



## Haile 2018 Mine Expansion Plan



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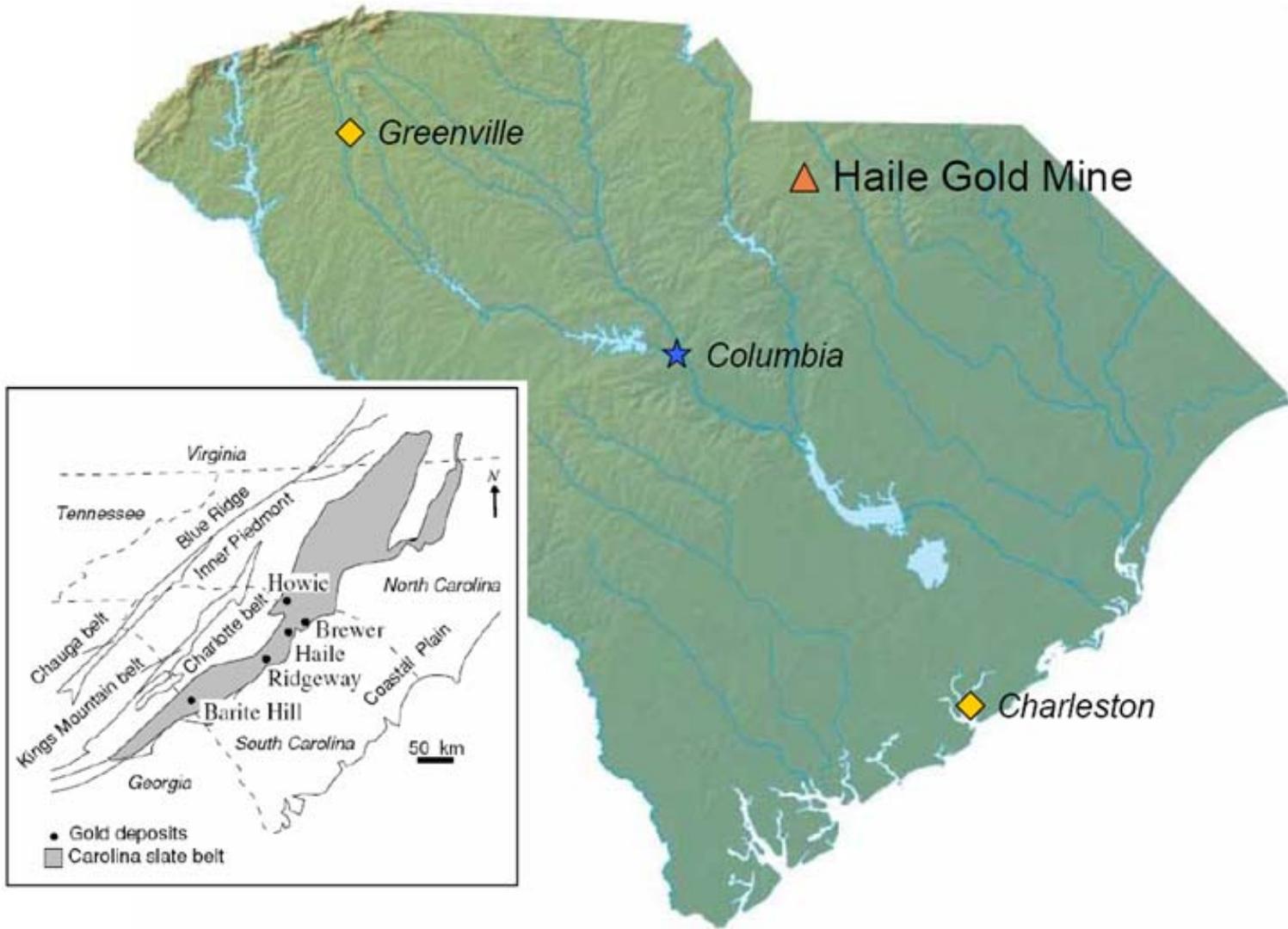
## **Technical Disclosure**

For further scientific and technical information (including disclosure regarding mineral resources and mineral reserves) relating the Macraes Operation, the Didipio Operation, the Waihi Gold Operation and the Haile Gold Mine Project, please refer to the NI 43-101 compliant technical reports available at [sedar.com](http://sedar.com) under the Company's name. For further scientific and technical information (including disclosure regarding mineral resources and mineral reserves) relating to the El Dorado property, please refer to the reports publicly available on SEDAR ([www.sedar.com](http://www.sedar.com)) prepared for Pacific Rim Mining Corp.

## **General Presentation Notes**

All AISC and cash costs are net of by-product credits unless otherwise stated

All financials are denominated in US Dollars unless otherwise stated



# Agenda

- Introduction
  - Purpose and Need
- Project Changes
  - Mine Pits
  - Material Balance
  - Underground
  - Process Plant
  - Support Facilities
  - Impacts

# Introduction

## Statement of Purpose and Need

**“To produce gold for sale from mineralized gold-bearing zones on the Haile property.”**

## Haile 2018 Mine Expansion Plan

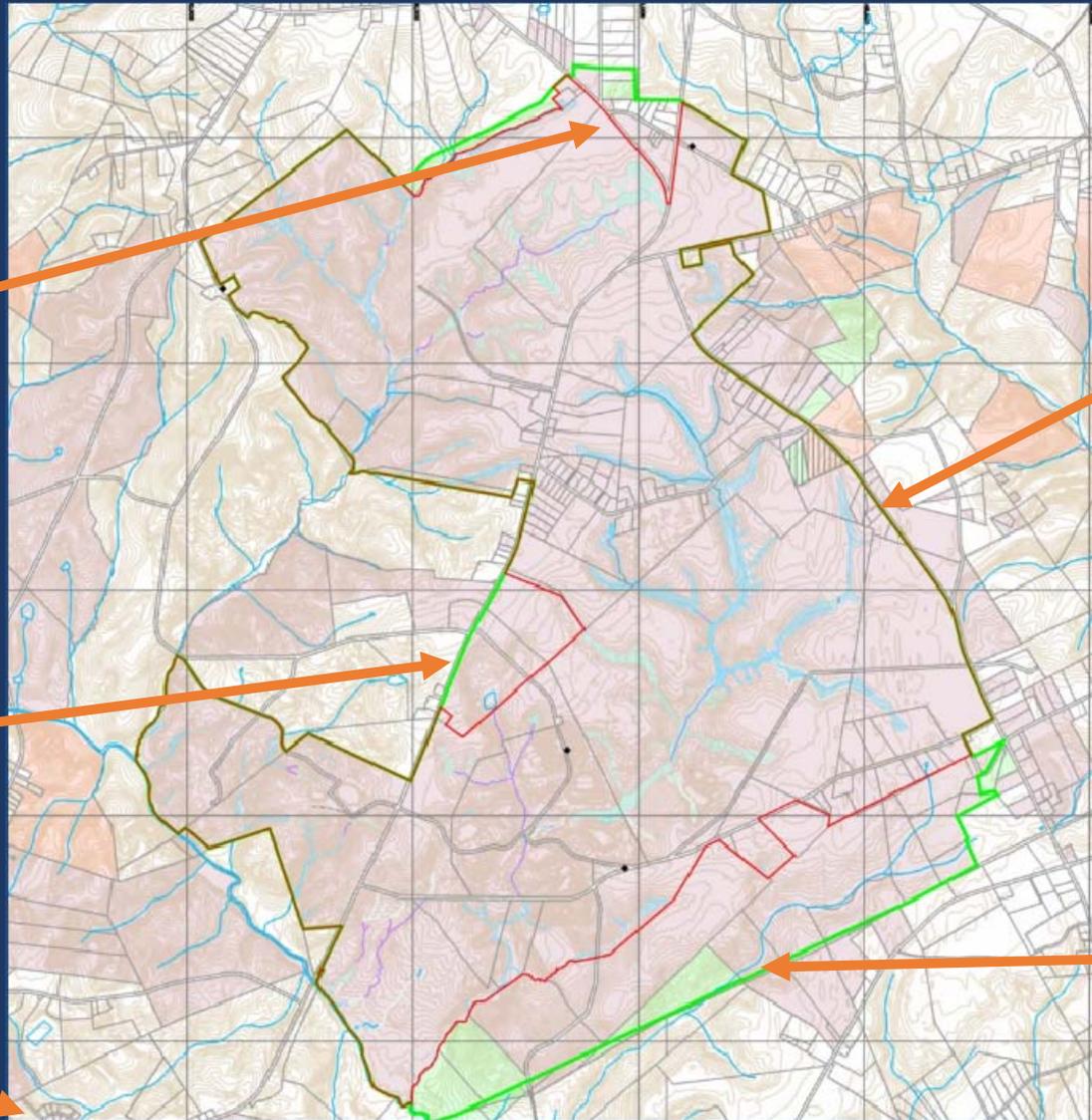
- Ore mining from expanded open pits
- Underground mining at Horseshoe Deposit
- Optimized processing operations

# Haile Property

Duckwood Road

US Highway 601

City of Kershaw



Earnest Scott Road

Lancaster / Kershaw County Line

# Project Changes

- **Expand pit shell from \$950 to \$1,150 per troy ounce**
- **Develop Horseshoe Deposit via underground mine**
- **Extend Mine Life from 14 to 16 years**
- **Expand Project Boundary by 880 acres (from 4,552 to 5,432 acres)**
- **Increase total disturbance from 2,612 to 3,860 acres**
- **Expand Mill operations from 9,100 to 14,400 tons per day**
- **Increase employment from 400 to 650 people**



# Cooperating Regulatory Bodies

## US ARMY CORP OF ENGINEERS

- Lead agency; jurisdictional determination
- 404 Wetland / Stream Permit



## SC DHEC

- Lead / cooperating agency
- 401 Water Quality Certification; Mining Operating Permit



## US EPA

- Cooperating Agency
- National Environmental Protection Act (NEPA Process)



## CATAWBA INDIAN NATION

- Cooperating Agency



# Enforcement Agencies

## US Fish and Wildlife Services

- Contributing Agency



## SC Department of Natural Resources

- Contributing Agency

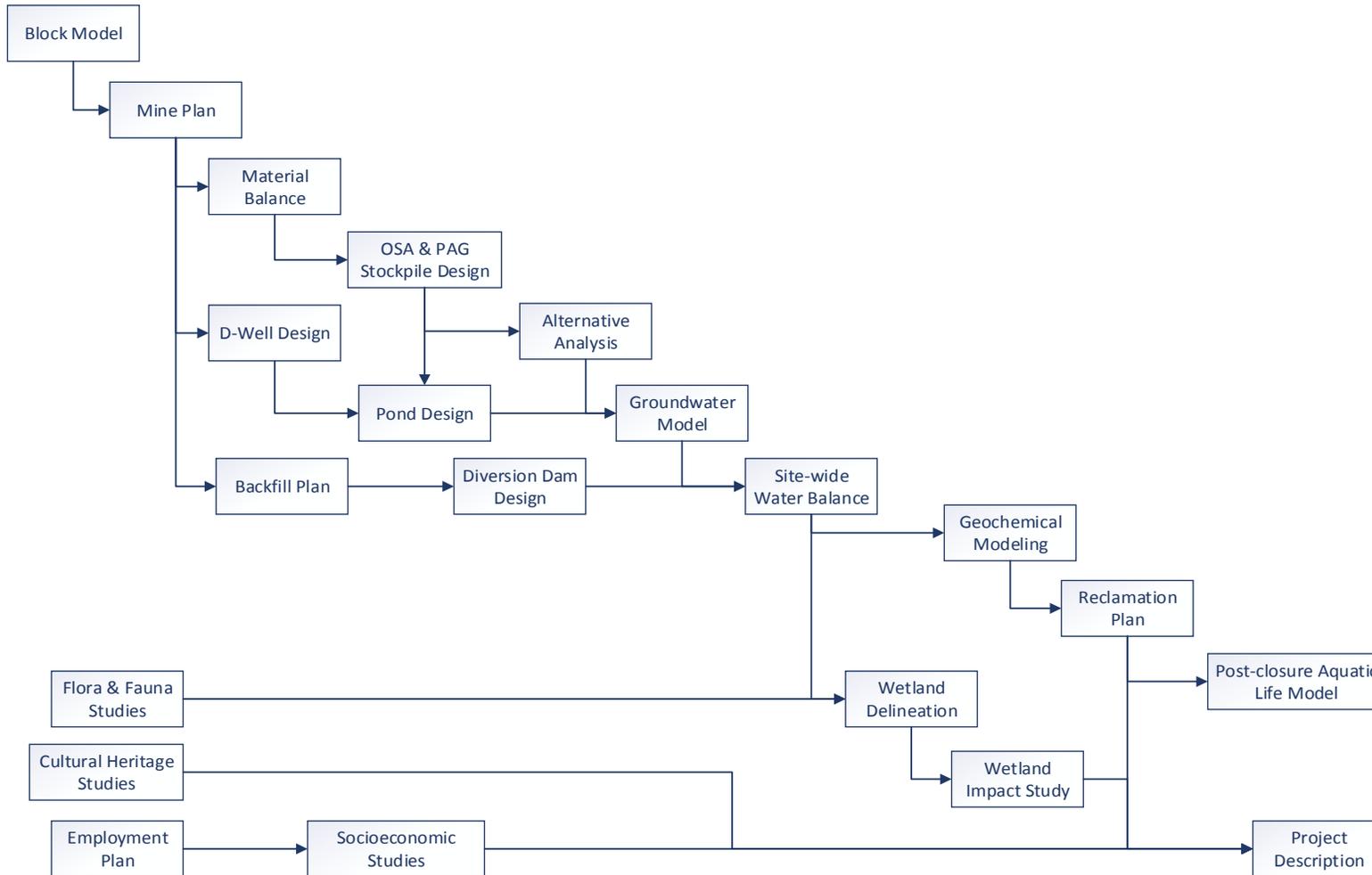


## SC Department of Transportation

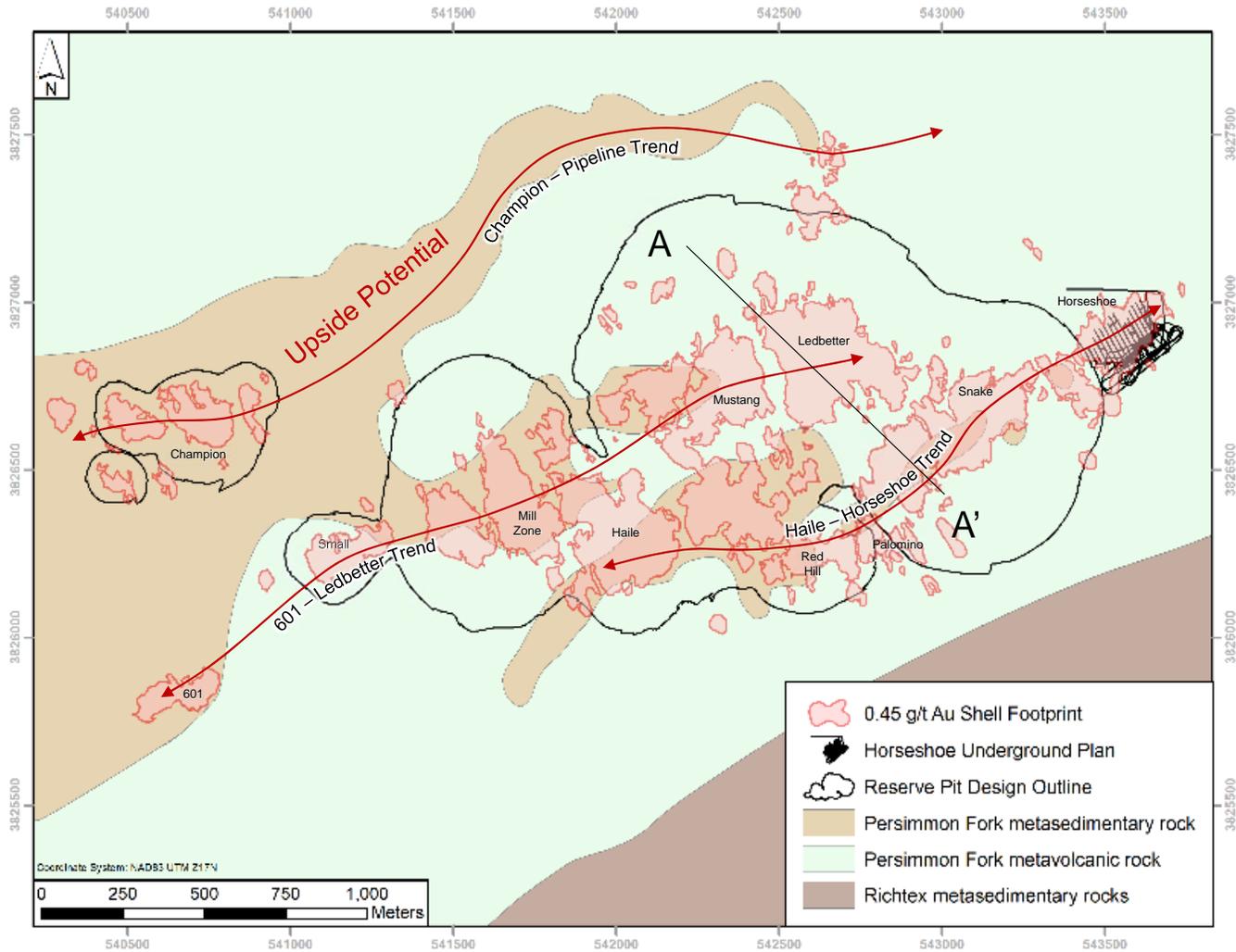
- Contributing Agency



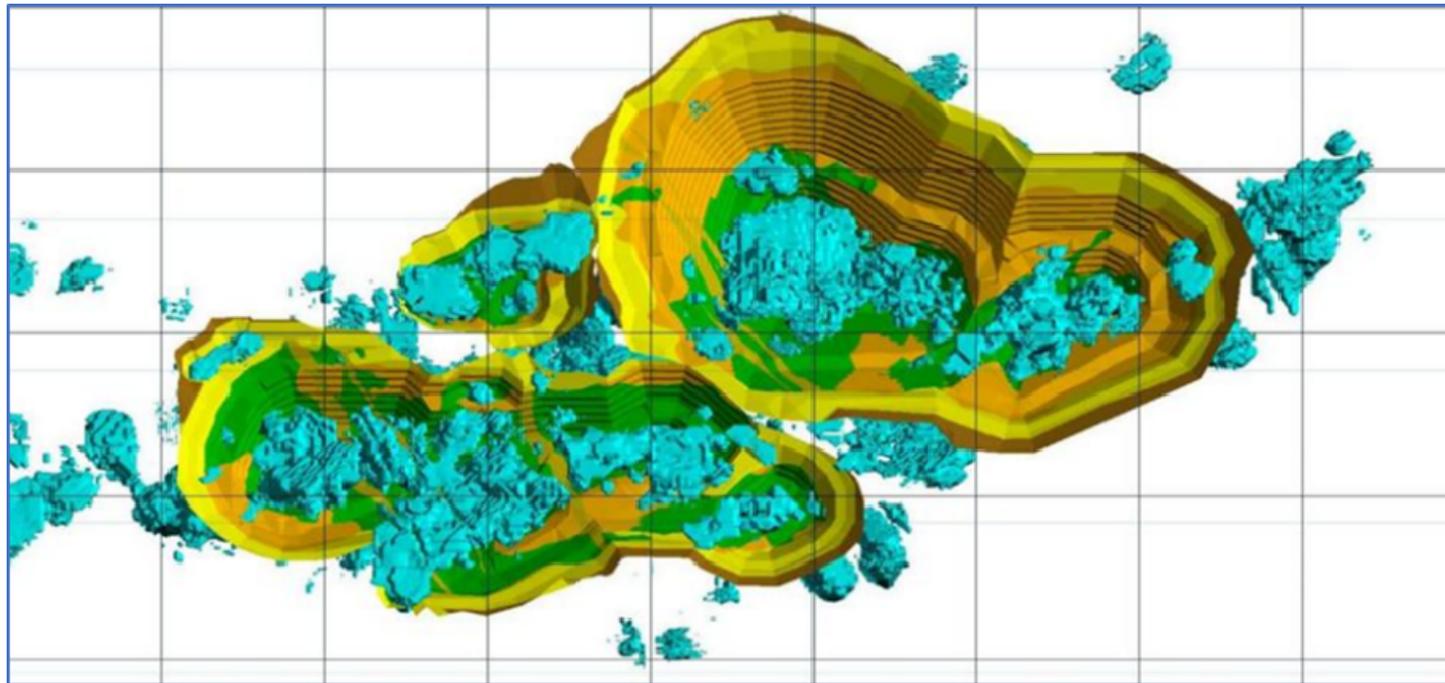
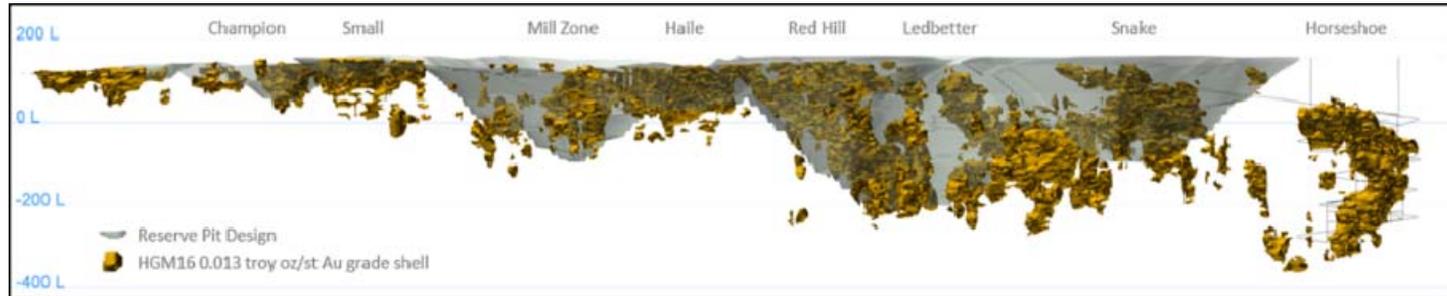
# Technical Analysis



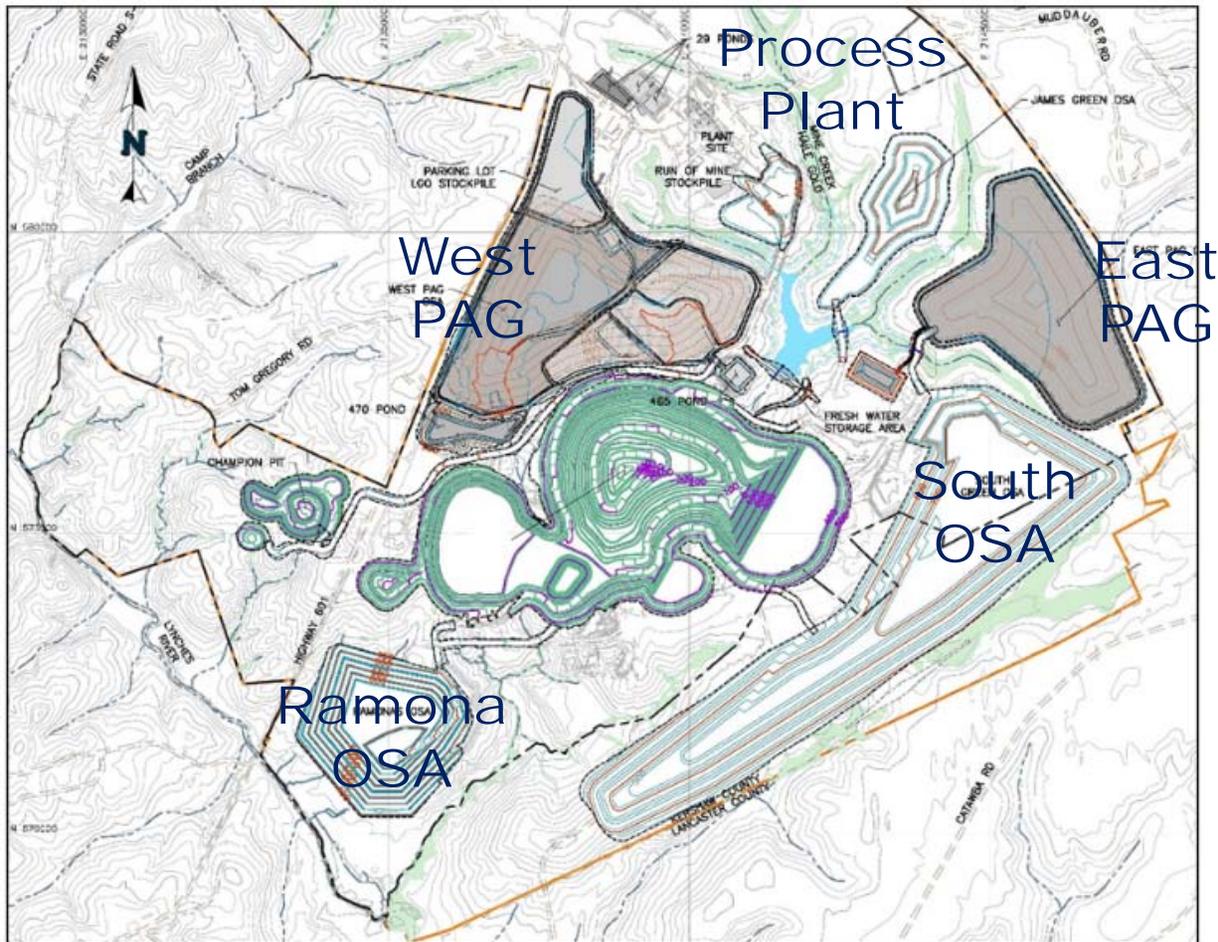
# Mineralized Trends



# Pit Shell



# Overburden Changes



# Total Overburden Storage Requirement

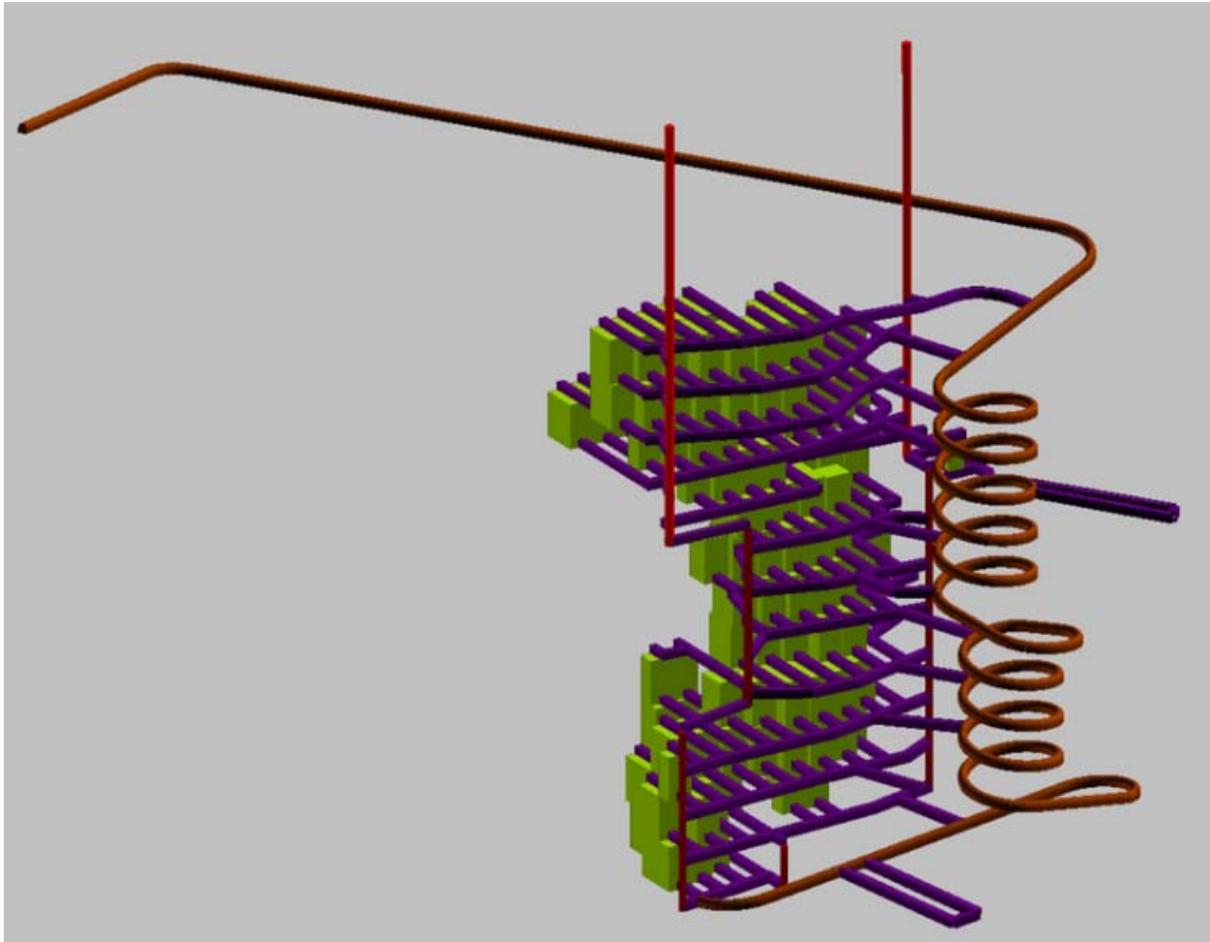
Overburden Allocation	Classification	Planned (M tons)	(%)
Tailings Storage Facility	Green	56.6	10.7
Overburden Storage Areas	Green	207.0	39.3
PAG Storage	Yellow / Red	150.1	28.5
Backfilled In-Pit	Yellow / Green	113.5	21.5
<b>Total Overburden Material</b>		<b>527.2</b>	<b>100.0</b>

# New Mining Fleet

- 1 PC 3000 Excavator
- 2 PC 4000 Shovels
- 13 Komatsu 730E's over the next 12 months
- Payload doubles existing fleet
- Caterpillar support gear
- New drills

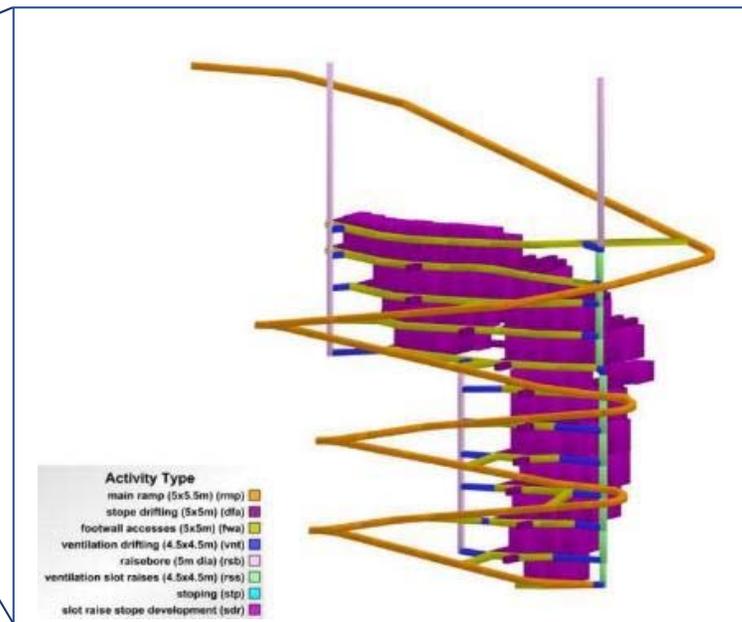
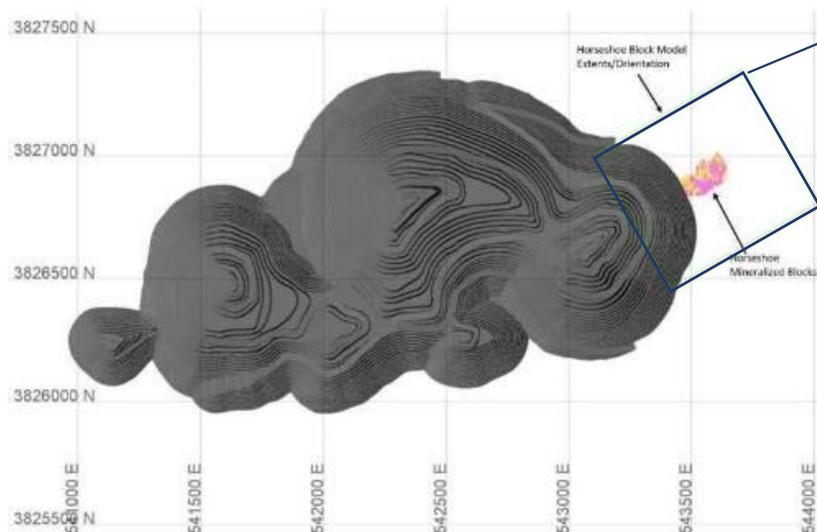


# Horseshoe Underground



- Sublevel Transverse Long-hole Stopping
- Dewatering
- Ventilation
- Cemented Backfill

# Horseshoe Underground



## HORSESHOE UNDERGROUND RESERVES <sup>(1)</sup>

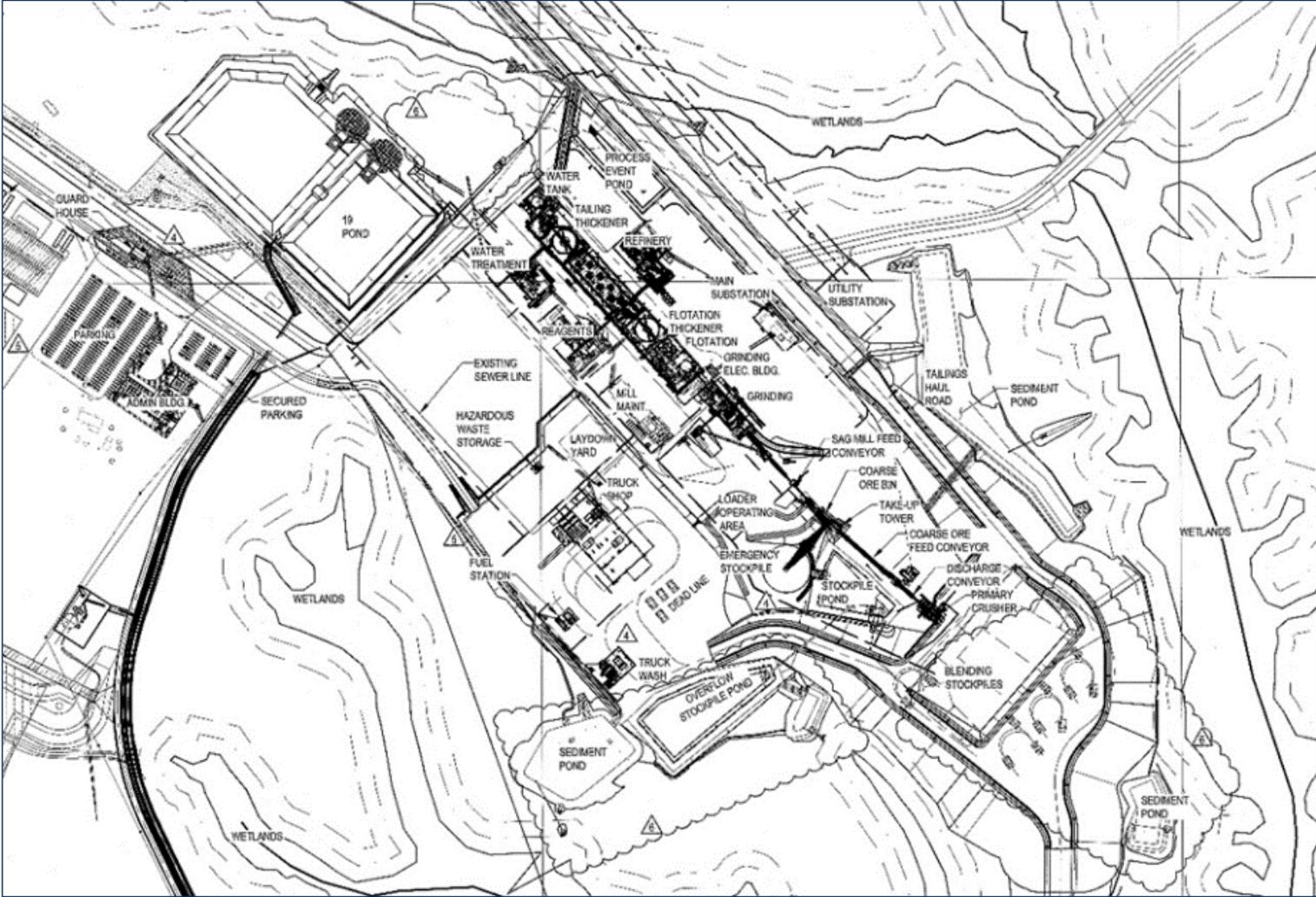
TONNAGE	3,120	Kt
GRADE	4.38	g/t
OUNCES	440	Koz

## UNDERGROUND MINING

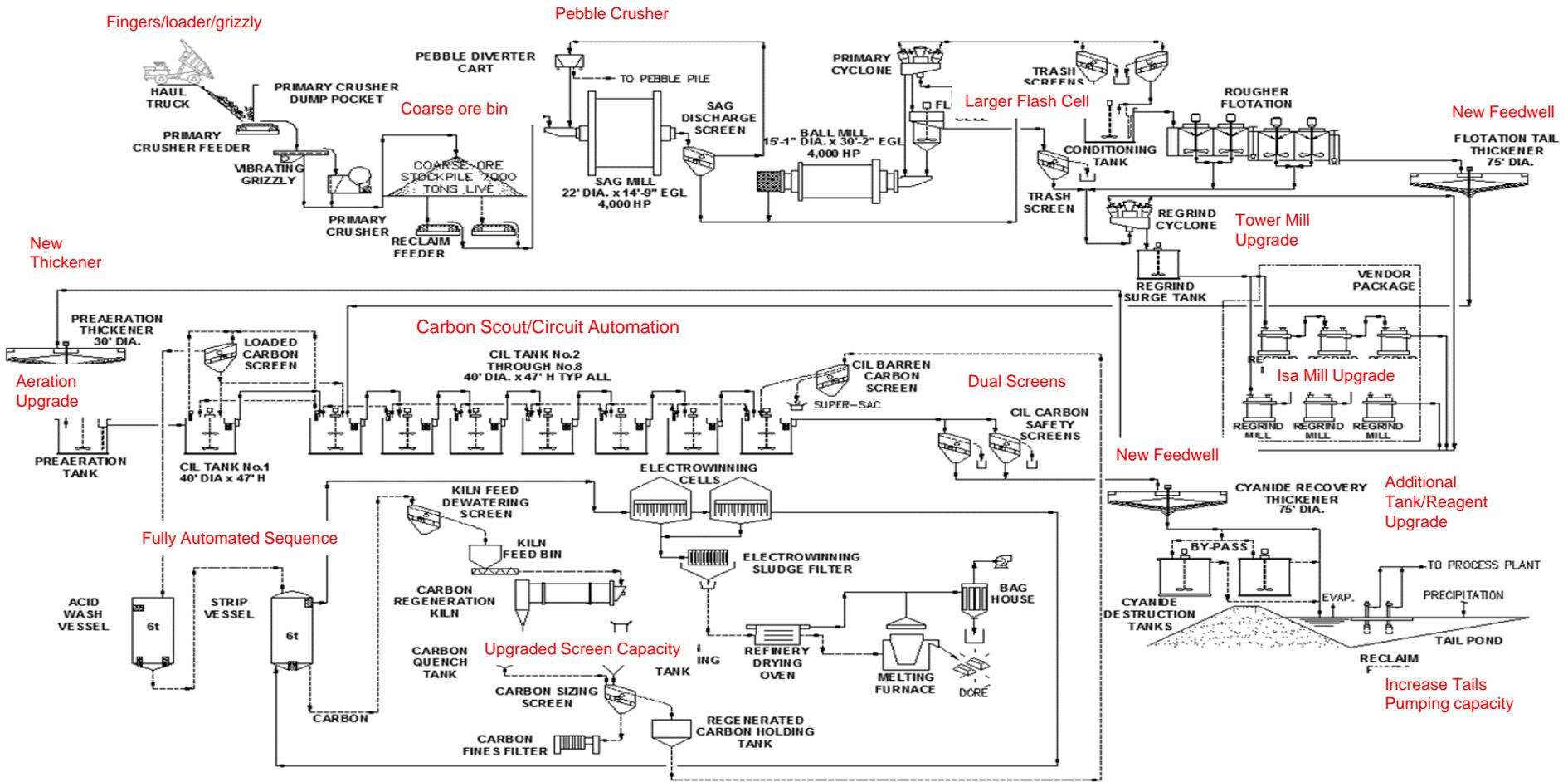
- Commence on receipt of permit approval
- Detailed planning commenced February 2019
- Snake Phase II to portal elevation late QTR 1 2020

1. Refer to Haile 43-101 Technical Report located at [www.oceanagold.com](http://www.oceanagold.com)

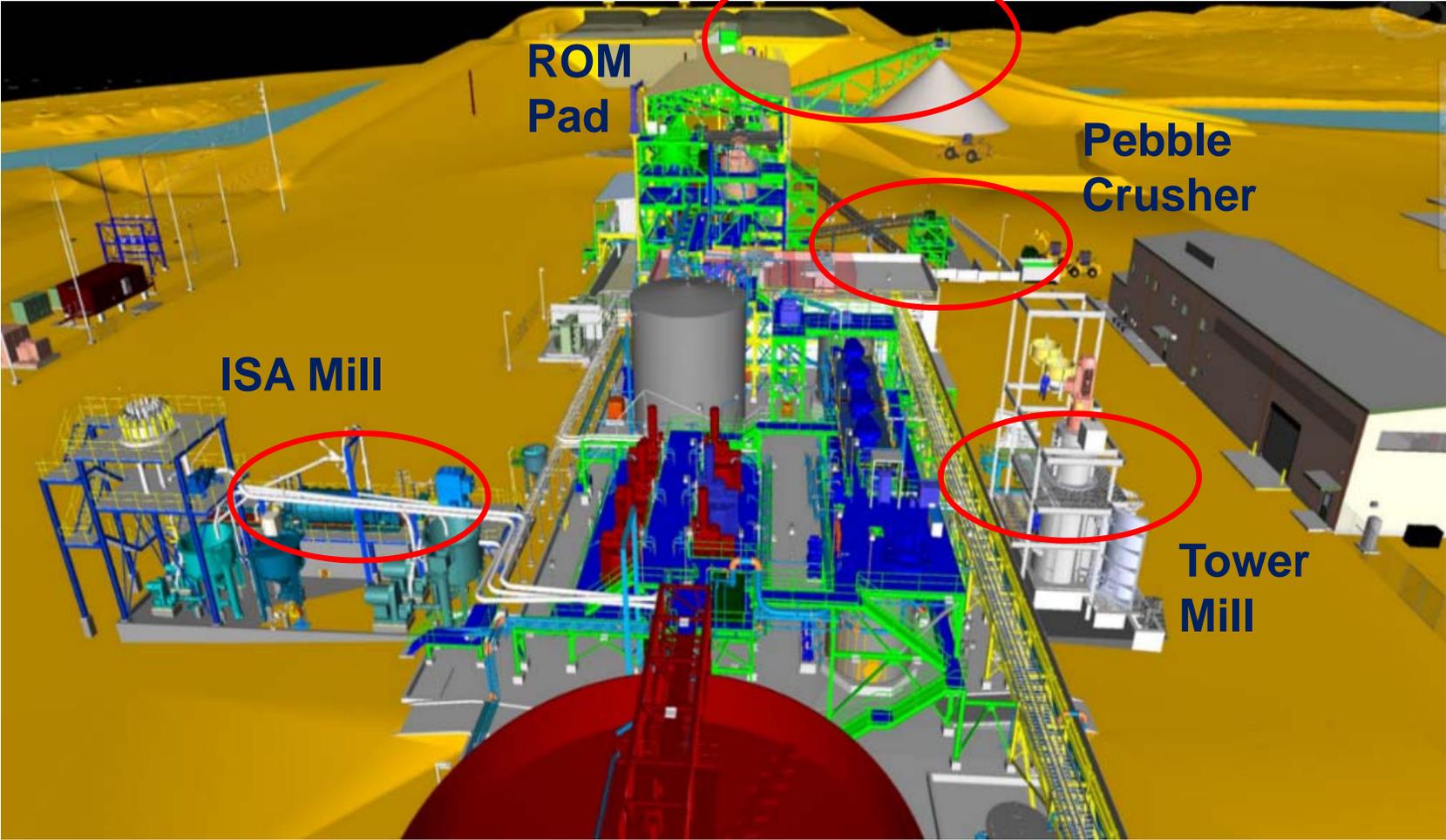
# Process Plant



# Flowsheet



# Process Plant



# Support Facilities



**Cyanide Destruct**



**Elution Circuit**

# Support Facilities



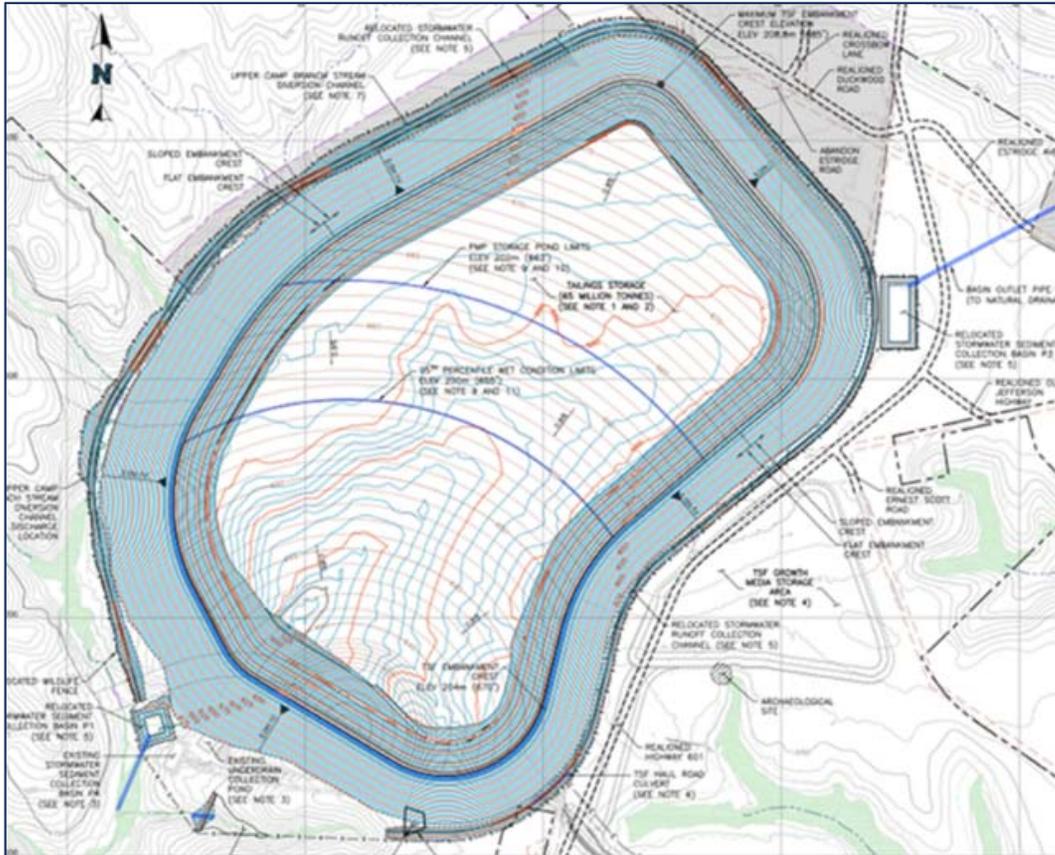
**Contact Water Treatment Plant**

# Support Facilities

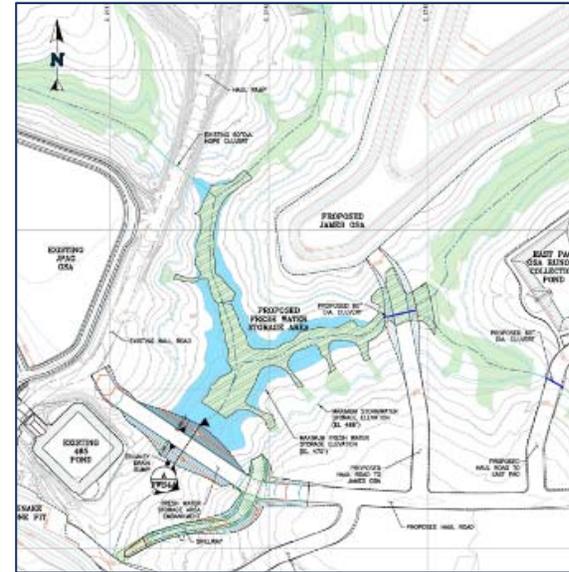


**Tailing Storage Facility**

# Support Facilities

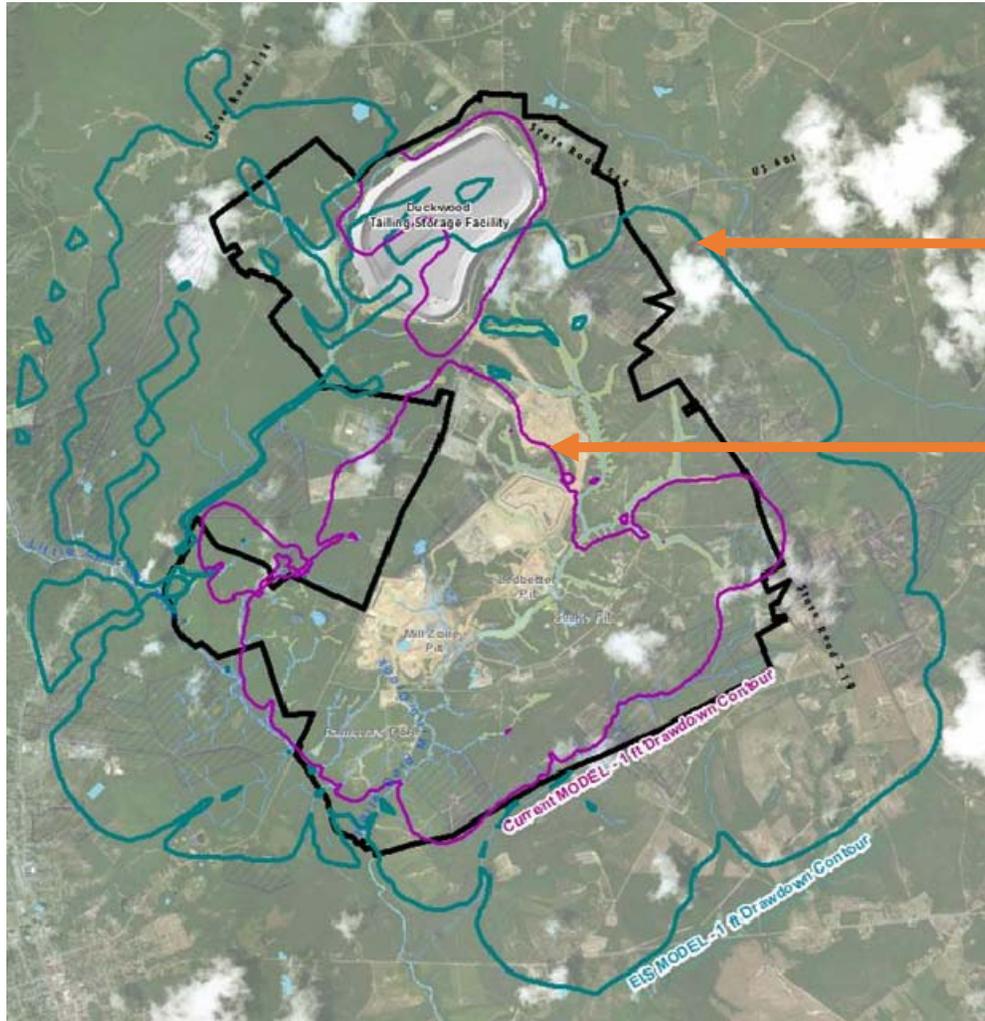


Tailing Storage Facility



Fresh Water Storage Facility

# Groundwater Modelling

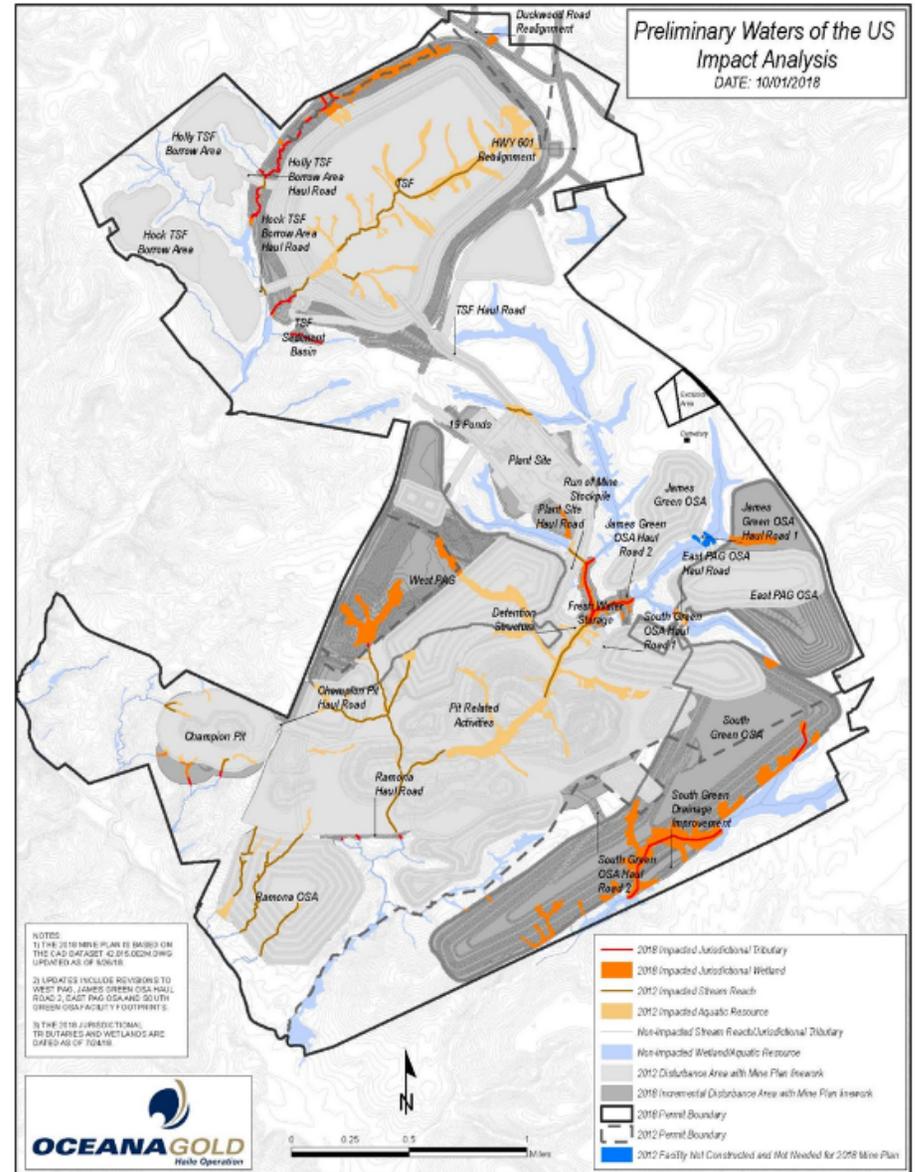


2014 EIS - 1' Contour

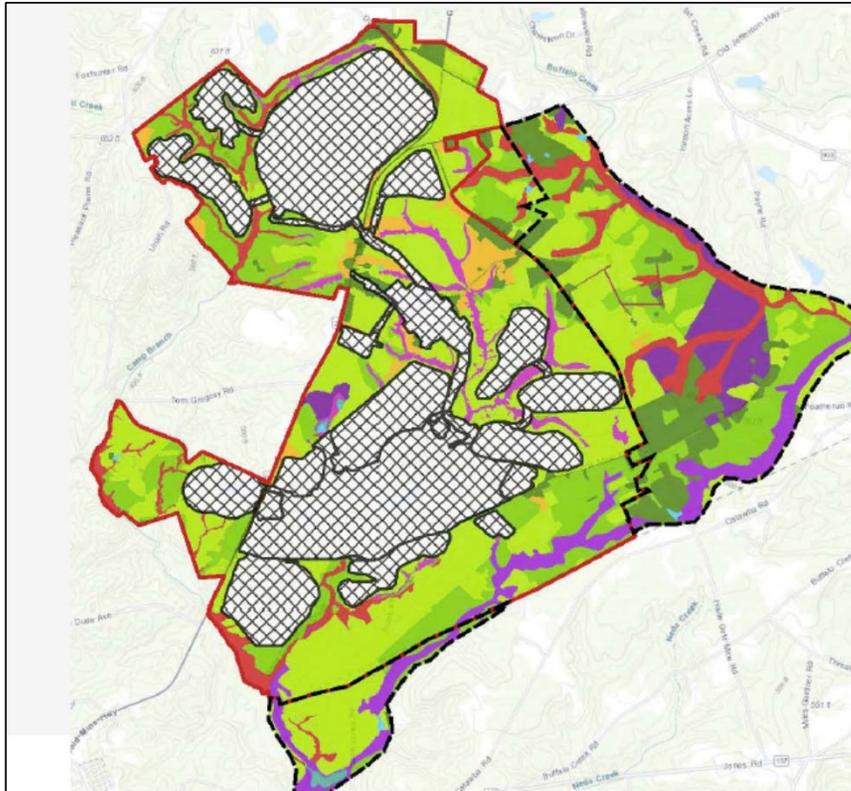
2018 SEIS - 1' Contour

# Surface Water Impact

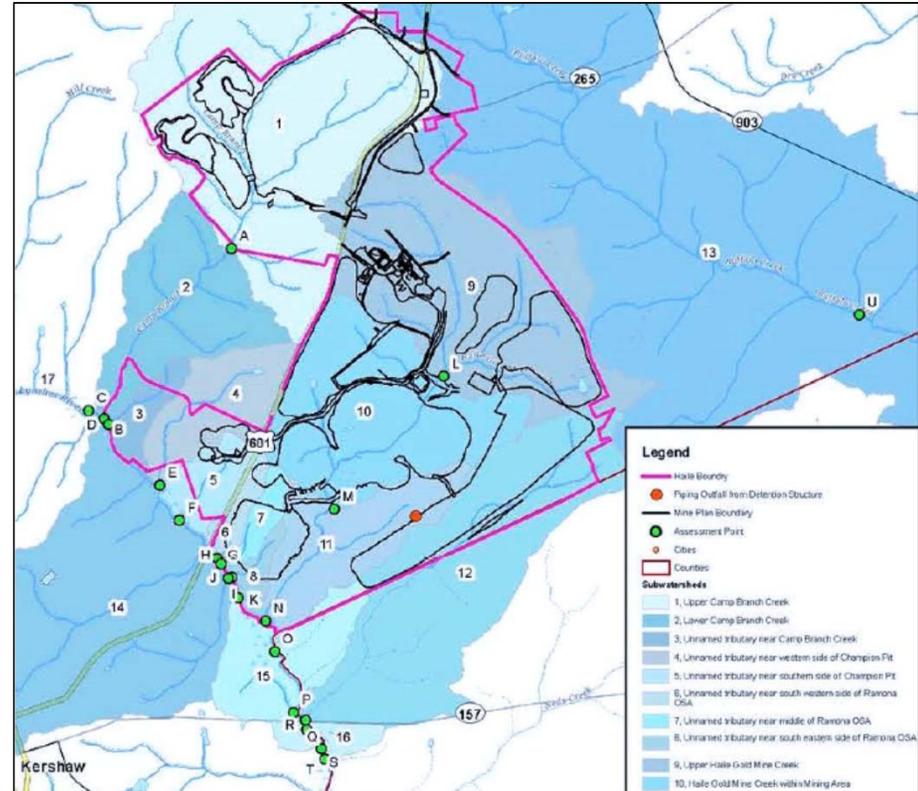
- Increase wetland impacts by 90.5 acres
- Increase stream impacts by 14,444 linear feet



# Vegetation and Wildlife Impacts



**Vegetation Impact Area**



**Wildlife and Aquatic Life Impact Area**

# Socio Economic Impact

Table 5 – Projected Economic Impact of the Haile Gold Mine on South Carolina: 2017-2032

Year	# of Haile Employees	Total S.C. Employment	Total Labor Income	Total Economic Impact
2017	362	805	\$56,980,908	\$190,675,300
2018	475	1,057	\$74,840,596	\$250,439,200
2019	529	1,178	\$83,345,209	\$278,898,200
2020	605	1,346	\$95,251,668	\$318,740,800
2021	442	984	\$69,630,492	\$233,004,622
2022	447	995	\$70,389,668	\$235,545,053
2023	388	864	\$61,125,003	\$204,542,689
2024	374	831	\$58,806,870	\$196,785,518
2025	344	765	\$54,138,073	\$181,162,316
2026	499	1,110	\$78,557,073	\$262,875,654
2027	416	925	\$65,453,529	\$219,027,243
2028	416	925	\$65,453,529	\$219,027,243
2029	566	1,258	\$89,023,369	\$297,899,034
2030	388	863	\$61,079,510	\$204,390,458
2031	316	702	\$49,668,350	\$166,205,277
2032	465	1,034	\$73,184,338	\$244,896,861

**Total Economic Impact = \$3,704,109,000**

# Haile Gold Mine Mitigation Plan

## Protected in Perpetuity

- 1,561.31 acres of wetlands
- 118,651 linear feet of streams & rivers
- 4,755 acres of land
- \$9.4 M Endowment
  - Endangered Species protection and propagation
- \$4.0 M Lynches Conservation Endowment
  - Protection of critical habitat
  - Land for perpetual conservation



# Questions



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