We have initiated Climate Action in Ecuador’s Portovelo-Zaruma mining district with a proposal to APROPLASMIN* Members with whom we are in advanced discussions to execute a Joint Venture Agreement to convert one of their 87 whole ore mercury amalgamation Chilean processing centers to a mercury free center.

We proposed the use of bitter cassava plant extract “manipueira” as a lixiviant Scientifically documented to leach more gold from ore than by using mercury amalgamation and proven in 2020 by Newlox Gold Ventures Corp. from their 80 tonnes per day (t.p.d.) operating tailings processing center in Costa Rica to safely and sustainably recover more gold and faster than by cyanidation using toxic cyanide salts.

Conversion of the center will eliminate the monthly use of 2.2 kg of deadly neurotoxin mercury in ore processing, 2 tonnes of cyanide salts used in remediating tailings thereby mitigating further human and child in utero health threats and biodiversity destruction from that center, and one center at a time.

This fall we will announce our Climate Action Initial DEX Offering (IDO) seeking to raise 467* Ethereum (ETH) aggregating $USD 1.5 million fiat equivalent Impact Investment Capital to implement our Tailings Remediation Action Plan (TRAP).

We proposed to implement the TRAP in Zaruma, one of Ecuador’s 5 UNESCO World Heritage Sites and the world’s pinnacle source of deadly toxic mercury polluting our biosphere, the Amazon rivers, its riverbanks, and emptying into the Pacific Ocean poisoning the fish you consume.

We plan to prototype a 60 t.p.d. state of the art mercury free ore and tailings processing center equipped with innovative technologies and using manipueira to leach gold from ore and tailings to profit proudly from sustainably reclaimed tailings gold, a globally wasted commodity.

We are conducting a Climate Action pre-Token Sale Event (T.S.E.) seeking 46.7 ETH aggregating $USD 150,000 fiat equivalent Impact Investment Capital with an early participant 20% token bonus.

We will consider equity participation paying dividends.

*Asociación de Propietarios de Plantas de Beneficio Mineral (Association of Owners of Plants of Ore Reduction, Smelting and Refining of Mineral Substances of El Oro Province in Portovelo-Zaruma)

August 25, 2021; 1 ETH = $USD 3,214

Presented by Alchemy Mining Group, Inc. (AMGI), Innovation Provider to #MakeMercuryHistory in ASG miner’s ore processing

Authors: Bruce A. Cosgrove, B.Sc., M.Sc., (Solution Chemistry)
Alexandra D.F. Cosgrove, B. Com.
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<th>Page</th>
<th>Description</th>
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<td>Bitter Cassava 60 Tons/Day Pilot Plant Prototype Budget</td>
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<td>P.  9-10</td>
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</table>

Our Innovation supports [OECD Due Diligence](https://www.oecd.org) Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas (CAHRA’s)
In November 2020, Marcello M. Veiga Ph.D. et al, published an Article “Gravity Concentration in Artisanal Gold Mining” in which they determined that a 200 t.p.d. plant operating only with centrifuge + cyanidation will cost around USD$ 3.5 million with an operating cost of 64 US$ tonnes per annum (t.p.a.) considering 300 days per year of operation.

If flotation is introduced to recover gold from the gravity circuit tailings, the investment required rises to close to US$ 4 million with an operating cost of 66 US$/t.p.a. This equates to ~ $USD 1.2 million for a 60 t.p.d. facility if scaled down proportionately.

Newlox Gold Ventures Corp. 2021 Costa Rica bitter cassava plant is processes 80 tonnes per day of tailings feedstock at full-scale operation projected to yield approximately 6,500 ounces of gold per year.

The capital cost of each processing facility is designed to be constructed for roughly US$1.5 Million in CAPEX and will take 3 to 6 months to commission.

Extensive R&D work was completed at UBC during the primary process design and subsequent optimization processes. At the conclusion of the second round of R&D, Newlox Gold’s technical advisors had surpassed their goal of delivering 90% recovery and presented the Company with robust implementation plan. The result was a custom-built reclamation technique, which is designed specifically to address the environmental and metallurgical qualities of the reclamation material identified.
March 20, 2018, we issued and listed for trading 7.14 Million (8 decimals) AlchemyLGCoin (Trading Symbol) Climate Action utility tokens on the decentralized Waves.Exchange (DEX) open blockchain platform seeking Impact Investment Capital.

This fall 2021, we will announce our Climate Action Initial DEX Offering (IDO) seeking $USD 1.5 million fiat equivalent Impact Investment Capital to implement our Tailings Remediation Action Plan (TRAP).

We plan to begin the process to eliminate mercury and cyanide salts used by ASG miners in Zaruma with the conversion of one Chilean processing center to manipueira processing to demonstrate how much more gold can safely and sustainably be recovered for greater profit.

Currently we are conducting a pre-Token Sale Event (T.S.E.) distributing** 500,000 AlchemyLGCoin© Climate Action utility tokens seeking 46.7 ETH aggregating $USD 150,000 fiat equivalent Impact Investment Capital. Early participants receive a 20% token bonus.

The Capital will cover Ecuadorian legal costs to draft and register various Agreements to operate legally in Ecuador including, various consulting and JV Agreements, principles due diligence costs including company P. Geologist and advisor site visits, travel and accommodation expenses, and equipment purchases.

The distribution price is .00000933 ETH per 1 (one) AlchemyLGCoin© Climate Action utility token equating to $USD 0.30 fiat equivalent.

AlchemyLGCoin© digital coins are the world’s 1st Climate Action utility tokens and are exchangeable for an aggregate of 1,000 Limited Edition artisanally crafted Climate Action one-ounce sustainably reclaimed tailings gold coins (95% 22k) during our Token To Gold exchange program 18 (eighteen) months post funding.

The purchase price for each Climate Action tailings gold coin is the London Metal Exchange (L.M.E.) one-ounce (99.99%) benchmark pricing discounted 15% on each day coins are purchased. This will transact through an ERC 20 Smart Contract on the Waves.Exchange.

The number of Climate Action utility tokens to be exchanged for one Climate Action tailings gold coin is the price of the utility token times the number of tokens to equal the L.M.E. one-ounce (99.99%) benchmark pricing discounted 15% on each day coins are purchased. This will transact through an ERC 20 Smart Contract on the Waves.Exchange.

*August 25, 2021; 1 ETH = $USD 3,214
**You must own a Waves.Exchange Wallet to receive, buy or trade AlchemyLGCoin utility tokens.
A Joint Venture with an APROPLASMIN Member mine owner guarantees a consistent supply of ore which when processed, will be documented in accordance with the January 01, 2021, **OECD Due Diligence Guidance** for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas (CAHRA’s).

This qualifies our smelted gold for refining in Swiss Refineries in Peru introduced through **Solidaridad**, and for direct sales in Europe for refining eliminating bad actor brokers while providing a higher and fair selling price.

Each **Chilean processing facility** contains 3 tailings ponds with a capacity ranging from 2,295 – 59,400 tons. The **reported average gold content** of the Portovelo-Zaruma geology is 20.2 gms./ton for the Vizkaya vein (0.08 gms./ton – 175 gms./ton), and 25.3 gms./ton up to 70 gms./ton for the Nikol vein.

Seventy (70%) percent of this gold is lost to tailings during processing.

Each facility produces 5.7 – 6.7 kgs. of gold/month with an average total operating cost of ~ $USD 80K – 84K per month employing 20 – 25 workers per plant.

<table>
<thead>
<tr>
<th>Tailings Pond Volume (m3)</th>
<th>*Tailings Pond Weight (tons)</th>
<th>5 gms./ton estimated Au content (gms)</th>
<th>5-gms./ton estimated Au Content (oz)</th>
<th>**Tailings Pond Value ($USD)</th>
<th>10-gms./ton estimated Au content (gms)</th>
<th>10 gms./ton Au content (oz)</th>
<th>Tailings Pond Value ($USD)</th>
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<tbody>
<tr>
<td>Pond I</td>
<td>850</td>
<td>2,295</td>
<td>11,475</td>
<td>410</td>
<td>819,643</td>
<td>22,950</td>
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<td>Pond II</td>
<td>22,000</td>
<td>59,400</td>
<td>297,000</td>
<td>10,607</td>
<td>21,214,286</td>
<td>594,000</td>
<td>21,214</td>
</tr>
</tbody>
</table>

*Tailings Solids Density ($S$) 2.7 (tons/m3) (specific gravity of solids multiplied by the density of water)

**Au/oz ($USD) = 2,000
In 2013 the construction of the El Tablón Communities Tailings Facility (CTF) mandated in 2003 was initiated by the provincial Government of El Oro. The estimated 20 years lifetime of El Tablón anticipated receiving an estimated 900,000 tonnes of tailings per annum from most of the processing plants in the region.

A February 2015 Article published in the Journal of Applied Science reports “the original site selected to construct the dam dike was susceptible to land sliding and an alternative construction site was suggested.” No further activity has occurred since discovering the CTF was built on a fault and the tailings continues to accumulate in unmanageable tailings ponds and being discharged into the Calera and Amarillo rivers.

There are ~10,000 local ASG miners who along with 40,000 ASG miners from the western Azuay province Ponce-Enriquez areas and neighboring mining districts transport their ore and tailings for processing or sale in the Portovelo-Zaruma mining district.

Typically, 4 – 5 informal ASG miners transport 40 tonnes of ore. The ore is crushed to a homogeneous mixture of < 1.4 inches in size. Three equal samples are taken with 1/3 to the miner for analyses at local labs, 1/3 for our analysis, and 1/3 in secure storage in the event of a dispute.

Upon agreement of grade, the miners are paid immediately at a premium to the 30% of the gold value they normally receive from processing which is a win situation for both Parties saving the miners 5, 24-hour days of processing.

A bonus of leaching the ore and tailings using bitter cassava extract containing free cyanide (HCN\textsubscript{(ag)} CN\textsuperscript{-}) which extracts the gold, is consumed leaving no CN in the tailings.
Did you know the Tuna caught in the Pacific Ocean contains deadly neurotoxin mercury discharged from 87 operating Chilean gold ore and tailings processing centers located 1,200 meters up in the Amazon Andes?

According to Adriana Gonçalves et al. 2015 publication, these 87 centers are lined up along one square mile on the Calera and Amarillo riverbanks and are collectively responsible for the annual discharge of 1.9 million tonnes of toxic heavy metals acidic tailings waste surface sludge directly into the Calera and Amarillo rivers.

This toxic pollutant is laden with mercury, toxic cyanide, mercury-cyanide complexes, lead, and other heavy metal compounds zig-zagging throughout the Amazon rivers contaminating the shore-lines to empty into the Pacific Ocean poisoning the fish you consume.

This has resulted in an internationally supported law-suite against Ecuador for decades of ongoing human health threats, loss of drinking water, loss of terrestrial and aquatic species, and biodiversity destruction with damages estimated at $USD 35 Billion.

Artisanal and small-scale gold (ASG) miner’s ore processing is the Planet’s largest anthropogenic source of mercury pollution documented by the University of Oxford earth scientist in 2021 to stay airborne up to one year.

TAILINGS DISCHARGE POLLUTES THE CALERA RIVER WATERS – ON THE OTHER SIDE OF THE BORDER (PERU) THE CONSEQUENCES ARE SUFFERING (7.06 sec.)

December 17, 2020, UK Super Rock Star @robbiewilliams reported he ‘almost died’ from mercury poisoning over seafood habit.

Mercury in your body - A threat to your health (0:59 Sec.)

The agony of the Puyango-Tumbes river and a stalled binational project

A Call to Action for Impact Investors, Gold Investors, Environmentalists, and Donors
July 26, 2021, we filed with BC Registry Services Alchemy Mining Group, Inc. (“AMGI”) incorporation documents. We are two Directors and have unlimited authorized Capital with 21 million Issued and Outstanding (I & O) common shares without par value. We have ceased operations in Alchemy Mining Group, Inc., our June 30, 2015, Nevada incorporated company.

We are allocating 3% of Net Proceeds from operations to develop a mercury detoxification program and facility for all the Portovelo-Zaruma mining district residents.

Click to open a Waves.Exchange Wallet. Learn how to trade on Waves to purchase or receive AlchemyLGCoin© #ClimateAction utility tokens.

You can only purchase tokens on the Waves.Exchange in trading pairs.

We only accept AlchemyLGCoin/ETH, AlchemyLGCoin/Waves, and AlchemyLGCoin/BTC trading pairs.

The 1st 500,000 ($USD 150,000 fiat equivalent) AlchemyLGCoin© Climate Action utility token purchasers receive a 20% token bonus.

You must purchase a minimum of 3,500 ($USD 1,000 fiat equivalent) Climate Action utility tokens to qualify.

Corporate Site: Alchemy Mining Group, Inc., (“AMGI”)

*August 25, 2021; 1 ETH = $USD 3,214
Bitter cassava plant extract to leach tailings and ore will eliminate the use of mercury in Chancha barrel processing to sustainably recover more gold.
Our TRAP Innovation to eliminate mercury use in ore and tailings processing employs the use of bitter cassava plant extract as a lixiviant.

Using cassava was an idea developed by Marcello Veiga Ph.D. Professor Emeritus University of British Columbia Norman B. Kevil Institute of Mining Engineering (whom I quote throughout this description) who along with Pariya Torkaman, conceived and coordinated the experiments combining conventional mechanical processes using gravity and centrifugal force to capture fine gold (“Au”) concentrate after milling, or from tailings ponds waste.

This data is detailed in their Publication “Leaching gold with cassava: An option to eliminate mercury use in artisanal gold mining”,

The use of cassava is proven and scientifically documented to recover more gold safely and sustainably than mercury amalgamation.

Bitter cassava, a cyanogenic plant is common in many Latin America ASG mining areas and is used to manufacture flour “manipueira” and make tapioca which in Brazil, is used to make beer.

“Bitter cassava has been sustaining millions of people in the world who produce flour”.

According to P. Torkaman et al, when crushed “the cassava plant liquid extract contains hydrogen cyanide (HCN) generated from the hydrolysis of non-toxic cyanogenic glycosides which are substances intrinsically”. “These plants do not contain cyanide, but they generate it as a defense mechanism to intruders”.

“The free CN expelled liquid from the bitter cassava plant represents 30 – 40% of the root weight representing 267 milligrams of free CN per liter of extract. The indigenous name for this fluid is “manipueira” in Brazil which is recklessly disposed of on the ground around the mills, and when fermented, creates a nasty odor, and attracts insects.”

“Flour mills face a serious problem of disposing large amounts of “manipueira” (300 liters/tonne of the root)”

“The symbiosis of artisanal flour producers with artisanal gold miners can be a win-win solution to reduce pollution from both sides.”
Bitter- Cassava Plant Extract Leaching Process Overview

Crushed ore / Tailings enters 3 coupled Chilean mills

Whole ore/ “las ollas” enters Chancha barrels for processing.

Operating capacity 1.5 tons/hr. 65% solids.
Slurry discharged through 0.5 mm mesh too Icon 150 centrifuge

Operating capacity 2 tons/hr. Up to 1.5G’s. 30% solids
Recovers fine gold down to 400 mesh (37 microns).
Remove concentrate every 30 – 60 mins.

Operating capacity 150 – 200 Kg. Adjust pH = 10.5
Rotate 3 – 6 hrs. Add bitter cassava extract. 20%
Solid/Liquid
Slurry transferred too Geminin Shaker Table

ICoN 150 Centrifuge How To Use (5:14 Sec.)

Concentrate transferred too Gemini Table

Tailings transferred too Hydrocyclone

Gemini concentrate too direct smelting
The Gemeni table has been specifically designed for the recovery of fine gold to directly smelttable gold containing silver. Gemini GT 1000 operating capacity up to 1/2 ton/hr.

Gemini tailings too soft flotation

Hydrocyclone is a continuous device that utilizes centrifugal force to accelerate the settling rate of particles

Recover the Most Gold with the Least Effort
Production Smelting Techniques (6:48 Sec.)

Slag to processing
Icon 150 tailings transferred too Hydrocyclone

The next generation in hydrocyclone technology (2:12 Sec.)

Gemini tailings transferred too froth flotation

Soft flotation (5:07 Sec.)

Bitter cassava plant extract leaching

Cost-Effective Gold Extraction Method (0:42 Sec.)

Concentrate transferred too bitter cassava extract leaching

Tailings transferred too tailings pond

Flotation Cells (5:51 Sec.)

Rougher flotation

Tailings transferred too flotation

Concentrate transferred too cleaner

Cleaner column flotation cell

Flotation cell work principle (1:49 Sec.)

Gold Flotation Scavenger Circuit (0.28 Sec.)

Scavenger concentrate transferred too rougher flotation

Scavenger tailings transferred too tailings pond

Cleaner concentrate transferred too bitter cassava leaching

Cleaner tailings transferred back too rougher flotation

Tailings Pond
# Bitter Cassava 60 Tons/Day Pilot Plant Prototype Budget

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<tr>
<th>60 Tonne/Day</th>
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<td><strong>Site Visits x 2</strong></td>
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<td>Removal of Chilean Mills Sluices</td>
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<td>Conveyor Belts Install</td>
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<td>Removal of mercury panning sluices Chancha Room</td>
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<td>Coupling of Chilean Mills</td>
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June 30, 2015, Bruce & Alexandra Cosgrove incorporated Alchemy Mining Group, Inc. (NV.) having a mandate to provide innovative green gold mining solutions to the mercury-dependent ASGM sector.

March 2017, we coordinated and executed a Joint Venture Agreement by and between AMGI and Alquimia y Explotación Minera San Juan Alquiexmi S.A., a newly incorporated Ecuadorian Jr. mining company having granted mineral rights on 2 concessions in in the Bella Rica mining district Ponce Enríquez Ecuador, one of which concessions had been artisanally mined producing gold buttons since 2012.

March 20, 2018, we issued and listed for trading on the decentralized Waves.Exchange open blockchain platform 7.14 Million (8 decimals) AlchemyLGCoin© #ClimateAction utility tokens.

During 2018, we discovered the decades of ongoing human and developing children in utero health threats and biodiversity destruction caused by Artisanal and small-scale gold (ASG) miner’s using mercury (Hg) to process ore in the Portovelo-Zaruma mining district where the ore from our concession would be processed, hence we pivoted our focus.

From green gold mining solutions, we researched and discovered a low-cost process which we enhanced for ASG miners to recover more Au safely and sustainably, and a process to remediate tailings to reclaim spent Hg for safe proper disposal, unprocessed silver (“Ag”), and the Hg-flour Au without using Hg amalgamation.

December 2020, we contracted with Edgar Granda Aguilar, a professional Geologist born and lived in Zaruma for 35 years. Edgar resides in Machala 60 miles distant. Edgar is a highly-respected professional known to all Members owning Chilean processing centers situated on the Calera riverbank in Zaruma.

Edgar has contacted several APROPLASMIN Members including the Members President elect who indicated that once elected, will work to ensure a Chilean processing center will be available to implement the TRAP and prototype the world’s 1st Hg-free ore and tailings processing center.

In early June 2021, we meet Marcello Veiga, Ph.D. Professor Emeritus University of British Columbia Norman B. Kevil (Chairman Emeritus Teck Mining Corporation) Mining School of Engineering and the cassava plant extract journey for the implementation of sustainable gold leaching in Zaruma Ecuador continued.
Bruce A. Cosgrove, B.Sc., M.Sc. (Solution Chemistry).
Canadian Securities Course (CSC), US Series 7 Securities Course.
Dual Citizenship: British and Canadian
Pres./CEO Alchemy Mining Group, Inc. (AMGI), Founder Alchemy Liquid Gold Coin©
Research Gate Profile LinkedIn Profile

Bruce, an Artist, entrepreneur, humanitarian, environmentalist, and a Chemist having a diverse 30+ years of experience in the development, marketing, public listing, and funding of innovative technologies most notably;

Moli Energy Limited© (MoLi©) 1980 – 1987, 5 years as a Research Chemist and 2 years as Marketing Director participating in the development & commercialization of the World’s 1st rechargeable Lithium battery technology, and public listing of MoLi© on the Toronto Stock Exchange (TSX) contemporaneous with a $CDN 250 Million capital raise; the largest financing ever for a technology company at the time;

As acting President of several publicly listed Companies on both the former Vancouver Stock Exchange & the US OTC Markets trading platform, completing numerous reverse merger listings of private company assets on the public markets most notably;

MMI Maintenance Management, Inc., an IT company which developed & patented the World’s 1st remote diagnostics technology for monitoring oil & gas pipelines computer diagnostic sensors with both technologies monitoring in real time;

IVS Intelligent Vehicle Systems an IT company which developed & patented the World’s 1st remote diagnostics technology for monitoring automobiles on-board computer diagnostic CHIP’s;

Bruce is the Founder/Creator of Alchemy Liquid Gold Coin© “AlchemyLGCoin©” digital currency, the world’s 1st #ClimateAction utility token operating and listed for trading on the decentralized Waves.Exchange (DEX) open blockchain platform for Impact Investment Capital to #MakeMercuryHistory in ASG miners ore processing.
Alexandra D.F. Cosgrove, B. Com, Canadian Securities Course (CSC)
Controller - Corporate Secretary, Alchemy Mining Group, Inc.
Co-Founder - Alchemy Liquid Gold Coin©
LinkedIn Profile

Alexandra earned her business degree from the Sauder School of Business at the University of British Columbia (UBC) specializing in marketing.

She is an entrepreneurial business professional with a breadth of industry experience in information technology, mining, finance and public securities. Most recently working as an Analyst with Capital Formation at the TMX Group - TSX Venture Exchange, the premier destination for emerging market companies where ~1,900 companies are publicly listed.

Alexandra served as a Managing Member of Alchemy OTC Markets Specialists, LLC., a Nevada based international boutique consulting firm providing US reverse merger public listing services for private company assets.

Marcello Mariz Veiga, Ph.D., a world-renowned global authority on artisanal and small-scale gold mining and mercury. Technical Advisor of the GEF/UNDP/UNIDO Global Mercury Project based in Vienna. Dual Citizenship: Brazilian, Canadian

“... My goal as an academic is to generate mining engineers who understand that applying ethical principles while creating wealth for society will change the image of mining and make a positive difference to local communities."

Professor Emeritus Norman B. Keevil Institute of Mining Engineering, University of British Columbia (UBC).

Brazilian Professional Engineer, CREA 36806-D, Rio de Janeiro, Brazil
Canadian Professional Engineer, Engineers & Geoscientists BC License # 34088

Dual Citizenship: Brazilian and Canadian
Hobbies: Guitar and harmonica player, choir singer
Languages: fluent in Portuguese, English and Spanish, basic French and Italian.


Edgar Granda Aguilar Geologist Expert. Experience (34 years) 1986-2020
Mineral commercial assessments, geological surveys, Reserve Calculations, Mining Management
Languages: Spanish, French English, Portuguese

LinkedIn Profile

1983-1985 Ingenier Expert En Geologie, Institute Polictenique Du Loreine, France

Experienced small-scale miner in most active regions in Ecuador.
Worked twice as Subsecretaria De Minas advisor, with the latest one being in 2007

Mine census in 1996 with support from the World Bank, Proyecto Prodeminaca and legalization of small-scale mining in the Zaruma Portovelo region. It was the first-time small-scale companies associated to further develop local projects, like in the Mineros Muluncay, Unidos Venceremos, Cooperativa Bella Rica, etc.

Collaborated with INEGEM and ARCOM giving technical support and consultation services which led to the organization and further development of small-scale mining, especially in the most conflicted areas like Zaruma, Portovelo, Nambija and south areas in Ecuador.

Construction and deployment of technical equipment on location to mine gold without the need of Mercury or Cyanide.

Field experience in the organization of small sized projects in the Zaruma-Portovelo-Atagualpa-Bella Rica, La Ponce-Nambija districts.

Worked in the Subsecretaria de Minas where audits were made for large scale projects like Fruta Del Norte, De Cobre De Ecuacorrientes, and GMC in Azuay. This consisted in field verification of the reservoirs, checking work performed, surveys and intelligence gathering of the projects.
Mercury Toxicity and Environmental Hazards

Economy
- Lower profit and diminishing returns
- Loss of Tourism

Technical
- Dangerous with improper handling
- Inefficiency resulting in lost Gold and Silver
- Unsustainable
- Deforestation, Soil degradation, water and air pollution,

Environmental
- Acid rock drainage (ARD),
- Loss of Biodiversity
- Discharge and vaporization destroying our Biosphere
- Loss of community esteem

Community
- Low gold production resulting in disagreements between miners and processors
- Lack of local interest in the problem and inertia for change
- Unsafe
- Exposure to Nitric Acid, Zinc Oxide
- Ataxia,
- Neurological disorders,
- Respiratory disease,
- Sleep deprivation,
- Exposure to neurotoxins,
- Death

Health

Mercury amalgamating with gold

Whole Ore Hg-amalgamation Chancha Barrel Processing Zaruma (1:26)
Mercury Mobility Produces Methylmercury

The WHO considers Hg as one of the top ten chemicals or groups of chemicals of major public health concern on the Planet. Most ASG miners suffer from undiagnosed Hg poisoning.

The UN Environment has classified Hg as a neuro-, nephro-, & immunotoxic, a “chemical of global concern” owing to its long-range atmospheric transportation, persistence in the environment once anthropogenically introduced, ability to bioaccumulate in ecosystems and its’ significant negative effects on human health, and our environment.

Hg is a deadly neurotoxin that our own human bacteria and environmental anaerobic microbes in water transforms to Methylmercury (“MeHg”), the deadliest form of Hg that kills all aquatic biota, and with unknown biomagnification effects.

Upon skin contact and/or inhalation, mercury and Methylmercury will damage the central nervous system, kidney, spleen and penetrate the blood brain barrier causing health deterioration, ataxia along with numerous other symptoms, and the blood placenta barrier causing developing fetus deformation and retardation.
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