanidation were higher than the gravity-flotation series, ranging from 87.5% to 93.1%. When the gravity concentration was included, overall recovery increased to 94.1%. These results are summarized in Table 13-3.

 Table 13-3: SGS Gravity + Cyanide and Cyanidation Test Work Results

		Reagents (g/L, kg/t)			Au Re	Au Recovery %			Au Head Grades (g/t)				
Leach	Feed Size				Leach				Au Tails	Calculated		Direct	
Test #	K ₈₀ (μm)	NaCN Added	Consun (kg/t)	nption	Time (hrs.)	CN	Grav	Grav+CN	Grade (g/t)	CN	Grav	CN	Grav
			NaCN	CaO									
CN1	169	0.5	0.03	0.38	48	93.1		94.1	0.38	5.49		5.32	
CN2	60	0.5	0.02	0.44	48	87.5	15.4	89.5	0.72	5.74	6.28	5.32	6.45
CN3	60	0.5	0.03	0.42	72	91.4		92.7	0.45	5.23		5.32	
CN4	169	1	0.01	0.39	48	92.5		93.6	0.43	5.64		5.32	

13.1.8 2007 Barrick Goldstrike Metallurgical Services Test Work

In June 2007, a single sample was submitted to Barrick Goldstrike Metallurgical Services for a Bond work index and to determine direct Carbon in Leach gold recovery. Sample head grades, recovery and consumptions are reported in Table 13-4.

The gold extraction of 91% was achieved in the CIL test. The sample had a Bond's ball mill work index of 19.06 thereby indicating the composite material was hard.

	Head/Tail Assays		5		Au Recovery		Sulfide Sulfur			Carbonate		ТСМ	
Standard ACIL Results	Head Assay (oz Au/t)	Calc. Head (oz Au/t)	Tail Assay (oz Au/t)	Head Reconciliation (%)	Calc. Recovery (%)	Head- Tail Recovery (%)	Head Sulfide Sulfur (%)	Tail Sulfide Sulfur (%)	Sulfide Oxidation Mass Bal (%)	Head CO ³ (%)	Tail CO ³ (%)	Head TCM (%)	Tail TCM (%)
Sample Nan	ne												
050807/1	0.242	0.200	0.018	17.3%	91.01	92.56	0.02	0.02	0.84	0.05	0.15	0.04	0.05
050807/2	0.242	0.210	0.019	13.2%	90.96	92.15	0.02	0.02	0.53	0.05	0.05	0.04	0.06
Average	0.242	0.205	0.019	15.2%	90.98	92.36	0.02	0.02	0.69	0.05	0.10	0.04	0.06

Table 13-4: Barrick Goldstrike CIL Gold Recovery Results

	NaCN			Ore/Slurry			Carbon		
Standard ACIL Results	Addition (lb NaCN/ t ore)	Residual (lb NaCN/ t sol'n)	Consumed (lb NaCN/ t ore)	Mass of Head/Feed Sample (g)	Mass of Dry Tails (g)	Total Slurry Mass (g)	Mass of Solution (g)	Carbon Au Assay (oz Au/t)	Mass of Carbon (g)
Sample Name	L	L	L	L					
050807/1	5.00	2.70	-0.04	200.00	198.3	571.4	373.1	2.989	12.09
050807/2	5.00	2.61	0.14	200.00	198.9	571.4	372.5	3.145	12.09
Average	5.00	2.66	0.05						

13.1.9 Gekko Systems Test Work

In 2008 and 2009, Midway commissioned Gekko Systems to carry out work on gravity concentration and floatation test work on a single composite. The grade of the sample tested was 22.7 ppm Au and 16.3 ppm Ag. The response of the material to the gravity separation, on a shaking Wilfley table, improved at finer crush sizes. The test 100% passing 450 μ m showed that 35.5% Au recovery could be achieved into 1.2% of the feed mass. Finer grinding before gravity was shown to improve the gravity recovery at the expense of higher dilution in the concentrate. A gravity circuit inside the circulation load of a mill was recommended.

The flotation response was considered acceptable, however, 2.6 ppm Au was still present in the tails from the best flotation result. Diagnostic test of the flotation tail indicates that cyanide soluble leach recoveries of up to 88% are also achievable for final tail of 0.30 ppm at a grind of 40 μ m.

13.2 Viva Gold 2018-2019 Metallurgical Test Work

13.2.1 2018 RDI Cyanide Leach Testing

In late 2018, Viva collected samples from previous drilling campaigns which had been retained by previous operators for bucket leach testing by RDi. The samples tested were assembled from a number of core intercepts from the Company's core inventory, averaging between 0.5 and 1.0 gram per tonne ("g/t") grade. Assayed head grade for the TV sample was 0.88 g/t gold and 0.72 g/t for the OPA sample. The samples were subject to static bucket leach tests for a nominal 1-inch crush material size and bottle roll tests for material ground to nominal 6-mesh and 200-mesh sizes. Results from this work are shown in Table 13-5:.

			Gold	Silver
			Extraction	Extraction (%)
Composite	Particle Size	Leach Time	(%)	
	1"	20 days	18.4	9.0
	6 mesh	120 hours	29.7	24.9
TV	200 mesh	48 hours	<u>91.9</u>	41.6
	1"	20 days	55.5	7.7
	6 mesh	120 hours	51.0	17.9
OPA	200 mesh	48 hours	<u>93.5</u>	41.9

Table 13-5: RDi Cyanide Leach Test Summary

Review of the bucket leach testing shows that the Tv material in holes available as core, and thus selected to provide material for the composites were generally comprised of quartz rich tertiary volcanics from the Discovery zone. As such, it is possible that this material is not fully representative of the project metallurgy. Ongoing test work should properly identify and characterize the material selected for testing so that it can be more fully representative. These preliminary results indicate a potentially strong crush/grind size versus gold recovery relationship, at least in the limited number of samples tested.

13.2.2 2019 McClelland Laboratories Metallurgical Testing

Viva submitted reverse circulation drill chip samples from the 2018 drilling program to McClelland Laboratories, Inc. for metallurgical testing. The test program consisted of head analyses of twenty interval composites, bottle roll tests, preparation of four master composites and bottle roll and column testing of these composites. Gravity concentration tests were also performed on the master composite samples.

The original twenty composites were segregated by drill hole, rock type and depth and represented Palmetto Argillite (OPA) and the three different tertiary volcanic lithologies (TRT, TRV and TVS). The argillitic mineralization comprises approximately 50% of the deposit.

The test results are presented in Table 13-6: and Table 13-7:. The details of the test work are given in the report titled "Report on Bottle Roll and Column Leach Testing – Midway Drill Core Composites, McClelland Laboratories, Inc. December 20, 2019".

			· A / · · · · C · · 1				
		Au		gAu/	mt feed		
	Rock	Recovery,			Calculated	Head	
Composite	Type	%	Extracted	Tail	Head	Assay	
TG1806	OPA	55.6	0.20	0.16	0.36	0.35	
TG1807C	OPA	61.3	0.73	0.46	1.19	0.98	
TG1808B	OPA	64.5	0.20	0.11	0.31	0.32	
TG1808C	OPA	79.9	1.31	0.33	1.64	5.92	
TG1808D	OPA	81.7	0.85	0.19	1.04	0.90	
TG1809A	OPA	51.2	0.44	0.42	0.86	0.91	
TG1809B	OPA	85.0	0.68	0.12	0.80	0.64	
TG1810B	OPA	48.3	0.14	0.15	0.29	0.33	
TG1807A	TRT	47.6	0.20	0.22	0.42	0.36	
TG1812B	TRT	72.2	0.26	0.10	0.36	0.30	
TG1814A	TRT	52.8	0.28	0.25	0.53	0.42	
TG1810A	TRV	42.6	0.52	0.70	1.22	1.36	
TG1811A	TRV	71.4	0.20	0.08	0.28	0.30	
TG1811B	TRV	68.3	0.28	0.13	0.41	0.38	
TG1812A	TRV	68.4	2.21	1.02	3.23	3.07	
TG1815	TRV	45.5	0.65	0.78	1.43	1.38	
TG1807B	TVS	56.9	1.11	0.84	1.95	1.73	
TG1813	TVS	59.2	0.29	0.20	0.49	0.44	
TG1814B	TVS	65.0	1.78	0.96	2.74	2.47	

 Table 13-7: McClelland Composite Column Leach Results

		Au	gAu/mt feed					
Master	Rock	Recovery,			Calculated	Head		
Composite	Type	%	Extracted	Tail	Head	Assay		
4394-OPA	OPA	83.3	1.80	0.36	2.16	1.98		
4394-TRT	TRT	47.9	0.23	0.25	0.48	0.38		
4394-TRV	TRV	60.8	0.79	0.51	1.30	1.35		
4394-TVS	TVS	63.8	1.11	0.63	1.74	1.68		

The test results indicate the following:

- The twenty composite samples assayed 0.32 g/t Au to 11.77 g/t Au and 1.0 g/t Ag to 13.4 g/t Ag.
- The master composite gold grades ranged from 0.38 g/t to 1.98 g/t Au and silver grades ranged from 2.8 g/t to 5.5 g/t Ag.
- The bottle roll tests were performed on as received feed size (nominal 1.7 mm). The actual feed sizes of the master composite were determined to be 66% to 76% passing 1.7 mm.
- The gold extraction in the bottle roll tests for 96-hour leach time (4 days) ranged from 48.3% to 89.1% (average 68.5%) for OPA samples, 47.6% to 72.2% (average 57.5%) for TRT samples, 42.6% to 71.4% (average 59.2%) for TRV samples and 56.9% to 65% (average 60.4%) for TVS samples.

- The extraction results indicated that the gold was still leaching when the tests were terminated. This was confirmed when comparing column results with bottle roll results for the identical sample. Column results were generally higher than bottle roll extractions.
- The argillite material had significantly higher gold extraction than the other material types.
- The silver recovery was low for all material types and ranged from 4.8% to 41.8%.
- Agglomeration strength and stability tests on the four master composites indicated cement addition between 3.6 kg/t and 5.2 kg/t would be sufficient for producing stable agglomerates and minimizing percolation issues during column leach tests.
- Column leach tests on agglomerated "as received" master composites were run for 57 to 66 days at an application rate of 0.005 gpm/ft2 (12 lph/m2) of 1.0 g/L of NaCN. The test results indicated that OPA, TRV and TVS master composites were amenable to simulated heap leach cyanidation treatment. Gold recoveries ranged from 60.8% to 83.3% in 57 to 66 days of leaching.
- Gold recovery was lower at 47.9% for TRT material.
- The majority of the gold leached in 10 to 20 days. However, leaching continued at a slower rate for all master composites except TRT. Extending the leach cycles would have resulted in slightly higher gold recoveries.
- Silver recovery was low for all composites and ranged from 6.9% to 21.4%
- Cyanide consumption was moderate at 0.58 to 0.99 kg/t of feed.
- Gravity concentration tests indicated varied response for the master composites at a particle size of P80 of 212 micrometers. The cleaner concentrate recovered 14.6% to 54.4% of the gold at a concentrate grade of 29.3 to 605 g/t Au. However, silver recovery ranged from 1.2% to 13.6%.

13.2.3 Cyanide Leach Assays

Beginning in 2018, Viva gold added cyanide shake leach assay (whereby a split of the prepared sample pulp is agitated in cyanide solution and the resulting pregnant solution is assayed by AA methods) to the assay suite for exploration samples. The objective of this program is to provide data to determine variability of cyanide recovery through the deposit. In some operations, cyanide shake assays have been found to be useful in predicting cyanide leach recoveries, particularly where there is high variability of recovery for different material types. These data are being maintained as part of the project database, but full evaluation has been delayed pending acquisition of a sufficient number of data points. The QP, Dr. Malhotra recommends that this data be compared with and registered against the historical Kennecott database of similar sampling technique and evaluated to determine whether it demonstrates measurable variability in recovery by lithology or alteration type.

13.3 Metallurgical Test Work Summary

The historical metallurgical data indicate that gold and silver mineralization from the Tonopah project are amenable to recovery by cyanide leaching. Test work was completed on both fully oxidized and sulfide samples, with little difference noted in recoveries. It is noted in some of the test work that coarse gold present in samples maybe contributing to delayed recovery in cyanide solution. Gravity pre-concentration was recommended in some of the early studies to segregate coarse gold from the material prior to cyanide leaching. Gravity testing indicates that gravity methods might be useful for pre-concentration, particularly in higher grade materials.

Flotation test work completed on high grade gold samples, indicates that a high percentage of gold can be recovered to concentrate by froth flotation. However, the test work appears to indicate that gravity/cyanidation showed better performance than flotation/cyanidation.

The QP believes that sufficient preliminary metallurgical data exists to support determination of cutoff grade for resource estimation, as well as recovery models for scoping-level studies. The cyanidation shake data (Kennecott, Section 13.1.1) appears to be taken from a variety of grades, lithologies and mineralization types. However, the remaining pre-Viva metallurgical data were focused on a limited number of samples of higher-grade vein material, and may not be representative of the deposit as a whole.

The Viva Gold metallurgical test work data confirms that gold mineralization from the project is amenable to recovery by cyanide leaching. Argillite material appears to have a somewhat better response than volcanic material, and initial results indicate that there is likely a relationship between particle size and recovery (with smaller size particles showing higher amenability to cyanidation.) It is also noted that the bottle roll test work showed increasing recoveries at the 96-hour timeframe, which generally indicates that leaching was not yet complete. Future bottle roll tests might use a longer time window to allow for additional recovery.

For Scoping level studies, including this PEA, the McClelland work indicates an average recovery of 83% for Argillite material and 58% for Volcanic material. These values are not discounted from the column data because recovery was ongoing at the end of the column leach testing.

The QP recommends that further test work be focused on column leach testing for various identified material types, and preferably at different crush sizes, with the objective of predicting heap leach recoveries and testing relationships between comminution and recovery.

14 Mineral Resource Estimates

14.1 Geologic Model

The primary lithologic model for the Tonopah Project consists of Ordovician Palmetto formation Argillites disconformably overlain by Tertiary volcanic rocks. Much of the resource area is further covered by Quaternary gravels. Leapfrog software was used to aggregate Palmetto formation, Volcanics, and Gravels within the drill holes for the project, and used the contact points to generate surfaces which represent the contacts between each of the lithologic domains. The contact surface for the top of the Palmetto shows a steep incline to the north which runs generally parallel to the regional Walker Lane Trend, along with two conjugate offsets which correspond to the Discovery and Dauntless zones identified in drilling.

Review of long sections and cross sections through the deposit show that mineralization generally follows the contact between the Palmetto and the overlying volcanics, with most of the mineralization occurring within the lower portion of the volcanics and the top of the argillite, except in areas of structural complexity, where feeder structures may exist within the argillite.

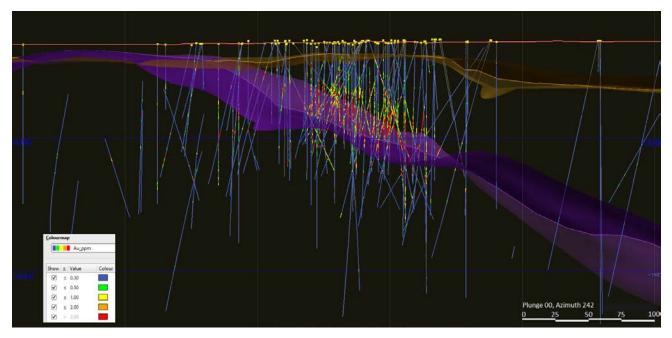


Figure 14-1: Cross section slice showing Opa upper surface (purple) and Tv Upper Surface (orange). Az 242, Scale in meters.

Mineralization is interpreted to primarily occupy zones of favorable structural preparation and lithogeochemical host rock within the lower Tertiary volcanics and underlying Palmetto formation, in an overall trend parallel to the Walker Lane Trend.

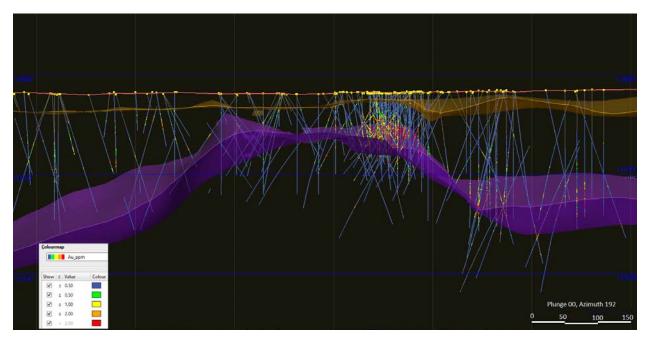


Figure 14-2: Long section view showing mineralization relative to Opa /Tv boundary surface. Az 192. Scale in meters.

14.2 Domains for Resource Estimation

With additional drilling in 2020 and 2021, it became apparent that the mineral continuity is controlled by multiple factors, and that the controls are different in the Lower Volcanics than in the Palmetto. This is most obvious in a plan map of grade colored drill intercepts. Values greater than 0.5ppm Au are shown in red while values below 0.5 are shown in black in Figure 14-3 and Figure 14-4.

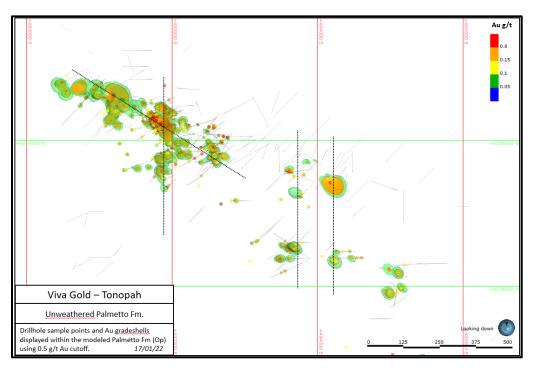


Figure 14-3: Palmetto Composites >0.5ppm

The Palmetto Fm. exhibits local northwesterly continuity with some expression of north-south structures along a regional ESE trend. The Volcanics exhibit the dominant ESE trend with a limited expression of the other controls.

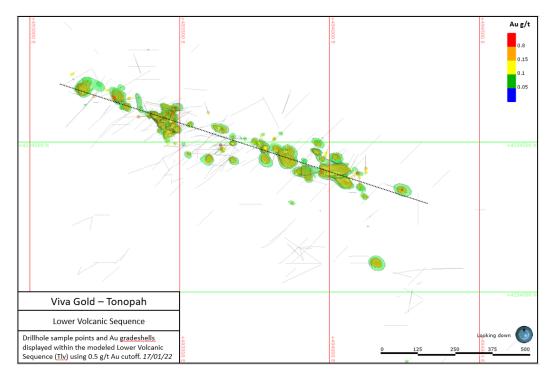


Figure 14-4: Lower Volcanic Composites >0.5ppm

14.3 Domain Statistics

As an initial step, the QP has evaluated the statistical behavior of the samples based on various composite lengths. Though initial sampling was based on 5ft. or ~1.5m composites, the project is moving toward a bulk minable open pit operation, meaning that a mining bench height is expected to be between 6m and 8m. Figure 14-5 shows that though the average grade of the samples is relatively insensitive to the composite length, indicating that compositing is not overdiluting grades, the short-range variance of the data drops quickly to about 6m composites, removing statistical noise that will not have a material impact on the variability of the mining operation.

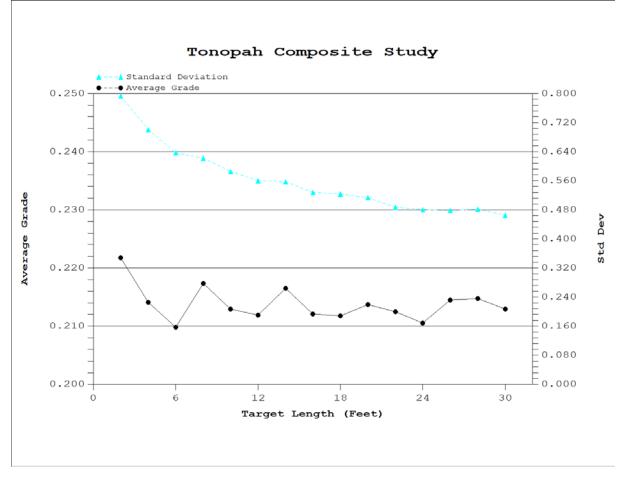


Figure 14-5: Drill Hole Composite Study

Three dimensional solids of grade shells and of the principal lithological units were developed in Leapfrog software as a separate exercise. The statistics were reviewed using cumulative frequency curves rather than histograms because the cf curves can be compared directly. The global statistics including all lithologies and grades (albeit capped at 10ppm Au) are shown in Figure 14-6.

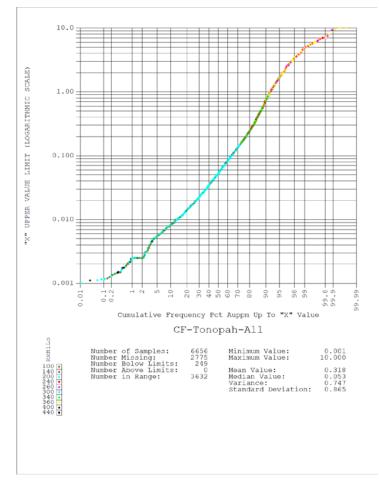


Figure 14-6: Global Cumulative Frequency Curve

This demonstrates that the global population at Tonopah is formed of various overlapping statistical populations. Table 14-1 shows the detailed interpretation of the codes.

	CODE	ZONE	GRADE SHELL
100	QAL	QAL	<0.15
140	QAL-MID	QAL	>0.15
360	TVL-HI	TVL	>0.8
340	TVL-MID	TVL	>0.15 AND <0.8
300	TVL-LO	TVL	<0.15
260	OP-HI	OP	>0.8
240	OP-MID	OP	>0.15 AND <0.8
200	OP-LO	OP	<0.15
261	OP-HI-Weathered	OP	>0.8
241	OP-MID Weathered	OP	>0.15 AND <0.8
201	OP-LO Weathered	OP	<0.15
400, 440	TVU	TVU	All

The composites were coded from the 3-D solid to best represent the spatial domain of the samples. A summary of the statistics by zone is shown in Table 14-2, indicating that both the QAL and TVU are very low grade.

	CODE	SAMPLES	MAX	MEDIAN	MEAN	VARIANCE	STD DEV.	COEF
QAL	100	167	0.315	0.018	0.033	0.002	0.041	1.267
QAL	140	7	1.063	0.395	0.457	0.082	0.286	0.626
OP-LO	200	916	0.560	0.041	0.055	0.002	0.045	0.832
OP-MID	240	263	7.000	0.253	0.442	0.381	0.617	1.395
OP-HI	260	103	9.310	1.825	2.481	3.306	1.818	0.733
TVL-LO	300	969	0.592	0.043	0.058	0.003	0.051	0.870
TVL-MID	340	459	2.795	0.286	0.406	0.127	0.357	0.878
TVL-HI	360	196	10.000	1.882	2.424	3.385	1.840	0.759
TVU-LO	400	75	0.191	0.025	0.039	0.001	0.037	0.942
TVU-MID	440	4	0.508	0.292	0.318	0.024	0.153	0.482
UNK	9999	4,978	8.188	0.048	0.195	0.309	0.556	2.854

Table 14-2: Summary Statistics

The lithology model was combined with grade shell models to control the projection of local high grades. The grade shells help to clean up the grade distributions into distributions which can be represented by a log-normal distribution model. The summary cumulative frequency curves are presented in Figure 14-7.

Although the 0.15ppm shell for the TVL shows a bi-modal population it represents fringe material brought into the edges of the shell.

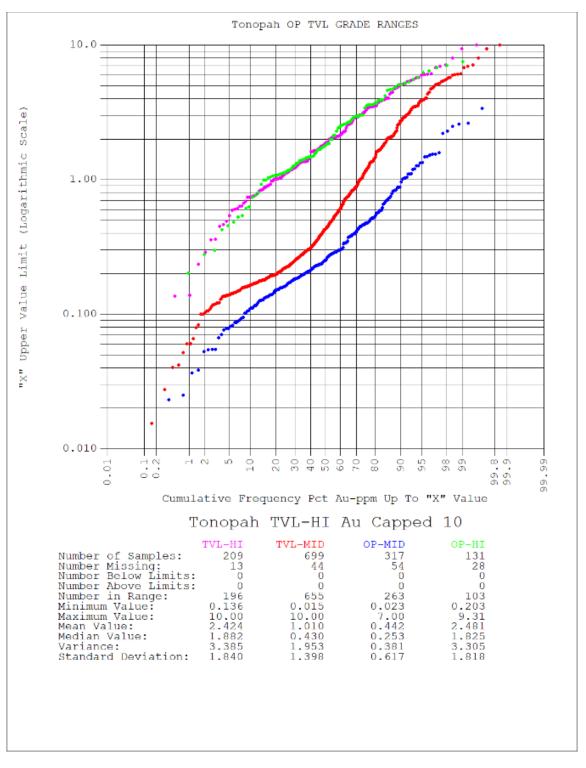


Figure 14-7: 0.15ppm and 0.8ppm domains for TVL and OP

Based on observation that the primary mineralization trend appears to follow the Opa /Tvl contact, The lithology was modeled with a focus on the contact and the zone 10m above and below the contact. The upper volcanic sequence (Tvu) and the overlying alluvium (Qal) have no gold values at any reasonable cutoff grade. These zones were combined with a series of grade shells in Leapfrog Mining software based

on gold grade, using the Opa /Tv contact as a trend surface to guide the interpolation of the solids models. A high anisotropy (8:8:1) was used to counterbalance the complex drilling pattern and orientation, and a log grade shell was estimated to limit projection of the grade shell into areas of sparse drill density. Several grade shells were considered, at several cutoffs, and using a series of different parameters. The combination of lithology and a shell at 0.150 ppm, which has a good balance between continuity of mineralization without over-projecting grades form the basis of the modeling domains.

14.4 Geostatistics

Based on this break down variograms were used to investigate the spatial continuity of the various populations. An initial review of variograms between the deeper argillite units and the overlying volcanic units showed differences but some intrinsic "noise" due to the high-grade sample.

Several techniques are commonly used to smooth variograms and clarify the continuity. These include relative variograms (calculation of the variability relative to the mean grade), variograms of the logarithms, and conversion of the (often) skewed grade distribution to a normal distribution, known as the "Normal Scores Transform". Both local relative variograms and normal scored variograms were analyzed for Tonopah.

The TVL relative variograms perform relatively well when filtered with a Normal Scores transformation. The variograms are clean with low nugget values and are shown in Figure 14-8These give similar ranges somewhat cleaner spherical variogram model. The noise created by high-grade samples does not have a strong effect, resulting in cleaner geometries.

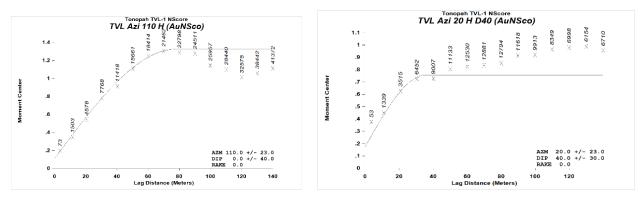


Figure 14-8: Normal Scores Variograms of TVL

The normal scores variograms for the Palmetto (OPA) formation are shown in Figure 14-9. These also show a cleaner variogram structure, albeit with a higher nugget effect than the TVL.

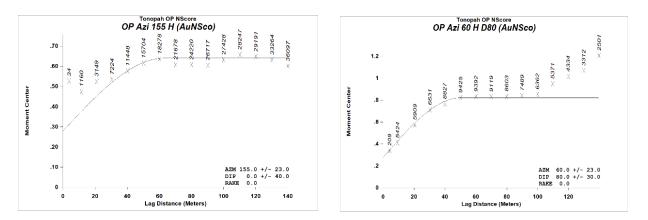


Figure 14-9: Normal Scores Variograms for OPA

In discussions with Viva geological staff, this fits with the theory that mineralization within the less permeable OPA is largely controlled by regional fracture orientations, while the mineralization within the more permeable TVL is controlled by other factors, likely a heat or fluid source.

Indicator variograms were also analyzed to determine grade continuity at different cutoffs. The indicator at a 1.0ppm cutoff is shown in Figure 14-10. There is little directional anisotropy, and the abrupt drop in the variance curve indicates the general width of the zones being between 30 and 60m wide.

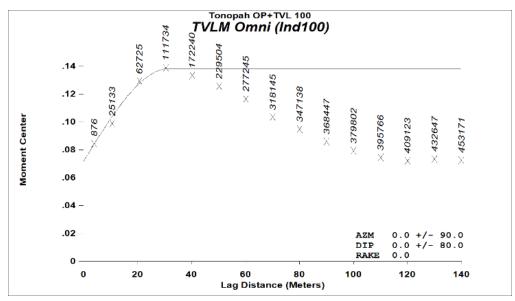


Figure 14-10: Variogram of 1.0ppm Indicator

The 80 and 60m ranges can be compared to 40m variogram ranges when based on the grade shells used previously to control the estimate. The TVL vertical continuity is far flatter than the OP, probably with

increase influence of the contact zone and volcanic deposition than the structural fabric shown in the more northerly near vertical OP. Table 14-3 indicates the recommended variogram parameters.

	OP	c0	0.29		TVL	c0	0.1
		c1	0.5			c1	0.95
	Azm	Dip	spherical		Azm	Dip	spherical
omni	0	0	40	omni	0	0	56
Horizontal	155	0	63	Horizontal	110	0	78
Vertical	60	80	28	Vertical	20	40	35

Table 14-3: Recommended Variogram Parameters

14.5 Block Model Parameters

The block model used for resource estimation is a 20m x 20m x 6m, orthogonal, non-rotated block model, which is selected as consistent with the likely open pit mining method for the property. Blocks are flagged from the Leapfrog solids of both lithology and grade shells, with only blocks inside the domain being estimated.

14.6 Block Grade Estimation Methodology

Block grade estimation was completed using MicroModel 10 software. Grade estimates use ordinary kriging, with soft boundaries to account for the nature of weathered contact surfaces, and to realistically model the influence of lithology, weathering, and structure on the estimate.

Blocks were estimated with a single pass search at 2 variogram ranges, similar to the previous 2020 model. Two independent holes were required to create an estimate. Search ranges are shown in Table 14-4.

	Search (m)			
	OP		TVL	
Strike Dist		120		160
Dip Dist		100		100
Normal		60		60

 Table 14-4: Grade Estimation Search Parameters

Each grade estimate uses a single pass, with a minimum of five and a maximum of nine 6-meter composites used to estimate grades (and IND%). A maximum of three composites are used per drill hole, thus requiring at least two drill holes to contribute to each block estimate. Based on the indicator variogram at 1.0ppm, it seems prudent to restrict the search of high-grade samples to ~40 meters, although the effects of this will need to be evaluated against model statistics.

14.7 Resource Classification

The classification technique represents the average spacing of drill holes around the block based on declustering weights. The weights are estimated by overlaying a 3-D rectangular grid on the data the size of the variogram range. The weight is estimated based on the number of samples found within each cell, decreasing proportionately to the number of samples. These weights are assigned to the composites used for the estimate, and then are themselves estimated. A threshold value can be selected representing the drill spacing which was then calibrated against the distance to the nearest sample. A value of 0.50 was selected as the threshold value for Measured Mineral Resources while 1.0 was chosen for Indicated Mineral Resources.

14.8 Cutoff Grade

Cutoff grade used to meet the test of 'reasonable prospects for economic extraction.' Accordingly, the cutoff grade is estimated based on price and recovery assumptions. A separate cutoff grade is applied to the 2 rock types hosting mineralization as they have different recovery.

Cutoff Grade = Cost / (Metal Price * Recovery)

Using \$1,650/ oz Au, 58% recovery in Volcanics and 83% recovery in Argillite, and a process cost of \$6.20 per tonne yields a cutoff grade of 0.201 g/t (rounded to 0.20 g/t) for volcanics and 0.141g/t (rounded to 0.15 g/tonne) for Argillite.

The parameters for the processing cost are based on the life of mine average cost of processing (\$4.52/tonne processed), site G&A (\$0.66/tonne processed), leach pad construction (\$0.50/tonne processed) and contingency of (\$0.52/tonne processed). The above cutoff grades thus constitute reasonable prospects for economic extraction by this test.

14.9 Pit Shell for Resource Reporting

As a second test for 'reasonable prospects for economic extraction', the resource estimate was constrained within a Lerchs-Grossman pit shell to exclude discontinuous and peripheral areas of mineralization which are less likely to form part of a future mine plan. The parameters for the pit shell are shown in Table 14-5.

Parameter	Value
Gold Price (/oz troy)	\$1,650
Gold Recovery Argillite	83%
Gold Recovery Volcanics	58%
Mining Cost (per ton mined)	\$1.55
Process Cost (Includes G&A and Leach Pad Allowance)	\$6.20
Overall Highwall Angle	45 degrees
Highwall angle in Gravels	35 degrees

Table 14-5: Resource Pit Shell Parameters

14.10 Specific Gravity / Density

There is limited bulk density test work available for the project. An SG of 2.46 t/m^3 was used to approximate the density for the mineralized material.

In 2019, McClelland laboratories completed a number of specific gravity tests on column composites comprised of drill cuttings. Specific Gravity data for the cuttings material reported as follows:

Table 14-6: Specific Gravity of Column Composites (triplicate average)

Composite	Specific Gravity
4394-TVS	2.55
4394-TRT	2.57
4394-TRV	2.53
4394-OPA	2.64

Average SG for the volcanic composites is 2.55 t/m^3 . Argillite is higher at 2.64 t/m^3 . These are specific gravity estimates rather than bulk density, and ignore potential void space, so they will be slightly higher than bulk density determinations. However, based on this work, it is possible that the 2.46 t/m^3 factor being used is slightly conservative.

Mr. Hulse, the QP, recommends that specific gravity test work be completed to determine average densities for the different mineral and waste lithologies for the project.

14.11 Validation of Resource Estimate

The resource estimate has been validated by visual review of the block model, by global statistical review, and by swath plots.

14.11.1 Visual Review of Block Model

Visual review of the block model in Figure 14-11 shows good agreement between block and composite grades. Mineralization appears to be well constrained to areas of drilling. The Orange line is the intersection with TVL-OP contact. Within the TVL grades generally propagate parallel to the contact. Within the Palmetto, the grades are controlled by steep structural zones.

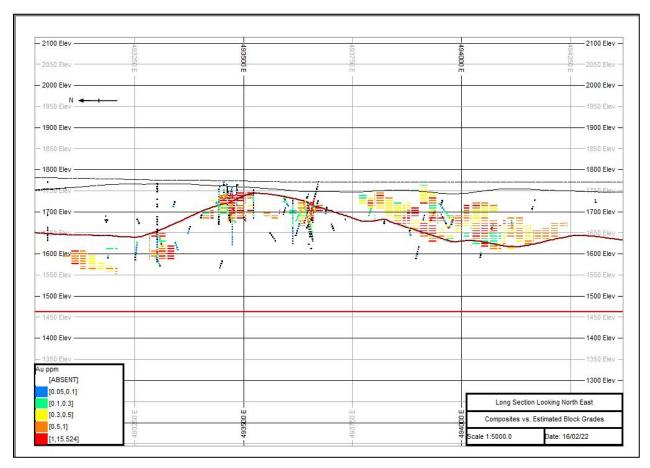


Figure 14-11: Example Cross Section (Looking NE) through Tonopah block model

14.11.2 Review of Model Statistics

The statistical review presented in this section is global or encompassing the entire resource model. A cumulative frequency plot of both the Palmetto and the Lower Volcanics are presented in Figure 14-3 and Figure 14-4 respectively. The variance reduction expected in the TVL by estimating the blocks into points can be predicted by Krige's Relationship, at a variance reduction factor of 0.18 and the calculated factor from the model is 0.14, a very reasonable comparison.

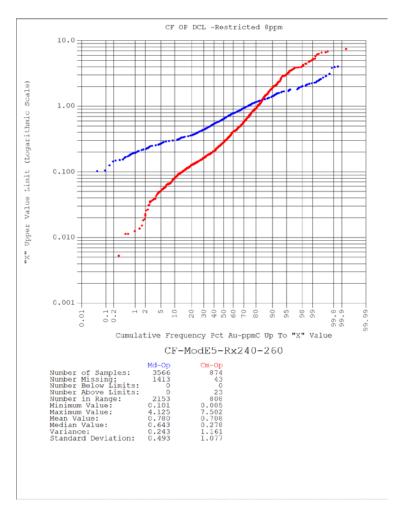


Figure 14-12: OP Composites and Block grades, CFP Comparison

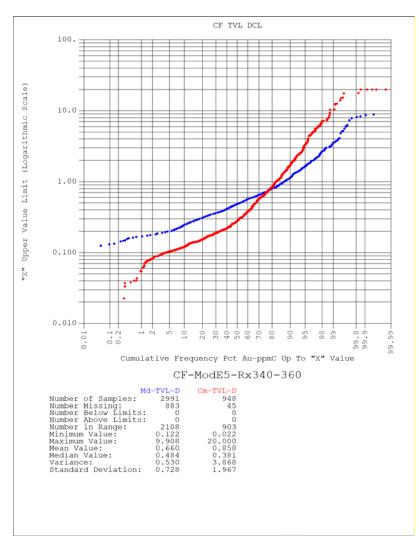


Figure 14-13: TVL Composites and Block grades, CFP Comparison.

The variance reduction predicted for the Palmetto is less, due to the shorter variogram range, at about 0.4, which the calculated factor is 0.23. The variance was reduced in the block model by restricting composites above 0.8ppm to one half of the search distance. This was an assumption based upon the apparent structural control within the OP.

Further analysis of a high-grade domain could confirm these assumptions.

14.12 Mineral Resource Tabulation

Donald E. Hulse, SME-RM, of Gustavson Associates is the Qualified Person with responsibility for the mineral resource estimation in Table 14-7. Resources do not have modifying factors or dilution applied. The QP is of the opinion that the resources presented reasonably represent the in-situ resources modeled for the deposit using all available data as of the January 1, 2022 effective date of this report. Resources are presented at a 0.150 g/t (ppm) cutoff grade in argillite and 0.20 g/t (ppm) in volcanics, and inside a \$1,650/oz Au pit optimization shell. Parameters used to design this pit are discussed further in Section 16.

The reporting cutoff grade and constraining the resource inside an optimization shell constitute two tests for 'reasonable prospects for economic extraction'.

	Tonnes Gold Grade		Contained	
Classification	(x1,000)	grams/tonne	Gold (ozt)	
Measured	4,764	0.830	127,000	
Indicated	11,440	0.727	267,000	
Measured plus Indicated	16,204	0.758	395,000	
Inferred	7,352	0.872	206,000	

Table 14-7: Mineral Resource Estimate for Tonopah

Mineral Resources are not Mineral Reserves and have not been demonstrated to have economic viability. There is no certainty that the Mineral Resource will be converted to Mineral Reserves. There are no reported Mineral Reserves for the property. The quantity and grade or quality is an estimate and is rounded to reflect the fact that it is an approximation. Quantities may not sum due to rounding.

An additional block model tabulation within the identical pit shell is presented as Table 14-8 to show the sensitivity of the block grade estimation at different cutoff grades, with the selected mixed cutoff by rock type highlighted in gray. The lowest cutoff shown in the sensitivity table, was the selected cutoff grade used to determine the economic pit limit for the mineral resource estimate using the parameters shown in Table 14-5. Mr. Hulse, the QP, has reviewed the other higher cutoff grades and believes that they also offer potential for eventual economic extraction.

	Cutoff Grade	tonnes	Gold	Contained
	(g/t)	(x 1000)	g/t	Oz x 1000
Measured	1	951	2.214	67.7
	0.4	3,194	1.082	111.1
	0.25	4,583	0.854	125.8
	0.15/0.20	4,764	0.830	127.2
Indicated	1	2,157	1.521	105.5
	0.4	8,773	0.853	240.6
	0.25	10,978	0.748	264.0
	0.15/0.20	11,440	0.727	267.5
Inferred	1	2,483	1.461	116.6
	0.4	6,034	0.995	193.0
	0.25	7,133	0.892	204.6
	0.15/0.20	7,352	0.871	206.1

 Table 14-8: Block Model Tabulation for Grade Sensitivities

15 Mineral Reserve Estimates

There are no Mineral Reserves declared for the Tonopah Property.

16 Mining Methods

The information for the PEA is based on mine designs derived from a subset of the total mineral resource declared in Section 14.12.

16.1 Introduction

Currently, the QP is not able to declare a Mineral Reserve at the Tonopah project. Insufficient engineering has been performed to date to declare of Mineral Reserve. Additional work is required to a level of a prefeasibility study to satisfy the requirements of a reserve declaration. In-pit resources discussed within this section does NOT constitute a Mineral Reserve.

This PEA, including the mine plan within this PEA, includes inferred mineral resource. Inferred mineral resources are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves. No mineral resources in this PEA have been converted to reserves. Mineral resources that are not mineral reserves have no demonstrated economic viability. There is no certainty that the results of this PEA will be realized.

The Tonopah Property as planned in this report has a project life of 8 years, consisting of 2 years of preproduction, 5 years of mining and heap stacking, and one year of final gold recovery, pad rinsing and reclamation work. Mining will be done using traditional, open pit surface mining techniques. Mine operating and capital costs assume self-mining.

16.2 Pit Optimization

The resource model on which the mine designs are based was built using Datamine software from the exploration database provided by Viva Gold Corp. Economic pit limit analysis was completed using Datamine's NPV Scheduler software which uses the Lerchs-Grossmann algorithm to determine an economic excavation limit based on input parameters. Table 16-1 contains the optimization parameters used. The surface layer is composed of gravels, so this layer was limited to a shallower slope angle than the remainder of the material beneath it.

Parameter	Value
Farameter	value
Gold Price (per troy oz)	\$1 <i>,</i> 350
Mining Dilution	0%
Mining Recovery	100%
Mining Cost (per ton mined)	\$1.55
Process Cost (per tonne mineralized)	\$6.00
Gravels Highwall Angle	35°
Regular Highwall Angle	45°
Gold Recovery % in Volcanics	58%
Gold Recovery % in Argillite	83%

Table 16-1: Lerchs-Grossmann Optimization Parameters

The mining cost of \$1.55 per tonne applies to both mineralized material and waste. The cost of \$6.00 per tonne processed includes processing and administrative costs and an allowance for leach pad construction.

The metallurgical recovery differs in the two material types, volcanics and argillite. The block model delineates these material types and thus a different recovery factor is applied.

The optimization process defines an excavation limit at a specific metal price. The metal price is increased incrementally, and excavation limits or "shells" are created at each price point up to a nominal price of \$1,350/troy ounce Au. Figure 16-1 shows the results of the optimization process. This graph shows the net present value (NPV), resource tonnes, waste tonnes and total tonnes of the shells plotted as a percentage of the ultimate pit (Y-axis), alongside the gold price.

Figure 16-1 illustrates the reasoning behind selecting a particular optimization shell for the pit design. The \$1,230/oz Au shell was selected as the basis for the mine design. This shell contains 66% of the resource but only 51% of the waste yielding a NPV that is 93% of the ultimate pit shell. This shell also does not expand into the west far enough to require the relocation of the state highway, a major investment of capital not accounted for in the NPV shown in this analysis graph.

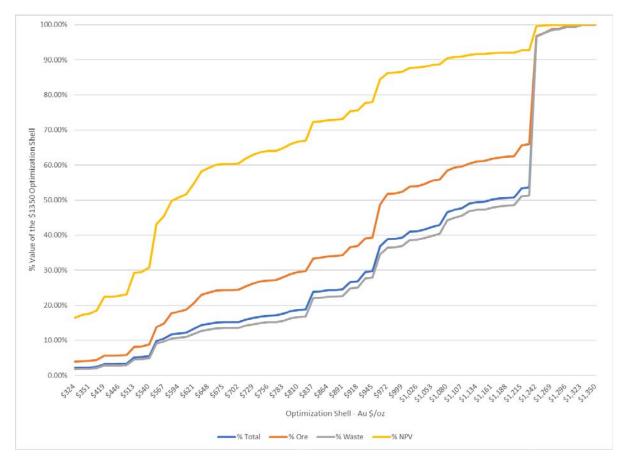


Figure 16-1: Optimization Shell Analysis by Metal Price

16.3 Pit Design

Datamine's Studio OP software was used to design the ultimate pit limits of the project. Table 16-2: Mine Design Parameters contains the mine design parameters that were used. Note that the road with will accommodate 90 tonne haul trucks. Cutoff grades have been applied to the model depending on lithologies and their respective gold recovery values.

Parameter	Value
Bench Height	12m
Regular Catch Bench Width	6.4m
Regular Face Angle	65°
Regular Inter-Ramp Angle	45°
Gravels Catch Bench Width	0m
Gravels Face Angle	35°
Gravels Inter-Ramp Angle	35°
Road Width	30m
Road Gradient	10%
Road Width in Last 2 Benches	20m
Road Gradient in Last 2 Benches	12%
Cutoff Grade in Volcanics (g/tonne)	0.250
Cutoff Grade in Argillite (g/tonne)	0.200

Table 16-2: Mine Design Parameters

Three successive phases for the pit were designed based on the Lerchs-Grossman shape analysis and minimum push-back widths. These designs account for limitations based on minimum mining widths and wall angles indicative of operational feasibility. Pit exits have been designed to the north and east pit edges where feasible to minimize haul distances to the crusher and waste dump locations. The ultimate pit shape was based on the boundaries in the 91% price Lerchs-Grossman shape discussed in the previous subsection. The target for road gradient through the main portion of the pits was 10%, with a 12% target in the final two benches. However, some stretches of road exceed the 10% target in small localized areas. The preliminary ultimate pit design is shown in Figure 16-4. A more detailed pit design will be done in future studies.

The ultimate pit shown is the combination of three phases composed of combinations of smaller pit bottoms within the greater geometry. There are a total of seven smaller pit bottoms in the ultimate shape. The first phase takes the first and highest grade pit threshold, Figure 16-2. The second phase includes four additional pit bottoms, Figure 16-3. The third and final phase mines the last two pit bottoms, Figure 16-4. Some waste stripping is common to the pit bottoms, thus the phases ensure that a minimum mining width of 30 meters is for any area that is expanded or pushed back. In scheduling the phases can be intermingled in some years. Given the geometry of the orebody, most of the realization of resource tons is in the intermediate to lowest benches of a given phase or pit bottom. Waste stripping a subsequent phase may often be done while still mining the final and most lucrative benches of the current phase in order to balance material movement flows and the cost/revenue streams.

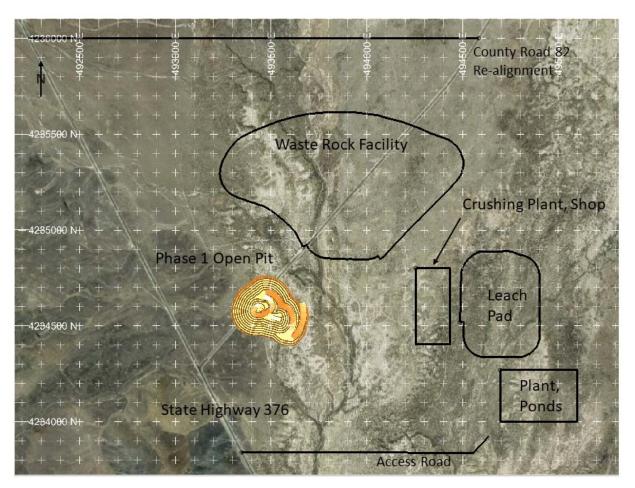


Figure 16-2: Phase 1 Mine Design

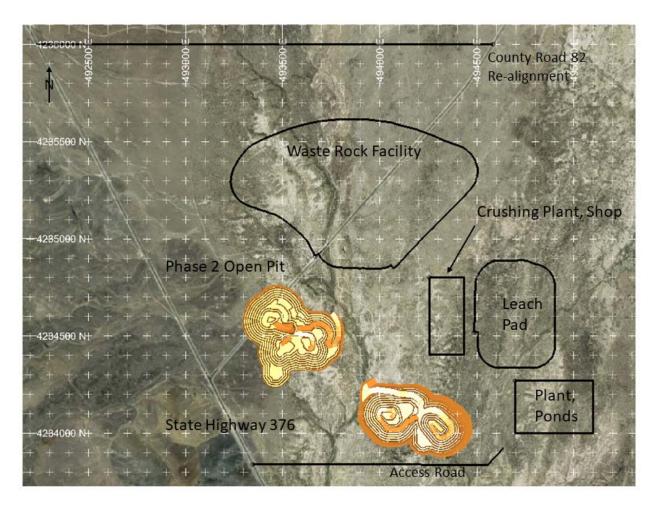


Figure 16-3: Phase 2 Mine Design

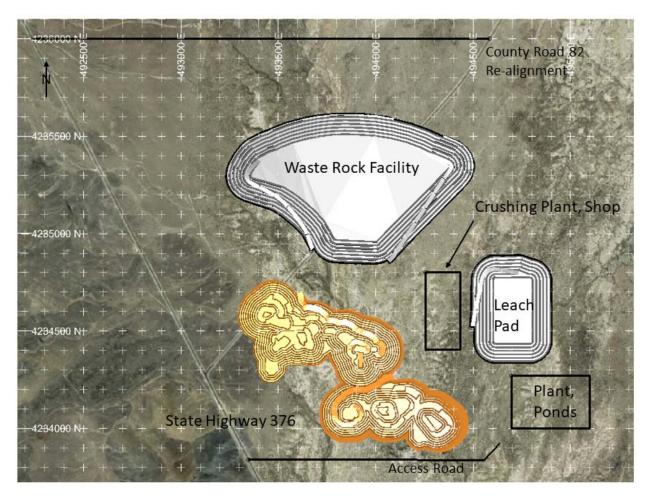


Figure 16-4: Ultimate Mine Design

The in-pit mineral resource estimate shown in Table 16-3 and the mine schedule is based on the above pit design. In-pit mineral resources are not mineral reserves and include inferred resources which are too speculative geologically to have modifying factors applied. There are no current mineral reserve estimates for the project. The in-pit mineral resources shown are in-situ, at a gold cutoff grade of 0.20 g/t for argillite mineralization and 0.25 g/tonne for mineralization in volcanics.

Classification	Tonnes (x1,000)	Gold Grade gram/tonne	Contained Au Ounces (troy)
Measured Resources	1,890	1.261	76,700
Indicated Resources	6,850	0.690	152,000
Measured + Indicated	8,740	0.813	229,000
Inferred Resources	3,740	0.716	86,100

16.4 Mine Planning and Schedule

Mineralization scheduled for mining is trucked to a 3 stage crushing plan located near the north eastern edge of the final pit. After crushing the material will be conveyed and stacked on the leach pad for gold recovery. Mine planning was carried out on the assumption of a 5-year mine life, attempting to balance the amount of mineralization per period in order to keep consistent feed to the crushing plant. This results in a planning target of approximately 2.5 million tonnes of mineralization per year. Waste materials are trucked to the waste dump to the north of the final pit edge.

After the completion of mining from the two sub-pits in the southeast, waste material will be used to backfill these areas. Waste material movement targets were set by balancing the truck operating hours after the required hours for mineralization movement were accounted for. These hours were calculated through a spreadsheet haulage model based on the length and road gradient traveled from each pit bench to the material destination for Caterpillar 777 haul truck. As pits deepen, leach pads and dumps ascend, haul times escalate, and overage tonnage capacities tend to be reduced. A year-by-year material movement schedule is shown in Table 16-4. Note, recovered gold figures account for leach recovery times and assume a 3-month delay before gold is recovered.

Parameter	Unit	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Total
Mineralized Material	kt	2,460	2,620	1,990	2,540	2,870		12,500
Grade	g/t	0.976	0.732	0.909	0.640	0.708		0.784
Contained Au	kg	2,400	1,920	1,810	1,620	2,030		9,790
Waste Movement	kt	14,600	12,800	11,500	10,500	8,400		57,800
Total Movement	kt	17,000	15,400	13,500	13,100	11,300		70,300
Strip Ratio		5.9	4.9	5.8	4.2	2.9		4.6
Recovered Au	kg	1,160	1,510	1,500	1,230	1,290	335	7,030

Table 16-4: Scheduled Material Movement

16.5 General Site Layout

The site is largely flat, slightly dipping to the south. The layout of the pit, waste rock storage, and leach pad are shown in Figure 16-4. To the north of the pit is the waste dump and to the east of the pit is the leach pad. The crushing plant is to be located centrally, between the pit and leach pad.

16.5.1 Waste Rock Storage

Preliminary designs for a waste Dump were made based on the parameters shown in Table 16-5. The waste dump facility was placed to the north or the final pit designs, including a 200m buffer around the \$1,600 pit edge. The location relative to the ultimate pit and the preliminary leach pad design is shown in Table 16-5.

Parameter	Value
Dump Lift Height	9m
Dump Catch Bench Width	6.4m
Dump Face Angle	35°
Dump Inter-Ramp Angle	2H:1V
Dump Road Width	30m
Dump Road Gradient	10%

Table 16-5: Waste Dump Design Parameters

The dump is seven lifts in height. The first lift is considered partial as it contains about half of the tonnage of the subsequent lifts and brings the overall footprint of the facility to level. Capacity of this facility is 28.8M m³ for an approximate tonnage of 47.2M tonnes of waste material. The remaining need for waste storage, approximately 10.6M tonnes, will be contained by the two southeastern pit phases after they have been mined out.

16.5.2 Leach Pad Facility

The leach pad facility was designed based on parameters shown in Table 16-6. The stacking was limited to 6 lifts. Road access on the leach pad was made 20 meters wide as this should be sufficient for the conveyors and access for light trucks and small equipment to do maintenance. The facility is to be located 150 meters east of the crushing plant. The total capacity of the current design is 12.9 million tonnes, about 3% more than needed in the tonnage in the schedule.

Parameter	Value
Leach Lift Height	9m
Leach Catch Bench Width	6.4m
Leach Face Angle	35°
Leach Inter-Ramp Angle	2H:1V
Leach Road Width	20m
Leach Road Gradient	10%

Table 16-6: Leach Pad Facility Design Parameters

16.6 Mine Fleet

The mobile equipment fleet is shown in Table 16-7. The quantities of each equipment remain constant throughout the life of mine.

Table 10-7. Mobile Equipment Pree	
Equipment	Quantity
Loader – CAT 992	2
Haul Truck – CAT 777	9
Blast Hole Drills	2
ANFO Loader	1
Dozer – CAT D9	2
Water Truck - CAT 775	1
Grader – CAT 14M	1
Crane Truck	1
Backhoe	1
Crusher Loader – CAT 966	1
Dozer Leach Pad – CAT D6	1

Table 16-7: Mobile Equipment Fleet

16.7 Labor Requirements

The personnel needed to operate the mine, including administration, technical services, equipment operators, and maintenance are shown in the table below. Staffing levels are constant through the mine life except for year 6 when mining ceases but leaching operations continue

Tuble 10 of Starling Level		
Category	Quantity	
Loading and Hauling	46	
Drilling and Blasting	10	
Mine Support	6	
Mine Maintenance	18	
Crushing Plant	23	
Leach and Process Plant	11	
Laboratory	4	
Administration, Engineering and Supervision	17	
Total	135	

Table 16-8: Staffing Level

17 Recovery Methods

The information for the PEA is derived from mine designs based on a subset of the total mineral resource declared in Section 14.12 and scoping level metallurgical test work discussed in Section 13.2.2.

17.1 Introduction

Process flowsheet and recoveries are based primarily on the 2019 McClelland Laboratories test work, as described in a report titled "Report on Bottle Roll and Column Leach Testing – Midway Drill Core Composites, McClelland Laboratories, Inc. December 20, 2019", and discussed in section 13.2.2. No additional test work has been undertaken since 2019.

17.2 Conceptual Process Flowsheet

The scoping level test work indicate that the different ore types from the deposit where amenable to heap leach when crushed to relatively fine size (P_{80} of 10 mesh). Hence, a process flowsheet was conceptualized for the deposit and is given in Figure 17-1.

The process will consist for three-stage crushing with closed screen in the third stage to produce a product leaving a particle size of P_{80} of 10 mesh. The crushed ore will be agglomerated with cement and transported to the leach pad using a conveyor system and radial stacker.

The agglomerated ore will be leached with sodium cyanide solution and the pregnant solution will be sent to the adsorption-desorption (ADR) plant utilizing a carbon-in- column circuit to recover gold and silver. The barren solution from CIC circuit and the electrowinning circuit in the gold recovery room will be sent to the barren solution pond.

The doré bar consisting of predominantly gold and some silver will be sent to the refinery.

The planned processing capacity for crushing and heap leach is 7,000 tonnes per day (2.5 Mt per year). The planned ADR plant had a solution processing capacity of 400 cubic meters per hour and will be equipped with 2 tonne carbon stripping circuit.

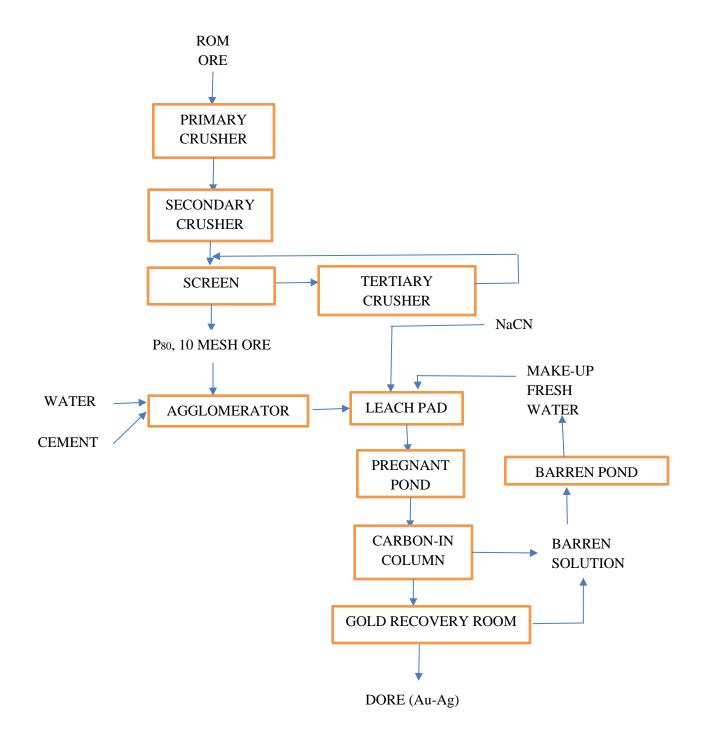


Figure 17-1: Conceptual Process Flowsheet

17.3 Recovery Projections

The deposit has two major lithologies, namely, argillite and volcanic. Due to the limited scoping test work, the two ore type recoveries were tracked separately, and anticipated recoveries applied to each ore type. The results are summarized in Table 17-1.

Ore Type	Projected Recovery % Au (Based on Scoping Column Tests)
Argillite Orew	83
Volcanic Ore	58
50:50 Blend	71

Table 17-1: Projected Recoveries for the Deposit

The recovery from argillitic ore averaged 83% while recovery from volcanics average 58% (ranged from 47.9% to 63.6%). Since argillitic ore constitutes 50% of the resources, the blended recovery of all material types would be \pm 71%. The gold recovery has not been discounted from the column results because the gold leaching was still on-going when the leaching was terminated in the laboratory column test work.

17.4 Reagent Consumptions

The reagent consumption was estimated based on limited test data and the water consumption and power demand were based on similar operations in Nevada. The information is presented in Table 17-2.

Item	Units	Value
NaCN ¹	Kg/mt	0.42
Cement	Kg/mt	4.4
Water	1/s	4.0
Power	Mw	3.0

Note: ¹60% of Consumption in Column Tests

17.5 Recommendations

Dr. Malhotra recommends that a detailed metallurgical program be undertaken for the PFS. This should include obtaining PQ core for Column testing, crushing tests be undertaken to produce feed for column tests and run column tests on each material type and blended material. Since gold recovery is size dependent, HPGR testing for third-stage crushing should be also evaluated.

18 Project Infrastructure

18.1 Water Supply and Dewatering

Water consumption for the project during mining, processing, and initial reclamation and closure will consist of replacement of leach solution losses, agglomeration of crushed material, fugitive dust suppression and potable water supply. Water will be sourced from underground wells accessing a near surface aquifer. Water supply should not be an issue based on hydrological studies conducted by previous operators. Water rights will need to be obtained for this consumptive use.

Because the planned pit intersects this regional aquifer, depression of the local water table is planned using de-watering wells around the perimeter of the open pit. In-pit wells, and in-pit horizontal and vertical borehole drains may also be used. Groundwater will be removed and pumped to infiltration fields where the water will re-enter the aquifer.

Surface water management will be required to limit impacts of storm water runoff. Regulations require the development of a Storm Water Management Plan for the entire site to control storm water impacts to the environment. The plan will outline the measures required to accomplish the above goals.

18.2 Power Supply

The project does not currently have access to the regional electric grid. However, there is a branch of the grid approximately 3 miles east of the project area. This line will be extended to the mine site and a substation will be constructed to receive and deliver power to site. Based on the equipment specified the nominal power demand is anticipated to be about 3 MW.

18.3 Labor

Since mining is prolific in this region there is a reasonably large labor pool of experienced miners, staffing the mine is not anticipated to be an issue. The nearby town of Tonopah will provide housing and essential services. Camp accommodations and services will not be required.

18.4 Maintenance/Warehouse/Office

Buildings for mobile equipment maintenance, warehouse, and offices will be required. Planning of these buildings has not been completed. However, funds are allocated in the financial model to construct and equip these facilities. Estimates of the size of these buildings are based on similar sized projects. Fuel storage and dispensing facilities will be located near the shop.

18.5 Processing Facility

The processing facility will consist of a heap leach pad, solution ponds and a building to house the Adsorption, desorption and recovery (ADR) equipment. The refining area will also be contained within this building. Laboratory facilities will be housed in a laboratory building or in several shipping containers modified for this purpose, for sample preparation and assay processes.

18.6 Roads

Construction of a short access road is required to access the site from the adjacent State Route 376. The road will be located just south of the open pit. Provisions to restrict public access to the site will be planned for the access road. Additionally, County Road 82 will need to be relocated to the north to allow room for mine facilities. Depending on the ultimate pit configuration, State Route 376 may be realigned to facilitate mining activities. Capital costs have been allocated for these construction projects.

19 Market Studies and Contracts

19.1 Gold Market

Gold is the principal commodity at the Tonopah property and is freely traded in transparent markets worldwide. It is generally assumed that there will be a ready market for gold at market prices. There are no current contracts for the sale of gold produced at the project. There are no issues anticipated in the ability to obtain contracts to sell the bullion produced to a refiner.

19.2 Gold Pricing Assumption

The base case gold price used for this report is \$1,650/oz, which is rounded down from the 3-year trailing average of \$1,654. Figure 19-1 shows the historic gold price over the last 3 years. Gold prices and averages are based on the London Metals Exchange daily average of the AM and PM fix. Table 19-1 shows the gold price trailing average over several intervals as of January 1, 2022.



Figure 19-1: Historic Gold Price

Interval	Average Gold Price
1 Year	\$1,799
2 Year	\$1,785
3 Year	\$1,654

In Sections excerpted from the 2020 PEA, a gold price of \$1,400/oz was used in the original document.

20 Environmental Studies, Permitting and Social or Community Impact

20.1 Required Permits and Status

Viva has assumed the permits and authorizations necessary to conduct mineral exploration activities on both public and private land. Authorizations assumed include:

- Decision Record (DR) and Findings of No Significant Impact (FONSI) issued by the United States Department of the Interior Bureau of Land Management (BLM) Casefile NVN-076629, and
- Reclamation Permit 0210 issued by the Nevada Division of Environmental Protection (NDEP) Bureau of Mining Regulation and Reclamation (BMRR).

The BLM DR and FONSI authorize surface disturbance for up to 75 acres for mineral exploration and support activities. Viva's current reclamation bond liability deposited with the BLM Nevada State Office is \$100,058 for reclamation of disturbance authorized under Casefile NVN-076629. To-date only 10.1 acres of public land and 0 acres of private land of the total 75 acres of public and private land have been disturbed and remain under reclamation bond.

Temporary groundwater appropriations were issued by the Nevada Division of Water Resources (NDWR) to supply exploration drilling water from an existing well in the Project area. On November 17, 2021 the NDWR granted an extension to use the project's existing water supply well for exploration and fugitive dust suppression purposes through November 17, 2022. The use is restricted to dust control and drilling purposes, and must not exceed five acre-feet per annum.

Viva also assumed two exploration Notices of Intents (NOI's), NVN-095436 and NVN-095437, the East and North Basins. Reclamation bonds currently posted in regards to these NOI's amount to \$3,294 and \$4,182 respectively. The NOI's involve existing groundwater monitoring and injection wells constructed and used by Midway for groundwater re-infiltration and injection testing. These two NOI's have been terminated, the wells plugged and abandoned, and reclamation vegetation success demonstration is ongoing. Bonds will be released on acceptance of demonstration of vegetative success by the BLM.

Viva's proposed exploration activities will be located in proximity to two National Register of Historic Places (NRHP) eligible cultural resources sites, CrNV-6-1106 (Ralston Quarry) and CrNV-61-7421 (Midway Archeological Site). As required by Section 106 of the Archaeological Resources Protection Act of 1979 these sites must be protected from disturbance. Viva's exploration activities are not anticipated to occur near the Ralston Quarry site. The Midway Archaeological Site is located in a very large and extensive dune field complex in which the Project resource area is located. As required by the BLM, Viva will avoid identified cultural features while drilling by establishing 20-meter radius buffer zones at drill sites.

A third cultural resource site, CrNV-61-7482 (Manhattan-Tonopah stagecoach route) traverses the Project area from north to south. This site has not been evaluated for NRHP eligibility.

20.2 Environmental Liabilities

Viva is not aware of any current environmental liabilities not identified in this Report resulting from prior Operators' mineral exploration and testing operations. Field inspections by Agency staff and Viva support staff confirm the existence of water supply and groundwater monitoring wells that require plug and abandon following completion of exploration or potential subsequent mining operations. BLM and Bureau of Mining Regulation and Reclamation (BMRR) regulations require sufficient reclamation bonding to ensure ultimate completion of all reclamation obligations. Review of Midway and Agency records do not report the current presence of residual hydrocarbon (diesel, lubricants, etc.) products resulting from exploration drilling operations in the Project area.

Field inspection of the site by the BLM and BMRR is conducted periodically. No citations or warnings have been issued, and no fines or penalties were levied for any environmental or regulatory issues pertaining to the Project under Viva's ownership.

Technical issues, requirements and practices related to non-degradation of ground waters of the State, cultural resources preservation, and mitigation of potential impacts on sensitive plant and wildlife species, are not dissimilar to those encountered and managed at mineral exploration projects located elsewhere in the Great Basin of Nevada.

20.3 Environmental Technical and Cultural Resources Studies and Permitting

20.3.1 Previous Environmental Technical Studies

The operator previous to Viva, Midway Gold, undertook several studies to support potential future surface and/or underground mining operations. The studies identified and evaluated baseline hydrogeologic conditions, groundwater quality, storm water controls, mine dewatering requirements, resource and waste rock geochemistry, surplus dewatering water management options including re-infiltration, underground injection and supplemental contribution to the Tonopah Public Utilities (TPU) town water system.

Of note, studies conducted in 2010 predicted an average of 1,000 to 2,000 gallons per minute dewatering rate requirement for a potential underground mining operation. Geochemical testing of waste rock that would be encountered in potential underground decline development reported a low potential for acid rock drainage despite a low net neutralizing potential.

Preliminary data related to environmental and cultural studies have been collected, as detailed and discussed below. Permits for exploration activities are discussed in 20.1. No mining permits have yet been sought or secured.

Nothing has been discovered during these preliminary studies which is expected to have material adverse effects on the eventual permitting and operation of the Tonopah project, although some form of mitigation effort will be required to settle each of the issues discussed.

20.3.1.1 Ore and Waste Rock Geochemical Characterization

Project records indicate that initial acid-base accounting samples were submitted for study to Geomega of Boulder CO. These results were focused on certain types of volcanic tuff and Palmetto Formation argillite, which were considered likely to be the primary waste rock types in an underground mining scenario. While not all possible types of waste rock for all potential mining scenarios have been tested, the results so far demonstrate minimal risk of potential ARD. The July 1, 2007 Geomega memorandum states:

"There are now results for 32 samples of potential waste rock material. On an aggregate basis both the Tertiary volcanic tuff and the Palmetto Formation argillite (with the exception of Outcrop 373) has both low sulfide and low carbonate content. However, while the average carbonate content of the 25 samples (i.e., excluding Outcrop 373) is low (2.3 ppt) the sulfide content is nonexistent to minimal resulting in an average NP:AP of 8.2 which exceeds the EPA criteria of 3."

Beginning in 4Q 2020, additional Acid Base Accounting (ABA) and Net Acid Generation (NAG) analyses has been conducted on samples collected during recent exploration drilling campaigns. The samples represent ore, waste rock, and rock exposed in a final post-mining pit configuration and is analyzed to determine the potential for the materials to degrade Waters of the State of Nevada during a mining operation and closure/final reclamation/post-closure periods. In addition to the ABA and NAG analyses, select samples are analyzed for specific constituents via the Meteoric Water Mobility Procedure to determine potential concentrations in meteoric waters that contact the mineralized material. Finally, following Agencies concurrence with a supplemental geochemical characterization program, Viva has initiated humidity cell testing (HCT) of ten cells composed of materials that, under final permanent closure conditions, may impact the water quality of a post-mining pit lake resulting from permitting a surface mine at the Project. The results of humidity cell testing to date is that there is no acid drainage potential.

20.3.1.2 Water Studies

A total of 23 separate water monitoring well points were established by Midway in the Project area for water monitoring, which were only sporadically sampled. No consistent baseline water quality studies were conducted for the Project. A systematic water sampling program was initiated in December 2020 to establish baseline water quality in the project area.

Construction and monitoring of additional groundwater monitoring wells may be necessary to determine baseline water quality for the broader area that may be impacted by mine dewatering and reinfiltration operations. Initial rapid infiltration basin (RIB) testing was completed to establish costs for processing water pumped during potential underground mine dewatering and returning it to the basin. Additional RIB testing is proposed to support reinfiltration permitting.

Viva resumed baseline groundwater quality and water level monitoring in select wells in December, 2020 and continued bi-monthly, then quarterly, monitoring data collection through the first quarter 2021. The initial seeps and springs survey was conducted in April, 2021 with follow-up seasonal surveys conducted in July, October, 2021 and February 2022. Baseline hydrogeologic monitoring will continue during 2022 with a summary report scheduled for submittal to the Agencies by late 2022.

20.3.1.3 Cultural Resources Studies

Three cultural resources surveys were conducted in the Project area: 1993, 1994 and late 2002-early 2003. These surveys supported mineral exploration activities at that time in the Project area. The Ralston Quarry where Viva proposes no disturbance was originally noted by BLM archaeologist Roberta McGonagle in 1978 with a 1995 follow-up and NRHP eligibility determination in 1978. It is anticipated that updated cultural resource studies are likely required due to the age of past studies, before any major development programs are conducted at the Project.

The Midway Archaeological Site is determined to be potentially eligible to the NRHP with many cultural resource features such as fire-cracked rock, lithic scatters, etc. recorded in the 2002-2003 survey. BLM, Nevada State Historic Preservation Officer and Midway Gold were parties to a Programmatic Agreement (PA) governing development of Midway's exploration activities within the Area of Potential Effect, and administration of the PA to ensure that historic properties are treated to avoid or mitigate effects to the extent practicable and to satisfy BLM Section 106 responsibilities for all aspects of the Project. Midway submitted to the BLM individual work plans (33 to-date) identifying specific locations of proposed disturbance for review and authorization to proceed subject to PA stipulations. The PA facilitated timely authorizations and in-field exploration activities.

Viva has assumed Midway Gold's position under the existing PA and filed five additional work plans to support its recent drill programs with subsequent Notices to Proceed issued by the BLM. A sixth work plan is under preparation with submittal to the BLM anticipated before the end of the first quarter 2022.

Native American consultations were conducted by Midway Gold involving letters, phone calls and two site visits. Concerns expressed by Tribal representatives included potential impacts to the cultural site and impacts to the spiritual value of the Ralston Quarry and Midway Archaeological Site; however, there was no evidence at that time of any recent or current use of the Midway Archaeological Site by Native Americans even though they are aware of the existence of the Site.

Viva's exploration activities will adhere to all Federal and State cultural resources regulations and will inform employees and contractors of the repercussions of collecting cultural artifacts, if any, or damaging cultural resources sites.

A cultural resources re-survey of approximately 1,750 acres located in Sections 29 and 30, and portions of Section 19, 20 and 32 T5N R44E was performed in November 2020 with the intent to identify artifacts exposed since conduct of prior surveys in the early- to mid-2000s. The re-survey results have been reviewed by the BLM and are currently under review by the Nevada State Historic Preservation Office (SHPO). Additional resurvey and survey of previously unsurveyed areas will be required to support future mining operations permitting.

20.3.1.4 Environmental Resource Studies

Surveys of site and area biological resources were conducted in 2003 to support BLM Environmental Assessment-level analysis of the Exploration Plan of Operations under the National Environmental Policy Act (NEPA). Surveys included identification of geologic; air quality; soils; vegetation; range; invasive non-native plant species; wildlife; threatened, endangered and sensitive plant and animal species; and wild horses resources in addition to the geochemical and water resources investigations described in Sections 3.3.1.1 and 3.3.1.2. No significant impacts to the surveyed resources were identified by the BLM in the 2003 Environmental Assessment and the Decision authorizing Project exploration activities was issued December 12, 2003. To build on data developed by previous Project operators, Viva resumed in December, 2020 periodic hydrogeologic resources monitoring and characterization studies discontinued by Midway in 2011.

Viva and its contracted technical support team met with BLM and NDEP BMRR staff in March, 2021 to initiate Agency contact, present Viva's project and team, and coordinate and receive guidance on necessary baseline information required for Agency review of future mining operation permitting. The Agencies

reviewed Viva's plans including supplemental geochemical characterization plans. The Agencies concurred with the proposed supplemental geochemical characterization plans for additional MWMP and ABA analysis and humidity cell testing. The BLM issued a Baseline Data Needs Assessment Form (BNAF) July 12, 2021 describing the updated and/or additional environmental resources surveys required for the BLM to evaluate a Mining Plan of Operations under NEPA.

In addition to the hydrogeologic and geochemical resources programs described in Sections 3.3.1.1 and 3.3.1.2, Viva contracted in 2021 for a golden eagle and raptor nest survey, and a survey of those wildlife resources that could reasonably be conducted in accordance with season-specific protocol for general wildlife, bat habitat, pygmy rabbit and kangaroo mouse. Survey reports were submitted to the BLM in December, 2021. Additional surveys for air quality; soils; vegetation; range; invasive non-native plant species; threatened, endangered and sensitive plant and animal species; and wild horses are planned for 2022.

20.3.1.5 *Permitting Activities*

Initial exploration drilling operations involving surface disturbance of less than 5 acres on public land were authorized by the BLM under NOI's. An Exploration Plan of Operations (ExPoO) and Nevada Reclamation Permit application to disturb up to 75 acres for mineral exploration was filed with the BLM and NDEP BMRR in January 2003. The BLM determined it was necessary to prepare an Environmental Assessment (EA) assessing the potential environmental consequences of the proposed exploration activities. The final EA (NV065-2003-037) was published, and a DR and FONSI, issued approving the ExPoO December 12, 2003. NDEP BMRR approved Reclamation Permit 0210 in January 2004. Subsequent ExPoO and Reclamation Permit modifications and amendments followed in 2004-2007, with a Major Modification/Amendment submitted in January 2008 to include construction and operation of an underground mine. Agency processing of the Modification/Amendment was suspended in 2009 as exploration operations at the Project were idled.

The ExPoO and Reclamation Permit were transferred to Viva as Owner and Operator in 2017 following Viva's posting of the required reclamation bond. BLM Casefile NVN-076629 and Reclamation Permit 0210 remain in full force and effect. Only 10.1 acres have been disturbed under the Casefile and Permit to-date. The 2021 Annual Reclamation Report and FY 2022 Fees are due for submittal to NDEP BMRR by April 15, 2022.

Waiver MM-232 issued by the Nevada Division of Water Resources for temporary use of less than 5 acrefeet groundwater to support exploration drilling operations and fugitive dust suppression was extended to November 17, 2022. Another one-year extension will be requested prior to November 17, 2022.

Viva intends to continue collecting baseline environmental resources information and submitting reports to the Agencies during 2022 to support future Agency review of applications for mining operation permits at the Project. Required permits will include, but not be limited to, BLM Mining Plan of Operation, Nevada Mining Reclamation Permit, Nevada Water Pollution Control Permits, Nevada Air Quality Operating Permits, Nevada Liquified Propane Gas Permit, Nevada water rights, Nevada Industrial Artificial Pond Permit, etc.

21 Capital and Operating Costs

The information for the PEA is derived from mine designs utilizing a subset of the total mineral resource declared in Section 14.12.

Capital and operating costs for both the mine and processing facilities were developed based on factored and quantity built up estimating techniques and benchmarking similar projects. These costs and equipment requirements were determined from a variety of sources including vendor estimates, the authors' professional experience, review of production and financial actuals from similar projects in the western United States and third-party mining cost databases.

The capital and operating costs detailed in this report have been reviewed by the qualified persons and are reasonable for inclusion in this report. The cost detail meet or exceed the requirements of a Preliminary Economic Assessment accuracy. A 20% contingency is applied to capital costs, except for the mobile equipment fleet, as it reflects current vendor quotations. A 10% contingency is applied to operating costs.

21.1 Capital Cost Estimate

Capital cost were estimated over the entire life of the project of 8 years, including 2 pre-production years, 5 years of mining and processing operations, and a final year of processing operations and reclamation. Initial capital consists of capital spent in the pre-production period and is estimated at \$57.9 million. Sustaining capital consists of capital spent in the remaining 6 years of the project and is estimated at \$14.7 million, for a project total capital cost of \$72.6 million.

Initial and Sustaining capital costs are detailed by area in Table 21-1 Sustaining capital includes credits for the salvage of equipment, return of environmental bonding, and working capital. Costs for each category shown include contingency.

Category	Initial Capital	Sustaining Capital	Total
	(\$ Millions)		
Mine Development	\$7.20	-	\$7.20
Mine Mobile Fleet	\$4.98	\$13.6	\$18.6
Process Plant and Heap	\$30.5	-\$1.05	\$29.5
Environmental & Other	\$15.2	\$2.11	\$17.3
Total	\$57.9	\$14.7	\$72.6

 Table 21-1: Project Capital Costs

21.1.1 Mine Development Costs

Mine development costs include capital cost for fixed assets, site infrastructure, initial site grading and construction. Items included these groupings include, additional exploration for pit delineation, connection of utilities, are dewatering system, county road re-location and shop/warehouse/office facilities. These costs are typical for a project this size for items such as buildings, utilities, and other items required to support mining operations. The basis for all mine development costs are factored estimates from actual costs or factored estimates from "InfoMine Cost Database." No salvage value is assigned to these capital costs.

Sustaining cost for these installations are covered in site wide sustaining capital line item under environmental and other capital. Detail of the mine development costs are available in Table 21-2.

Item	Cost (\$ Millions)
Exploration	\$0.50
Dewatering & Infiltration System	\$1.50
1,300m2 Fully Equipped Shop	\$1.50
Office / Warehouse	\$0.50
Road Relocation	\$0.50
Power Supply	\$0.80
Water Supply	\$0.20
Access Roads, Site Civil	\$0.50
Contingency (20%)	\$1.20
Total	\$7.20

Table 21	-2: Mine	Development	Capital
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21.1.2 Mine Mobile Equipment Costs

Capital costs for the mobile equipment fleet assume new equipment purchases on the primary mining equipment (haul trucks, wheel loaders, drill rigs and dozers) and used equipment for the mining support equipment (water truck, grader, crane truck, ANFO loader, fuel and lube trucks). Purchases assume using lease to own financing, with financing terms assumes a 5-year term at a 6% interest rate with annual payments beginning one year before delivery of the equipment. All mobile equipment costs assume an additional 10% cost for transportation and 7% for state and local sales taxes over the base equipment price. A salvage value of 30% of the base price, excluding transport and taxes, for mobile equipment is credited to the project in the year after mine operations cease. No contingency costs are applied to the mobile equipment fleet. Table 21-3: contains an itemized table of the mining mobile equipment capital costs.

Equipment	Quantity	Unit Cost	Principle +	Salvage	Total Capital
-4			Interest		Cost
	(\$ Millions)				
Haul Truck - CAT 777	9	\$1.29	\$13.8	-\$3.48	\$10.3
Wheel Loader - CAT 992	2	\$1.52	\$3.61	-\$0.91	\$2.70
Drill Rig (15-25 cm diameter)	2	\$0.98	\$2.32	-\$0.59	\$1.74
Dozer - D9	2	\$1.33	\$3.16	-\$0.80	\$2.36
Water Truck – CAT 775	1	\$0.62	\$0.74	-\$0.19	\$0.55
Road Grader – CAT 14M	1	\$0.31	\$0.36	-\$0.09	\$0.27
Crane Truck – 30 Tonne	1	\$0.14	\$0.17	-\$0.04	\$0.12
ANFO Loader	1	\$0.09	\$0.10	-\$0.03	\$0.08
Backhoe - 1 m3	1	\$0.14	\$0.17	-\$0.04	\$0.12
Fuel /Lube Truck Class 8	2	\$0.09	\$0.21	-\$0.05	\$0.16
Light Trucks	5	\$0.05	\$0.28	-\$0.07	\$0.21
Total		\$6.55	\$24.9	-\$6.29	\$18.6

Table 21-3: Mining Mobile Equipment Capital

The basis for the estimation of mobile equipment capital costs are, unit costs are based on "InfoMine Equipment Cost Database" with validation of the capital cost for key pieces from bid prices from recent, similar projects. Used prices are estimated at 60% of new prices. Equipment quantities are based on estimated equipment productivity and the material movement schedule.

21.1.3 Process Plant and Heap Costs

Capital costs for the processing plant, including crusher, conveyor and ADR plant are based on vendor quotes for equipment suitable for the scheduled production rate. All equipment is priced as new equipment, except for the leach pad conveyor stacking system which is priced as used equipment. Process equipment costs include an additional cost of 10% for transportation and 7% for state and local sales taxes. The process plant capital cost includes costs for the building, foundations, and construction costs. A 20% contingency is applied to all process plant capital. A salvage value of 35% of the base equipment value, excluding installation and taxes, is used for the process equipment. Table 21-4 contains the process costs by item.

Item	Capital Cost	Salvage	Total Capital Cost
	(\$ Millions)		
Crushing Plant	\$8.10	-\$2.38	\$5.72
Leach Pad Construction	\$6.21	-	\$6.21
Process Plant	\$9.80	-\$2.15	\$7.65
Conveyor and Stacking System	\$3.70	-\$0.98	\$2.72
Laboratory	\$0.60	-\$0.21	\$0.39
Mobile Equipment	\$1.51	-\$0.38	\$1.13
Contingency (20%)	\$5.68	-	\$5.68
Total	\$35.6	-\$6.1	\$29.5

Table 21-4: Process Capital Cos

21.1.4 Other Capital Costs

Other capital costs include items such as environmental bonding, studies, sustaining capital, working capital and other costs. Environmental bonding is modeled as a surety bond where 50% of the bond amount is deposited and 2% of the deposited amount is charged annually as a fee. The initial deposit amount is returned during reclamation. Working capital is 25% of the operating cost in the first production year. General sustaining capital is \$1 million per year during the 5 years of mine production.

Item	Initial Capital	Sustaining Capital	Salvage/Credit	Total Capital
	(\$ millions)			
Environmental Bonding	\$2.50	\$0.25	-\$2.50	\$0.25
Feasibility, Permitting	\$1.50	-	-	\$1.50
Royalty Purchase Option	\$1.00	-	-	\$1.00
First Fills	\$0.25	-	-	\$0.25
Sustaining Capital	-	\$5.00	-	\$5.00
Working Capital	\$8.89	-	-\$8.89	\$0.00
Mine Closure and Reclamation	-	\$6.00	-	\$6.00
Contingency (20%)	\$1.05	\$1.05	\$1.20	\$3.30
Total	\$15.2	\$12.3	-\$10.2	\$17.3

 Table 21-5: Other Project Costs

21.2 Operating Cost Estimate

Operating costs for the project are estimated over the life of the project using a first principles buildup from mine schedule quantities, unit costs, equipment operating hours, labor, and estimated consumables. Fixed costs (labor) and variable costs (equipment operation and consumables) are tabulated separately which leads to variations in the unit operating costs per year due to a varying schedule. Operating costs for major cost centers are shown in Table 21-6.

Area	LoM Cost	Average Unit Cost	
Area	(\$ Millions)	(\$/tonne processed)	
Mining	\$90.2	\$7.22	
Processing	\$56.5	\$4.52	
Site G&A	\$8.23	\$0.66	
Contingency (10%)	\$15.5	\$1.24	
Total	\$170	\$13.6	

 Table 21-6: Project Operating Costs

The basis of labor costs for all project areas is the number of employees and an annual, burdened wages based on the InfoMine mine cost data base. Wages were verified based on actual cost data from a similar operation. Staffing levels are based on the equipment fleet size or scaled from similar operations.

21.2.1 Mine Operating Costs

A breakdown of the mine operating costs over the life of mine (LoM) is shown in Table 21-7. Load and haul costs are costs associated with the loading of blasted material and transport to the crusher or waste dump. The drill and blast area tracks costs associated with drilling blast holes and explosives consumed. Mine support contains costs associated with dozing at the waste dump and active face, dust suppression, grading of roads and utility work associated with mining. Mine maintenance includes maintenance labor for the mobile equipment fleet and operation of fuel/service trucks. Mine general and administrative (G&A) costs include salaried positions supporting mine operations.

Table	21-7:	Mine	Operating	Costs
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Area	LoM Cost	Average Unit Cost	Average Unit Cost
Aled	(\$ Millions)	(\$/tonne processed)	(\$/tonne mined)
Load and Haul	\$40.0	\$3.21	\$0.57
Drill and Blast	\$30.6	\$2.45	\$0.44
Mine Support	\$6.51	\$0.52	\$0.09
Mine Maintenance	\$7.58	\$0.61	\$0.11
Mine G&A	\$5.45	\$0.44	\$0.08
Contingency (10%)	\$9.02	\$0.72	\$0.13
Total	\$99.2	\$7.94	\$1.41

The basis for the mine operating costs are as follows. For all cost areas, machine hours required to meet the mine schedule requirements are calculated and multiplied by an hourly unit cost. For loaders and haul trucks, the machine hours are calculated using an equipment productivity model and a haulage model, on an annual basis. The hourly unit costs are based on a database of equipment and includes fuel, maintenance parts, lubricants, tires and ground engaging wear parts. Table 21-8 through Table 21-12 shows a detail of each mine operating cost area.

Area	LoM Cost - (\$ Millions)	LoM Quantity	Units	Unit Costs	Units	
Variable Costs	\$24.3					
Loader	\$5.3	50,208	Hours	\$98.28	\$/hr	
Haul Truck	\$19.0	238,583	HOUIS	\$79.60	Ş/III	
Fixed Costs	\$15.7					
Loader Operator	\$3.3	8	Employees	\$77,566	\$/yr	
Haul Truck Operator	\$12.5	36	Employees	\$69,245		

Table 21-8: Loading and Hauling OPEX

Table 21-9: Drilling and Blasting OPEX

Area	LoM Cost - (\$ Millions)	LoM Quantity	Units	Unit Costs	Units
Variable Costs	\$26.1				
Drill Rig	\$3.5	51,433	Hours	\$68.75	\$/hr
Drill Consumables	\$1.0	1,285,819	Meters	\$0.75	\$/m
Explosive Consumables	\$21.4	70,291,431	Tonnes	\$0.31	\$/t
Shot Truck	\$0.2	5,000	Hours	\$31.12	\$/hr
Fixed Costs	\$4.5				
Lead Blaster	\$0.7	1		\$130,150	
Blasting Laborer	\$0.3	1	Employees	\$59,044	\$/yr
Drill Operator	\$3.6	8		\$89,050	

Area	LoM Cost - (\$ Millions)	LoM Quantity	Units	Unit Costs	Units
Variable Costs	\$4.37				
Dozer	\$2.61	40,000		\$65.15	\$/hr
Water Truck	\$1.12	20,000		\$56.08	
Grader	\$0.56	20,000	Hours	\$27.83	
Crane Truck	\$0.05	2,500		\$18.36	
Backhoe	\$0.04	2,500		\$15.22	
Fixed Costs	\$2.14				
Operators	\$1.55	4	Employees	\$77,566	\$/yr
Laborers	\$0.59	2	Employees	\$59,044	

Table 21-10: Mine Support OPEX

Table 21-11: Mine Maintenance OPEX

Area	LoM Cost - (\$ Millions)	LoM Quantity	Units	Unit Costs	Units	
Variable Costs	\$0.25					
Fuel Truck	\$0.12	1,000	Hours	\$24.63	\$/hr	
Service Truck	\$0.12	1,000	Hours	\$24.63	١١١ رد	
Fixed Costs	\$7.33					
Mechanics	\$6.15	14	Employees	\$87,910	¢ hun	
Laborers	\$1.18	4	Employees	\$59,044	\$/yr	

Table 21-12: Mine G&A OPEX

Area	LoM Cost - (\$ Millions)	LoM Quantity	Units	Unit Costs	Units
Variable Costs	-				
Fixed Cost	\$5.45				
Mine Manager	\$0.79	1		\$157,550	\$/yr
Mine Foreman	\$2.60	4		\$130,150	
Engineer	\$0.65	1	Employees	\$130,150	
Geologist	\$0.65	1		\$130,150	
Survey / Technician	\$0.75	2		\$150,700	

21.2.2 Process Operating Cost

Table 21-13 contains a breakdown of the LoM operating costs for the process area. Crushing plant costs consists of costs associated with operation of the crusher, conveying, and stacking costs and a wheel loader

to feed the crushing plant. Leach and process plant costs are costs associated with leach pad operations and operation of the ADR plant.

A	LoM Cost	Average Unit Cost
Area	(\$ Millions)	(\$/tonne processed)
Crushing Plant	\$28.7	\$2.30
Leach and Process Plant	\$24.7	\$1.98
Laboratory	\$3.06	\$0.25
Contingency (10%)	\$5.65	\$0.07
Total	\$62.2	\$4.59

Table 21-13: Process Operating Costs

The basis for the process operating costs is detailed in Table 21-14 through Table 21-16 and is similar in method to the mine operating costs.

Area	LoM Cost (\$ Millions)	LoM Quantity	Units	Unit Costs	Units
Variable Costs	\$18.1				
Wheel Loader	\$0.68	22,500	Hours	\$30.25	\$/hr
Crushing Plant	\$14.9	12,486,662	Tonnes	\$1.20	\$/t
Conveyor & Stacking	\$2.46	12,486,662	Processed	\$0.20	Ş/L
Fixed Costs	\$10.6				
Foreman	\$1.78	4		\$89,050	
Operator	\$5.00	12	Employees	\$83,408	¢hur
Mechanic/Electrician	\$3.52	8	Employees	\$87,910	\$/yr
Laborer	\$0.32	1		\$64,971	

Table 21-14: Crushing Plant OPEX

Area	LoM Cost (\$ Millions)	LoM Quantity	Units	Unit Costs	Units	
Variable Costs	\$19.8					
Dozer	\$0.40	15,000	Hours	\$26.7	\$/hr	
ADR Plant	\$1.35	12,486,662	Tonnes	\$0.10	\$/t	
Lime/Cyanide	\$18.0	12,486,662	Processed	\$1.44	-γ/t	
Fixed Costs	\$4.97					
Process Manager	\$0.95	1		\$157,550		
Plant Operator	\$2.08	6	Employaas	\$64,971	¢hur	
Plant Mechanic	\$0.10	2	Employees	\$87,910	\$/yr	
Laborer	\$0.32	1		\$64,971		

Table 21-15: Leach and Process OPEX

Table 21-16: Laboratory OPEX

Area	LoM Cost (\$ Millions)	LoM Quantity	Units	Unit Costs	Units
Variable Costs					
Supply - Total Cost	\$1.07	12,486,662	12,486,662 Tonnes Processed		\$/t
Fixed Costs	\$1.99				
Lab Manager	\$0.78	1	Employees	\$130,150	\$/yr
Technician	\$1.21	3	Employees	\$75,350	الا /د

21.2.3 Site G&A Costs

Site G&A costs include salaried employees that perform general and administrative tasks that involve both the mine and process areas such as a general manager, accountant, safety and environmental engineers, clerks and technicians, as well as annual costs such as computers, supplies, insurance & security. Table 21-17 details the buildup of the site G&A costs.

Area	LoM Cost (\$ Millions)	LoM Quantity	Units	Unit Costs	Units
Variable Costs	\$4.24				
General	\$3.95	12,486,662	Tonnes Processed	\$0.30	\$/t
Light Trucks	\$0.30	27,000	hours	\$10.95	\$/hr
Fixed Costs	\$3.99				
General Manager	\$0.95	1		\$157,550	
Accountant	\$0.78	1		\$130,150	
Safety / Environmental			Employees		\$/yr
Engineer	\$1.43	2		\$130,150	
Warehouse/AP Clerk	\$0.83	2		\$75,350	

Table 21-17: Site G&A OPEX

22 Economic Analysis

The information for the PEA is based on mine plans derived from a subset of the mineral resource declared in Section 14.12.

The economic analysis of the Tonopah project relies on the mining schedule, capital and operating cost, and recovery parameters discussed in the previous sections of this report. This is a PEA level economic analysis, which includes inferred resource in the model. The preliminary economic assessment is preliminary in nature, as it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the preliminary economic assessment will be realized. The positive economic outcome presented here does not delineate a mineral reserve. The economic parameters used are believed to be reasonable but additional information may change these assumptions and impact the analysis. All figures are in constant 2020 US dollars.

22.1 Model Parameters

The economic model is prepared on an after-tax basis. Model parameters are summarized in Table 22-1:

Parameter	Value
Project Funding	100% Equity
Working Capital	25% of operating costs
Discount Rate	5%
Contingency Operating Costs	10%
Contingency Capital Costs	20% (except mobile equipment)
Gold Price	\$1,400/oz

Table 22-1: Economic Model Parameters

The model spans 2 years of pre-production, 5 years of mine production and 1-year post-mine production. One of the primary inputs to the model is the mine schedule presented in Table 16-4, which provides the grade and tonnage of the mineralized material mined. Income is based on the quantity of recovered metal, the metal price above and refining terms of 99.9% payable metal and a shipping and refining charge of \$1.50/Au oz. The refining charges are based on a refining contract for a similar property located in the western United States.

22.2 Taxes, Royalties, Depreciation and Depletion

The study assumes a royalty of 1% on the net smelter return and that the operator exercises the option to buy out an additional 1% royalty with an upfront payment of \$1 million dollars.

A Federal tax rate of 21% is assessed to net income, and a Nevada net proceeds tax ranging between 0% and 5% is based on a sliding scale that considers the net proceeds as a percentage of gross revenue,

consistent with current Nevada Tax law. Nevada Sales and Use tax is included in capital and operating cost estimations.

Depreciation for mobile equipment is based on the 7 year Modified Accelerated Cost Recovery System (MACRS) as allowed by the Internal Revenue Service. All other capital costs such as mine development capital, process plant and heap leach capital are depreciated based on a units of production depletion model.

Depletion for federal tax purposes is calculated by the percentage depletion method. For this property the depletion percentage is 15% of the gross revenue less royalties, not to exceed 50% of the taxable income.

The complete DCF model is included Table 22-2.

Table 22-2 Discounted Cash Flow Model

	Units	-2	-1	1	2	3	4	5	6	TOTAL
Mine Production										
Total Mineralized Material	Tonnes			2,464,006	2,623,797	1,993,654	2,537,706	2,867,499	-	12,486,662
grade										
Total Waste	Tonnes			14,583,901	12,786,011	11,498,832	10,539,812	8,396,212	-	57,804,768
Total	Tonnes			17,047,907	15,409,808	13,492,486	13,077,518	11,263,712	-	70,291,431
										-
Total Mined Recoverable Gold	g			1,545,714	1,502,629	1,504,695	1,138,609	1,340,082	-	7,031,728
Leach Pad Inventory	g			386,429	375,657	376,174	284,652	335,021	-	
Sold Metal	g			1,159,286	1,513,400	1,504,178	1,230,130	1,289,714	335,021	7,031,728
Total Project Income		-	-	51,551,856	67,298,847	66,888,771	54,702,223	57,351,820	14,897,908	312,691,424
Mad of Drive Av				4 400	1 100	4 400	4 400	4 400	1 100	
Market Price Au	oz			1,400	1,400	1,400	1,400	1,400	1,400	
Payable Gold	%			99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	
Shipping & Refining Charges	\$/oz			1.5	1.5	1.5	1.5	1.5	1.5	
Realized Price	\$/oz			1,399	1,399	1,399	1,399	1,399	1,399	
Realized Price	\$/g			45.0	45.0	45.0	45.0	45.0	45.0	
Refiner Receipts	\$		-	52,072,581	67,978,634	67,564,415	55,254,771	57,931,131	15,048,392	315,849,924
Royalty	1%			520,726	679.786	675.644	552,548	579,311	150,484	3,158,499
Net Income	\$	-		51,551,856	67,298,847	66,888,771	54,702,223	57,351,820	14,897,908	312,691,424
Net income	φ	-	-	51,551,650	07,290,047	00,000,771	34,702,223	57,551,620	14,097,900	512,051,424
Total Project Operating Costs	\$	-	-	35,480,280	34,733,534	31,637,023	33,268,746	33,474,905	1,783,093	170,377,581
Contingency	10%	-	-	3,225,480	3,157,594	2,876,093	3,024,431	3,043,173	162,099	15,488,871
Contingency	1070			0,220,100	0,101,001	2,010,000	0,021,101	0,010,110	.02,000	10, 100,01
Mining Cost - Total	\$	-	-	19,745,373	18.530.413	17,829,533	17,487,623	16,568,584	-	90,161,526
Load Haul - Total Cost	\$	-	-	8,614,270	8,003,809	8,010,467	7,821,691	7,571,990		40,022,227
Drill / Blasting - Total Cost	\$		-	7,223,804	6,619,305	5,911,766	5,758,633	5,089,294	-	30,602,803
Mine Support - Total Cost	\$	-	-	1,301,970	1,301,970	1,301,970	1,301,970	1,301,970	-	6,509,848
Mine Maintenance - Total Cost	\$	-	-	1,516,180	1,516,180	1,516,180	1,516,180	1,516,180	-	7,580,898
Mine G & A - Total Cost	\$	-	-	1,089,150	1,089,150	1,089,150	1,089,150	1,089,150	-	5,445,750
	÷			.,,	.,,	.,	.,,	.,		-,,
Process Cost - Total Cost	\$	-	-	11,016,795	11,504,957	9,579,870	11,241,949	12,249,468	905,902	56,498,942
Crushing Plant - Total Cost	\$	-	-	7,093,616	7,413,198	6,152,912	7,241,016	7,900,603	-	35,801,345
Leach/Process Plant - Total Cost	\$	-	-	3,320,579	3,473,179	2,871,393	3,390,962	3,705,915	625,402	17,387,430
Laboratory - Total Cost	\$	-	-	602,601	618,580	555,565	609,971	642,950	280,500	3,310,166
Site G&A - Total		-	-	1,492,632	1,540,570	1,351,527	1,514,742	1,613,680	715,092	8,228,243

		Years								
	Units	-2	-1	1	2	3	4	5	6	TOTAL
Total Project Capital Costs		2,400,000	55,498,581	6,542,510	10,388,510	6,542,510	6,542,510	1,260,000	(16,565,020)	72,609,602
Mining - Subtotal		600,000	11,580,398	4,980,398	4,980,398	4,980,398	4,980,398	-	(6,293,774)	25,808,214
		000,000	11,300,330	4,300,330	4,300,330	4,300,330	4,300,330		(0,233,114)	25,000,21-
Mining - Expenditures		600,000	6,600,000	-	-	-	-	-	-	7,200,000
Contingency	20%	100,000	1,100,000	-	-	-	-	-	-	1,200,000
Exploration			500,000							500,000
Dewatering & Infiltration System			1,500,000							1,500,000
1300m2 Fully Equipped Shop			1,500,000							1,500,000
Office / Warehouse			500,000							500,000
Road Relocation		500,000								500,000
Power Supply			800,000							800,000
Water Supply			200,000							200,000
Access Roads, Site Civil			500,000							500,000
Mining - Capitalized Leasing			4,980,398	4,980,398	4,980,398	4,980,398	4,980,398		(6,293,774)	18,608,214
winning - Capitanzed Leasing			4,900,390	4,900,390	4,900,390	4,900,390	4,900,390	-	(0,293,774)	10,000,214
777 Truck		-	2,756,262	2,756,262	2,756,262	2,756,262	2,756,262		(3,483,113)	10,298,196
992 Loader		-	722,160	722,160	722,160	722,160	722,160		(912,600)	2,698,199
Drill Rig (6" - 9")		-	464,904	464,904	464,904	464,904	464,904		(587,504)	1,737,018
D9		-	631,334	631,334	631,334	631,334	631,334		(797,823)	2,358,849
775 Water Truck		-	148,154	148,154	148,154	148,154	148,154		(187,223)	553,546
14M		-	72,877	72,877	72,877	72,877	72,877		(92,095)	272,290
Crane Truck		-	33,330	33,330	33,330	33,330	33,330		(42,120)	124,532
ANFO Loader		-	20,832	20,832	20,832	20,832	20,832		(26,325)	77,833
Backhoe - 1 m3			33,330	33,330	33,330	33,330	33,330		(42,120)	124,532
Fuel /Lube Truck Class 8		-	41,663	41,663	41,663	41,663	41,663		(52,650)	155,665
Light Trucks		-	55,551	55,551	55,551	55,551	55,551		(70,200)	207,554
Process - Subtotal		-	30,548,113	302,113	4,148,113	302,113	302,113	-	(6,101,176)	29,501,388
Process - Expenditures		-	30,246,000	-	3,846,000	-	-	-	(5,719,393)	28,372,607
Contingency	20%	-	5,041,000	-	641,000	-	-	-	(953,232)	4,728,768
										-
Crushing Plant			8,100,000						(2,430,000)	5,670,000
Leach Pad Construction			3,005,000		3,205,000					6,210,000
Process Plant			9,800,000						(1,871,460)	7,928,540
Conveyor and Stacking System			3,700,000						(284,701)	3,415,299
Laboratory			600,000						(180,000.0)	420,000
Process - Leased Equipment		-	302,113	302,113	302,113	302,113	302,113	-	(381,783)	- 1,128,781
966 Loader		-	141,627	141,627	141,627	141,627	141,627		(178,975)	
D6		-	160,486	160,486	160,486	160,486	160,486		(202,808)	

	Units	-2	2	-1		1		2		3	4	5		6	TOTAL
Other - Expenditures		1	,800,000	13,370,07	D	1,260,000		1,260,000		1,260,000	1,260,000	1,260,000		(4,170,070)	17,300,000
Contingency	20%		300,000	750,00	С	210,000		210,000		210,000	210,000	210,000		1,200,000	
Environmental Bonding				2,500,00	0	50,000		50,000		50,000	50,000	50,000		(2,500,000)	250,000
Feasibility, Permitting		1	,500,000												1,500,000
Royalty Purchase Option				1,000,00	0										1,000,000
First Fills				250,00	0										250,000
Sustaining Capital						1,000,000		1,000,000		1,000,000	1,000,000	1,000,000			5,000,000
Working Capital				8,870,07	0									(8,870,070)	-
Mine Closure and Reclamation														6,000,000	6,000,000
Before Tax Revenue and Cashflow															
Operating Cash Flow		\$	-	\$-	\$	16,071,575		32,565,314		35,251,748	21,433,477	23,876,915		13,114,814	142,313,843
Operating Cash Flow Less Capital			2,400,000)			9,529,065		22,176,803		28,709,238	14,890,966	22,616,915		29,679,835	\$ 69,704,241
Cumulative Cash Flow		\$ (2	2,400,000)	\$ (57,898,58	1) \$	(48,369,516)	\$	(26,192,713)	\$	2,516,525	\$ 17,407,491	\$ 40,024,406	\$	69,704,241	\$ -
Pre-tax NPV @ 5% per annum		\$ 43	3,620,119	(End of year disc	ountir	iq)			-				-		
Pre-tax NPV @ 10% per annum			5.941.624			0/									
Pre-tax NPV @ 15% per annum		\$ 13	3,809,585												
IRR		25													
After Tax Cash Flow															
After Tax Cash Flow (ATCF)			2,400,000)			9,225,582		20,444,179		25,742,852	13,568,979	20,775,514		28,201,841	
Cumulative ATCF		\$ (2	2,400,000)	\$ (57,898,58	1) \$	(48,672,999)	\$	(28,228,820)	\$	(2,485,967)	\$ 11,083,012	\$ 31,858,526	\$	60,060,368	
Post Tax NPV @ 5% per annum		\$ 36	6.312.784	(End of year disc	ountin	a)	-		-				-		
Post Tax NPV @ 10% per annum			0.307.664	(direction ()		3/									
Post Tax NPV @ 15% per annum		+	9,397,648		-		-		<u> </u>						
IRR		22			-		-						-		

22.3 Project Economics – Base Case

The results of the economic analysis are provided in Table 22-3.

(USD million)	Base Case
Gold Price (\$/oz)	\$1,400
Pre-Tax Economics	
IRR	25%
Cash Flow (Undiscounted)	\$69.7
NPV 5% Discount Rate	\$43.6
NPV 10% Discount Rate	\$25.9
Payback (Years)	2.9
After-Tax Results	
IRR	22%
Cash Flow (Undiscounted)	\$60.1
NPV 5% Discount Rate	\$36.3
NPV 10% Discount Rate	\$20.3

Table 22-3	PEA	Economic	Results
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Table 22-4: Project Details

	Base Case
Gold Price (\$/oz)	\$1,400
Gold Ounces Sold	226,000
Initial Capital ⁽¹⁾	\$58 M
Sustaining Capital	\$16 M
Avg Cash Cost of Production	\$754
All in Sustaining Cost (AISC)	\$1,075
Project Life (Years)	6
Total Processed Tonnes (M)	12.5
Average Au Grade (g/t)	0.78
Total Waste Tonnes (M)	57.8
Strip Ratio	4.6
Personnel Employed	135
Average Operating Costs	
Mining Cost (\$/t mined)	\$1.28
Process Cost (\$/t crushed)	\$4.52
Gen & Admin Cost	\$0.66
Offsite marketing and Refining	
(\$/oz)	\$1.50

(1) \$1.0 million is included in capital cost to exercise Viva's Option to acquire 1% of the 2% NSR on the project

The PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the preliminary economic assessment will be realized.

22.4 Sensitivity Analysis

Sensitivity analysis was performed on the parameters, capital cost, operating cost, and metal price on a before-tax basis. Figure 22-1 and Figure 22-2 show the sensitivity of NPV and IRR. The figures below indicate that the project is most sensitive to changes in metal prices.

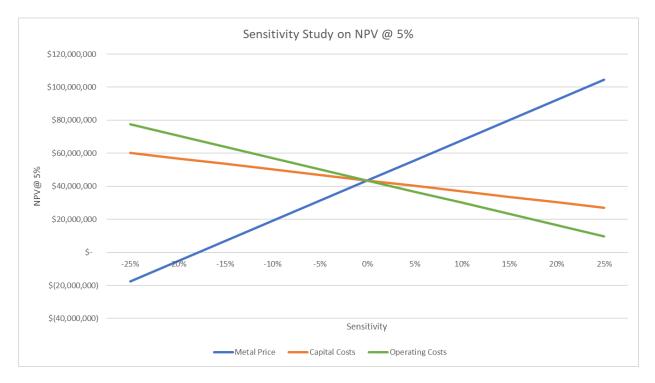


Figure 22-1: Sensitivity Study on NPV

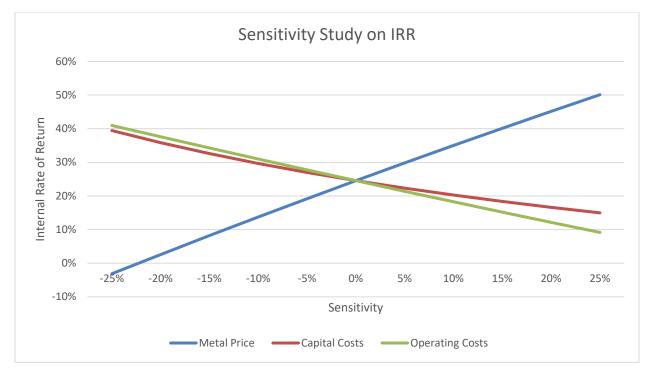


Figure 22-2: IRR Sensitivity

A chart of gold price sensitivities for the PEA is presented in Table 22-5:

	Base Case - P	re-Tax (US\$N	1M)	
	Undiscounted			
IRR%	Cash Flow	NDV 5%	NPV 10%	

Price	IRR%	Cash Flow	NPV 5%	NPV 10%	Payback
\$1,100	1%	\$2.6	(\$8.7)	(\$15.6)	n/a
\$1,200	9%	\$25.0	\$8.7	(\$1.7)	5.1
\$1,300	17%	\$47.3	\$26.1	\$12.1	4.1
\$1,400	25%	\$69.7	\$43.6	\$25.9	2.9
\$1 <i>,</i> 500	32%	\$92.1	\$61.1	\$39.8	2.5
\$1,600	39%	\$114.4	\$78.5	\$53.6	2.2
\$1,700	47%	\$136.8	\$96.0	\$67.4	2.0

There are no mineral reserves for the Tonopah project.

Gold

23 Adjacent Properties

There are no discovered deposits immediately adjacent to the Tonopah property, although there are a number along the Walker Lane trend.

The Round Mountain Mine is located 30 miles north of the Tonopah property. Round Mountain has been in production, from both historic underground and current open pit operations, since 1906. The Round Mountain deposit is of the low sulfidation, volcanic hosted epithermal gold deposit type. The Round Mountain mine has produced over 15 million ounces since Kinross Gold's acquisition of the property

The historic mining district of Tonopah lies 20 miles southwest of the Tonopah property. The Manhattan gold deposit, which hosts gold mineralization within a sedimentary sequence of rocks similar to those at the Tonopah property, is located 20 miles to the north. Underground mining was conducted at Manhattan from 1905 to 1947. Large scale, open pit mining operations were active at Manhattan from 1979 to 1988. Manhattan reportedly has proven and probable reserves of 1.7 million tons grading 0.13 oz. Au/ton (4.457 g Au/t) (Goodall, 2001).

The qualified person has been unable to verify the information and that information is not necessarily indicative of the mineralization on the property that is the subject of the technical report.

24 Other Relevant Data & Information

The Qualified Persons are not aware of any other relevant data concerning the Tonopah Project.

25 Interpretation & Conclusions

25.1 Interpretation & Conclusions

Viva has continued drilling to upgrade mineral resources on the Tonopah project, building on a significant database of technical information, drill data, geologic interpretation, and preliminary metallurgical data. The data are of industry standard quality and can be used for resource estimation for the project.

Additional drilling around the main mineralized areas has identified certain refinements in the depositional model which could not be seen in prior drill information. This has allowed a reinterpretation of the estimation parameters, which has increased the overall resource as well as increasing the amount of measured and indicated. Further drilling should be targeted at extending mineralization along the direction of continuity of the overall zone at about 110° azimuth. Additional interpretation in the NNW trending structures and structural intersection zones should be valuable to increase the confidence in the estimate of high-grade resources.

The Tonopah project contains a significant gold resource with good continuity at relatively low cutoff grades, and with significant contribution from higher-grade zones. The resource as reported is contained within a pit shell and appears amenable to open pit mining methods. Metallurgical test work to date shows that the deposit is amenable to cyanide leaching. Initial Column leach test work provides preliminary recovery projections for the Tonopah project.

The PEA indicates that at the gold prices considered, the project shows potential to be developed as a mining operation. The economic portion of the deposit shows potential to continue expanding to the ESE as well as towards Midway Hills to the WNW.

25.2 Risks and Uncertainties

The Tonopah project is subject to risks and uncertainties typical of gold projects, particularly risk in commodity prices and the precious metals equity markets. Lower metals prices or lack of precious metals equity market interest or activity could render the project uneconomic or reduce access to project financing.

Specific risks to the project exploration and subsequent mine development center primarily around water use and non-degradation of waters, cultural resources mitigation, and public road relocation, as discussed in Section 4, Section 24, and Section 24. Each of these risks appears to be manageable; however, there is potential to increase the operating or capital cost for the project, or delay or stop development activities.

The existing exploration data appear to be of high quality, but errors or omissions in the database could potentially reduce the reliability of resource estimates prepared using this information, which could negatively impact the project.

Metallurgical data appears to be of reasonable quality, but it is still preliminary. The changes in the depositional model reflected in this Mineral Resource Estimate may change the classification of material types and the representativeness of metallurgical samples. Further test work will be needed to develop the project.

26 Recommendations

The QPs recommend that ongoing digital database additions/upgrades continue so that the complete database includes all assay data, including gold, silver, and trace element geochemistry, all available primary observational data on lithology and alteration, and appropriate and available metadata about drilling, sampling, and survey. This will improve the reliability and verifiability of the assay database, as well as making alteration and trace element geochemistry available for geological and geometallurgical modeling efforts.

The QPs recommends that additional specific gravity determinations be made, especially in the more distal parts of the deposit. Previous work has focused on the high-grade areas around the Dauntless and Discovery faults. Geometallurgical modeling and metallurgical testing is also recommended to support cost and recovery assumptions for further studies. Historical data with regard to cyanide shake assay should be reviewed as to aid in understanding of possible recovery differences by lithology and alteration type.

An existing inventory of oriented core from various areas on the project, some from peripheral (near-pitwall) areas, and some from the center of the deposit was reviewed in a 2020 Geotechnical Prefeasibility Study (Call & Nicolas 2020) and utilized to produce an initial geotechnical evaluation of pit slope angles approximately confirming slopes used in this study. Insufficient data existing in some quadrants of the pit was available to draw definitive conclusions concerning pit slopes angles int hose quadrants, driving a recommendation for additional drilling, particularly in the west pit area. The QPs recommend that additional oriented core be drilled as part of ongoing drilling operations in various pit sectors, but primarily in the west pit area where only limited oriented core data exists.

It is recommended that Viva continue advancing the Tonopah Project by completing a Pre-Feasibility Study to establish reserves and to clarify the economic potential of the project.

The QPs recommend that exploration be focused on two areas: First, there are areas of inferred mineralization within the PEA pits which should be targeted to confirm grades and to potentially improve classification to measured and indicated. Second, the western section of the resource area has potential for expansion to the west, which would have the potential to expand the resource and to reduce stripping in the western portion of the pit. Exploration drilling should be targeted to step out from both the eastern and western extents of the estimated.

26.1.1 Specific Work Plan:

A proposed drilling program is recommended in two segments consisting of approximately 2,500 meters of RC drilling each. The focus of the exploration will be the eastern and western extension of the main zone, the southern extent of the Dauntless zone and the western extent of the south pit trend. The work plan for the first phase of drilling is scheduled for submittal in the first quarter of 2022. Samples from these RC holes could also provide additional fresh material for metallurgical samples.

Metallurgical test work should be completed with the objective of providing information for cost and recovery assumptions to be incorporated into future studies, as well as to refine process design criteria.

A part of the specific work plan includes long-lead baseline work for environmental monitoring, and biological studies, in support of the development efforts.

Complete a Pre-Feasibly Study (PFS) with the intention to clarity the economic potential of the project and to potentially declare Mineral Reserves.

The proposed work plan, including completion of a PFS, metallurgical and exploration drilling, metallurgical test program and ongoing environmental test work, is estimated to cost approximately \$2.37 million.

Category	Estimated Cost	Notes
Exploration	\$1,600,000	
RC Drilling - Phase 1	\$800,000	12 - 14 holes, 2,500 meters drilling, work plan submitted
RC Drilling - Phase 2	\$800,000	2,500 meters drilling
Metallurgical	\$115,000	
Test work - Phase 1	\$65,000	Bottle Roll, Column Leach, CIL test work
Test work - Phase 2	\$50,000	
Environmental	\$255,500	
Hydrology Studies	\$102,000	
Biologic Studies	\$49,500	
Humidity Cell Testing	\$57,000	
Raptor Surveys	\$17,000	
General Consulting	\$30,000	
Engineering/Studies	\$300,000	
Pre-Feasibility Study	\$350,000	
Plan of Operations	\$50,000	
Total	\$2,370,500	

Table 26-1: Project Budget

27 References (Item 27)

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28 Glossary

28.1 Mineral Resources

The mineral resources and mineral reserves have been classified according to the "CIM Definition Standards for Mineral Resources and Mineral Reserves" (May 10, 2014). Accordingly, the Resources have been classified as Measured, Indicated or Inferred, any Reserves have been classified as Proven, and Probable based on the Measured and Indicated Resources as defined below.

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.

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 Reserve. It is reasonably expected that the majority of Inferred Mineral Resources could be upgraded to Indicated Mineral Resources with continued exploration.

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.

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.

28.2 Mineral Reserves

Modifying Factors are considerations used to convert Mineral Resources to Mineral Reserves. These include, but are not restricted to, mining, processing, metallurgical, infrastructure, economic, marketing, legal, environmental, social and governmental factors.

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.

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. The Qualified Person(s) may elect, to convert Measured Mineral Resources to Probable Mineral Reserves if the confidence in the Modifying Factors is lower than that applied to a Proven Mineral Reserve.

Probable Mineral Reserve estimates must be demonstrated to be economic, at the time of reporting, by at least a Pre-Feasibility Study.

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. Application of the Proven Mineral Reserve category implies that the Qualified Person has the highest degree of confidence in the estimate with the consequent expectation in the minds of the readers of the report. The term should be restricted to that part of the deposit where production planning is taking place and for which any variation in the estimate would not significantly affect the potential economic viability of the deposit.

Proven Mineral Reserve estimates must be demonstrated to be economic, at the time of reporting, by at least a Pre-Feasibility Study. Within the CIM Definition standards the term Proved Mineral Reserve is an equivalent term to a Proven Mineral Reserve.

28.3 Other Terms

"2020 PEA" means the technical report titled "*NI 43-101 Technical Report Preliminary Economic Assessment for the Tonopah Project, Nye County, Nevada*" prepared for the Company by Gustavson Associates with an effective date of April 29, 2020, and a report and SEDAR filing date of June 12, 2020, authored by Thomas C. Matthews, MMSA-QP, Christopher Emanuel, P.E., SME-RM, Sarah Milne, P.E., SME-RM, and Deepak Malhotra, PhD, SME-RM, each of whom is a Qualified Person and is independent of the Company; together with contributing authors Donald E. Hulse, Amanda Irons, Todd W. Lewis, and James Hesketh.

"**NI 43-101**" National Instrument 43-101 - *Standards of Disclosure for Mineral Projects*, a regulatory instrument of the Canadian Securities Administrators and adopted by Canadian provincial and territorial securities commissions as the principal regulation governing disclosures of scientific or technical information made by an issuer, including disclosure of mineral resources or mineral reserves, concerning a mineral project material to the issuer

"Qualified Person" or "QP" means an individual who conforms to the definition of "qualified person" under NI 43-101, being an individual who, among other things: (a) is an engineer or geoscientist with at least five years' experience in mineral exploration, mine development or operation or mineral project assessment, or any combination of these; (b) has experience relevant to the subject matter of the mineral project and the technical report; and (c) is a member in good standing of a qualifying "professional association" (as defined under NI 43-101.

Term	Definition
Assay:	The chemical analysis of mineral samples to determine the metal content.
Crushing:	Initial process of reducing ore particle size to render it more amenable for further
	processing.
Cutoff Grade (CoG):	The grade of mineralized rock, which determines whether it is economic to
	recover its mineral content by further concentration.
Dilution:	Waste, which is unavoidably mined with ore.
Dip:	Angle of inclination of a geological feature/rock from the horizontal.
Fault:	The surface of a fracture along which movement has occurred.
Grade:	The measure of concentration of gold within mineralized rock.
Igneous:	Primary crystalline rock formed by the solidification of magma.
Lithological:	Geological description pertaining to different rock types.
LoM:	Life-of-Mine
Mineral/Mining Lease:	A lease area for which mineral rights are held.
Mining Assets:	The Material Properties and Significant Exploration Properties.
Ore Reserve:	See Mineral Reserve.
Sedimentary:	Pertaining to rocks formed by the accumulation of sediments, formed by the
	erosion of other rocks.
Stratigraphy:	The study of stratified rocks in terms of time and space.
Strike:	Direction of line formed by the intersection of strata surfaces with the horizontal
	plane, always perpendicular to the dip direction.
Sulfide:	A sulfur bearing mineral.

Appendix A- Certificate of Author Forms

DONALD E. HULSE

Principal Mining Engineer

Gustavson Associates, LLC

200 Union Boulevard, Suite 440 Lakewood, Colorado 80228 Telephone: (303) 985-4566 Email: dhulse@gustavson.com

CERTIFICATE of AUTHOR

- I, Donald E Hulse do hereby certify that:
 - 1. I am currently employed as VP Senior Mining Consultant by:

Gustavson Associates, LLC 200 Union Boulevard, Suite 440 Lakewood, CO, USA, 80228

- 2. I am a graduate of the Colorado School of Mines with a Bachelor of Science in Mining Engineering (1982) and have practiced my profession continuously since 1983.
- 3. I am a registered Professional Engineer, in good standing in the State of Colorado (35269), and a registered member in good standing of the Society of Mining Metallurgy & Exploration (1533190RM)
- 4. I have worked as a mining engineer for a total of 36 years since my graduation from university; as an employee of a major mining company, a major engineering company, and as a consulting engineer. I have estimated mineral resources in precious metals, base metals, and industrial minerals in a variety of geologic settings. I have planned and operated surface mines in the US, Chile and Mexico, including cost estimation, cutoff grade determination, and equipment productivities.
- 5. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- I am responsible for Sections 1 5, 14, and 24 26 of the Technical Report entitled "NI 43-101 Technical Report Preliminary Economic Assessment, Tonopah Project, Nye County NV," effective date January 1, 2022, (the "Technical Report"),
- 7. I previously worked on the property that is the subject of the Technical Report, as a contributing author of a technical report entitled "NI 43-101 Preliminary Economic Assessment, Tonopah Project, Nye County NV," with an effective date of April 29, 2020.
- 8. I am independent of the issuer applying all of the tests in section 1.5 of National Instrument 43-101.

- 9. I have read NI 43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.
- 10. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them for regulatory purposes, including electronic publication in the public company files on their websites accessible by the public, of the 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 the Technical Report not misleading.

Dated this 22nd day of April 2022

/s/ Donald E. Hulse

Signature of Qualified Person

Donald E. Hulse

Printed Name of Qualified Person

CHRISTOPHER EMANUEL

Senior Mining Engineer

Gustavson Associates, LLC 200 Union Boulevard, Suite 440 Lakewood, Colorado 80228 Telephone: (303) 985-4566 Facsimile: (303) 984-5969 Email: cemanuel@gustavson.com

CERTIFICATE of AUTHOR

I, Christopher Emanuel do hereby certify that:

1. I am currently employed as Senior Mining Engineer by:

Gustavson Associates, LLC 200 Union Boulevard, Suite 440 Lakewood, CO, USA, 80228

- 2. I graduated with a Bachelor's of Science degree in Mining Engineering from the Colorado School of Mines, Golden, CO.
- 3. I am a Registered Member of the Society of Mining Metallurgy & Exploration (4151007RM).
- 4. I have worked as a mining engineer for a total of 17 years since my graduation from university, as an employee of a mining company, underground mine contractor, safety trainer and as a consultant. My relevant experience includes mine design, capital and operating cost estimates, and financial modeling.
- 5. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- I am responsible for Sections 16, 18, and 21-22 of the technical report entitled "NI 43-101 Technical Report, Preliminary Economic Assessment, Tonopah Project, Nye County NV," with an effective date of January 1, 2022, (the "Technical Report"),
- 7. I previously worked on the property that is the subject of the Technical Report, as a Qualified Person of a technical report entitled "NI 43-101 Preliminary Economic Assessment, Tonopah Project, Nye County NV," with an effective date of April 29, 2020.
- 8. I am independent of the issuer applying all of the tests in section 1.5 of National Instrument 43-101.
- 9. I have read NI 43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.

- 10. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them for regulatory purposes, including electronic publication in the public company files on their websites accessible by the public, of the 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 the Technical Report not misleading.

Dated this 22nd day of April 2022

/s/ Christopher Emanuel

Signature of Qualified Person

Christopher Emanuel

Printed Name of Qualified Person

DEEPAK MALHOTRA, PH.D.

PRESIDENT

PRO SOLV CONSULTING LLC15450 W. ASBURY AVE.

LAKEWOOD, CO USA 80228

TELEPHONE: 720-261-2450

EMAIL: DMALHOTRA@AOL.COM

CERTIFICATE of AUTHOR

- I, Deepak Malhotra, PhD do hereby certify that:
- 1. I am President of:

Pro Solv Consulting LLC.

15450 W. Asbury Ave

Lakewood, CO USA 80228

- 2. I graduated with a degree in Master of Science from Colorado School of Mines in 1973. In addition, I have obtained a PhD in Mineral Economics from Colorado School of Mines in 1977.
- 3. I am a registered member of the Society of Mining, Metallurgy and Exploration, Inc. (SME), member No. 2006420RM.
- 4. I have worked as a mineral processing engineer and mineral economist for a total of 40 years since my graduation from university. I have experience in similar project types inclusive of those in the Western United States.
- 5. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- I am responsible for sections 13, 17 and portions of 25 & 26 of the technical report entitled "NI 43-101 Technical Report Preliminary Economic Assessment, Tonopah Project, Nye County NV," effective date January 1, 2022, (the "Technical Report")
- 7. I previously worked on the property that is the subject of the Technical Report, as a contributing author of a technical report entitled "NI 43-101 Technical Report on Exploration Results, Tonopah Project, Nye County NV," with an effective date of July 15, 2019 and "NI 43-101 Preliminary Economic Assessment, Tonopah Project, Nye County NV," with an effective date of April 29, 2020.

- 8. I am independent of the issuers applying all of the tests in section 1.5 of National Instrument 43-101.
- 9. I have read NI 43-101 and Form 43-101F1, and the PEA has been prepared in compliance with that instrument and form.
- 10. As of the effective date of this PEA, to the best of my knowledge, information and belief, the PEA contains all scientific and technical information that is required to be disclosed to make the PEA not misleading.
- 11. Dated this 22nd day of April 2022.

/s/ Deepak Malhotra

Signature of Qualified Person

Deepak Malhotra

Print name of Qualified Person

EDWARD G. BYRANT, CPG

8802 EAST VALLEYWAY AVENUE

SPOKANE VALLEY, WA 99212

CERTIFICATE of AUTHOR

- I, Edward Byrant do hereby certify that:
- 1. I am self-employed as a Professional Geologist:
- 2. I graduated with a Bachelor's of Science degree in Geology from the University of Arizona.
- 3. I am a CPG member of the American Institute of Professional Geologists (AIPG)
- 4. I have 35 years of experience in mineral exploration and mine development. With relevant experience with sediment and volcanic-hosted gold deposits,
- 5. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- I am responsible for Sections 6 through 12 of the technical report entitled "NI 43-101 Technical Report Preliminary Economic Assessment, Tonopah Project, Nye County NV," dated January 1, 2022, (the "Technical Report").
- 7. I previously worked on the property that is the subject of the Technical Report, as a contributing author of a technical report entitled "NI 43-101 Preliminary Economic Assessment, Tonopah Project, Nye County NV," with an effective date of April 29, 2020.
- 8. I am not independent of the issuers applying all of the tests in section 1.5 of National Instrument 43-101 in that I have been hired to perform geological work on the property.
- 9. I have read NI 43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.
- 10. As of the effective date of this Technical Report, 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 the Technical Report not misleading.
- 11. Dated this 22nd day of April 2022.

/s/ Edward G. Bryant

Signature of Qualified Person

Edward G. Bryant

Print name of Qualified Person

Appendix B- List of significant results from 2018-2019 Drilling Program

Tonopah Project
Drill Results for 2018-2019 Winter RC Drill Program

Hole	Azimuth	Dip	From	То	Length	Gold Grade
			Meter	Meter	Meter	Gram/Tonne
TG1906	200	-90	0	134.0		
			25.91	44.20	18.3	0.4
TG1905	210	-69	0	146.3		
			32.0	53.3	21.3	0.6
TG1904	270	-60	0	134.0		
			36.6	41.1	4.6	0.7
			126.5	131.1	4.6	2.4
	including		128.0	129.5	1.5	6.7
TG1903	275	-75	0	140.2		
			45.7	48.8	3.0	8.0
	including		47.2	48.8	1.5	15.4
			70.1	74.7	4.6	26.9
	including		70.1	71.6	1.5	50.3
			82.3	115.8	33.5	2.6
	including		82.3	83.8	1.5	14.1
	including		94.5	96.0	1.5	22.7
			118.9	128.0	9.1	0.6
			132.6	140.2	7.6	0.8
TG1902	0	-70	0	146.3		
			10.7	111.3	100.6	1.3

Hole	Azimuth	Dip	From	То	Length	Gold Grade
	including	•	41.15	47.24	6.10	3.3
	including		60.96	64.01	3.05	4.8
	including		83.82	91.44	7.62	4.1
TG1901	50	-70	0	65.5		
			38.1	53.3	15.2	0.4
TG1820	200	-60	0	119		
			35.1	41.1	6.1	0.3
TG 1819	200	-69	0	201		
			53.3	57.9	4.6	0.4
			62.5	65.5	3.0	1.9
			89.9	100.6	10.7	0.6
			_			
TG1818	100	-65	0	110	40.0	
			21.3	33.5	12.2	0.9
	. , ,,		71.63	74.68	3.0	46.1
	including		73.15	74.68	1.5	84.9
TG1817	58	-80	0	122		
101017	50	-80	112.8	118.9	6.1	1.0
			143.3	189.0	45.7	2.2
	Including		143.5 163.1	176.8	43.7	5.1
	Including		172.21	173.74	1.5	13.4
	mendamig		±/	1, 3.7 4	1.5	13.7
TG1816	105	-60	0	164		
			88.4	96.0	7.6	0.3
			108.2	112.8	4.6	6.1
	Including		108.2	109.7	1.5	16.4

0.25 gram/tonne used throughout

Drill Results for 2018 RC Drill Program Depth Uncapped Capped*												
Uala												
Hole		From	То	Length	Gold Grade	Gold Grade						
		Meter	Meter	Meter	Gram/Tonne	Gram/Tonne						
TO 4044		22	64	20	1.22	4.22						
TG 1814		32	61	29	1.32	1.32						
	in also alter a											
	including	47.2	48.8	1.5	4.76	4.76						
	Including	53.3	57.9	4.6	4.05	4.05						
TG 1813		129.5	140.2	10.7	0.45	0.45						
10 1015		129.5	140.2	10.7	0.45	0.45						
TG 1811		77.7	83.8	6.1	0.49	0.49						
10 1011		//./	05.0	0.1	0.45	0.45						
and		103.6	118.9	15.2	0.41	0.41						
and		105.0	110.5	13.2	0.11	0.11						
TG 1809		51.8	56.4	4.6	0.28	0.28						
		0 _ 1.0			0.20	0.20						
and		68.6	76.2	7.6	0.87	0.87						
			-	-								
and		86.9	97.5	10.7	2.57	2.57						
	Including	89.9	91.4	1.5	12.90	12.90						
	-											
TG1815		68.6	82.3	13.7	1.64	1.64						
	including	77.7	79.2	1.52	8.79	8.79						
TG1812		89.9	100.6	10.7	3.07	3.07						
	including	89.9	91.4	1.5	19.2	19.20						
and		112.8	120.4	7.6	0.37	0.37						
TG 1810		91.4	106.7	15.3	1.21	1.21						
	including	96	97.5	1.5	5.68	5.68						
and		121.9	125	3.1	0.35	0.35						
and		129.5	132.6	3.1	0.57	0.57						
		_										
TG 1808		54.9	57.9	3.0	0.5	0.5						
				- .								
and		64.0	73.2	9.1	25.4	5.8						
	including	65.5	67.1	1.5	138.0	20.0						

Tonopah Project Drill Results for 2018 RC Drill Program

		De	pth		Uncapped	Capped*
Hole		From	То	Length	Gold Grade	Gold Grade
	including	70.1	71.6	1.5	8.9	8.9
and		83.8	89.9	6.1	0.4	0.4
and		97.5	102.1	4.6	5.5	5.5
	Including	99.1	100.6	1.5	14.9	14.9
and and		108.2	120.4	12.2	1.2	1.2
and	TD	123.4	125.0	1.5	0.6	0.6
All zones		54.9	125.0	70.1	3.9	1.4
TG 1807		10.7	19.8	9.1	0.3	0.3
and		35.1	74.7	39.6	2.0	2.0
	Including	59.4	68.6	9.1	4.5	4.5
and		80.8	83.8	3.0	0.4	0.4
and	TD	93.0	94.5	1.5	0.4	0.4
All zones		10.7	94.5	83.8	1.0	1.0
TG 1806		21.3	29.0	7.6	0.3	0.3
and	TD	71.6	74.7	3.0	0.7	0.7
TG 1805		38.1	39.6	1.5	0.5	0.5

* Capped at 20 grams/tonne

0.25 gram/tonne used throughout

Appendix C- List of significant results from 2020-2021 Drilling Program

Tonopah Project Drill Results for 2020-2021 PQ Core Drill Program											
11-1-	0 - ith						Cilcum Curada	Deals True			
Hole	Azimuth	Dip	From Meter	To Meter	Length Meter	Gold Grade Gram/Tonne	Silver Grade Gram/Tonne	коск тур			
			Wieter	Wieter	Wieter	Gruiny ronne	Granny ronnie				
TGM2001	200	-75	0.0	107.6							
Starter Pit A	rea										
Discovery Zo	one		11.5	14.8	3.3	0.67	7.85				
			27.9	86.9	59.1	1.31	5.56	TV into			
	including		44.3	47.6	3.3	3.01	5.70	ΟΡΑ			
	including		62.3	68.9	6.6	2.04	45.20				
	including		78.7	86.9	8.2	3.45	4.74				
			98.4	101.7	3.3	0.31	1.95	ΟΡΑ			
TGM 2002	30.0	-75	0.0	112.2							
Central Pit											
			49.2	87	37.7	3.35	14.85				
	including		54.1	62.3	8.2	6.30	34.00	OPA			
	including		67.3	70.5	3.3	8.71	20.65				
		05		150.0							
TGM 2003 N West Pit	270.0	-85	0.0	150.0							
			103.3	108.3	4.9	0.44	1.17	τν			
			136.2	137.8	1.6	0.263	1.70	тν			
			149.3	150.9	1.6	0.664	4.60	тν			
	Drillhole failed a	t 150 mete	ers vs 250 me	ter target. Did	not reach main	n pay zone at TV/OP	A contact				
TGM 2004		-90	0.0	162.6							
East Pit											
			64.0	78.7	14.8	0.51	1.46	τν			
			85.3	98.4	13.1	0.33	0.81	τv			
			101.7	105.0	3.3	0.26	1.00	τv			
			119.8	126.3	6.6	1.01	0.73	τv			
			159.1	160.8	1.6	0.33	0.30	τv			
FGM 2005	90	-80	0.0	100.1							
Central -We	st Pit Transitio	on									
			37.7	41.0	3	0.25	4.15	тν			
			55.8	82.0	26	2.83	6.80	тν			
	including		72.2	77.1	4.9	8.81	16.03				
			86.9	100.1	13.1	1.94	4.39	ΟΡΑ			
	including		93.5	98.4	4.9	4.13	5.47				
	Volcanic ician Palmettc ı/tonne cutoff {										

			-	-	20 Progra		
Hole	Azimuth	Dip	From	То	Length	Gold Grade	Location
			Meter	Meter	Meter	Gram/Tonne	
FG2011	n/a	-90	0	268			North Pit
			197	203	6.1	1.5	
	including		200	201	1.5	3.2	
		00		450			Cauth Dit
TG2010	n/a	-90	0	150			South Pit
			34	37	3.1	0.4	
TG2009	50.0	-75	0	150			South Pit
			139	140	1.5	0.4	
TG2008	45.0	-70	0	180		NSI	South Pit
	Announced on Octo						
TG 2004	170	-70	0	171			North Pit
			100	107	6.6	1.0	
			116	146	29.5	0.7	
	including		120	125	4.9	1.2	
	including		141	144	3.3	2.0	
TG2007	250	-80	0	61			South Pit
			40	56	16.8	0.6	
	including		40	43	3.0	2.2	
TG 2005	90	-75	0	115	NSI		North Pit
TG 2006	70	-80	0	180	NSI		South Pit
First A	nnounced on Septe	mber 9, 2	.020				
TG 2001	225	-85	0	249			North Pit
			123	134	11.5	0.5	
			146	148	1.5	0.8	
			200	203	3.3	0.8	
TG2002	295	-80	0	262			North Pit
			143	146	3.3	0.3	
			197	198	1.6	0.8	
			202	203	1.6	0.3	
			212	216	4.9	2.4	
			231	241	9.8	2.7	
	including		233	235	1.6	7.1	
	including		235	235	1.6	4.0	
TG 2003	115	-85	0	230			North Pit
			156	157	1.6	0.5	

		Dril	l Resu	lts Fal	1 2021	Drill Progra	m	
	Azimuth	Dip	From	То	Length	Gold Grade	Silver Grade	Rock Type
			Meter	Meter	Meter	Gram/Tonne	Gram/Tonne	
TG2103	225	-60	0	181				
			79	87	7.6	0.4	0.4	Tv
			111	116	4.6	0.3	1.2	Tv
			122	134	12.2	5.7	4.1	Tv
	including		125	128	3.0	19.2	9.0	Tv
			151	174	22.9	2.0	2.7	Tv/Opa
	including		160	165	4.6	7.7	5.3	Opa
TG2102	180	-70	0	207				
			69	70	1.5	0.5	1.6	Tv
			137	139	1.5	1.7	4.3	Tv
			171	175	4.6	0.5	0.6	Tv
TG2101	110	-60	0	204				
			26	29	3.0	0.2	10.9	Tv
			125	<i>14</i> 8	22.9	1.5	8.3	Tv
	including		125	137	12.2	2.7	9.4	Tv
	which includes		125	130	4.6	6.2	6.8	Tv
	including		140	148	7.6	0.3	7.0	Tv

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
TH-01	500927	4222833	1920	91.4	0	-90	RC	1980	Felmont
TH-10	501548	4224661	1920	103.6	0	-90	RC	1980	Felmont
TH-11	500842	4224881	1920	91.4	0	-90	RC	1980	Felmont
TH-12	500123	4225114	1920	91.4	0	-90	RC	1980	Felmont
TH-13	500010	4224390	1920	91.4	0	-90	RC	1980	Felmont
TH-14	499755	4225627	1920	109.7	0	-90	RC	1980	Felmont
TH-15	500954	4225437	1920	91.4	0	-90	RC	1980	Felmont
TH-16	501127	4225821	1920	85.3	0	-90	RC	1980	Felmont
TH-17	500387	4225980	1920	91.4	0	-90	RC	1980	Felmont
TH-18	500763	4226117	1920	91.4	0	-90	RC	1980	Felmont
TH-19	500122	4226462	1920	91.4	0	-90	RC	1980	Felmont
TH-20	499995	4227255	1920	91.4	0	-90	RC	1980	Felmont
TH-21	500447	4225586	1920	73.2	0	-90	RC	1980	Felmont
TH-22	500018	4226155	1920	91.4	0	-90	RC	1980	Felmont
TH-23	499559	4227955	1920	91.4	0	-90	RC	1980	Felmont
TH-24	498694	4228529	1920	91.4	0	-90	RC	1980	Felmont
TH-25	498609	4228146	1920	91.4	0	-90	RC	1980	Felmont
TH-26	499121	4227746	1920	91.4	0	-90	RC	1980	Felmont
TH-27	499573	4227373	1920	91.4	0	-90	RC	1980	Felmont
TH-03	501362	4222449	1920	91.4	0	-90	RC	1981	Felmont
TH-04	500943	4222622	1920	91.4	0	-90	RC	1981	Felmont
TH-05	500657	4222815	1920	91.4	0	-90	RC	1981	Felmont
TH-06	501441	4223114	1920	85.3	0	-90	RC	1981	Felmont
TH-07	501437	4223484	1920	97.5	0	-90	RC	1981	Felmont
TH-08	501206	4223939	1920	91.4	0	-90	RC	1981	Felmont
TH-09	502012	4224066	1920	91.4	0	-90	RC	1981	Felmont
TH-29	499260	4226418	1920	91.4	0	-90	RC	1981	Felmont
TH-30	499560	4227402	1920	99.1	0	-90	RC	1981	Felmont
TH-31	499583	4227329	1920	93.0	0	-90	RC	1981	Felmont
TH-32	499458	4228205	1920	99.1	0	-90	RC	1981	Felmont
TH-33	499607	4227389	1920	93.0	0	-90	RC	1981	Felmont
TH-34	499405	4229577	1920	111.3	0	-90	RC	1981	Felmont
TH-35	499446	4228044	1920	93.0	0	-90	RC	1981	Felmont
TH-36	499554	4227317	1920	111.3	0	-90	RC	1981	Felmont
TH-37	499550	4227426	1920	93.0	0	-90	RC	1981	Felmont
TH-38	499592	4227411	1920	93.0	0	-90	RC	1981	Felmont
TH-39	499609	4227349	1920	93.0	0	-90	RC	1981	Felmont

Appendix D- List of Drill holes

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
TH-40	499629	4227397	1920	99.1	0	-90	RC	1981	Felmont
TH-41	499623	4227325	1920	93.0	0	-90	RC	1981	Felmont
TH-42	500184	4226897	1920	61.0	0	-90	RC	1981	Felmont
TH-43	500168	4226616	1920	109.7	0	-90	RC	1981	Felmont
TH-44	500342	4226429	1920	91.4	0	-90	RC	1981	Felmont
TH-45	500221	4226967	1920	97.5	0	-90	RC	1981	Felmont
TH-46	500153	4226903	1920	109.7	0	-90	RC	1981	Felmont
TH-47	500127	4226840	1920	109.7	0	-90	RC	1981	Felmont
TH-48	500067	4226821	1920	109.7	0	-90	RC	1981	Felmont
TH-49	500025	4226784	1920	109.7	0	-90	RC	1981	Felmont
TH-50	499738	4227056	1920	109.7	0	-90	RC	1981	Felmont
TH-51	499871	4227118	1920	109.7	0	-90	RC	1981	Felmont
TH-52	499666	4227219	1920	109.7	0	-90	RC	1981	Felmont
TH-53	499764	4227264	1920	109.7	0	-90	RC	1981	Felmont
TH-54	499683	4227427	1920	99.1	0	-90	RC	1981	Felmont
TH-55	499740	4227458	1920	111.3	0	-90	RC	1981	Felmont
TH-56	499522	4227483	1920	93.0	0	-90	RC	1981	Felmont
TH-57	500554	4225904	1920	91.4	0	-90	RC	1981	Felmont
TH-58	500918	4225677	1920	79.2	0	-90	RC	1981	Felmont
TH-59	501267	4225582	1920	109.7	0	-90	RC	1981	Felmont
TH-60	501322	4225647	1920	74.7	0	-90	RC	1981	Felmont
TH-61	500541	4225754	1920	64.0	0	-90	RC	1981	Felmont
TH-62	499993	4225732	1920	115.8	0	-90	RC	1981	Felmont
TH-64	501089	4222988	1920	166.1	0	-90	RC	1981	Felmont
TH-65	501050	4222863	1920	121.9	0	-90	RC	1981	Felmont
TH-66	500929	4222894	1920	121.9	0	-90	RC	1981	Felmont
TH-67	500874	4222910	1920	121.9	0	-90	RC	1981	Felmont
TH-68	500805	4222924	1920	121.9	0	-90	RC	1981	Felmont
TH-69	500796	4222864	1920	109.7	0	-90	RC	1981	Felmont
TH-70	500779	4222802	1920	91.4	0	-90	RC	1981	Felmont
TH-71	500864	4222690	1920	91.4	0	-90	RC	1981	Felmont
TH-72	500840	4222614	1920	91.4	0	-90	RC	1981	Felmont
TH-73	500758	4222640	1920	91.4	0	-90	RC	1981	Felmont
TH-74	500400	4224769	1920	105.2	0	-90	RC	1981	Felmont
TH-75	502095	4222243	1920	86.9	0	-90	RC	1981	Felmont
TH-76	500746	4223066	1920	150.9	0	-90	RC	1981	Felmont
TH-77	500853	4223041	1920	170.7	0	-90	RC	1981	Felmont
TH-78	500971	4223010	1920	152.4	0	-90	RC	1981	Felmont
TH-79	500698	4222952	1920	152.4	0	-90	RC	1981	Felmont
TH-80	500673	4222875	1920	91.4	0	-90	RC	1981	Felmont
TH-82	500415	4222886	1920	97.5	0	-90	RC	1981	Felmont

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
TH-83	501019	4222748	1920	134.1	0	-90	RC	1981	Felmont
TH-84	500509	4223123	1920	128.0	0	-90	RC	1981	Felmont
TH-85	502029	4222301	1920	88.4	0	-90	RC	1981	Felmont
TH-86	501931	4222259	1920	91.4	0	-90	RC	1981	Felmont
TH-87	502047	4222145	1920	91.4	0	-90	RC	1981	Felmont
TH-88	500687	4226068	1920	91.4	0	-90	RC	1981	Felmont
TH-89	500183	4225137	1920	91.4	0	-90	RC	1981	Felmont
TH-90	500069	4225081	1920	91.4	0	-90	RC	1981	Felmont
TH-91	500640	4226064	1920	91.4	0	-90	RC	1981	Felmont
TH-92	500201	4225744	1920	91.4	0	-90	RC	1981	Felmont
TH-93	500981	4225629	1920	91.4	0	-90	RC	1981	Felmont
TH-94	500977	4225760	1920	91.4	0	-90	RC	1981	Felmont
TH-95	500651	4226031	1920	91.4	0	-90	RC	1981	Felmont
TH-96	500946	4225894	1920	91.4	0	-90	RC	1981	Felmont
SP-88-01	491606	4235678	1785	109.7	360	-90	RC	1988	Coeur d'Alene
SP-88-02	492032	4235499	1792	96.0	360	-90	RC	1988	Coeur d'Alene
SP-88-03	492072	4235720	1789	121.9	360	-90	RC	1988	Coeur d'Alene
MW-M-01	492012	4235020	1817	117.3	360	-90	RC	1990	Rio Algom
MW-M-02	492184	4234973	1804	106.7	360	-90	RC	1990	Rio Algom
MW-M-03	491880	4234873	1835	121.9	90	-60	RC	1990	Rio Algom
MW-M-04	491820	4235038	1823	91.4	270	-60	RC	1990	Rio Algom
MW-M-05	491797	4235247	1804	114.3	360	-90	RC	1990	Rio Algom
MW-M-06	492070	4235207	1811	106.7	360	-90	RC	1990	Rio Algom
MW-M-07	492282	4234478	1798	61.0	360	-90	RC	1990	Rio Algom
MW-M-08	491884	4234365	1811	121.9	360	-90	RC	1990	Rio Algom
MW-M-09	491784	4235405	1801	135.6	360	-90	RC	1990	Rio Algom
MW-M-10	491634	4235403	1811	163.1	360	-90	RC	1990	Rio Algom
MW-M-11	491787	4235572	1798	144.8	360	-90	RC	1990	Rio Algom
MW-M-12	491881	4235313	1801	123.4	360	-90	RC	1990	Rio Algom
MW-M-13	491892	4235487	1795	182.9	360	-90	RC	1990	Rio Algom
MW-M-14	491669	4235535	1801	169.2	360	-90	RC	1990	Rio Algom
MW-M-15	491960	4235366	1798	140.2	360	-90	RC	1990	Rio Algom
MW-M-16	491672	4235256	1817	166.1	360	-90	RC	1990	Rio Algom
MW-M-17	491680	4235104	1829	152.4	360	-90	RC	1990	Rio Algom
MW-M-18	491887	4235172	1811	150.9	360	-90	RC	1990	Rio Algom
MW-M-19	492002	4235279	1798	152.4	360	-90	RC	1990	Rio Algom
MW-M-20	492082	4235369	1798	152.4	360	-90	RC	1990	Rio Algom
MW-M-21	491681	4235041	1832	182.9	360	-90	RC	1990	Rio Algom
MW-M-22	491614	4235105	1829	182.9	360	-90	RC	1990	Rio Algom
MW-M-23	491679	4235104	1829	213.4	360	-90	RC	1990	Rio Algom

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
MW-M-24	491682	4235166	1823	178.3	360	-90	RC	1990	Rio Algom
MW-M-25	491734	4235167	1817	182.9	360	-90	RC	1990	Rio Algom
MW-M-26	491557	4235170	1835	199.6	360	-90	RC	1990	Rio Algom
MW-M-27	491557	4235041	1841	182.9	360	-90	RC	1990	Rio Algom
MW-M-28	491558	4234915	1850	152.4	360	-90	RC	1990	Rio Algom
MW-M-29	491433	4234981	1850	182.9	360	-90	RC	1990	Rio Algom
MW-M-30	491678	4235213	1817	163.1	360	-90	RC	1990	Rio Algom
MW-M-31	491618	4235161	1829	181.4	360	-90	RC	1990	Rio Algom
MW-M-32	492420	4234964	1798	121.9	360	-90	RC	1990	Rio Algom
MW-M-33	491457	4235346	1823	152.4	360	-90	RC	1991	Rio Algom
MW-M-34	491379	4234823	1856	152.4	360	-90	RC	1991	Rio Algom
MW-M-35	490918	4234797	1893	152.4	360	-90	RC	1991	Rio Algom
MW-M-36	492353	4235427	1783	123.4	360	-90	RC	1991	Rio Algom
MW-M-37	492752	4235207	1783	105.2	360	-90	RC	1991	Rio Algom
MW-M-38	490353	4237280	1832	152.4	360	-90	RC	1991	Rio Algom
MW-M-39	488555	4238621	1861	152.4	360	-90	RC	1991	Rio Algom
MW-M-40	487976	4238804	1872	91.4	360	-90	RC	1991	Rio Algom
MW-M-41	489287	4238895	1849	146.3	360	-90	RC	1991	Rio Algom
MW-001	490860	4236487	1815	170.7	360	-90	RC	1992	Kennecott
MW-002	491120	4235836	1823	152.4	360	-90	RC	1992	Kennecott
MW-003	491218	4235197	1853	231.6	360	-70	RC	1992	Kennecott
MW-004	489550	4236962	1847	167.6	360	-90	RC	1992	Kennecott
MW-005	489795	4237756	1841	152.4	360	-90	RC	1992	Kennecott
MW-006	492964	4233792	1817	106.7	360	-90	RC	1992	Kennecott
MW-007	493349	4233509	1783	88.4	360	-90	RC	1992	Kennecott
MW-008	493452	4237316	1780	125.0	360	-90	RC	1992	Kennecott
MW-009	493004	4235527	1779	170.7	360	-90	RC	1992	Kennecott
MW-010	489230	4238183	1860	152.4	360	-90	RC	1992	Kennecott
MW-011	493354	4234671	1774	121.9	360	-90	RC	1993	Kennecott
MW-012	493461	4234526	1769	152.4	360	-90	RC	1993	Kennecott
MW-013	493487	4234341	1771	128.0	360	-90	RC	1993	Kennecott
MW-014	493275	4234476	1776	152.4	360	-90	RC	1993	Kennecott
MW-015	493670	4234901	1769	213.4	360	-90	RC	1993	Kennecott
MW-016	493533	4234560	1772	121.9	360	-90	RC	1993	Kennecott
MW-017	493783	4234645	1771	182.9	360	-90	RC	1993	Kennecott
MW-018	493643	4234551	1772	152.4	360	-90	RC	1993	Kennecott
MW-019	493447	4234552	1773	103.6	360	-90	RC	1993	Kennecott
MW-020	493473	4234494	1772	61.0	360	-90	RC	1993	Kennecott
MW-021	493437	4234502	1772	45.7	360	-90	RC	1993	Kennecott
MW-022	493487	4234593	1772	97.5	360	-90	RC	1993	Kennecott
MW-023D	493458	4234540	1772	121.0	360	-90	DDH	1993	Kennecott

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
MW-024	493448	4234613	1772	150.9	360	-90	RC	1993	Kennecott
MW-025	493440	4234669	1773	126.5	360	-90	RC	1993	Kennecott
MW-026	493486	4234456	1771	106.7	360	-90	RC	1993	Kennecott
MW-027	493424	4234583	1773	137.2	360	-90	RC	1993	Kennecott
MW-028	493404	4234624	1773	193.5	360	-90	RC	1993	Kennecott
MW-029	493558	4234551	1771	150.9	360	-90	RC	1993	Kennecott
MW-030	493592	4234345	1771	120.4	360	-90	RC	1993	Kennecott
MW-031	493602	4234496	1771	150.9	360	-90	RC	1993	Kennecott
MW-032	493602	4234605	1771	150.9	360	-90	RC	1993	Kennecott
MW-033	493558	4234586	1771	144.8	292	-60	RC	1993	Kennecott
MW-034	493512	4234487	1772	150.9	360	-90	RC	1993	Kennecott
MW-035	493512	4234417	1771	120.4	360	-90	RC	1993	Kennecott
MW-036	493401	4234565	1774	150.9	360	-90	RC	1993	Kennecott
MW-037	493380	4234837	1773	135.6	360	-90	RC	1993	Kennecott
MW-038	493591	4234673	1771	150.9	275	-60	RC	1993	Kennecott
MW-039	493650	4234420	1771	150.9	275	-60	RC	1993	Kennecott
MW-040	493475	4234548	1772	76.2	240	-45	RC	1994	Kennecott
MW-041	493474	4234547	1772	61.0	240	-64	RC	1994	Kennecott
MW-042	493469	4234557	1772	76.2	240	-45	RC	1994	Kennecott
MW-043	493445	4234524	1773	61.0	35	-65	RC	1994	Kennecott
MW-044	493478	4234501	1772	106.7	325	-65	RC	1994	Kennecott
MW-045	493453	4234584	1772	76.2	242	-65	RC	1994	Kennecott
MW-046	493456	4234584	1772	85.3	360	-90	RC	1994	Kennecott
MW-047	493475	4234562	1772	76.2	240	-65	RC	1994	Kennecott
MW-048	493453	4234561	1773	76.2	158	-65	RC	1994	Kennecott
MW-049	493453	4234560	1773	54.9	175	-65	RC	1994	Kennecott
MW-050	493442	4234535	1773	48.8	360	-90	RC	1994	Kennecott
MW-051	493505	4234737	1772	106.7	260	-90	RC	1994	Kennecott
MW-052	493676	4234513	1771	121.9	360	-90	RC	1994	Kennecott
MW-053	493712	4234571	1771	152.4	360	-90	RC	1994	Kennecott
MW-054	493523	4234875	1772	152.4	360	-90	RC	1994	Kennecott
MW-055	493395	4235384	1774	173.7	360	-90	RC	1994	Kennecott
MW-056	493289	4234732	1774	225.6	360	-90	RC	1994	Kennecott
MW-057	493533	4234103	1772	135.6	360	-90	RC	1994	Kennecott
MW-058	493613	4234461	1771	167.6	360	-90	RC	1994	Kennecott
MW-059	493668	4234281	1771	152.4	360	-90	RC	1994	Kennecott
MW-060	492109	4235665	1788	243.8	360	-90	RC	1994	Kennecott
MW-061	493874	4234297	1771	137.2	360	-90	RC	1994	Kennecott
MW-062	494057	4234089	1771	128.0	360	-90	RC	1994	Kennecott
MW-063	493949	4234469	1771	190.5	360	-90	RC	1994	Kennecott
MW-064	492348	4235946	1789	304.8	360	-90	RC	1994	Kennecott

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
MW-065	494032	4234653	1772	192.0	360	-90	RC	1994	Kennecott
MW-066	494984	4234303	1773	243.8	360	-90	RC	1994	Kennecott
MW-067	495141	4233451	1770	181.4	360	-90	RC	1994	Kennecott
MW-068	493944	4234315	1771	121.9	360	-90	RC	1994	Kennecott
MW-069	494433	4235813	1782	54.9	360	-90	RC	1994	Kennecott
MW-070	494829	4237248	1788	230.1	360	-90	RC	1994	Kennecott
MW-071	491597	4238095	1821	207.3	360	-90	RC	1994	Kennecott
MW-072	494458	4235792	1782	225.6	360	-90	RC	1994	Kennecott
MW-073	494990	4231739	1762	103.6	360	-90	RC	1994	Kennecott
MW-074	493479	4236180	1777	243.8	360	-90	RC	1994	Kennecott
MW-075	491980	4236645	1798	225.6	360	-90	RC	1994	Kennecott
MW-076	489856	4237541	1847	219.5	360	-90	RC	1994	Kennecott
MW-077	494003	4234433	1771	167.6	225	-60	RC	1994	Kennecott
MW-078	493905	4234513	1770	137.2	225	-60	RC	1994	Kennecott
MW-079	494174	4234362	1772	198.1	225	-60	RC	1994	Kennecott
MW-080	494400	4234406	1773	161.5	225	-60	RC	1994	Kennecott
MW-081	494322	4234082	1770	167.6	225	-60	RC	1994	Kennecott
MW-082	494029	4233701	1769	149.4	220	-60	RC	1994	Kennecott
MW-083	494389	4233778	1770	166.1	225	-60	RC	1994	Kennecott
MW-084	494626	4233840	1770	97.5	225	-60	RC	1994	Kennecott
MW-085	494620	4233523	1768	182.9	225	-60	RC	1994	Kennecott
MW-086	493933	4234664	1772	237.7	225	-60	RC	1994	Kennecott
MWRC-1	493889	4232098	1759	117.3	360	-90	RC	1994	Bob Warren
MWRC-2	493737	4232098	1759	97.5	360	-90	RC	1994	Bob Warren
MWRC-3	494041	4232098	1759	146.3	360	-90	RC	1994	Bob Warren
MW-087D	493449	4234551	1771	125.8	360	-90	DDH	1995	Kennecott
MW-088	493402	4234624	1773	54.9	360	-90	RC	1995	Kennecott
MW-089	493942	4234465	1771	139.4	360	-90	RC	1995	Kennecott
MW-089D	493942	4234465	1771	139.4	360	-90	DDH	1995	Kennecott
MW-090D	494005	4234429	1772	167.2	225	-60	DDH	1995	Kennecott
MW-091	494053	4234394	1771	173.7	225	-60	RC	1995	Kennecott
MW-092	493990	4234356	1770	160.0	225	-60	RC	1995	Kennecott
MW-093	493961	4234415	1770	167.6	225	-60	RC	1995	Kennecott
MW-094	494051	4234481	1772	93.0	225	-60	RC	1995	Kennecott
MW-095	493953	4234532	1771	205.7	225	-60	RC	1995	Kennecott
MW-096	493874	4234566	1770	205.7	225	-60	RC	1995	Kennecott
MW-097	494005	4234542	1771	205.7	225	-60	RC	1995	Kennecott
MW-098	494120	4234452	1771	141.7	225	-60	RC	1995	Kennecott
MW-099	494059	4234476	1771	86.9	225	-60	RC	1995	Kennecott
MW-100	494307	4234499	1773	202.7	225	-60	RC	1995	Kennecott

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
MW-101	494170	4234524	1773	196.6	225	-60	RC	1995	Kennecott
MW-102	494046	4234581	1772	141.7	225	-60	RC	1995	Kennecott
MW-103	493806	4234471	1772	196.6	225	-60	RC	1995	Kennecott
MW-104	493889	4234393	1771	187.5	225	-60	RC	1995	Kennecott
MW-105	492403	4234912	1805	213.4	360	-90	RC	1995	Kennecott
MW-106	492459	4234731	1795	201.2	360	-90	RC	1995	Kennecott
MW-107	492586	4234851	1788	201.2	360	-90	RC	1995	Kennecott
MW-108	492776	4234772	1785	195.1	360	-90	RC	1995	Kennecott
MW-109	492661	4234629	1788	152.4	360	-90	RC	1995	Kennecott
MW-110	492548	4234543	1790	121.9	360	-90	RC	1995	Kennecott
MW-111	492842	4234476	1786	152.4	360	-90	RC	1995	Kennecott
MW-112	492784	4234273	1789	115.8	360	-90	RC	1995	Kennecott
MW-113	493064	4234235	1782	121.9	360	-90	RC	1995	Kennecott
MW-114	493408	4234479	1773	198.1	360	-90	RC	1995	Kennecott
MW-115	493355	4234477	1775	182.9	360	-90	RC	1995	Kennecott
MW-116	493421	4234407	1774	152.4	360	-90	RC	1995	Kennecott
MW-117	493481	4234235	1771	121.9	360	-90	RC	1995	Kennecott
MW-118	493293	4234350	1777	137.2	360	-90	RC	1995	Kennecott
MW-119	493120	4234472	1780	167.6	360	-90	RC	1995	Kennecott
MW-120	493288	4234571	1775	195.1	360	-90	RC	1995	Kennecott
MW-121	493172	4234677	1777	192.0	360	-90	RC	1995	Kennecott
MW-122	493039	4234650	1779	192.0	360	-90	RC	1995	Kennecott
MW-123	494252	4233976	1770	97.5	360	-90	RC	1995	Kennecott
MW-124	494118	4234318	1770	198.1	360	-90	RC	1995	Kennecott
MW-125	494129	4234218	1770	152.4	360	-90	RC	1995	Kennecott
MW-126	493991	4234176	1771	106.7	360	-90	RC	1995	Kennecott
MW-127	493901	4233979	1771	106.7	360	-90	RC	1995	Kennecott
MW-128	494417	4234243	1771	189.0	360	-90	RC	1996	Kennecott
MW-129	493072	4234772	1779	231.6	360	-90	RC	1996	Kennecott
MW-130	492933	4234734	1782	189.0	360	-90	RC	1996	Kennecott
MW-131	492880	4234882	1782	201.2	360	-90	RC	1996	Kennecott
MW-132	492851	4235086	1779	243.8	360	-90	RC	1996	Kennecott
MW-133	493002	4234955	1779	237.7	360	-90	RC	1996	Kennecott
MW-134	494253	4233655	1769	170.7	360	-90	RC	1996	Kennecott
MW-135	494363	4233338	1768	167.6	360	-90	RC	1996	Kennecott
MW-136	494431	4233943	1769	170.7	360	-90	RC	1996	Kennecott
TMW-001	491953	4233417	1826	121.9	110	-75	RC	1997	Tombstone
TMW-002	492066	4233152	1815	152.4	110	-60	RC	1997	Tombstone
TMW-003	492133	4232885	1807	182.9	110	-60	RC	1997	Tombstone
TMW-004	492214	4232591	1800	182.9	110	-60	RC	1997	Tombstone
TMW-005	493214	4234809	1774	85.3	135	-75	RC	1997	Tombstone

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
TMW-006	493291	4234621	1777	182.9	135	-75	RC	1997	Tombstone
TMW-007	493566	4234827	1772	152.4	225	-75	RC	1997	Tombstone
TMW-008	493450	4234391	1774	103.6	90	-75	RC	1997	Tombstone
TMW-009	493369	4234333	1774	152.4	360	-90	RC	1997	Tombstone
TMW-010	493313	4234161	1774	152.4	360	-90	RC	1997	Tombstone
TMW-011	494023	4234144	1771	134.1	360	-90	RC	1997	Tombstone
TMW-012	493945	4234042	1769	91.4	360	-90	RC	1997	Tombstone
TMW-013	493115	4234900	1775	144.8	135	-75	RC	1997	Tombstone
TMW-014	494276	4234048	1770	140.2	285	-60	RC	1997	Tombstone
TMT-01	499477	4227397	1908	61.0	360	-90	RC	1998	Golconda
TMT-02	499489	4227379	1908	67.1	360	-90	RC	1998	Golconda
TMT-03	499458	4227386	1908	79.2	100	-60	RC	1998	Golconda
TMT-04	499484	4227359	1907	48.8	10	-60	RC	1998	Golconda
TMT-05	499669	4227236	1908	61.0	325	-60	RC	1998	Golconda
TMT-06	499663	4226954	1923	45.7	285	-60	RC	1998	Golconda
TMT-07	500189	4226877	1939	45.7	32	-60	RC	1998	Golconda
TMT-08	499127	4227959	1902	61.0	215	-60	RC	1998	Golconda
TMT-09	499101	4227901	1896	45.7	65	-60	RC	1998	Golconda
MW-201D	493465	4234545	1773	76.8	360	-90	RC	2002	Midway
MW-202	493189	4234700	1776	208.8	360	-90	RC	2002	Midway
MW-203D	493469	4234537	1772	69.2	360	-90	DDH	2002	Midway
MW-204D	493467	4234539	1772	75.3	230	-65	DDH	2002	Midway
MW-205	493156	4234652	1778	164.6	360	-90	RC	2002	Midway
MW-206D	493473	4234531	1772	60.0	360	-90	DDH	2002	Midway
MW-207	493147	4234693	1777	190.5	360	-90	RC	2002	Midway
MW-208D	493476	4234526	1772	68.6	235	-75	DDH	2002	Midway
MW-209D	493451	4234537	1773	76.8	360	-90	DDH	2002	Midway
MW-210D	493459	4234550	1772	46.9	360	-90	DDH	2002	Midway
MW-211D	493455	4234556	1772	75.3	360	-90	DDH	2002	Midway
MW-212	493199	4234660	1776	176.8	360	-90	RC	2002	Midway
MW-213D	493445	4234568	1773	75.3	360	-90	DDH	2002	Midway
MW-214	493306	4234594	1774	189.0	360	-90	RC	2002	Midway
MW-215D	493448	4234561	1773	75.3	230	-75	DDH	2002	Midway
MW-216	493271	4234547	1776	173.7	360	-90	RC	2002	Midway
MW-217	493264	4234589	1775	192.0	360	-90	RC	2002	Midway
MW-218D	493439	4234574	1773	75.3	360	-90	DDH	2002	Midway
MW-219	493312	4234553	1775	195.1	360	-90	RC	2002	Midway
MW-220D	493436	4234580	1773	75.3	360	-90	DDH	2002	Midway
MW-221	493458	4234548	1772	76.2	360	-90	RC	2002	Midway
MW-222D	493431	4234586	1773	97.2	360	-90	DDH	2002	Midway
MW-224D	493426	4234592	1773	105.5	360	-90	DDH	2002	Midway

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
MW-225D	493446	4234588	1773	81.1	360	-90	DDH	2002	Midway
MW-226D	493458	4234576	1772	84.4	360	-90	DDH	2002	Midway
MW-227	493400	4234574	1773	128.0	360	-90	RC	2002	Midway
MW-228D	493466	4234566	1772	84.1	360	-90	DDH	2002	Midway
MW-229	493471	4234391	1771	144.8	360	-90	RC	2002	Midway
MW-230	493418	4234353	1774	132.6	360	-90	RC	2002	Midway
MW-231D	493478	4234555	1772	63.2	360	-90	DDH	2002	Midway
MW-232	493381	4234403	1775	163.1	360	-90	RC	2002	Midway
MW-233	493433	4234436	1772	126.5	360	-90	RC	2002	Midway
MW-234D	493488	4234543	1772	78.9	360	-90	DDH	2002	Midway
MW-235	493347	4234451	1775	191.1	360	-90	RC	2002	Midway
MW-236D	493488	4234514	1774	102.7	360	-90	DDH	2002	Midway
MW-237	493362	4234536	1774	169.2	360	-90	RC	2002	Midway
MW-238	493320	4234489	1775	187.5	360	-90	RC	2002	Midway
MW-239D	493479	4234477	1774	63.1	360	-90	DDH	2002	Midway
MW-240D	493459	4234502	1774	105.8	360	-90	DDH	2002	Midway
MW-241	493324	4234619	1776	211.8	360	-90	RC	2002	Midway
MW-242D	493459	4234502	1774	102.7	60	-70	DDH	2002	Midway
MW-243	493293	4234605	1777	205.7	360	-90	RC	2002	Midway
MW-244D	493451	4234513	1775	105.8	360	-90	DDH	2002	Midway
MW-245D	493431	4234509	1774	34.7	360	-90	DDH	2002	Midway
MW-246D	493430	4234537	1774	105.8	360	-90	DDH	2002	Midway
MW-247D	493431	4234509	1774	106.4	50	-70	DDH	2002	Midway
MW-248D	493430	4234539	1774	106.1	60	-70	DDH	2002	Midway
MW-249D	493433	4234508	1774	97.8	360	-90	DDH	2002	Midway
MW-250D	493431	4234539	1775	97.8	50	-45	DDH	2002	Midway
MW-251D	493415	4234602	1775	106.4	360	-90	DDH	2002	Midway
MW-252D	493421	4234550	1775	72.5	360	-90	DDH	2002	Midway
MW-253D	493421	4234550	1775	106.1	60	-70	DDH	2002	Midway
MW-254D	493413	4234603	1775	176.5	230	-60	DDH	2002	Midway
MW-255D	493412	4234559	1775	90.8	360	-90	DDH	2002	Midway
MW-256D	493412	4234605	1775	61.6	330	-80	DDH	2002	Midway
MW-257D	493412	4234559	1775	160.6	240	-80	DDH	2002	Midway
MW-258D	493411	4234606	1775	105.5	320	-80	DDH	2002	Midway
MW-259D	493307	4234613	1777	198.7	360	-90	DDH	2002	Midway
MW-260D	493502	4234580	1774	104.2	250	-75	DDH	2002	Midway
MW-261D	493277	4234600	1777	192.9	360	-90	DDH	2002	Midway
MW-262D	493338	4234625	1776	207.3	360	-90	DDH	2002	Midway
MW-263D	493389	4234624	1775	143.6	240	-80	DDH	2002	Midway
MW-264D	493502	4234570	1774	82.9	250	-80	DDH	2002	Midway
MW-265D	493514	4234551	1774	85.6	240	-80	DDH	2002	Midway

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
MW-266D	493520	4234547	1774	78.9	250	-80	DDH	2002	Midway
MW-267D	493529	4234536	1774	96.3	250	-80	DDH	2002	Midway
MW-268D	493517	4234599	1774	138.1	240	-75	DDH	2002	Midway
MW-269D	493482	4234594	1774	107.6	245	-80	DDH	2002	Midway
MW-270D	493476	4234609	1774	150.3	245	-80	DDH	2002	Midway
MW-271D	493781	4234455	1771	132.3	360	-90	DDH	2002	Newmont
MW-272D	493777	4234457	1773	112.5	245	-45	DDH	2002	Newmont
MW-273D	493783	4234461	1772	185.6	60	-70	DDH	2002	Newmont
MW-274D	493952	4234455	1773	115.5	150	-60	DDH	2002	Newmont
MW-275D	493962	4234427	1772	139.0	360	-90	DDH	2002	Newmont
MW-276D	493962	4234427	1772	168.6	240	-60	DDH	2002	Newmont
MW-277D	493962	4234427	1772	161.5	360	-90	DDH	2002	Newmont
MW-278D	493960	4234505	1772	222.2	200	-70	DDH	2002	Newmont
MW-279D	493953	4234457	1772	226.8	123	-70	DDH	2002	Newmont
MW-280D	493541	4234605	1772	246.3	240	-55	DDH	2002	Newmont
MW-281D	493497	4234635	1773	200.3	250	-70	DDH	2002	Newmont
MW-282D	493454	4234652	1773	135.2	240	-75	DDH	2002	Newmont
MW-283D	493380	4234504	1775	290.5	55	-45	DDH	2002	Newmont
MW-284D	493381	4234503	1775	180.9	60	-80	DDH	2002	Newmont
MW-285D	493442	4234445	1772	208.2	60	-45	DDH	2002	Newmont
MW-286D	493441	4234446	1772	158.2	150	-75	DDH	2002	Newmont
MW-287D	493780	4234645	1772	189.9	240	-50	DDH	2003	Newmont
MW-288D	493776	4234651	1772	238.7	150	-60	DDH	2003	Newmont
MW-289D	493867	4234486	1772	191.4	180	-60	DDH	2003	Newmont
MW-290	493767	4234087	1770	97.5	360	-90	RC	2003	Newmont
MW-291	493612	4234273	1772	152.4	225	-60	RC	2003	Newmont
MW-292	493972	4234094	1771	166.1	270	-45	RC	2003	Newmont
MW-293	494168	4234098	1770	61.0	270	-60	RC	2003	Newmont
MW-294	494159	4234097	1771	182.9	270	-60	RC	2003	Newmont
MW-295	494295	4234331	1772	213.4	180	-60	RC	2003	Newmont
MW-296	494098	4233790	1771	128.0	360	-90	RC	2003	Newmont
MW-297	494274	4233781	1769	176.8	225	-60	RC	2003	Newmont
MW-298	494260	4233889	1770	157.0	270	-60	RC	2003	Newmont
MW-299D	493616	4234463	1771	150.0	270	-50	DDH	2003	Newmont
MW-300	494313	4233975	1770	152.4	300	-60	RC	2003	Newmont
MW-301	494312	4233970	1770	152.4	235	-60	RC	2003	Newmont
MW-302	494608	4234093	1771	182.9	360	-90	RC	2003	Newmont
MW-303D	494082	4234461	1771	210.9	360	-90	DDH	2003	Newmont
MW-304	494448	4234078	1770	213.4	270	-60	RC	2003	Newmont
MW-305	494519	4234274	1771	207.3	270	-80	RC	2003	Newmont
MW-306	493559	4234471	1771	103.6	180	-75	RC	2003	Newmont

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
MW-307D	493300	4234682	1774	269.4	240	-70	DDH	2003	Newmont
MW-308	493353	4234710	1774	243.8	240	-70	RC	2003	Newmont
MW-309	493353	4234712	1774	213.4	360	-90	RC	2003	Newmont
MW-310	493356	4234713	1774	213.4	60	-75	RC	2003	Newmont
MW-311D	493206	4234747	1775	216.3	150	-60	DDH	2003	Newmont
MW-312	493201	4234742	1775	243.8	240	-65	RC	2003	Newmont
MW-313	493398	4235015	1773	170.7	270	-70	RC	2003	Newmont
MW-314	492779	4234710	1785	164.6	270	-70	RC	2003	Newmont
MW-315	492597	4235014	1787	219.5	360	-90	RC	2003	Newmont
MW-316D	493483	4234518	1772	78.0	330	-52	DDH	2003	Newmont
MW-317	491935	4236270	1799	152.4	360	-90	RC	2003	Newmont
MW-318	491741	4236510	1803	158.5	360	-90	RC	2003	Newmont
MW-319	487323	4238316	1896	152.4	360	-90	RC	2003	Newmont
MW-320	487558	4238605	1877	182.9	360	-90	RC	2003	Newmont
MW-321	486988	4238519	1912	152.4	360	-90	RC	2003	Newmont
MW-322	486986	4238518	1911	152.4	190	-60	RC	2003	Newmont
MW-323	487013	4236108	1901	152.4	360	-90	RC	2003	Newmont
MW-324	486317	4237107	1927	152.4	360	-90	RC	2003	Newmont
MW-325	486325	4237631	1932	152.4	360	-90	RC	2003	Newmont
MW-326	497703	4239365	1799	152.4	360	-90	RC	2003	Newmont
MW-327	498355	4240078	1806	170.7	360	-90	RC	2003	Newmont
MW-328	494962	4231903	1766	152.4	360	-90	RC	2003	Newmont
MW-329	495731	4231743	1778	105.2	360	-90	RC	2003	Newmont
MW-330	496016	4231224	1785	182.9	360	-90	RC	2003	Newmont
MW-331	496345	4231472	1792	152.4	340	-60	RC	2003	Newmont
MW-332	496415	4231660	1795	91.4	270	-70	RC	2003	Newmont
MW-333	496526	4231790	1799	105.2	270	-70	RC	2003	Newmont
MW-334	496637	4231661	1801	91.4	270	-70	RC	2003	Newmont
MW-335	496545	4231538	1799	91.4	270	-70	RC	2003	Newmont
MW-336	495278	4231831	1768	91.4	360	-90	RC	2003	Newmont
MW-337	495269	4230011	1768	152.4	270	-70	RC	2003	Newmont
MW-338	495924	4229855	1786	152.4	270	-60	RC	2003	Newmont
MW-339	496621	4229271	1810	91.4	90	-60	RC	2003	Newmont
MW-340	497201	4228902	1826	91.4	270	-60	RC	2003	Newmont
MW-341	497445	4229333	1837	74.7	360	-90	RC	2003	Newmont
MW-342	497045	4229913	1819	91.4	270	-70	RC	2003	Newmont
MW-343	497999	4230872	1847	152.4	270	-70	RC	2003	Newmont
MW-344	496217	4227454	1804	152.4	270	-45	RC	2003	Newmont
MW-345	496017	4227452	1800	121.9	270	-45	RC	2003	Newmont
MW-346	496416	4227452	1811	152.4	270	-45	RC	2003	Newmont
MW-347	496613	4227452	1816	61.0	270	-45	RC	2003	Newmont

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
MW-348	496816	4227453	1822	61.0	270	-45	RC	2003	Newmont
MW-349	497215	4227300	1833	121.9	90	-60	RC	2003	Newmont
MW-350	497684	4226994	1846	182.9	45	-45	RC	2003	Newmont
MW-351	498756	4228625	1888	172.2	60	-45	RC	2003	Newmont
MW-352	498679	4228727	1894	152.4	60	-60	RC	2003	Newmont
MW-353	498588	4229057	1880	152.4	225	-50	RC	2003	Newmont
MW-354	498265	4229278	1867	196.6	220	-60	RC	2003	Newmont
MW-355	498441	4228913	1881	121.9	45	-45	RC	2003	Newmont
MW-356	500069	4227804	1947	152.4	270	-60	RC	2003	Newmont
MW-357	499509	4227162	1929	152.4	90	-45	RC	2003	Newmont
MW-358	499348	4227161	1917	152.4	270	-60	RC	2003	Newmont
MW-359	500168	4226781	1954	202.7	360	-50	RC	2003	Newmont
MW-360	499768	4225871	1956	152.4	90	-60	RC	2003	Newmont
MW-361	499561	4225741	1947	182.9	90	-60	RC	2003	Newmont
MW-362	499044	4225811	1910	152.4	90	-60	RC	2003	Newmont
MW-363	498787	4226364	1884	152.4	90	-60	RC	2003	Newmont
MW-364	498631	4227025	1875	152.4	230	-60	RC	2003	Newmont
MW-365	498360	4226874	1866	152.4	45	-60	RC	2003	Newmont
MW-366	497112	4226930	1840	121.9	270	-60	RC	2003	Newmont
MW-367	495728	4231744	1779	182.9	270	-45	RC	2003	Newmont
MW-368	493973	4234092	1770	207.3	245	-45	RC	2003	Newmont
MW-369	493971	4234096	1770	213.4	305	-45	RC	2003	Newmont
MW-370D	493605	4234524	1772	180.1	221.55	-52.47	DDH	2004	Newmont
MW-371D	493664	4234444	1772	169.2	230	-60	DDH	2004	Newmont
MW-372D	493610	4234530	1772	251.2	220.17	-59.27	DDH	2004	Newmont
MW-373D	493986	4234150	1771	193.5	270	-60	DDH	2004	Newmont
MW-374D	493895	4234148	1770	194.5	225.43	-60.58	DDH	2004	Newmont
MW-375D	493690	4234471	1772	223.4	230	-60	DDH	2004	Newmont
MW-376D	493926	4234179	1771	172.0	225	-60	DDH	2004	Newmont
MW-377D	493982	4234204	1771	245.7	219.12	-55.76	DDH	2004	Newmont
MW-378	493546	4234468	1772	91.4	225	-70	RC	2004	Newmont
MW-378A	493549	4234474	1772	22.9	225	-65	RC	2004	Newmont
MW-379	493637	4234415	1772	182.9	224.46	-59.18	RC	2004	Newmont
MW-380D	493237	4234515	1778	314.9	44.43	-58.27	DDH	2004	Newmont
MW-381D	493201	4234480	1778	365.2	41.15	-55.97	DDH	2004	Newmont
MW-382D	493194	4234542	1778	348.1	46.81	-56.18	DDH	2004	Newmont
MW-383D	493118	4234551	1780	349.9	44.74	-50.96	DDH	2004	Newmont
MW-384D	493121	4234550	1780	375.2	39.44	-55.84	DDH	2004	Newmont
MW-385	493442	4234383	1774	121.9	45	-60	RC	2004	Newmont
MW-386D	493407	4234407	1774	137.8	45	-60	DDH	2004	Newmont
MW-387D	493418	4234351	1774	152.0	45	-60	DDH	2004	Newmont

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
MW-388	493466	4234320	1773	121.9	41.66	-60.37	RC	2004	Newmont
MW-389	493886	4234242	1771	182.9	225.29	-55.01	RC	2004	Newmont
MW-390	493854	4234208	1771	182.9	226.49	-56.5	RC	2004	Newmont
MW-391	494442	4234078	1771	310.9	268.81	-45.01	RC	2004	Newmont
MW-392	492022	4235194	1814	169.2	270	-60	RC	2005	Midway
MW-393	492266	4235205	1800	201.2	270	-60	RC	2005	Midway
MW-394	493275	4234558	1776	182.9	90	-70	RC	2005	Midway
MW-395	493440	4234608	1773	24.4	270	-75	RC	2005	Midway
MW-396	493494	4234608	1772	10.7	270	-70	RC	2005	Midway
MW-397	493417	4234602	1775	54.9	45	-75	RC	2005	Midway
MW-398	493494	4234608	1774	137.2	265	-60	RC	2005	Midway
MW-399	493657	4234496	1773	121.9	240	-70	RC	2005	Midway
MW-400	493657	4234496	1773	121.9	240	-55	RC	2005	Midway
MW-401	493706	4234520	1773	152.4	240	-50	RC	2005	Midway
MW-402	493527	4234616	1774	152.4	260	-57	RC	2005	Midway
MW-403	493527	4234616	1774	137.2	236.7	-53.9	RC	2005	Midway
MW-404	493533	4234617	1774	128.0	85	-70	RC	2005	Midway
MW-405	493948	4234479	1770	24.4	225	-50	RC	2005	Midway
MW-406	492321	4234481	1798	121.9	225	-50	RC	2005	Midway
MW-407	492369	4234480	1799	171.3	235	-60	RC	2005	Midway
MW-408	493438	4234615	1773	182.9	65	-65	RC	2005	Midway
MW-409	493616	4234460	1771	140.2	57	-75	RC	2005	Midway
MW-410	493616	4234460	1771	121.9	57	-60	RC	2005	Midway
MW-411	493633	4234469	1772	121.9	55	-50	RC	2005	Midway
MW-412	493616	4234458	1771	140.2	93	-75	RC	2005	Midway
MW-413	493616	4234458	1771	121.9	93	-60	RC	2005	Midway
REW	493350	4234436	1774	42.7	360	-90	HD	2005	Midway
MW06-01	493677	4234487	1772	152.4	240	-65	RC	2006	Midway
MW06-02	493657	4234513	1772	152.4	240	-65	RC	2006	Midway
MW06-03	493657	4234513	1772	134.1	240	-58	RC	2006	Midway
MW06-04	493941	4234469	1771	207.3	225	-65	RC	2006	Midway
MW06-05	493941	4234468	1771	164.6	215	-50	RC	2006	Midway
MW06-06	493546	4234472	1772	121.9	230	-50	RC	2006	Midway
MW06-07	493438	4234435	1772	182.9	250	-50	RC	2006	Midway
MW06-08	493349	4234577	1775	213.4	235	-65	RC	2006	Midway
MW06-09	493606	4234521	1772	152.4	95	-55	RC	2006	Midway
MW06-10	493654	4234401	1771	182.9	60	-65	RC	2006	Midway
MW06-11	493606	4234521	1772	152.4	60	-75	RC	2006	Midway
MW06-12	493606	4234521	1772	152.4	60	-55	RC	2006	Midway
MW06-13	493616	4234461	1772	140.2	240	-65	RC	2006	Midway
MW06-14	493616	4234461	1772	167.6	240	-50	RC	2006	Midway

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
MW06-15	493634	4234417	1771	163.1	50	-75	RC	2006	Midway
MW06-16	493634	4234417	1771	182.9	50	-55	RC	2006	Midway
MW06-17	493787	4234502	1772	158.5	240	-70	RC	2006	Midway
MW06-18	493787	4234502	1772	121.9	240	-50	RC	2006	Midway
MW06-19	493549	4234476	1772	187.5	90	-60	RC	2006	Midway
MW06-20	493549	4234476	1772	213.4	60	-50	RC	2006	Midway
MW06-21	493675	4234511	1770	182.9	90	-55	RC	2006	Midway
MW06-22	493526	4234535	1772	182.9	71.5	-70.8	RC	2006	Midway
MW06-23	493530	4234537	1771	213.4	73.9	-51.5	RC	2006	Midway
MW06-24	493697	4234470	1772	121.9	310	-65	RC	2006	Midway
MW06-25	493697	4234470	1772	121.9	310	-52	RC	2006	Midway
MW06-26	493524	4234495	1772	121.9	230	-70	RC	2006	Midway
MW06-27	493520	4234493	1772	121.9	230	-50	RC	2006	Midway
MW06- 28D	493616	4234461	1772	140.2	40	-80	DDH	2006	Midway
MW06- 29D	493616	4234461	1772	137.2	45	-65	DDH	2006	Midway
MW06- 30D	493616	4234461	1772	64.0	40	-60	DDH	2006	Midway
MW06-31	494276	4234007	1770	137.2	190	-70	RC	2006	Midway
MW06-32	494276	4234007	1770	121.9	190	-50	RC	2006	Midway
MW06-33	493901	4234144	1770	115.8	90	-70	RC	2006	Midway
MW06-34	493901	4234144	1770	121.9	165	-70	RC	2006	Midway
MW06-35	493705	4234520	1772	213.4	210	-50	RC	2006	Midway
MW06-36	493705	4234520	1772	126.5	270	-50	RC	2006	Midway
MW06-37	493860	4234161	1771	152.4	135	-70	RC	2006	Midway
MW06-38	493860	4234161	1771	134.1	135	-55	RC	2006	Midway
MW06- 39D	493616	4234461	1772	137.2	45	-75	DDH	2006	Midway
MW06-40	493787	4234502	1772	121.9	270	-65	RC	2006	Midway
MW06-41	493606	4234521	1772	137.2	40	-60	RC	2006	Midway
MW06-42	493610	4234531	1771	121.9	40	-50	RC	2006	Midway
MW06- 43D	493398	4234555	1773	152.1	53	-60	DDH	2006	Midway
MW06- 45HD	493419	4234562	1773	100.6	360	-90	HD	2006	Midway
MW06- 45HM MW06-	493420	4234584	1773	47.2	360	-90	HD	2006	Midway
45HS	493413	4234597	1773	10.4	360	-90	HD	2006	Midway
MW06- 46HD	493512	4234521	1772	91.4	360	-90	HD	2006	Midway
MW06- 46HM	493516	4234536	1772	54.3	360	-90	HD	2006	Midway
MW06- 46HS	493512	4234548	1772	13.4	360	-90	HD	2006	Midway
MW06- 47HD	493672	4234446	1772	67.1	360	-90	HD	2006	Midway

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
MW06-	493667	4234442	1772	45.1	360	-90	HD	2006	Midway
47HM MW06- 47HS	493657	4234432	1771	19.2	360	-90	HD	2006	Midway
MW06- 48HD	493970	4234271	1771	73.2	360	-90	HD	2006	Midway
MW06- 48HM	493977	4234272	1771	57.9	360	-90	HD	2006	Midway
MW06- 48HS	493991	4234274	1770	19.2	360	-90	HD	2006	Midway
MW06- 49HD	493512	4234424	1771	48.8	360	-90	HD	2006	Midway
MW06- 49HS	493515	4234414	1772	10.4	360	-90	HD	2006	Midway
MW06-50	493352	4234709	1774	190.5	90	-65	RC	2006	Midway
MW06-51	493602	4234527	1771	115.8	260	-55	RC	2006	Midway
MW06-52	493604	4234515	1772	109.7	280	-60	RC	2006	Midway
MW06-53	493328	4234808	1774	242.3	90	-65	RC	2006	Midway
MW06-54	493775	4234293	1774	152.4	270	-60	RC	2006	Midway
MW06-55	493328	4234753	1774	213.4	90	-65	RC	2006	Midway
MW07- 57HD	493581	4234589	1772	140.2	360	-90	HD	2007	Midway
MW07-58	492540	4233917	1799	134.1	270	-45	RC	2007	Midway
MW07-59	492474	4233962	1801	134.1	270	-45	RC	2007	Midway
MW07-60	492546	4233918	1799	138.7	90	-45	RC	2007	Midway
MW07-61	493488	4234552	1773	140.2	92.1	-56.7	RC	2007	Midway
MW07-62	493468	4234486	1772	131.1	89.9	-60.97	RC	2007	Midway
MW07-63	493445	4234488	1772	111.3	95.1	-59.28	RC	2007	Midway
MW07-64	493510	4234489	1772	121.9	87.6	-59.78	RC	2007	Midway
MW07-65	493445	4234604	1773	134.1	90	-58.99	RC	2007	Midway
MW07-66	492526	4233915	1799	91.4	100	-60	RC	2007	Midway
MW07-67	492607	4233906	1797	146.3	90	-45	RC	2007	Midway
MW07-68	492731	4234033	1794	152.4	270	-45	RC	2007	Midway
MW07- 69D	493414	4234553	1773	140.2	88.8	-44.01	DDH	2007	Midway
MW07- 70D	493436	4234551	1773	108.5	102.4	-43.12	DDH	2007	Midway
MW07- 71D	493463	4234552	1772	118.3	88.4	-59.44	DDH	2007	Midway
MW07- 72D	493382	4234631	1773	175.0	104.3	-44.27	DDH	2007	Midway
MW07- 73D	493207	4234251	1778	106.7	245.69	-44.28	DDH	2007	Midway
MW07- 74D	493208	4234251	1778	86.3	189.8	-55.51	DDH	2007	Midway
MW07- 75D	493214	4234257	1778	91.4	90	-55	DDH	2007	Midway
MW08- 76A	495409	4234228	1777	18.3	360	-90	HD	2008	Midway

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
MW08- 77A	495235	4237477	1792	30.5	360	-90	HD	2008	Midway
MW08- 78A	493605	4232886	1765	15.2	360	-90	HD	2008	Midway
MW08- 79A	493534	4231602	1759	25.9	360	-90	HD	2008	Midway
MW08- 80H	492717	4234012	1793	61.9	360	-90	HD	2008	Midway
MW08- 81H	492483	4234077	1797	121.9	360	-90	HD	2008	Midway
MW08- 82H	492999	4234285	1783	61.9	360	-90	HD	2008	Midway
MW08- 83D	493481	4234441	1771	29.0	180	-70	DDH	2008	Midway
MW08- 84D	493473	4234360	1771	92.1	360	-80	DDH	2008	Midway
MW08- 85D	493158	4234058	1785	106.7	60	-45	DDH	2008	Midway
MW08- 86D	493160	4234056	1785	47.2	20	-50	DDH	2008	Midway
MW08- 87D	493298	4234083	1774	106.7	230	-45	DDH	2008	Midway
MW08- 88D	493330	4234145	1777	74.7	215	-45	DDH	2008	Midway
MW08- 89D	493315	4234122	1777	64.0	230	-45	DDH	2008	Midway
MW08- 90D	493288	4234097	1774	106.7	270	-45	DDH	2008	Midway
MW08- 91D	493616	4234426	1766	88.4	215	-45	DDH	2008	Midway
MW11- 01C	493385	4234635	1774	180.4	103.9	-65.48	DDH	2011	Midway
MW11- 02C	493387	4234636	1774	173.7	104.5	-55.22	DDH	2011	Midway
MW11- 03C	493441	4234608	1773	129.5	70.1	-58.92	DDH	2011	Midway
MW11- 04C	493419	4234564	1774	160.3	87.3	-55.41	DDH	2011	Midway
MW11- 05C	493422	4234575	1774	160.0	85.4	-59.71	DDH	2011	Midway
MW11- 06C	493419	4234579	1774	168.6	77.8	-45.92	DDH	2011	Midway
MW11- 07C	493418	4234578	1774	146.0	77.2	-59.21	DDH	2011	Midway
MW11- 08C	493392	4234589	1774	138.4	80.8	-69.4	DDH	2011	Midway
MW11- 09C	493419	4234571	1774	103.0	77.9	-79.8	DDH	2011	Midway
MW11- 10C	493441	4234555	1774	107.6	100.6	-45.81	DDH	2011	Midway
MW11- 11C	493440	4234555	1774	94.2	105.5	-59.62	DDH	2011	Midway
MW11- 12C	493287	4234634	1776	260.3	75.8	-74.81	DDH	2011	Midway
MW11- 13C	493289	4234634	1776	190.5	76.5	-59.5	DDH	2011	Midway

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
MW11- 14C	493287	4234633	1776	239.3	89.4	-75.92	DDH	2011	Midway
MW11- 15C	493310	4234583	1775	211.8	91.4	-69.06	DDH	2011	Midway
MW11- 16C	493615	4234490	1772	104.9	89.8	-44.67	DDH	2011	Midway
MW11- 17C	493613	4234490	1772	120.4	87.9	-61.13	DDH	2011	Midway
MW11- 18C	493612	4234490	1772	123.4	89.7	-70.94	DDH	2011	Midway
MW11- 19C	493612	4234487	1772	147.8	108.4	-74.9	DDH	2011	Midway
MW11- 20C	493613	4234528	1772	50.3	0	-90	DDH	2011	Midway
MW11- 21C	493617	4234527	1772	105.2	114.4	-64.83	DDH	2011	Midway
MW11- 22C	493891	4234388	1772	153.0	82.5	-49.37	DDH	2011	Midway
MW11- 23C	493890	4234388	1772	134.1	82.5	-56.71	DDH	2011	Midway
MW11- 24C	493887	4234386	1772	157.0	82.3	-77.67	DDH	2011	Midway
MW11- 25C	493890	4234387	1772	164.6	104.4	-48.99	DDH	2011	Midway
MW11- 26C	493376	4234536	1774	245.4	65.2	-84.5	DDH	2011	Midway
TG18001	493600	4234586	1771	106.7	340	-60	Core	2018	Viva
TG18002	493376	4234640	1774	157.3		-60	Core	2018	Viva
TG18003	493871	4234674	1770	171.8	200	-60	Core	2018	Viva
TG18004	493346	4234794	1774	140.5	160	-60	Core	2018	Viva
TG1805	493510	4234380	1774	80.8	250	-60	RC	2018	Viva
TG1806	493469	4234497	1774	76.2	240	-70	RC	2018	Viva
TG1807	493472	4234575	1774	94.5	200.5	-80.23	RC	2018	Viva
TG1808	493664	4234463	1774	125.0	233.5	-70.68	RC	2018	Viva
TG1809	493531	4234581	1774	100.6	220	-60	RC	2018	Viva
TG1810	493362	4234585	1774	170.7	90	-65	RC	2018	Viva
TG1811	494000	4234489	1774	149.4	206.71	-70.13	RC	2018	Viva
TG1812	494032	4234471	1774	185.9	199.3	-76.27	RC	2018	Viva
TG1813	494097	4234461	1774	164.6	208.4	-60.88	RC	2018	Viva
TG1814	493796	4234492	1773	115.8	219.61	-68.45	RC	2018	Viva
TG1815	493771	4234522	1774	112.8	198.4	-70.91	RC	2018	Viva
TG1816	493366	4234593	1774	170.7	105.5	-59.17	RC	2018	Viva
TG1817	493273	4234643	1774	228.6	54	-80.71	RC	2018	Viva
TG1818	493474	4234497	1774	109.7	99.8	-64.61	RC	2018	Viva
TG1819	493863	4234497	1774	129.5	200.1	-70.57	RC	2018	Viva
TG1820	493828	4234490	1774	118.9	200.7	-61.04	RC	2018	Viva
TG1901	493804	4234500	1774	65.5	50	-70	RC	2019	Viva
TG1902	493475	4234578	1774	146.3	0	-69.85	RC	2019	Viva

Drill hole Name	Easting	Northing	Elevation	Total Depth	Azimuth	Dip	Drill hole Type	Year	Campaign
TG1903	493660	4234476	1774	140.2	275.8	-76.25	RC	2019	Viva
TG1904	494131	4234118	1773	134.1	274	-60.96	RC	2019	Viva
TG1905	494099	4234406	1774	146.3	211.2	-70.92	RC	2019	Viva
TG1906	493774	4234521	1774	134.1	0	-90	RC	2019	Viva
TG1907	491791	4235166	1811	123.444	180	-60	RC	2019	Viva
TG1908	491852	4235193	1806	121.92	180	-60	RC	2019	Viva
TG1909	491970	4235027	1807	147.828	270	-60	RC	2019	Viva
TG1910	492593	4234657	1793	106.68	0	-90	RC	2019	Viva
TG1911	492237	4234908	1812	146.304	270	-50	RC	2019	Viva
TG1912	493474	4234688	1774	121.92	0	-90	RC	2019	Viva
TG1913	494162	4234274	1774	152.4	230	-70	RC	2019	Viva
TG1914	492593	4234657	1793	121.92	60	-60	RC	2019	Viva
TG1915	493269	4234624	1774	176.784	219	-75	RC	2019	Viva
TG1916	493232	4234676	1777	182.88	220	-65	RC	2019	Viva
TG2001	493153	4234738	1777	231.6	224.2	-82.85	RC	2020	Viva
TG2002	493173	4234652	1778	243.8	296.3	-79.05	RC	2020	Viva
TG2003	493211	4234634	1777	213.4	102.83	-84.87	RC	2020	Viva
TG2004	494098	4234392	1772	158.5	168.9	-68.96	RC	2020	Viva
TG2005	494062	4234332	1771	106.7	90	-75	RC	2020	Viva
TG2006	494291	4234025	1771	135.6	71.11	-81.38	RC	2020	Viva
TG2007	494235	4233986	1771	61.0	250	-80	RC	2020	Viva
TG2008	494022	4234113	1770	160.0	43.8	-69.65	RC	2020	Viva
TG2009	493854	4234050	1769	170.7	50	-75	RC	2020	Viva
TG2010	494014	4234103	1770	170.7	100.4	-89.57	RC	2020	Viva
TG2011	493268	4234643	1776	268.2	250.4	-89.88	RC	2020	Viva
TGM2001	493478	4234556	1770	100.6	200	-75	Core	2020	Viva
TGM2002	493633	4234457	1770	102.1	30	-75	Core	2020	Viva
TGM2003	493268	4234673	1775	152.4	270	-85	Core	2020	Viva
TGM2004	493972	4234403	1771	151.0	0	-90	Core	2020	Viva
TGM2005	493437	4234579	1772	93.0	90	-80	Core	2020	Viva
TG2101	494181	4234362	1771	204.2	110	-60	RC	2021	Viva
TG2102	494121	4234460	1771	207.3	180	-70	RC	2021	Viva
TG2103	494101	4234412	1770	182.9	225	-60	RC	2021	Viva

Appendix E – List of Claims

		200	
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NMC1059873	MW 1	776757	N
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NMC1059875	MW 3	776759	N
NMC1059876	MW 4	776760	N
NMC1059877	MW 5	776761	Ν
NMC1059878	MW 6	776762	N
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NMC1059880	MW 8	776764	Ν
NMC1059881	MW 9	776765	Ν
NMC1059882	MW 10	776766	Ν
NMC1059883	MW 11	776767	Ν
NMC1059884	MW 12	776768	Ν
NMC1059885	MW 13	776769	Ν
NMC1059886	MW 14	776770	Ν
NMC1059887	MW 15	776771	Ν
NMC1059888	MW 16	776772	Ν
NMC1059889	MW 17	776773	Ν
NMC1059890	MW 18	776774	Ν
NMC1059891	MW 19	776775	Ν
NMC1059892	MW 20	776776	Ν
NMC1059893	MW 21	776777	Ν
NMC1059894	MW 22	776778	Ν
NMC1059895	MW 23	776779	Ν
NMC1059896	MW 24	776780	Ν
NMC1059897	MW 25	776781	Ν
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NMC1059899	MW 27	776783	Ν
NMC1059900	MW 28	776784	Ν
NMC1059901	MW 29	776785	Ν
NMC1059902	MW 30	776786	Ν
NMC1059903	MW 31	776787	Ν
NMC1059904	MW 32	776788	N
NMC1059905	MW 33	776789	N
NMC1059906	MW 34	776790	N
NMC1059907	MW 35	776791	N
NMC1059908	MW 36	776792	N
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NMC1059910	MW 38	776794	N
NMC1059911	MW 39	776795	N
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NMC1059913	MW 41	776797	N
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NMC1059916	MW 44	776800	Ν
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NMC1059918	MW 46	776802	Ν
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NMC1059922	MW 50	776806	Ν
NMC1059923	MW 51	776807	Ν
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NMC1059927	MW 55	776811	Ν
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NMC1059929	MW 57	776813	N
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NMC1059932	MW 60	776816	Ν
NMC1059933	MW 61	776817	Ν
NMC1059934	MW 62	776818	Ν
NMC1059935	MW 63	776819	Ν
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NMC1059937	MW 65	776821	Ν
NMC1059938	MW 66	776822	Ν
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NMC1059941	MW 69	776825	Ν
NMC1059942	MW 70	776826	N
NMC1059943	MW 71	776827	Ν
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NMC1059954	MW 82	776838	N
NMC1059955	MW 83	776839	N
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NMC1059986	MW 114	776870	Ν
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NMC1059996	MW 124	776880	Ν
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NMC1060000	MW 128	776884	Ν

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NMC1060003	MW 131	776887	Ν
NMC1060004	MW 132	776888	Ν
NMC1060005	MW 133	776889	Ν
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NMC1060012	MW 140	776896	Ν
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NMC1060014	MW 142	776898	Ν
NMC1060015	MW 143	776899	N
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NMC1060018	MW 146	776902	Ν
NMC1060019	MW 147	776903	Ν
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NMC1060041	MW 169	776925	N
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NMC1060043	MW 171	776927	Ν

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NMC1060060 MW 188 776944 N NMC1060061 MW 189 776945 N NMC1060062 MW 190 776946 N NMC1060063 MW 191 776947 N NMC1060064 MW 192 776948 N NMC1060065 MW 193 776949 N NMC1060066 MW 194 776950 N NMC1060066 MW 195 776951 N NMC1060067 MW 195 776951 N NMC1060068 MW 196 776952 N NMC1060070 MW 198 776953 N NMC1060071 MW 199 776955 N NMC1060071 MW 200 776955 N NMC1060073 MW 201 776957 N NMC1060074 MW 202 776958 N NMC1060075 MW 203 776959 N NMC1060076 MW 204 776960 N NMC1060077 MW 205 776961 N	NMC1060058	MW 186	776942	N
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NMC1060063 MW 191 776947 N NMC1060064 MW 192 776948 N NMC1060065 MW 193 776949 N NMC1060066 MW 194 776950 N NMC1060067 MW 195 776951 N NMC1060067 MW 196 776952 N NMC1060068 MW 196 776953 N NMC1060069 MW 197 776953 N NMC1060070 MW 198 776954 N NMC1060071 MW 199 776955 N NMC1060072 MW 200 776956 N NMC1060073 MW 201 776957 N NMC1060074 MW 202 776958 N NMC1060075 MW 203 776950 N NMC1060076 MW 204 776960 N NMC1060077 MW 205 776961 N NMC1060078 MW 206 776962 N NMC1060080 MW 208 776964 N	NMC1060061	MW 189	776945	Ν
NMC1060064 MW 192 776948 N NMC1060065 MW 193 776949 N NMC1060066 MW 194 776950 N NMC1060067 MW 195 776951 N NMC1060068 MW 196 776952 N NMC1060069 MW 197 776953 N NMC1060070 MW 198 776954 N NMC1060071 MW 199 776955 N NMC1060072 MW 200 776956 N NMC1060073 MW 201 776957 N NMC1060074 MW 202 776958 N NMC1060075 MW 203 776959 N NMC1060076 MW 204 776960 N NMC1060077 MW 205 776961 N NMC1060078 MW 206 776962 N NMC1060079 MW 207 776963 N NMC1060081 MW 209 776965 N NMC1060082 MW 210 776966 N	NMC1060062	MW 190	776946	Ν
NMC1060065 MW 193 776949 N NMC1060066 MW 194 776950 N NMC1060067 MW 195 776951 N NMC1060068 MW 196 776952 N NMC1060069 MW 197 776953 N NMC1060070 MW 198 776954 N NMC1060071 MW 199 776955 N NMC1060072 MW 200 776956 N NMC1060073 MW 201 776957 N NMC1060074 MW 202 776958 N NMC1060075 MW 203 776959 N NMC1060076 MW 204 776960 N NMC1060077 MW 205 776961 N NMC1060078 MW 206 776962 N NMC1060079 MW 207 776963 N NMC1060081 MW 209 776965 N NMC1060082 MW 210 776966 N NMC1060083 MW 212 776968 N	NMC1060063	MW 191	776947	Ν
NMC1060066 MW 194 776950 N NMC1060067 MW 195 776951 N NMC1060068 MW 196 776952 N NMC1060069 MW 197 776953 N NMC1060070 MW 198 776954 N NMC1060071 MW 199 776955 N NMC1060071 MW 200 776956 N NMC1060072 MW 200 776957 N NMC1060073 MW 201 776957 N NMC1060074 MW 202 776958 N NMC1060075 MW 203 776959 N NMC1060076 MW 204 776960 N NMC1060077 MW 205 776961 N NMC1060078 MW 206 776963 N NMC1060079 MW 208 776963 N NMC1060081 MW 209 776965 N NMC1060082 MW 210 776966 N NMC1060083 MW 212 776968 N	NMC1060064	MW 192	776948	Ν
NMC1060067 MW 195 776951 N NMC1060068 MW 196 776952 N NMC1060069 MW 197 776953 N NMC1060070 MW 198 776954 N NMC1060071 MW 199 776955 N NMC1060072 MW 200 776956 N NMC1060073 MW 201 776957 N NMC1060074 MW 202 776958 N NMC1060075 MW 203 776959 N NMC1060076 MW 204 776960 N NMC1060076 MW 205 776961 N NMC1060077 MW 205 776963 N NMC1060078 MW 206 776963 N NMC1060080 MW 208 776964 N NMC1060081 MW 209 776965 N NMC1060083 MW 211 776968 N NMC1060084 MW 212 776968 N	NMC1060065	MW 193	776949	Ν
NMC1060068 MW 196 776952 N NMC1060069 MW 197 776953 N NMC1060070 MW 198 776954 N NMC1060071 MW 199 776955 N NMC1060072 MW 200 776956 N NMC1060073 MW 201 776957 N NMC1060074 MW 202 776958 N NMC1060075 MW 203 776959 N NMC1060076 MW 204 776960 N NMC1060077 MW 205 776961 N NMC1060076 MW 206 776962 N NMC1060077 MW 207 776963 N NMC1060079 MW 208 776963 N NMC1060081 MW 209 776965 N NMC1060082 MW 210 776966 N NMC1060083 MW 212 776968 N NMC1060084 MW 213 776969 N	NMC1060066	MW 194	776950	Ν
NMC1060069 MW 197 776953 N NMC1060070 MW 198 776954 N NMC1060071 MW 199 776955 N NMC1060072 MW 200 776956 N NMC1060073 MW 201 776957 N NMC1060074 MW 202 776958 N NMC1060075 MW 203 776959 N NMC1060076 MW 204 776960 N NMC1060077 MW 205 776961 N NMC1060077 MW 205 776961 N NMC1060078 MW 206 776962 N NMC1060079 MW 207 776963 N NMC1060080 MW 208 776964 N NMC1060081 MW 209 776965 N NMC1060082 MW 210 776967 N NMC1060083 MW 212 776968 N NMC1060084 MW 213 776969 N	NMC1060067	MW 195	776951	Ν
NMC1060070 MW 198 776954 N NMC1060071 MW 199 776955 N NMC1060072 MW 200 776956 N NMC1060073 MW 201 776957 N NMC1060074 MW 202 776958 N NMC1060075 MW 203 776959 N NMC1060076 MW 204 776960 N NMC1060076 MW 205 776961 N NMC1060077 MW 205 776961 N NMC1060078 MW 206 776962 N NMC1060079 MW 207 776963 N NMC1060081 MW 209 776965 N NMC1060082 MW 210 776966 N NMC1060083 MW 211 776967 N NMC1060084 MW 213 776969 N	NMC1060068	MW 196	776952	Ν
NMC1060071 MW 199 776955 N NMC1060072 MW 200 776956 N NMC1060073 MW 201 776957 N NMC1060074 MW 202 776958 N NMC1060075 MW 203 776959 N NMC1060076 MW 204 776960 N NMC1060077 MW 205 776961 N NMC1060078 MW 206 776962 N NMC1060079 MW 207 776963 N NMC1060080 MW 208 776964 N NMC1060081 MW 209 776965 N NMC1060082 MW 210 776966 N NMC1060083 MW 211 776967 N NMC1060084 MW 213 776969 N	NMC1060069	MW 197	776953	Ν
NMC1060072 MW 200 776956 N NMC1060073 MW 201 776957 N NMC1060074 MW 202 776958 N NMC1060075 MW 203 776959 N NMC1060076 MW 204 776960 N NMC1060077 MW 205 776961 N NMC1060078 MW 206 776962 N NMC1060079 MW 207 776963 N NMC1060080 MW 208 776964 N NMC1060081 MW 209 776965 N NMC1060082 MW 210 776966 N NMC1060083 MW 212 776968 N NMC1060084 MW 213 776969 N	NMC1060070	MW 198	776954	Ν
NMC1060073 MW 201 776957 N NMC1060074 MW 202 776958 N NMC1060075 MW 203 776959 N NMC1060076 MW 204 776960 N NMC1060077 MW 205 776961 N NMC1060078 MW 206 776962 N NMC1060079 MW 207 776963 N NMC1060080 MW 208 776964 N NMC1060081 MW 209 776965 N NMC1060082 MW 210 776966 N NMC1060083 MW 211 776967 N NMC1060084 MW 212 776968 N NMC1060085 MW 213 776969 N	NMC1060071	MW 199	776955	Ν
NMC1060074 MW 202 776958 N NMC1060075 MW 203 776959 N NMC1060076 MW 204 776960 N NMC1060077 MW 205 776961 N NMC1060078 MW 206 776962 N NMC1060079 MW 207 776963 N NMC1060080 MW 208 776964 N NMC1060081 MW 209 776965 N NMC1060082 MW 210 776966 N NMC1060083 MW 211 776967 N NMC1060084 MW 212 776968 N NMC1060085 MW 213 776969 N	NMC1060072	MW 200	776956	Ν
NMC1060075 MW 203 776959 N NMC1060076 MW 204 776960 N NMC1060077 MW 205 776961 N NMC1060078 MW 206 776962 N NMC1060079 MW 207 776963 N NMC1060080 MW 208 776964 N NMC1060081 MW 209 776965 N NMC1060082 MW 210 776966 N NMC1060083 MW 211 776967 N NMC1060084 MW 212 776968 N NMC1060085 MW 213 776969 N	NMC1060073	MW 201	776957	Ν
NMC1060076 MW 204 776960 N NMC1060077 MW 205 776961 N NMC1060078 MW 206 776962 N NMC1060079 MW 207 776963 N NMC1060080 MW 208 776964 N NMC1060081 MW 209 776965 N NMC1060082 MW 210 776966 N NMC1060083 MW 211 776967 N NMC1060084 MW 212 776968 N NMC1060085 MW 213 776969 N	NMC1060074	MW 202	776958	Ν
NMC1060077 MW 205 776961 N NMC1060078 MW 206 776962 N NMC1060079 MW 207 776963 N NMC1060080 MW 208 776964 N NMC1060081 MW 209 776965 N NMC1060082 MW 210 776966 N NMC1060083 MW 211 776967 N NMC1060084 MW 212 776968 N NMC1060085 MW 213 776969 N	NMC1060075	MW 203	776959	Ν
NMC1060078 MW 206 776962 N NMC1060079 MW 207 776963 N NMC1060080 MW 208 776964 N NMC1060081 MW 209 776965 N NMC1060082 MW 210 776966 N NMC1060083 MW 211 776967 N NMC1060084 MW 212 776968 N NMC1060085 MW 213 776969 N	NMC1060076	MW 204	776960	Ν
NMC1060079 MW 207 776963 N NMC1060080 MW 208 776964 N NMC1060081 MW 209 776965 N NMC1060082 MW 210 776966 N NMC1060083 MW 211 776967 N NMC1060084 MW 212 776968 N NMC1060085 MW 213 776969 N	NMC1060077	MW 205	776961	Ν
NMC1060080 MW 208 776964 N NMC1060081 MW 209 776965 N NMC1060082 MW 210 776966 N NMC1060083 MW 211 776967 N NMC1060084 MW 212 776968 N NMC1060085 MW 213 776969 N	NMC1060078	MW 206	776962	N
NMC1060081 MW 209 776965 N NMC1060082 MW 210 776966 N NMC1060083 MW 211 776967 N NMC1060084 MW 212 776968 N NMC1060085 MW 213 776969 N	NMC1060079	MW 207	776963	Ν
NMC1060082 MW 210 776966 N NMC1060083 MW 211 776967 N NMC1060084 MW 212 776968 N NMC1060085 MW 213 776969 N	NMC1060080	MW 208	776964	N
NMC1060083 MW 211 776967 N NMC1060084 MW 212 776968 N NMC1060085 MW 213 776969 N	NMC1060081	MW 209	776965	N
NMC1060084 MW 212 776968 N NMC1060085 MW 213 776969 N	NMC1060082	MW 210	776966	N
NMC1060085 MW 213 776969 N	NMC1060083	MW 211	776967	N
	NMC1060084	MW 212	776968	N
NMC1060086 MW 214 776970 N	NMC1060085	MW 213	776969	N
	NMC1060086	MW 214	776970	Ν

	1	1	
NMC1060087	MW 215	776971	Ν
NMC1060088	MW 216	776972	Ν
NMC1060089	MW 217	776973	Ν
NMC1060090	MW 218	776974	Ν
NMC1060091	MW 219	776975	Ν
NMC1060092	MW 220	776976	Ν
NMC1060093	MW 221	776977	Ν
NMC1060094	MW 222	776978	Ν
NMC1060095	MW 223	776979	Ν
NMC1060096	MW 224	776980	Ν
NMC1060097	MW 225	776981	N
NMC1060098	MW 226	776982	N
NMC1060099	MW 227	776983	N
NMC1060100	MW 228	776984	Ν
NMC1060101	MW 229	776985	N
NMC1060102	MW 230	776986	N
NMC1060103	MW 231	776987	Ν
NMC1060104	MW 232	776988	Ν
NMC1060105	MW 233	776989	N
NMC387816	SP #1	172347	Y
NMC387817	SP #2	172348	Y
NMC387818	SP #3	172349	Y
NMC387820	SP #5	172351	Y
NMC387822	SP #7	172353	Y
NMC387824	SP #9	172355	Y
NMC387826	SP #11	172357	Y
NMC387828	SP #13	172359	Y
NMC387830	SP #15	172361	Y
NMC387832	SP #17	172363	Y
NMC387833	SP #18	172364	Y
NMC387836	SP #21	172367	Y
NMC387837	SP #22	172368	Y
NMC387838	SP #23	172369	Y
NMC387839	SP #24	172370	Y
NMC387840	SP #25	172371	Y
NMC387841	SP #26	172372	Y
NMC387842	SP #27	172373	Y
NMC387843	SP #28	172374	Y
NMC387844	SP #29	172375	Y
NMC387845	SP #30	172376	Y
NMC387846	SP #31	172377	Y
NMC387847	SP #32	172378	Y
NMC390502	SP #65	173144	Y

NMC390503 SP #66 143145 Y NMC390504 SP #67 173146 Y NMC390505 SP #68 173147 Y NMC390506 SP #69 173148 Y NMC390507 SP #70 173149 Y NMC470114 SP #71 206406 Y NMC470115 SP #73 206408 Y NMC470116 SP #73 206401 Y NMC470117 SP #76 206411 Y NMC470120 SP #77 206412 Y NMC470121 SP #78 206413 Y NMC470123 SP #80 206415 Y NMC470124 SP #81 206416 Y NMC470125 SP #82 206417 Y NMC470126 SP #83 206418 Y NMC470127 SP #84 206419 Y NMC470138 SP #97 206432 Y NMC470140 SP #197 206433 Y	r	r	1	1
NMC390505 SP #68 173147 Y NMC390506 SP #69 173148 Y NMC390507 SP #70 173149 Y NMC470114 SP #71 206406 Y NMC470115 SP #72 206407 Y NMC470116 SP #73 206408 Y NMC470117 SP #74 206409 Y NMC470118 SP #75 206410 Y NMC470120 SP #77 206412 Y NMC470121 SP #78 206413 Y NMC470122 SP #80 206415 Y NMC470123 SP #81 206416 Y NMC470125 SP #83 206418 Y NMC470126 SP #83 206413 Y NMC470138 SP #95 206430 Y NMC470138 SP #97 206432 Y NMC470140 SP #97 206432 Y NMC470143 SP #105 206433 Y	NMC390503	SP #66	143145	Y
NMC390506 SP #69 173148 Y NMC390507 SP #70 173149 Y NMC470114 SP #71 206406 Y NMC470115 SP #72 206407 Y NMC470116 SP #73 206408 Y NMC470117 SP #74 206409 Y NMC470118 SP #75 206411 Y NMC470120 SP #77 206412 Y NMC470121 SP #78 206413 Y NMC470122 SP #79 206414 Y NMC470123 SP #80 206415 Y NMC470124 SP #81 206416 Y NMC470125 SP #82 206417 Y NMC470126 SP #83 206418 Y NMC470138 SP #95 206430 Y NMC470139 SP #9497 206432 Y NMC470140 SP #197 206432 Y NMC470143 SP #197 206433 Y <t< td=""><td>NMC390504</td><td>SP #67</td><td>173146</td><td>Y</td></t<>	NMC390504	SP #67	173146	Y
NMC390507 SP #70 173149 Y NMC470114 SP #71 206406 Y NMC470115 SP #72 206407 Y NMC470116 SP #73 206408 Y NMC470117 SP #74 206409 Y NMC470118 SP #75 206410 Y NMC470120 SP #77 206412 Y NMC470121 SP #78 206413 Y NMC470122 SP #79 206414 Y NMC470123 SP #80 206415 Y NMC470124 SP #81 206416 Y NMC470125 SP #82 206417 Y NMC470126 SP #83 206418 Y NMC470138 SP #95 206430 Y NMC470140 SP #97 206432 Y NMC470141 SP #98 206433 Y NMC470143 SP #105 206440 Y NMC470150 SP #1105 206442 Y <tr< td=""><td>NMC390505</td><td>SP #68</td><td>173147</td><td>Y</td></tr<>	NMC390505	SP #68	173147	Y
NMC470114 SP #71 206406 Y NMC470115 SP #72 206407 Y NMC470116 SP #73 206408 Y NMC470117 SP #74 206409 Y NMC470118 SP #75 206410 Y NMC470119 SP #76 206411 Y NMC470120 SP #77 206412 Y NMC470121 SP #78 206413 Y NMC470122 SP #79 206414 Y NMC470123 SP #80 206415 Y NMC470124 SP #81 206416 Y NMC470125 SP #82 206417 Y NMC470126 SP #83 206418 Y NMC470127 SP #84 206419 Y NMC470138 SP #95 206430 Y NMC470140 SP #97 206432 Y NMC470141 SP #98 206433 Y NMC470148 SP #105 206440 Y >	NMC390506	SP #69	173148	Y
NMC470115 SP #72 206407 Y NMC470116 SP #73 206408 Y NMC470117 SP #74 206409 Y NMC470118 SP #75 206410 Y NMC470119 SP #76 206411 Y NMC470120 SP #77 206412 Y NMC470121 SP #78 206413 Y NMC470122 SP #79 206414 Y NMC470123 SP #80 206415 Y NMC470124 SP #81 206416 Y NMC470125 SP #82 206417 Y NMC470126 SP #83 206418 Y NMC470138 SP #95 206430 Y NMC470140 SP #97 206432 Y NMC470140 SP #98 206433 Y NMC470141 SP #98 206433 Y NMC470148 SP #105 206440 Y NMC470150 SP #107 206424 Y	NMC390507	SP #70	173149	Y
NMC470116 SP #73 206408 Y NMC470117 SP #74 206409 Y NMC470118 SP #75 206410 Y NMC470119 SP #76 206411 Y NMC470120 SP #77 206412 Y NMC470121 SP #78 206413 Y NMC470122 SP #79 206414 Y NMC470123 SP #80 206415 Y NMC470124 SP #81 206416 Y NMC470125 SP #82 206417 Y NMC470126 SP #83 206418 Y NMC470138 SP #95 206430 Y NMC470140 SP #97 206432 Y NMC470140 SP #97 206433 Y NMC470140 SP #98 206433 Y NMC470148 SP #105 206440 Y NMC470149 SP #107 206422 Y NMC470150 SP #117 206453 Y <tr< td=""><td>NMC470114</td><td>SP #71</td><td>206406</td><td>Υ</td></tr<>	NMC470114	SP #71	206406	Υ
NMC470117 SP #74 206409 Y NMC470118 SP #75 206410 Y NMC470119 SP #76 206411 Y NMC470120 SP #77 206412 Y NMC470121 SP #78 206413 Y NMC470122 SP #79 206414 Y NMC470123 SP #80 206415 Y NMC470124 SP #81 206416 Y NMC470125 SP #82 206417 Y NMC470126 SP #83 206418 Y NMC470127 SP #84 206419 Y NMC470138 SP #95 206430 Y NMC470140 SP #97 206432 Y NMC470140 SP #98 206433 Y NMC470141 SP #98 206433 Y NMC470148 SP #105 206440 Y NMC470150 SP #115 206450 Y NMC470151 SP #115 206451 Y <tr< td=""><td>NMC470115</td><td>SP #72</td><td>206407</td><td>Υ</td></tr<>	NMC470115	SP #72	206407	Υ
NMC470118 SP #75 206410 Y NMC470119 SP #76 206411 Y NMC470120 SP #77 206412 Y NMC470121 SP #78 206413 Y NMC470122 SP #79 206414 Y NMC470123 SP #80 206415 Y NMC470124 SP #81 206416 Y NMC470125 SP #82 206417 Y NMC470126 SP #83 206418 Y NMC470127 SP #84 206419 Y NMC470138 SP #95 206430 Y NMC470140 SP #97 206432 Y NMC470140 SP #97 206433 Y NMC470141 SP #98 206433 Y NMC470148 SP #105 206440 Y NMC470150 SP #107 206442 Y NMC470151 SP #108 206433 Y NMC470153 SP #117 206454 Y <t< td=""><td>NMC470116</td><td>SP #73</td><td>206408</td><td>Υ</td></t<>	NMC470116	SP #73	206408	Υ
NMC470119 SP #76 206411 Y NMC470120 SP #77 206412 Y NMC470121 SP #78 206413 Y NMC470122 SP #79 206414 Y NMC470123 SP #80 206415 Y NMC470124 SP #81 206416 Y NMC470125 SP #82 206417 Y NMC470126 SP #83 206418 Y NMC470127 SP #84 206419 Y NMC470138 SP #95 206430 Y NMC470140 SP #97 206432 Y NMC470141 SP #98 206433 Y NMC470148 SP #105 206440 Y NMC470149 SP #105 206443 Y NMC470150 SP #107 206442 Y NMC470151 SP #108 206433 Y NMC470153 SP #117 206452 Y NMC470160 SP #117 206452 Y	NMC470117	SP #74	206409	Y
NMC470120 SP #77 206412 Y NMC470121 SP #78 206413 Y NMC470122 SP #79 206414 Y NMC470123 SP #80 206415 Y NMC470124 SP #81 206416 Y NMC470125 SP #82 206417 Y NMC470126 SP #83 206418 Y NMC470127 SP #84 206419 Y NMC470138 SP #95 206430 Y NMC470140 SP #97 206432 Y NMC470140 SP #97 206433 Y NMC470141 SP #98 206433 Y NMC470148 SP #105 206440 Y NMC470150 SP #106 206441 Y NMC470151 SP #108 206433 Y NMC470159 SP #1106 206443 Y NMC470159 SP #117 206452 Y NMC470160 SP #117 206452 Y	NMC470118	SP #75	206410	Y
NMC470121 SP #78 206413 Y NMC470122 SP #79 206414 Y NMC470123 SP #80 206415 Y NMC470123 SP #81 206416 Y NMC470124 SP #81 206417 Y NMC470125 SP #82 206418 Y NMC470126 SP #83 206419 Y NMC470138 SP #95 206430 Y NMC470139 SP #96 206431 Y NMC470140 SP #97 206432 Y NMC470141 SP #98 206433 Y NMC470148 SP #105 206440 Y NMC470150 SP #107 206422 Y NMC470151 SP #108 206433 Y NMC470153 SP #115 206450 Y NMC470154 SP #115 206451 Y NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y	NMC470119	SP #76	206411	Υ
NMC470122 SP #79 206414 Y NMC470123 SP #80 206415 Y NMC470124 SP #81 206416 Y NMC470125 SP #82 206417 Y NMC470126 SP #83 206418 Y NMC470127 SP #84 206419 Y NMC470138 SP #95 206430 Y NMC470139 SP #96 206431 Y NMC470140 SP #97 206432 Y NMC470141 SP #98 206433 Y NMC470148 SP #105 206440 Y NMC470148 SP #107 206442 Y NMC470150 SP #107 206443 Y NMC470151 SP #108 206433 Y NMC470152 SP #116 206450 Y NMC470153 SP #117 206452 Y NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y	NMC470120	SP #77	206412	Υ
NMC470123 SP #80 206415 Y NMC470124 SP #81 206416 Y NMC470125 SP #82 206417 Y NMC470126 SP #83 206418 Y NMC470127 SP #84 206419 Y NMC470138 SP #95 206430 Y NMC470139 SP #96 206431 Y NMC470140 SP #97 206432 Y NMC470141 SP #98 206433 Y NMC470148 SP #105 206440 Y NMC470150 SP #107 206442 Y NMC470150 SP #107 206443 Y NMC470151 SP #108 206453 Y NMC470153 SP #115 206450 Y NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y NMC470162 SP #119 206454 Y NMC470166 SP #123 206458 Y	NMC470121	SP #78	206413	Υ
NMC470124 SP #81 206416 Y NMC470125 SP #82 206417 Y NMC470126 SP #83 206418 Y NMC470127 SP #84 206419 Y NMC470138 SP #95 206430 Y NMC470139 SP #96 206431 Y NMC470140 SP #97 206432 Y NMC470141 SP #98 206433 Y NMC470148 SP #105 206440 Y NMC470148 SP #105 206441 Y NMC470150 SP #107 206422 Y NMC470151 SP #108 206443 Y NMC470153 SP #115 206450 Y NMC470154 SP #115 206450 Y NMC470159 SP #115 206453 Y NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y NMC470162 SP #123 206454 Y	NMC470122	SP #79	206414	Y
NMC470125 SP #82 206417 Y NMC470126 SP #83 206418 Y NMC470127 SP #84 206419 Y NMC470138 SP #95 206430 Y NMC470139 SP #96 206431 Y NMC470140 SP #97 206432 Y NMC470141 SP #98 206433 Y NMC470148 SP #105 206440 Y NMC470149 SP #105 206441 Y NMC470150 SP #107 206442 Y NMC470151 SP #108 206443 Y NMC470151 SP #108 206443 Y NMC470153 SP #115 206450 Y NMC470159 SP #116 206451 Y NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y NMC470162 SP #112 206454 Y NMC470166 SP #123 206459 Y	NMC470123	SP #80	206415	Y
NMC470126 SP #83 206418 Y NMC470127 SP #84 206419 Y NMC470138 SP #95 206430 Y NMC470139 SP #96 206431 Y NMC470140 SP #97 206432 Y NMC470141 SP #98 206433 Y NMC470141 SP #98 206433 Y NMC470148 SP #105 206440 Y NMC470149 SP #106 206441 Y NMC470150 SP #107 206422 Y NMC470150 SP #107 206443 Y NMC470151 SP #108 206433 Y NMC470158 SP #115 206450 Y NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y NMC470162 SP #119 206454 Y NMC470166 SP #123 206458 Y NMC470168 SP #125 206460 Y	NMC470124	SP #81	206416	Y
NMC470127 SP #84 206419 Y NMC470138 SP #95 206430 Y NMC470139 SP #96 206431 Y NMC470140 SP #97 206432 Y NMC470141 SP #98 206433 Y NMC470148 SP #105 206440 Y NMC470148 SP #105 206442 Y NMC470150 SP #107 206442 Y NMC470151 SP #108 206443 Y NMC470153 SP #115 206450 Y NMC470154 SP #115 206450 Y NMC470158 SP #117 206452 Y NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y NMC470162 SP #119 206454 Y NMC470166 SP #123 206458 Y NMC470167 SP #125 206460 Y NMC470168 SP #125 206462 Y <td>NMC470125</td> <td>SP #82</td> <td>206417</td> <td>Y</td>	NMC470125	SP #82	206417	Y
NMC470138 SP #95 206430 Y NMC470139 SP #96 206431 Y NMC470140 SP #97 206432 Y NMC470141 SP #98 206433 Y NMC470141 SP #98 206433 Y NMC470148 SP #105 206440 Y NMC470149 SP #106 206441 Y NMC470150 SP #107 206442 Y NMC470151 SP #108 206443 Y NMC470153 SP #115 206450 Y NMC470158 SP #115 206451 Y NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y NMC470162 SP #119 206454 Y NMC470163 SP #123 206458 Y NMC470168 SP #125 206460 Y NMC470168 SP #127 206462 Y NMC470170 SP #127 206462 Y <td>NMC470126</td> <td>SP #83</td> <td>206418</td> <td>Υ</td>	NMC470126	SP #83	206418	Υ
NMC470139 SP #96 206431 Y NMC470140 SP #97 206432 Y NMC470141 SP #98 206433 Y NMC470148 SP #105 206440 Y NMC470149 SP #106 206441 Y NMC470150 SP #107 206442 Y NMC470151 SP #108 206443 Y NMC470158 SP #115 206450 Y NMC470159 SP #116 206451 Y NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y NMC470162 SP #119 206454 Y NMC470162 SP #123 206458 Y NMC470166 SP #124 206459 Y NMC470168 SP #125 206460 Y NMC470169 SP #126 206461 Y NMC470170 SP #127 206462 Y NMC502125 SP 281 212803 Y </td <td>NMC470127</td> <td>SP #84</td> <td>206419</td> <td>Υ</td>	NMC470127	SP #84	206419	Υ
NMC470140 SP #97 206432 Y NMC470141 SP #98 206433 Y NMC470141 SP #98 206433 Y NMC470148 SP #105 206440 Y NMC470149 SP #106 206441 Y NMC470150 SP #107 206442 Y NMC470151 SP #108 206443 Y NMC470151 SP #108 206450 Y NMC470158 SP #115 206450 Y NMC470160 SP #116 206451 Y NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y NMC470162 SP #119 206454 Y NMC470166 SP #123 206458 Y NMC470168 SP #125 206460 Y NMC470169 SP #126 206461 Y NMC470170 SP #127 206462 Y NMC502125 SP 281 212803 Y </td <td>NMC470138</td> <td>SP #95</td> <td>206430</td> <td>Y</td>	NMC470138	SP #95	206430	Y
NMC470141 SP #98 206433 Y NMC470148 SP #105 206440 Y NMC470149 SP #106 206441 Y NMC470150 SP #107 206442 Y NMC470151 SP #108 206443 Y NMC470158 SP #115 206450 Y NMC470159 SP #116 206451 Y NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y NMC470162 SP #119 206454 Y NMC470162 SP #119 206458 Y NMC470166 SP #123 206459 Y NMC470167 SP #124 206459 Y NMC470168 SP #125 206460 Y NMC470170 SP #127 206462 Y NMC502125 SP 281 212803 Y NMC502126 SP 282 212804 Y NMC502127 SP 283 212806 Y </td <td>NMC470139</td> <td>SP #96</td> <td>206431</td> <td>Υ</td>	NMC470139	SP #96	206431	Υ
NMC470148 SP #105 206440 Y NMC470149 SP #106 206441 Y NMC470150 SP #107 206442 Y NMC470151 SP #108 206443 Y NMC470151 SP #108 206450 Y NMC470158 SP #115 206450 Y NMC470159 SP #116 206451 Y NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y NMC470162 SP #118 206454 Y NMC470166 SP #123 206458 Y NMC470167 SP #124 206459 Y NMC470168 SP #125 206460 Y NMC470169 SP #126 206461 Y NMC470170 SP #127 206462 Y NMC502125 SP 281 212803 Y NMC502126 SP 282 212804 Y NMC502127 SP 283 212806 Y <	NMC470140	SP #97	206432	Υ
NMC470149 SP #106 206441 Y NMC470150 SP #107 206442 Y NMC470151 SP #108 206443 Y NMC470151 SP #108 206450 Y NMC470158 SP #115 206450 Y NMC470159 SP #116 206451 Y NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y NMC470162 SP #119 206454 Y NMC470162 SP #123 206458 Y NMC470166 SP #123 206459 Y NMC470167 SP #124 206459 Y NMC470168 SP #125 206460 Y NMC470169 SP #126 206461 Y NMC470170 SP #127 206462 Y NMC502125 SP 281 212803 Y NMC502126 SP 282 212804 Y NMC502127 SP 283 212806 Y <	NMC470141	SP #98	206433	Υ
NMC470150 SP #107 206442 Y NMC470151 SP #108 206443 Y NMC470151 SP #118 206450 Y NMC470158 SP #115 206451 Y NMC470159 SP #116 206451 Y NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y NMC470162 SP #119 206454 Y NMC470162 SP #123 206458 Y NMC470166 SP #123 206459 Y NMC470167 SP #124 206459 Y NMC470168 SP #125 206460 Y NMC470169 SP #127 206462 Y NMC502125 SP 281 212803 Y NMC502126 SP 282 212804 Y NMC502127 SP 283 212805 Y NMC502128 SP 284 212806 Y NMC502129 SP 285 212807 Y <td>NMC470148</td> <td>SP #105</td> <td>206440</td> <td>Υ</td>	NMC470148	SP #105	206440	Υ
NMC470150 SP #108 206443 Y NMC470151 SP #1108 206443 Y NMC470158 SP #115 206450 Y NMC470159 SP #116 206451 Y NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y NMC470162 SP #119 206454 Y NMC470166 SP #123 206458 Y NMC470167 SP #124 206459 Y NMC470168 SP #125 206460 Y NMC470169 SP #126 206461 Y NMC470170 SP #127 206462 Y NMC502125 SP 281 212803 Y NMC502126 SP 282 212804 Y NMC502127 SP 283 212805 Y NMC502129 SP 285 212807 Y	NMC470149	SP #106	206441	Υ
NMC470158 SP #115 206450 Y NMC470159 SP #116 206451 Y NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y NMC470162 SP #118 206454 Y NMC470162 SP #119 206454 Y NMC470166 SP #123 206458 Y NMC470166 SP #124 206459 Y NMC470167 SP #125 206460 Y NMC470168 SP #125 206461 Y NMC470170 SP #127 206462 Y NMC502125 SP 281 212803 Y NMC502126 SP 282 212804 Y NMC502127 SP 283 212805 Y NMC502128 SP 284 212806 Y NMC502129 SP 285 212807 Y	NMC470150	SP #107	206442	Υ
NMC470159 SP #116 206451 Y NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y NMC470162 SP #119 206454 Y NMC470166 SP #123 206458 Y NMC470166 SP #124 206459 Y NMC470167 SP #125 206460 Y NMC470168 SP #125 206461 Y NMC470169 SP #127 206462 Y NMC502125 SP 281 212803 Y NMC502126 SP 282 212804 Y NMC502127 SP 283 212805 Y NMC502128 SP 284 212806 Y NMC502129 SP 285 212807 Y	NMC470151	SP #108	206443	Υ
NMC470160 SP #117 206452 Y NMC470161 SP #118 206453 Y NMC470162 SP #119 206454 Y NMC470166 SP #123 206458 Y NMC470166 SP #124 206459 Y NMC470167 SP #124 206450 Y NMC470168 SP #125 206460 Y NMC470169 SP #126 206461 Y NMC470170 SP #127 206462 Y NMC502125 SP 281 212803 Y NMC502126 SP 282 212804 Y NMC502127 SP 283 212805 Y NMC502128 SP 284 212806 Y NMC502129 SP 285 212807 Y	NMC470158	SP #115	206450	Υ
NMC470161 SP #118 206453 Y NMC470162 SP #119 206454 Y NMC470166 SP #123 206458 Y NMC470167 SP #124 206459 Y NMC470168 SP #125 206460 Y NMC470169 SP #126 206461 Y NMC470170 SP #127 206462 Y NMC502125 SP 281 212803 Y NMC502126 SP 282 212804 Y NMC502127 SP 283 212805 Y NMC502128 SP 284 212806 Y NMC502129 SP 285 212807 Y	NMC470159	SP #116	206451	Υ
NMC470162 SP #119 206454 Y NMC470166 SP #123 206458 Y NMC470167 SP #124 206459 Y NMC470168 SP #125 206460 Y NMC470169 SP #126 206461 Y NMC470170 SP #127 206462 Y NMC502125 SP 281 212803 Y NMC502126 SP 282 212804 Y NMC502127 SP 283 212805 Y NMC502128 SP 284 212806 Y NMC502129 SP 285 212807 Y	NMC470160	SP #117	206452	Υ
NMC470166 SP #123 206458 Y NMC470167 SP #124 206459 Y NMC470168 SP #125 206460 Y NMC470169 SP #126 206461 Y NMC470170 SP #127 206462 Y NMC502125 SP 281 212803 Y NMC502126 SP 282 212804 Y NMC502127 SP 283 212805 Y NMC502128 SP 284 212806 Y NMC502129 SP 285 212807 Y	NMC470161	SP #118	206453	Υ
NMC470167 SP #124 206459 Y NMC470168 SP #125 206460 Y NMC470169 SP #126 206461 Y NMC470170 SP #127 206462 Y NMC502125 SP 281 212803 Y NMC502126 SP 282 212804 Y NMC502127 SP 283 212805 Y NMC502128 SP 284 212806 Y NMC502129 SP 285 212807 Y	NMC470162	SP #119	206454	Y
NMC470168 SP #125 206460 Y NMC470169 SP #126 206461 Y NMC470170 SP #127 206462 Y NMC502125 SP 281 212803 Y NMC502126 SP 282 212804 Y NMC502127 SP 283 212805 Y NMC502128 SP 284 212806 Y NMC502129 SP 285 212807 Y	NMC470166	SP #123	206458	Υ
NMC470169 SP #126 206461 Y NMC470170 SP #127 206462 Y NMC502125 SP 281 212803 Y NMC502126 SP 282 212804 Y NMC502127 SP 283 212805 Y NMC502128 SP 284 212806 Y NMC502129 SP 285 212807 Y	NMC470167	SP #124	206459	Υ
NMC470170 SP #127 206462 Y NMC502125 SP 281 212803 Y NMC502126 SP 282 212804 Y NMC502127 SP 283 212805 Y NMC502128 SP 284 212806 Y NMC502129 SP 285 212807 Y	NMC470168	SP #125	206460	Υ
NMC502125 SP 281 212803 Y NMC502126 SP 282 212804 Y NMC502127 SP 283 212805 Y NMC502128 SP 284 212806 Y NMC502129 SP 285 212807 Y	NMC470169	SP #126	206461	Υ
NMC502126 SP 282 212804 Y NMC502127 SP 283 212805 Y NMC502128 SP 284 212806 Y NMC502129 SP 285 212807 Y	NMC470170	SP #127	206462	Υ
NMC502127 SP 283 212805 Y NMC502128 SP 284 212806 Y NMC502129 SP 285 212807 Y	NMC502125	SP 281	212803	Υ
NMC502128 SP 284 212806 Y NMC502129 SP 285 212807 Y	NMC502126	SP 282	212804	Υ
NMC502129 SP 285 212807 Y	NMC502127	SP 283	212805	Υ
	NMC502128	SP 284	212806	Υ
NMC502130 SP 286 212808 Y	NMC502129	SP 285	212807	Υ
	NMC502130	SP 286	212808	Υ

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NMC502144	SP 300	212822	Y
NMC502145	SP 301	212823	Y
NMC502146	SP 302	212824	Y
NMC502164	SP 320	212842	Y
NMC502165	SP 321	212843	Y
NMC502166	SP 322	212844	Y
NMC513285	SP 340	217054	Y
NMC513286	SP 341	217055	Y
NMC513287	SP 342	217056	Y
NMC513288	SP 343	217057	Y
NMC513289	SP 344	217058	Y
NMC513290	SP 345	217059	Y
NMC513291	SP 346	217060	Y
NMC513292	SP 347	217061	Y
NMC513293	SP 348	217062	Y
NMC513294	SP 349	217063	Y
NMC513295	SP 350	217064	Y
NMC513296	SP 351	217065	Y
NMC513303	SP 358	217072	Y
NMC513304	SP 359	217073	Y
NMC513305	SP 360	217074	Y
NMC513309	SP 366	217078	Y
NMC513310	SP 367	217079	Y
NMC513311	SP 368	217080	Y
NMC513317	SP 374	217086	Y
NMC513318	SP 375	217087	Y
NMC513319	SP 376	217088	Y
NMC513325	SP 382	217094	Y
NMC679116	SP 4	333643	Y
NMC679117	SP 6	333644	Y
NMC679118	SP 8	333645	Y
NMC679119	SP 10	333646	Y
NMC679120	SP 12	333647	Y
NMC679121	SP 14	333648	Y
NMC679122	SP 16	333649	Y
NMC679123	SP 280	333650	Y
NMC679124	SP 352	333651	Y
NMC679125	SP 353	333652	Y
NMC679126	SP 354	333653	Y
NMC679127	SP 355	333654	Y
NMC679128	SP 356	333655	Y
NMC679129	SP 357	333656	Y
NMC688327	RV 29	343968	Υ

NMC688329 RV 31 343970 Y NMC688331 RV 33 343972 Y NMC688333 RV 33 343974 Y NMC688333 RV 37 343976 Y NMC688337 RV 39 343976 Y NMC688337 RV 39 343978 Y NMC688339 RV 41 343980 Y NMC830749 RD 08 539678 Y NMC830757 RD 16 539686 Y NMC830761 RD 20 539690 Y NMC831839 RD 25 543105 Y NMC831841 RD 27 543107 Y NMC831843 RD 29 543109 Y NMC831844 RD 50 543130 Y NMC831866 RD 52 543132 Y NMC831870 RD 56 543136 Y NMC831887 RD 70 543150 Y NMC831888 RD 71 543151 Y NMC8318		n		
NMC688333 RV 35 343974 Y NMC688335 RV 37 343976 Y NMC688337 RV 39 343978 Y NMC688339 RV 41 343980 Y NMC688339 RV 41 343980 Y NMC830749 RD 08 539678 Y NMC830753 RD 12 639682 Y NMC830757 RD 16 539666 Y NMC830761 RD 20 539690 Y NMC830764 RD 24 539693 Y NMC831839 RD25 543105 Y NMC831841 RD 27 543107 Y NMC831841 RD 25 543130 Y NMC831844 RD 50 543130 Y NMC831866 RD 52 543132 Y NMC831872 RD 58 543138 Y NMC831872 RD 58 543140 Y NMC831874 RD 60 543140 Y NMC83188	NMC688329	RV 31	343970	Y
NMC688335 RV 37 343976 Y NMC688337 RV 39 343978 Y NMC688339 RV 41 343980 Y NMC688339 RV 41 343980 Y NMC830753 RD 12 639682 Y NMC830757 RD 16 539666 Y NMC830761 RD 20 539690 Y NMC830764 RD 24 539693 Y NMC831839 RD25 543105 Y NMC831841 RD 27 543107 Y NMC831841 RD 25 543130 Y NMC831844 RD 50 543130 Y NMC831866 RD 52 543132 Y NMC831870 RD 56 543136 Y NMC831872 RD 58 543138 Y NMC831874 RD 60 543140 Y NMC831883 RD 70 543150 Y NMC831884 RD 70 543150 Y NMC83188	NMC688331	RV 33	343972	Y
NMC688337 RV 39 343978 Y NMC688339 RV 41 343980 Y NMC830749 RD 08 539678 Y NMC830753 RD 12 639682 Y NMC830757 RD 16 539686 Y NMC830761 RD 20 539690 Y NMC830764 RD 24 539693 Y NMC831839 RD25 543105 Y NMC831841 RD 27 543107 Y NMC831843 RD 29 543109 Y NMC831864 RD 50 543130 Y NMC831866 RD 52 543132 Y NMC831870 RD 56 543136 Y NMC831872 RD 58 543138 Y NMC831874 RD 60 543140 Y NMC831883 RD 69 543149 Y NMC831884 RD 70 543150 Y NMC831885 RD 71 543151 Y NMC83188	NMC688333	RV 35	343974	Y
NMC688339 RV 41 343980 Y NMC830749 RD 08 539678 Y NMC830753 RD 12 639682 Y NMC830757 RD 16 539666 Y NMC830761 RD 20 539690 Y NMC830764 RD 24 539693 Y NMC831839 RD25 543105 Y NMC831841 RD 27 543107 Y NMC831843 RD 29 543109 Y NMC831844 RD 50 543130 Y NMC831866 RD 52 543132 Y NMC831868 RD 54 543134 Y NMC831870 RD 56 543136 Y NMC831871 RD 58 543138 Y NMC831872 RD 58 543140 Y NMC831884 RD 70 543150 Y NMC831884 RD 70 543150 Y NMC831885 RD 71 543151 Y NMC83188	NMC688335	RV 37	343976	Y
NMC830749 RD 08 539678 Y NMC830753 RD 12 639682 Y NMC830757 RD 16 539686 Y NMC830761 RD 20 539690 Y NMC830761 RD 24 539693 Y NMC831839 RD25 543105 Y NMC831841 RD 27 543107 Y NMC831843 RD 29 543109 Y NMC831844 RD 50 543130 Y NMC831866 RD 52 543132 Y NMC831868 RD 54 543134 Y NMC831870 RD 56 543136 Y NMC831872 RD 58 543138 Y NMC831874 RD 60 543140 Y NMC831883 RD 69 543140 Y NMC831884 RD 70 543150 Y NMC831885 RD 71 543151 Y NMC831886 RD 72 543153 Y NMC83188	NMC688337	RV 39	343978	Y
NMC830753 RD 12 639682 Y NMC830757 RD 16 539686 Y NMC830761 RD 20 539690 Y NMC830761 RD 24 539693 Y NMC830764 RD 24 539693 Y NMC831839 RD25 543105 Y NMC831841 RD 27 543107 Y NMC831843 RD 29 543109 Y NMC831844 RD 50 543130 Y NMC831866 RD 52 543132 Y NMC831867 RD 56 543136 Y NMC831870 RD 56 543138 Y NMC831872 RD 58 543138 Y NMC831883 RD 69 543140 Y NMC831884 RD 70 543150 Y NMC831885 RD 71 543151 Y NMC831886 RD 72 543152 Y NMC831887 RD 73 543153 Y NMC83188	NMC688339	RV 41	343980	Y
NMC830757 RD 16 539686 Y NMC830761 RD 20 539690 Y NMC830764 RD 24 539693 Y NMC831839 RD25 543105 Y NMC831841 RD 27 543107 Y NMC831843 RD 29 543109 Y NMC831844 RD 50 543130 Y NMC831866 RD 52 543132 Y NMC831866 RD 52 543134 Y NMC831867 RD 56 543136 Y NMC831870 RD 56 543138 Y NMC831871 RD 60 543140 Y NMC831872 RD 58 543150 Y NMC831883 RD 69 543140 Y NMC831884 RD 70 543150 Y NMC831885 RD 71 543151 Y NMC831886 RD 72 543153 Y NMC831887 RD 73 543154 Y NMC83188	NMC830749	RD 08	539678	Y
NMC830761 RD 20 539690 Y NMC830764 RD 24 539693 Y NMC831839 RD25 543105 Y NMC831841 RD 27 543107 Y NMC831843 RD 29 543109 Y NMC831864 RD 50 543130 Y NMC831866 RD 52 543132 Y NMC831868 RD 54 543134 Y NMC831870 RD 56 543136 Y NMC831872 RD 58 543138 Y NMC831883 RD 69 543140 Y NMC831884 RD 70 543150 Y NMC831884 RD 70 543151 Y NMC831885 RD 71 543151 Y NMC831887 RD 73 543153 Y NMC831888 RD 74 543154 Y NMC831889 RD 75 543155 Y NMC831891 RD 77 543157 Y NMC83189	NMC830753	RD 12	639682	Υ
NMC830764 RD 24 539693 Y NMC831839 RD25 543105 Y NMC831841 RD 27 543107 Y NMC831843 RD 29 543109 Y NMC831843 RD 29 543109 Y NMC831864 RD 50 543130 Y NMC831866 RD 52 543132 Y NMC831866 RD 52 543134 Y NMC831866 RD 54 543134 Y NMC831870 RD 56 543136 Y NMC831871 RD 56 543140 Y NMC831887 RD 60 543140 Y NMC831883 RD 69 543150 Y NMC831884 RD 70 543151 Y NMC831886 RD 72 543152 Y NMC831887 RD 73 543153 Y NMC831888 RD 74 543154 Y NMC831889 RD 75 543155 Y NMC83189	NMC830757	RD 16	539686	Y
NMC831839 RD25 543105 Y NMC831841 RD 27 543107 Y NMC831843 RD 29 543109 Y NMC831864 RD 50 543130 Y NMC831866 RD 52 543132 Y NMC831868 RD 54 543134 Y NMC831870 RD 56 543136 Y NMC831872 RD 58 543138 Y NMC831874 RD 60 543140 Y NMC831883 RD 69 543150 Y NMC831884 RD 70 543150 Y NMC831885 RD 71 543151 Y NMC831886 RD 72 543152 Y NMC831887 RD 73 543153 Y NMC831888 RD 74 543154 Y NMC831889 RD 75 543155 Y NMC831890 RD 76 543156 Y NMC831891 RD 77 543157 Y NMC83189	NMC830761	RD 20	539690	Y
NMC831841 RD 27 543107 Y NMC831843 RD 29 543109 Y NMC831864 RD 50 543130 Y NMC831866 RD 52 543132 Y NMC831868 RD 54 543134 Y NMC831870 RD 56 543136 Y NMC831871 RD 56 543138 Y NMC831872 RD 58 543138 Y NMC831871 RD 60 543140 Y NMC831883 RD 69 543140 Y NMC831884 RD 70 543150 Y NMC831885 RD 71 543151 Y NMC831886 RD 72 543152 Y NMC831887 RD 73 543153 Y NMC831889 RD 75 543155 Y NMC831890 RD 76 543156 Y NMC831891 RD 77 543157 Y NMC831893 RD 79 543159 Y NMC8318	NMC830764	RD 24	539693	Y
NMC831843 RD 29 543109 Y NMC831864 RD 50 543130 Y NMC831866 RD 52 543132 Y NMC831868 RD 54 543134 Y NMC831870 RD 56 543136 Y NMC831872 RD 58 543138 Y NMC831872 RD 58 543140 Y NMC831874 RD 60 543140 Y NMC831883 RD 69 543140 Y NMC831884 RD 70 543150 Y NMC831885 RD 71 543151 Y NMC831886 RD 72 543152 Y NMC831887 RD 73 543153 Y NMC831888 RD 74 543154 Y NMC831890 RD 75 543155 Y NMC831891 RD 77 543157 Y NMC831892 RD 78 543158 Y NMC831893 RD 79 543150 Y NMC8318	NMC831839	RD25	543105	Υ
NMC831864 RD 50 543130 Y NMC831866 RD 52 543132 Y NMC831868 RD 54 543134 Y NMC831870 RD 56 543136 Y NMC831870 RD 56 543136 Y NMC831872 RD 58 543138 Y NMC831874 RD 60 543140 Y NMC831883 RD 69 543140 Y NMC831884 RD 70 543150 Y NMC831885 RD 71 543151 Y NMC831886 RD 72 543152 Y NMC831887 RD 73 543153 Y NMC831887 RD 75 543155 Y NMC831890 RD 76 543156 Y NMC831891 RD 77 543157 Y NMC831892 RD 78 543158 Y NMC831893 RD 79 543159 Y NMC831894 RD 80 543160 Y NMC8318	NMC831841	RD 27	543107	Υ
NMC831866 RD 52 543132 Y NMC831868 RD 54 543134 Y NMC831870 RD 56 543136 Y NMC831870 RD 56 543138 Y NMC831872 RD 58 543138 Y NMC831874 RD 60 543140 Y NMC831883 RD 69 543149 Y NMC831884 RD 70 543150 Y NMC831885 RD 71 543151 Y NMC831886 RD 72 543153 Y NMC831887 RD 73 543153 Y NMC831888 RD 74 543154 Y NMC831889 RD 75 543155 Y NMC831890 RD 76 543156 Y NMC831891 RD 77 543157 Y NMC831892 RD 78 543159 Y NMC831893 RD 79 543159 Y NMC831894 RD 80 543160 Y NMC8318	NMC831843	RD 29	543109	Υ
NMC831868 RD 54 543134 Y NMC831870 RD 56 543136 Y NMC831872 RD 58 543138 Y NMC831872 RD 60 543140 Y NMC831874 RD 60 543140 Y NMC831883 RD 69 543149 Y NMC831884 RD 70 543150 Y NMC831885 RD 71 543151 Y NMC831886 RD 72 543152 Y NMC831886 RD 72 543153 Y NMC831887 RD 73 543154 Y NMC831887 RD 75 543155 Y NMC831889 RD 76 543156 Y NMC831891 RD 77 543157 Y NMC831892 RD 78 543159 Y NMC831893 RD 79 543159 Y NMC831894 RD 80 543160 Y NMC831895 RD 81 543161 Y NMC8318	NMC831864	RD 50	543130	Υ
NMC831870 RD 56 543136 Y NMC831872 RD 58 543138 Y NMC831874 RD 60 543140 Y NMC831883 RD 69 543149 Y NMC831883 RD 69 543149 Y NMC831883 RD 70 543150 Y NMC831884 RD 70 543151 Y NMC831885 RD 71 543151 Y NMC831886 RD 72 543152 Y NMC831887 RD 73 543153 Y NMC831887 RD 73 543154 Y NMC831889 RD 75 543155 Y NMC831890 RD 76 543156 Y NMC831891 RD 77 543157 Y NMC831892 RD 78 543159 Y NMC831893 RD 79 543159 Y NMC831894 RD 80 543160 Y NMC831895 RD 81 543161 Y NMC8318	NMC831866	RD 52	543132	Υ
NMC831872 RD 58 543138 Y NMC831874 RD 60 543140 Y NMC831883 RD 69 543149 Y NMC831884 RD 70 543150 Y NMC831885 RD 71 543151 Y NMC831886 RD 72 543152 Y NMC831886 RD 72 543153 Y NMC831886 RD 72 543154 Y NMC831887 RD 73 543155 Y NMC831887 RD 75 543155 Y NMC831889 RD 75 543156 Y NMC831890 RD 76 543157 Y NMC831891 RD 77 543157 Y NMC831892 RD 78 543158 Y NMC831893 RD 79 543150 Y NMC831894 RD 80 543160 Y NMC831895 RD 81 543161 Y NMC831896 RD 82 543162 Y NMC8318	NMC831868	RD 54	543134	Υ
NMC831874 RD 60 543140 Y NMC831883 RD 69 543149 Y NMC831883 RD 70 543150 Y NMC831884 RD 70 543151 Y NMC831885 RD 71 543151 Y NMC831886 RD 72 543152 Y NMC831886 RD 72 543153 Y NMC831887 RD 73 543153 Y NMC831887 RD 73 543154 Y NMC831887 RD 75 543155 Y NMC831889 RD 76 543156 Y NMC831890 RD 76 543157 Y NMC831891 RD 77 543157 Y NMC831892 RD 78 543158 Y NMC831893 RD 79 543150 Y NMC831894 RD 80 543160 Y NMC831895 RD 81 543161 Y NMC831896 RD 82 543162 Y NMC8318	NMC831870	RD 56	543136	Υ
NMC831883 RD 69 543149 Y NMC831884 RD 70 543150 Y NMC831884 RD 71 543151 Y NMC831885 RD 71 543151 Y NMC831886 RD 72 543152 Y NMC831886 RD 72 543153 Y NMC831887 RD 73 543154 Y NMC831887 RD 75 543155 Y NMC831889 RD 75 543155 Y NMC831890 RD 76 543156 Y NMC831891 RD 77 543157 Y NMC831891 RD 79 543159 Y NMC831892 RD 78 543160 Y NMC831893 RD 79 543160 Y NMC831894 RD 80 543160 Y NMC831895 RD 81 543161 Y NMC831896 RD 82 543162 Y NMC831897 RD 83 543163 Y NMC8318	NMC831872	RD 58	543138	Y
NMC831884 RD 70 543150 Y NMC831885 RD 71 543151 Y NMC831885 RD 72 543152 Y NMC831886 RD 72 543153 Y NMC831887 RD 73 543153 Y NMC831887 RD 73 543154 Y NMC831888 RD 74 543154 Y NMC831889 RD 75 543155 Y NMC831890 RD 76 543156 Y NMC831891 RD 77 543157 Y NMC831892 RD 78 543158 Y NMC831893 RD 79 543159 Y NMC831893 RD 79 543160 Y NMC831894 RD 80 543160 Y NMC831895 RD 81 543161 Y NMC831896 RD 82 543162 Y NMC831897 RD 83 543163 Y NMC831898 RD 84 543164 Y NMC8351	NMC831874	RD 60	543140	Υ
NMC831885 RD 71 543151 Y NMC831886 RD 72 543152 Y NMC831887 RD 73 543153 Y NMC831887 RD 73 543153 Y NMC831887 RD 73 543153 Y NMC831888 RD 74 543154 Y NMC831889 RD 75 543155 Y NMC831890 RD 76 543156 Y NMC831891 RD 77 543157 Y NMC831892 RD 78 543158 Y NMC831892 RD 79 543159 Y NMC831893 RD 79 543160 Y NMC831894 RD 80 543160 Y NMC831895 RD 81 543161 Y NMC831896 RD 82 543162 Y NMC831897 RD 83 543163 Y NMC831898 RD 84 543164 Y NMC835175 MWAY 67 546906 N NMC83	NMC831883	RD 69	543149	Υ
NMC831886 RD 72 543152 Y NMC831887 RD 73 543153 Y NMC831887 RD 73 543154 Y NMC831888 RD 74 543154 Y NMC831889 RD 75 543155 Y NMC831890 RD 76 543156 Y NMC831891 RD 77 543157 Y NMC831892 RD 78 543158 Y NMC831892 RD 78 543159 Y NMC831892 RD 79 543159 Y NMC831893 RD 79 543160 Y NMC831894 RD 80 543160 Y NMC831895 RD 81 543161 Y NMC831896 RD 82 543162 Y NMC831897 RD 83 543163 Y NMC831898 RD 84 543164 Y NMC835175 MWAY 67 546906 N NMC835176 MWAY 68 546907 N NMC	NMC831884	RD 70	543150	Υ
NMC831887 RD 73 543153 Y NMC831888 RD 74 543154 Y NMC831889 RD 75 543155 Y NMC831890 RD 76 543156 Y NMC831890 RD 76 543157 Y NMC831891 RD 77 543157 Y NMC831892 RD 78 543158 Y NMC831893 RD 79 543159 Y NMC831893 RD 79 543160 Y NMC831894 RD 80 543160 Y NMC831895 RD 81 543161 Y NMC831896 RD 82 543162 Y NMC831897 RD 83 543163 Y NMC831898 RD 84 543164 Y NMC835175 MWAY 67 546906 N NMC835176 MWAY 68 546907 N NMC835225 MWAY 117 546956 N NMC835226 MWAY 118 546957 N <	NMC831885	RD 71	543151	Y
NMC831888 RD 74 543154 Y NMC831889 RD 75 543155 Y NMC831890 RD 76 543156 Y NMC831890 RD 76 543156 Y NMC831891 RD 77 543157 Y NMC831892 RD 78 543158 Y NMC831892 RD 79 543159 Y NMC831893 RD 79 543160 Y NMC831894 RD 80 543160 Y NMC831895 RD 81 543161 Y NMC831896 RD 82 543162 Y NMC831897 RD 83 543163 Y NMC831897 RD 83 543164 Y NMC835175 MWAY 67 546906 N NMC835176 MWAY 68 546907 N NMC835225 MWAY 117 546956 N NMC835226 MWAY 118 546957 N NMC835225 MWAY 147 546986 N	NMC831886	RD 72	543152	Υ
NMC831889 RD 75 543155 Y NMC831890 RD 76 543156 Y NMC831891 RD 77 543157 Y NMC831892 RD 78 543158 Y NMC831892 RD 79 543159 Y NMC831893 RD 79 543160 Y NMC831894 RD 80 543160 Y NMC831895 RD 81 543161 Y NMC831896 RD 82 543162 Y NMC831897 RD 83 543163 Y NMC831897 RD 84 543164 Y NMC835175 MWAY 67 546906 N NMC835176 MWAY 68 546907 N NMC835226 MWAY 117 546956 N NMC835227 MWAY 118 546957 N NMC835255 MWAY 147 546986 N	NMC831887	RD 73	543153	Υ
NMC831890 RD 76 543156 Y NMC831891 RD 77 543157 Y NMC831892 RD 78 543158 Y NMC831892 RD 79 543159 Y NMC831893 RD 79 543150 Y NMC831893 RD 79 543160 Y NMC831894 RD 80 543160 Y NMC831895 RD 81 543161 Y NMC831896 RD 82 543162 Y NMC831897 RD 83 543163 Y NMC831898 RD 84 543164 Y NMC835175 MWAY 67 546906 N NMC835176 MWAY 68 546907 N NMC835225 MWAY 117 546956 N NMC835226 MWAY 118 546957 N NMC835227 MWAY 147 546986 N	NMC831888	RD 74	543154	Υ
NMC831891 RD 77 543157 Y NMC831892 RD 78 543158 Y NMC831893 RD 79 543159 Y NMC831893 RD 79 543159 Y NMC831893 RD 79 543160 Y NMC831894 RD 80 543160 Y NMC831895 RD 81 543161 Y NMC831896 RD 82 543162 Y NMC831897 RD 83 543163 Y NMC831897 RD 84 543164 Y NMC831898 RD 84 546906 N NMC835175 MWAY 67 546906 N NMC835176 MWAY 68 546907 N NMC835225 MWAY 117 546956 N NMC835226 MWAY 118 546957 N NMC835227 MWAY 147 546986 N	NMC831889	RD 75	543155	Υ
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NMC831893 RD 79 543159 Y NMC831894 RD 80 543160 Y NMC831895 RD 81 543161 Y NMC831896 RD 82 543162 Y NMC831897 RD 83 543163 Y NMC831897 RD 84 543164 Y NMC831898 RD 84 543164 Y NMC835175 MWAY 67 546906 N NMC835176 MWAY 68 546907 N NMC835225 MWAY 117 546956 N NMC835226 MWAY 118 546957 N NMC835227 MWAY 119 546958 N NMC835255 MWAY 147 546986 N	NMC831891	RD 77	543157	Y
NMC831894 RD 80 543160 Y NMC831895 RD 81 543161 Y NMC831896 RD 82 543162 Y NMC831896 RD 82 543163 Y NMC831897 RD 83 543163 Y NMC831898 RD 84 543164 Y NMC835175 MWAY 67 546906 N NMC835176 MWAY 68 546907 N NMC835225 MWAY 117 546956 N NMC835226 MWAY 118 546957 N NMC835227 MWAY 119 546958 N NMC835255 MWAY 147 546986 N	NMC831892	RD 78	543158	Υ
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NMC831897 RD 83 543163 Y NMC831898 RD 84 543164 Y NMC835175 MWAY 67 546906 N NMC835176 MWAY 68 546907 N NMC835225 MWAY 117 546956 N NMC835226 MWAY 118 546957 N NMC835227 MWAY 119 546958 N NMC835255 MWAY 147 546986 N	NMC831895	RD 81	543161	Υ
NMC831898 RD 84 543164 Y NMC835175 MWAY 67 546906 N NMC835176 MWAY 68 546907 N NMC835225 MWAY 117 546956 N NMC835226 MWAY 118 546957 N NMC835227 MWAY 119 546958 N NMC835255 MWAY 147 546986 N	NMC831896	RD 82	543162	Υ
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NMC835176 MWAY 68 546907 N NMC835225 MWAY 117 546956 N NMC835226 MWAY 118 546957 N NMC835227 MWAY 119 546958 N NMC835255 MWAY 147 546986 N	NMC831898	RD 84	543164	Υ
NMC835225 MWAY 117 546956 N NMC835226 MWAY 118 546957 N NMC835227 MWAY 119 546958 N NMC835255 MWAY 147 546986 N	NMC835175	MWAY 67	546906	Ν
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	NMC835227	MWAY 119	546958	Ν
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NMC838250 WAY 23 549298 N NMC838251 WAY 24 549299 N NMC838252 WAY 25 549300 N NMC838252 WAY 26 549301 N NMC838253 WAY 26 549301 N NMC838254 WAY 27 549302 N NMC838255 WAY 28 549303 N NMC838256 WAY 29 549304 N NMC838256 WAY 29 549304 N NMC845408 MWAY 649 559669 N NMC845410 MWAY 651 559671 N NMC845412 MWAY 653 559673 N NMC845414 MWAY 655 559675 N NMC984613 RD 85 706200 Y NMC984614 RD 86 706179 Y NMC984615 RD 87 706180 Y NMC984616 RD 88 706181 Y NMC984617 RD 89 706182 Y <tr< td=""><td>NMC838248</td><td>WAY 21</td><td>549296</td><td>N</td></tr<>	NMC838248	WAY 21	549296	N
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NMC838252 WAY 25 549300 N NMC838253 WAY 26 549301 N NMC838253 WAY 26 549302 N NMC838254 WAY 27 549302 N NMC838255 WAY 28 549303 N NMC838256 WAY 29 549304 N NMC845408 MWAY 649 559669 N NMC845410 MWAY 651 559671 N NMC845412 MWAY 653 559673 N NMC845414 MWAY 655 559675 N NMC984613 RD 85 706200 Y NMC984614 RD 86 706179 Y NMC984615 RD 87 706180 Y NMC984616 RD 88 706181 Y NMC984617 RD 89 706182 Y NMC984618 RD 90 706183 Y	NMC838250	WAY 23	549298	N
NMC838253 WAY 26 549301 N NMC838254 WAY 27 549302 N NMC838255 WAY 28 549303 N NMC838256 WAY 29 549304 N NMC845408 MWAY 649 559669 N NMC845410 MWAY 651 559671 N NMC845412 MWAY 653 559673 N NMC845414 MWAY 655 559675 N NMC984613 RD 85 706200 Y NMC984614 RD 86 706179 Y NMC984615 RD 87 706180 Y NMC984616 RD 88 706181 Y NMC984617 RD 89 706182 Y NMC984618 RD 90 706183 Y	NMC838251	WAY 24	549299	N
NMC838254 WAY 27 549302 N NMC838255 WAY 28 549303 N NMC838256 WAY 29 549304 N NMC838256 WAY 29 549304 N NMC845408 MWAY 649 559669 N NMC845410 MWAY 651 559671 N NMC845412 MWAY 653 559673 N NMC845414 MWAY 655 559675 N NMC984613 RD 85 706200 Y NMC984614 RD 86 706179 Y NMC984615 RD 87 706180 Y NMC984616 RD 88 706181 Y NMC984617 RD 89 706182 Y NMC984618 RD 90 706183 Y	NMC838252	WAY 25	549300	N
NMC838255 WAY 28 549303 N NMC838256 WAY 29 549304 N NMC845408 MWAY 649 559669 N NMC845410 MWAY 651 559671 N NMC845412 MWAY 653 559673 N NMC845414 MWAY 655 559675 N NMC984613 RD 85 706200 Y NMC984614 RD 86 706179 Y NMC984615 RD 87 706180 Y NMC984616 RD 88 706181 Y NMC984617 RD 89 706182 Y NMC984618 RD 90 706183 Y	NMC838253	WAY 26	549301	Ν
NMC838256 WAY 29 549304 N NMC845408 MWAY 649 559669 N NMC845410 MWAY 651 559671 N NMC845412 MWAY 653 559673 N NMC845414 MWAY 655 559675 N NMC984613 RD 85 706200 Y NMC984614 RD 86 706179 Y NMC984615 RD 87 706180 Y NMC984616 RD 88 706181 Y NMC984617 RD 89 706182 Y NMC984618 RD 90 706183 Y	NMC838254	WAY 27	549302	N
NMC845408 MWAY 649 559669 N NMC845410 MWAY 651 559671 N NMC845412 MWAY 653 559673 N NMC845414 MWAY 655 559675 N NMC984613 RD 85 706200 Y NMC984614 RD 86 706179 Y NMC984615 RD 87 706180 Y NMC984616 RD 88 706181 Y NMC984617 RD 89 706182 Y NMC984618 RD 90 706183 Y	NMC838255	WAY 28	549303	N
NMC845410 MWAY 651 559671 N NMC845412 MWAY 653 559673 N NMC845414 MWAY 655 559675 N NMC984613 RD 85 706200 Y NMC984614 RD 86 706179 Y NMC984615 RD 87 706180 Y NMC984616 RD 88 706181 Y NMC984617 RD 89 706182 Y NMC984618 RD 90 706183 Y	NMC838256	WAY 29	549304	N
NMC845412 MWAY 653 559673 N NMC845414 MWAY 655 559675 N NMC984613 RD 85 706200 Y NMC984614 RD 86 706179 Y NMC984615 RD 87 706180 Y NMC984616 RD 88 706181 Y NMC984617 RD 89 706182 Y NMC984618 RD 90 706183 Y	NMC845408	MWAY 649	559669	Ν
NMC845414 MWAY 655 559675 N NMC984613 RD 85 706200 Y NMC984614 RD 86 706179 Y NMC984615 RD 87 706180 Y NMC984616 RD 88 706181 Y NMC984617 RD 89 706182 Y NMC984618 RD 90 706183 Y	NMC845410	MWAY 651	559671	Ν
NMC845414 MWAY 655 559675 N NMC984613 RD 85 706200 Y NMC984614 RD 86 706179 Y NMC984615 RD 87 706180 Y NMC984616 RD 88 706181 Y NMC984617 RD 89 706182 Y NMC984618 RD 90 706183 Y	NMC845412	MWAY 653	559673	Ν
NMC984614 RD 86 706179 Y NMC984615 RD 87 706180 Y NMC984616 RD 88 706181 Y NMC984617 RD 89 706182 Y NMC984618 RD 90 706183 Y	NMC845414			Ν
NMC984615 RD 87 706180 Y NMC984616 RD 88 706181 Y NMC984617 RD 89 706182 Y NMC984618 RD 90 706183 Y	NMC984613	RD 85	706200	Y
NMC984615 RD 87 706180 Y NMC984616 RD 88 706181 Y NMC984617 RD 89 706182 Y NMC984618 RD 90 706183 Y	NMC984614	RD 86	706179	Y
NMC984616 RD 88 706181 Y NMC984617 RD 89 706182 Y NMC984618 RD 90 706183 Y	NMC984615		706180	Y
NMC984617 RD 89 706182 Y NMC984618 RD 90 706183 Y	NMC984616	RD 88		Y
NMC984618 RD 90 706183 Y				Y
				Y
NMC984619 RD 91 706184 Y	NMC984619	RD 91	706184	Y

NMC984620	RD 92	706185	Y
NMC984621	RD 93	706186	Υ
NMC984622	RD 94	706187	Υ
NMC984623	RD 95	706188	Y
NMC984624	RD 96	706189	Y
NMC984625	RD 97	706190	Y
NMC984626	RD 98	706191	Y
NMC984627	RD 99	706192	Y
NMC984628	RD 100	706193	Y
NMC984629	RD 103	706196	Y
NMC984630	RD 104	706197	Y
NMC984631	RD 101	706194	Y
NMC984632	RD 102	706195	Y
NMC984633	RD 105	706198	Y
NMC984634	RD 106	706199	Y
NV105247755	TG 1	959052	
NV105247756	TG2	959053	
NV105247757	TG 3	959054	
NV105247758	TG 4	959055	
NV105247759	TG 5	959056	
NV105247760	TG 6	959057	
NV105247761	TG 7	959058	
NV105247762	TG 8	959059	
NV105247763	TG 9	959060	
NV105247764	TG 10	959061	
NV105247765	TG 11	959062	
NV105247766	TG 12	959063	
NV105247767	TG 13	959064	
NV105247768	TG 14	959065	
NV105247769	TG 15	959066	
NV105247770	TG16	959067	
NV105247771	TG 17	959068	
NV105247772	TG 18	959069	
NV105247773	TG 19	959070	
NV105247774	TG 20	959071	
NV105247775	TG 21	959072	
NV105247776	TG 22	959073	
NV105247777	TG 23	959074	
NV105247778	TG 24	959075	
NV105247779	TG 25	959076	
NV105247780	TG 26	959077	
NV105247781	TG 27	959078	
NV105247782	TG 28	959079	

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NV105247783	TG 29	959080
NV105247784	TG 30	959081
NV105247785	TG 31	959082
NV105247786	TG 32	959083
NV105247787	TG 33	959084
NV105247788	TG 34	959085
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NV105247803	TG 49	959100
NV105247804	TG 50	959101
NV105247805	TG 51	959102
NV105247806	TG 52	959103
NV105247807	TG 53	959104
NV105247808	TG 54	959105
NV105247809	TG 55	959106
NV105247810	TG 56	959107
NV105247811	TG 57	959108
NV105247812	TG 58	959109
NV105247813	TG 59	959110
NV105247814	TG 60	959111
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NV105247818	TG 64	959115
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NV105247820	TG 66	959117
NV105247821	TG 67	959118
NV105247822	TG 68	959119
NV105247823	TG 69	959120