

CHAPTER 8.0

Mitigation Monitoring, Reporting and Compliance Program

8.1 Introduction

This document describes the mitigation monitoring, reporting and compliance program (MMRCP) for ensuring the effective implementation of the mitigation measures required for the City of Grass Valley's (City) approval of the Idaho-Maryland Mine Corporation's (Applicant) application to reopen the historic Idaho-Maryland Mine. All mitigations are presented in Table 8-1 provided at the end of this MMRCP.

If the proposed project is approved, then this MMRCP would serve as a self-contained general reference for the Mitigation Monitoring Program adopted by the City for the project. If and when the proposed project has been approved by the City, the City will compile the Final Plan from the Mitigation Monitoring Program in the Final Environmental Impact Report (EIR), as adopted.

8.2 City of Grass Valley – MMRCP Authority

Section 21081.6 of the Public Resources Code requires all State and local agencies to adopt a MMRCP when it approves a project that is subject to preparation of an EIR and where the EIR for the project identifies potentially significant environmental effects. California Environmental Quality Act (CEQA) Guidelines Section 15097 was added in 1999 to further clarify agency requirements for mitigation monitoring and reporting.

The purpose of a MMRCP is to ensure that measures adopted to mitigate or avoid significant impacts of a project are implemented. The City views the MMRCP as a working guide to facilitate not only the implementation of mitigation measures by the Applicant, but also the monitoring, compliance and reporting activities of the City and any monitors it may designate.

The City Council will address its responsibility under Public Resources Code Section 21081.6 when it takes action on IMMC's applications. If the City Council approves the applications, it will also adopt a Mitigation Monitoring, Compliance, and Reporting Program that includes the mitigation measures ultimately made a condition of approval by the City.

Because the City must decide whether or not to approve the applications and because the applications may cause either direct or reasonably foreseeable indirect effects on the environment, CEQA requires the City to consider the potential environmental impacts that could

occur as the result of its decisions and to consider mitigation for any identified significant environmental impacts.

If the City approves the applications to facilitate reopening the historic Idaho-Maryland Mine, the Applicant would be responsible for implementation of any mitigation measures governing construction, operations and reclamation activities associated the project. Though other State and local agencies would have permit and approval authority over construction, operations and reclamation activities, the City would continue to act as the lead agency for monitoring compliance with all mitigation measures required by this EIR. All approvals and permits obtained by the Applicant would be submitted to the City for mitigation compliance prior to commencing the activity for which the permits and approvals were obtained.

In accordance with CEQA, the City reviewed the impacts that would result from approval of the applications. The activities considered include the construction and operations of the Idaho-Maryland Mine as well as reclamation of the project sites. The Applicant has agreed to incorporate all the proposed mitigation measures into the project. The City has included the stipulated mitigation measures as conditions of approval of the applications and has circulated a Draft EIR.

The attached EIR presents and analyzes potential environmental impacts that would result from construction, operations and reclamation activities associated the project as well as proposes mitigation measures, as appropriate. Based on the EIR, approval of the application would have no impact or less than significant impacts in the following areas:

- Population and Housing

The EIR indicates that approval of the applications would result in potentially significant impacts in the areas of:

- Aesthetics
- Biological Resources
- Cultural Resources
- Geology, Soils, Seismicity and Mineral Resources
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Noise
- Public Services
- Recreation
- Transportation and Traffic
- Utilities and Service Systems
- Energy

The EIR indicates that approval of the applications would result in significant unavoidable impacts in the in the areas of:

- Air Quality

8.2.1 Roles and Responsibilities

As the lead agency under CEQA, the City is required to monitor this project to ensure that the required mitigation measures and any Applicant Proposed Measures are implemented. The City will be responsible for ensuring full compliance with the provisions of this MMRCP and has

primary responsibility for implementation of the monitoring program. The purpose of the monitoring program is to document that the mitigation measures required by the City are implemented and that mitigated environmental impacts are reduced to the level identified in the Program. The City has the authority to halt any activity associated with the proposed project if the activity is determined to be a deviation from the approved project or the adopted mitigation measures.

The City may delegate duties and responsibilities for monitoring to other mitigation monitors or consultants as deemed necessary. The City will ensure that the person(s) delegated any duties or responsibilities are qualified to monitor compliance.

The City, along with its mitigation monitor, will ensure that any project modification process (i.e., minor adjustment to the proposed project), which will be designed specifically for the proposed project, or deviation from the procedures identified under the monitoring program is consistent with CEQA requirements; no project modification will be approved by the City if it creates new significant environmental impacts. As defined in this MMRCP, a project modification should be strictly limited to minor project changes that will not trigger other permit requirements, that does not increase the severity of an impact or create a new impact, and that clearly and strictly complies with the intent of the mitigation measure. A proposed project change that has the potential for creating significant environmental effects will be evaluated to determine whether supplemental CEQA review is required. Any proposed deviation from the approved project and adopted mitigation measures, including correction of such deviation, shall be reported immediately to the City and the mitigation monitor assigned to the construction for their review and approval. In some cases, a project modification may also require approval by a CEQA responsible agency.

8.2.2 Enforcement and Responsibility

The City is responsible for enforcing the procedures for monitoring through the environmental monitor. The environmental monitor shall note problems with monitoring, notify appropriate agencies or individuals about any problems, and report the problems to the City. The City has the authority to halt any construction, operation, or maintenance activity associated with the project if the activity is determined to be a deviation from the approved project or adopted mitigation measures. The City may assign its authority to their environmental monitor.

8.2.3 Mitigation Compliance Responsibility

The Applicant is responsible for successfully implementing all the adopted mitigation measures in this MMRCP. The MMRCP contains criteria that define whether mitigation is successful. Standards for successful mitigation also are implicit in many mitigation measures that include such requirements as obtaining permits or avoiding a specific impact entirely. Additional mitigation success thresholds will be established by applicable agencies with jurisdiction through the permit process and through the review and approval of specific plans for the implementation of mitigation measures.

The Applicant shall inform the City and its mitigation monitor in writing of any mitigation measures that are not or cannot be successfully implemented. The City in coordination with its mitigation monitor will assess whether alternative mitigation is appropriate and specify to the Applicant the subsequent actions required.

Dispute Resolution Process

This MMRCPP is expected to reduce or eliminate many of the potential disputes concerning the implementation of the adopted measures. This information is provided as an overview of the Dispute Resolution Process; however, it is likely that it would be refined through the conditions of approval and development agreement. However, in the event that a dispute occurs, the following procedure will be observed:

- **Step 1.** Disputes and complaints should be directed first to the City's designated Project Manager for resolution. The Project Manager will attempt to resolve the dispute.
- **Step 2.** Should this informal process fail, the City Project Manager may initiate enforcement, as described above in Section 8.1.2, or compliance action to address deviations from the Proposed Project or adopted Mitigation Monitoring Program.
- **Step 3.** If a dispute or complaint regarding the implementation or evaluation of the MMRCPP or the mitigation measures cannot be resolved informally or through enforcement or compliance action by the City, any affected participant in the dispute or complaint may file a written "notice of dispute" with the City's Community Development Director (CDD). This notice should be filed in order to resolve the dispute in a timely manner, with copies concurrently served on other affected participants. Within 10 days of receipt, the CDD or designee(s) shall meet or confer with the filer and other affected participants for purposes of resolving the dispute. The CDD shall issue a Resolution describing his/her decision, and serve it on the filer and other affected participants.
- **Step 4.** If one or more of the affected parties is not satisfied with the decision as described in the Resolution, such party(ies) may appeal it to the City via a procedure to be specified by the City or outlined in the City Development Code, Chapter 17.91 Appeals.

8.2.4 General Monitoring Procedures

Mitigation Monitor

The City and the mitigation monitor are responsible for integrating the mitigation monitoring procedures into the construction process in coordination with IMMC. To oversee the monitoring procedures and to ensure success, the mitigation monitor assigned to the construction must be on site during that portion of construction that has the potential to create a significant environmental impact or other impact for which mitigation is required. The mitigation monitor is responsible for ensuring that all procedures specified in the monitoring program are followed.

Construction Personnel

A key feature contributing to the success of mitigation monitoring will be obtaining the full cooperation of construction personnel and supervisors. Many of the mitigation measures require action on the part of the construction supervisors or crews for successful implementation. To ensure success, the following actions, detailed in specific mitigation measures included in the MMRCP, will be taken:

- Procedures to be followed by construction companies hired to do the work will be written into contracts between IMMC and any construction contractors. Procedures to be followed by construction crews will be written into a separate agreement that all construction personnel will be asked to sign, denoting agreement.
- One or more pre-construction meetings will be held to inform all and train construction personnel about the requirements of the MMRCP.
- A written summary of mitigation monitoring procedures will be provided to construction supervisors for all mitigation measures requiring their attention.

General Reporting Procedures

Site visits and specified monitoring procedures performed by other individuals will be reported to the mitigation monitor assigned to the construction. A monitoring record form will be submitted to the mitigation monitor by the individual conducting the visit or procedure so that details of the visit can be recorded and progress tracked by the mitigation monitor. A checklist will be developed and maintained by the mitigation monitor to track all procedures required for each mitigation measure and to ensure that the timing specified for the procedures is adhered to. The mitigation monitor will note any problems that may occur and take appropriate action to rectify the problems. IMMC shall provide the City with written quarterly reports of the project, which shall include progress of construction, resulting impacts, mitigation implemented, and all other noteworthy elements of the project. Quarterly reports shall be required as long as mitigation measures are applicable.

Public Access to Records

The public is allowed access to records and reports used to track the monitoring program. Monitoring records and reports will be made available for public inspection by the City on request. The City and IMMC will develop a filing and tracking system.

8.3 Mitigation Monitoring, Reporting and Compliance Program

The table attached to this program presents a compilation of the mitigation measures in the EIR. The purpose of the table is to provide a single comprehensive list of impacts, mitigation measures, monitoring and reporting requirements, and timing.

**TABLE 8-1
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT**

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Aesthetics				
<p>Impact 4.1-3: Construction of the proposed project could substantially degrade the existing visual character or quality of the site and its surroundings. <i>Less than Significant with Mitigation (Class II).</i></p>	<p>Mitigation Measure 4.1-3: The applicant shall implement measures to reduce visual intrusion during construction. The applicant shall provide the following in its design, and in its construction specifications:</p> <ul style="list-style-type: none"> • The project design shall retain mature trees and existing woody vegetation to the maximum extent practicable. For any tree removed, Mitigation Measure 4.3-5 which requires the provision of replacement trees for trees approved for removal (See Section 4.3, <i>Biological Resources</i> for further details) shall be implemented. • The applicant shall implement Mitigation Measures 4.2-1a and 4.2-1b (Section 4.2, <i>Air Quality</i>) which requires the Contractor to water areas where dust is generated, particularly along unpaved haul routes and during earth-moving activities, to reduce visual impacts caused by dust. • Where possible, construction staging areas for equipment, personal vehicles, and material storage shall be sited to take advantage of natural screening opportunities provided by existing topography and vegetation and shall be located away from heavily traveled roadways and sidewalks. 	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>IMMC to submit final landscape plan to City for review and approval.</p> <p>See Mitigation Measure 4.3-5 for removal requirements.</p> <p>See Mitigation Measure 4.2-1a and 4.2-1b.</p> <p>IMMC to submit final site plans to City for review and approval.</p>	<p>Prior to issuance of grading permits.</p> <p>See Mitigation Measure 4.3-5 for removal requirements.</p> <p>See Mitigation Measure 4.2-1a and 4.2-1b.</p> <p>At least one month prior to construction of the proposed project.</p>
<p>Impact 4.1-4: Operations of the proposed project could substantially degrade the existing visual character or quality of the site and its surroundings. <i>Less than Significant with Mitigation (Class II).</i></p>	<p>Mitigation Measure 4.1-4a: The applicant shall submit landscape plans prepared by a licensed landscape architect or certified arborist in accordance with the City's Development Code 17.34.130 and 17.34.140. The plans shall specify use of well-drained soils and tree species that are non-invasive to riparian vegetation. The plans shall be submitted to, reviewed and approved by the City of Grass Valley prior to commencement of construction.</p> <p>Mitigation Measure 4.1-4b: Implement Mitigation Measure 4.3-5.</p>	<p>IMMC and its contractor(s) to implement measure as defined.</p> <p>See Mitigation Measure 4.3-5.</p>	<p>IMMC to submit final landscape plans to City. City for review and approval.</p> <p>See Mitigation Measure 4.3-5.</p>	<p>Prior to issuance of grading permits.</p> <p>See Mitigation Measure 4.3-5.</p>

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Air Quality				
<p>Impact 4.2-1: Activities associated with project construction, operation and reclamation would generate criteria pollutant emissions at the project sites and along haul routes. <i>Significant and Unavoidable with Mitigation</i> (Class I).</p>	<p>Mitigation Measure 4.2-1a: <i>Dust Control Plan for Construction.</i> The applicant shall submit a <i>Dust Control Plan</i> for NSAQMD approval prior to any surface disturbance, including clearing of vegetation. The applicant shall be responsible for ensuring that all adequate dust control measures are implemented in a timely manner during construction, operation and reclamation. Conditions of the <i>Dust Control Plan</i> shall include the following:</p> <ul style="list-style-type: none"> • All material excavated, stockpiled, or graded shall be sufficiently watered, treated, or covered to prevent fugitive dust from leaving the property boundaries and causing a public nuisance or a violation of an ambient air standard. Watering shall occur at least twice daily, with complete site coverage, if the surface is not already moist from rain or snow. • All areas with vehicle traffic shall be watered or have dust palliative applied as necessary for regular stabilization of dust emissions. The applicant shall pave the main haul roads. • All on-site vehicle traffic shall be limited to a speed of 15 mph on unpaved roads. • All land clearing, grading, earth moving, or excavation activities on a project shall be suspended as necessary to prevent excessive windblown dust when winds are expected to exceed 20 mph. • All inactive portions of the development site shall be covered, seeded, or watered until a suitable cover is established. Alternatively, the applicant may apply City-approved non-toxic soil stabilizers (according to manufacturers specifications) to all inactive construction areas (previously graded areas which remain inactive for 96 hours) in accordance with the local grading ordinance. 	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>NSAQMD to review and approve <i>Dust Control Plan</i>.</p> <p>City mitigation monitor to monitor compliance at least once per week.</p> <p>City mitigation monitor to monitor compliance at least once per week.</p> <p>City mitigation monitor to monitor compliance at least once per week.</p> <p>City mitigation monitor to monitor compliance when high wind speeds are anticipated.</p> <p>City mitigation monitor to monitor compliance at least once per week.</p>	<p>Prior to construction of the proposed project.</p> <p>During construction, operation, and reclamation of the proposed project.</p> <p>Main haul roads shall be paved and other roads treated with dust palliatives prior to commencement of construction. During construction operation and reclamation of the proposed project.</p> <p>During construction operation and reclamation of the proposed project.</p> <p>During construction and reclamation of the proposed project.</p>

**TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT**

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Air Quality (cont.)				
Impact 4.2-1 (cont.)	<ul style="list-style-type: none"> • All material transported off-site shall be either sufficiently watered or securely covered to prevent public nuisance, and there must be a minimum of six (6) inches of freeboard in the bed of the transport vehicle. • Paved streets adjacent to the project shall be swept or washed at least once per day, or more frequently if necessary to remove excessive or visibly raised accumulations of silt and/or mud from activities at the project sites. • The applicant shall re-establish ground cover on the project sites through seeding and watering in accordance with the local grading ordinance. 		<p>City mitigation monitor to monitor compliance at least once per week.</p> <p>City mitigation monitor to monitor compliance at least once per week.</p> <p>City mitigation monitor to monitor compliance.</p>	<p>During construction, operation and reclamation of the proposed project.</p> <p>During construction, operation and reclamation of the proposed project.</p> <p>Upon completion of grading activities.</p>
	<p>Mitigation Measure 4.2-1b: Mitigations for Use During Construction.</p> <p>For all Significance Level Thresholds (A, B and C)</p> <p>a. Alternatives to open burning of vegetative material shall be used unless deemed infeasible by the NSAQMD. Among suitable alternatives are chipping, mulching, or conversion to biomass fuel.</p> <p>b. Adequate dust control measures shall be implemented in a timely and effective manner during construction, operation and reclamation (pursuant to the project's Dust Control Plan).</p> <p>c. Temporary traffic control shall be provided during all phases of the construction to improve traffic flow as deemed appropriate by the City of Grass Valley Engineering Department in coordination with the Nevada County Transportation Commission and/or Caltrans.</p> <p>d. Construction activities shall be scheduled to direct traffic flow to off-peak hours as much as practicable.</p>	<p>IMMC and its contractor(s) to implement measures as defined.</p>	<p>City mitigation monitor to monitor compliance at least once per week.</p> <p>City mitigation monitor to monitor compliance at least once per week.</p> <p>Traffic Control Plan to be submitted to the City and County for review and approval.</p> <p>City mitigation monitor to monitor compliance at least once per week.</p> <p>IMMC to submit construction schedule to City for review and approval.</p> <p>City mitigation monitor to monitor compliance at least once per week.</p>	<p>During construction of the proposed project.</p> <p>During construction of the proposed project.</p> <p>Prior to construction and reclamation of the proposed project.</p> <p>During construction and reclamation of the proposed project.</p> <p>Prior to construction and reclamation of the proposed project.</p> <p>During construction and reclamation of the proposed project.</p>

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Air Quality (cont.)				
Impact 4.2-1 (cont.)	<p>Additional Measures For Classification as Level C Threshold</p> <p>e. All controls discussed above (a-d) shall be implemented.</p> <p>f. During initial grading, earth moving, or site preparation, the applicant shall construct a paved (or dust palliative treated) apron, at least 100 feet in length, onto the paved road(s).</p> <p>g. Wheel washers shall be installed where project vehicles and/or equipment enter and/or exit onto paved streets from unpaved roads. Vehicles and/or equipment shall be washed prior to each trip, if necessary.</p>		<p>See controls a through f, above.</p> <p>City mitigation monitor to monitor compliance at least once per week.</p> <p>City mitigation monitor to monitor compliance at least once per week.</p>	<p>See controls a through f, above.</p> <p>During initial grading, earthmoving, and/or site preparation.</p> <p>Wheel washers to be installed prior to construction.</p> <p>Wheel washers to be used during construction, operation and reclamation of the proposed project.</p>
	<p>Mitigation Measure 4.2-1c: Public Transit and Traffic-Flow Improvements. The applicant shall coordinate with the Nevada County Transportation Commission and implement the following measures to provide or improve public transit in the area.</p> <ul style="list-style-type: none"> The project shall provide for a bus turnout, passenger benches, and shelter on Route 8 near the project main entrance and as demand and service routes warrant, subject to review and approval by the City of Grass Valley Planning Department in coordination with the Nevada County Transportation Commission. The project shall contribute to traffic-flow improvements (such as right-of-way or capital improvements) at project impacted critical intersections, as defined in Section 4.13. <i>Transportation and Traffic</i>, that will reduce emissions and are not considered substantially growth inducing. 	IMMC and its contractor(s) to implement measure as defined.	<p>IMMC to submit implementation plan to the City and County for review and approval.</p> <p>City mitigation monitor to monitor compliance.</p> <p>City to coordinate with IMMC when opportunities for contribution become available.</p>	<p>Prior to construction of the proposed project.</p> <p>During Phase I of construction of the proposed project.</p> <p>During all phases of construction and operation whenever new traffic flow improvements are proposed or constructed in the project vicinity.</p>

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Air Quality (cont.)				
Impact 4.2-1 (cont.)	<p>Mitigation Measure 4.2-1d: Control Devices. The applicant shall incorporate the following control devices and methods into the project design:</p> <ul style="list-style-type: none"> • Ceramics Process: Install low-NOx burners (reduces NOx) and Venturi Scrubbers (reduces PM). • Mill Operations (methods to reduce PM): <ul style="list-style-type: none"> - Install screens on the mobile grizzly and jaw crusher (underground); - Implement wet suppression for outside conveyors, during material transfer to stockpiles, and at the apron feeder; - Install Venturi Scrubbers for indoor crushers, dryers, and electrowinning cells. • Off-road Diesel Equipment: Install catalytic converters and use equipment that meets at least EPA Tier 3 standards. • Underground diesel equipment shall be retrofitted with diesel particulate filters.¹ • All equipment, except for gasoline powered pick-up trucks and cars, shall use ultra-low sulfur fuel (15 ppm sulfur).² • The primary contractor shall be responsible to ensure that all off-road equipment and on-road trucks used in construction and operational activities are properly tuned and maintained. • Minimize idling time to 5 minutes for all off-road equipment and on-road trucks. 	<p>IMMC and its contractors to implement measure as defined.</p>	<p>IMMC to submit "as built plans" and verification including photo documentation of compliance to City</p> <p>IMMC to submit "as built plans" and verification including photo documentation of compliance to City</p> <p>City mitigation monitor to monitor compliance at least once a week.</p> <p>IMMC to submit verification of compliance to City.</p> <p>IMMC to submit verification of compliance and subsequent maintenance to City.</p> <p>IMMC to submit verification of compliance to the City.</p> <p>IMMC to submit verification of compliance and subsequent maintenance to City.</p> <p>City mitigation monitor to monitor compliance at least once a week.</p>	<p>Within one week of installation.</p> <p>Within one week of installation.</p> <p>Prior to and during mill operations.</p> <p>Prior to and during construction, operation and reclamation of the proposed project.</p> <p>Prior to and during construction, operation and reclamation of the proposed project.</p> <p>During construction, operation and reclamation of the proposed project.</p> <p>During construction, operation and reclamation of the proposed project.</p> <p>During construction, operation and reclamation of the proposed project.</p>

¹ Diesel particulate filters, however, would not be installed in "Jumbos" and "Rockbolters". Assumed to reduce DPM emissions by 85% and CO emissions by 60%.

² Ultra-low sulfur fuel is assumed to reduce DPM and SO₂ emissions by 15%.

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Air Quality (cont.)				
Impact 4.2-1 (cont.)	<p>Mitigation Measure 4.2-1e: Offsite Mitigation. Prior to beginning any construction activities, the applicant shall coordinate with the City and the NSAQMD to develop an <i>Offsite Air Emission Reduction Plan</i> which shall identify non-project related air emission reduction measures to be implemented and/or funded by the applicant, and the schedule over which such offsite measures shall be implemented. The goal of the Plan shall be to achieve offsite emission reductions of NO_x, ROG, and PM10 equal to a minimum of 10 percent of the project-related emissions remaining after implementation of Mitigation Measures 4.2-1a through 4.2-1d. Such additional measures may include, but are not limited to, the following:</p> <ul style="list-style-type: none"> • Wood stove / fireplace replacement or retrofits with EPA-certified units. • Diesel bus retrofits or replacement with LNG/CNG or hybrid-electric buses. • Replacement of diesel-fueled agricultural pumps with electric pumps. 	IMMC and its contractors to implement measure as defined.	IMMC to coordinate and submit plan to City and NSAQMD for review and approval. IMMC to submit verification of attainment of reduction goal to NSAQMD and City.	Prior to any construction activities. Prior to reclamation activities.
Impact 4.2-2: The proposed project would generate DPM emissions from on-site mobile sources and TAC emissions from processing operations. These emissions would increase exposure to TAC emissions at nearby receptors. <i>Less than Significant with Mitigation (Class II).</i>	<p>Mitigation Measure 4.2-2a: Implement Mitigation Measures 4.2-1a, 4.2-1b, and 4.2-1d.</p> <p>Mitigation Measure 4.2-2b: The applicant shall prepare and submit an <i>Asbestos Dust Mitigation Plan</i> for NSAQMD approval prior to construction.</p>	See Mitigation Measures 4.2-1a, 4.2-1b, and 4.2-1d.	See Mitigation Measures 4.2-1a, 4.2-1b, and 4.2-1d. IMMC to submit the plan to NSAQMD for review and approval. IMMC to submit plan and verification of approval to City	See Mitigation Measures 4.2-1a, 4.2-1b, and 4.2-1d. Prior to construction of the proposed project.
Cumulative Impact 4.2-5: The project could conflict with implementation of State goals for reducing greenhouse gas (GHG) emissions and thereby have an adverse effect on global climate change. <i>Significant and Unavoidable (Class I).</i>	<p>Mitigation Measure 4.2-5: Within one year of project approval, or prior to construction of the ceramics plant, whichever occurs first, the applicant shall develop and implement a <i>Greenhouse Gas Reduction Plan</i> that shall be subject to review and approval by the City of Grass Valley Planning Department. The Plan shall demonstrate to the satisfaction of the City how the applicant shall achieve, by 2020, a minimum 10 percent reduction in annual on-site greenhouse gas emissions as measured from the GHG emission estimated in Table 4.2-8.</p>	IMMC and its contractor(s) to implement plan as defined.	IMMC to submit the plan to the City for review and approval. IMMC to submit verification of implementation to City.	Within one year of project approval, or prior to construction of the ceramics plant, whichever occurs first. During construction, operation and reclamation of the proposed project.

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Air Quality (cont.)				
Cumulative Impact 4.2-5 (cont.)	<p>The plan shall consider implementation of feasible measures that achieve GHG reductions including, but not limited to, the following measures:</p> <ul style="list-style-type: none"> • Implement the <i>Energy Conservation Plan</i> measures described in Chapter 4.15, <i>Energy</i>, Mitigation Measure 4.15-2. This <i>Energy Conservation Plan</i> requires the applicant to exceed the energy efficiency requirements of Title 24 of the California Code of Regulations by a minimum of 14 percent. • Replant trees to replace all trees removed for the project construction, as well as planting additional trees in the project area. • Use alternative fuels in on-site equipment such as B-5 or B-20 Biodiesel, LNG or CNG. • Purchase and use of new underground electric or pneumatic equipment in lieu of diesel equipment. • Recycling of heat in the ceramics plant. 		IMMC to submit verification of attainment of the goal to City	Prior to 2020.
Cumulative Impact 4.2-6: The proposed project, together with anticipated cumulative development in the area, would contribute to regional criteria pollutants, and TACs. <i>Significant and Unavoidable (Class I)</i> .	4.2-6: Implement Mitigation Measures 4.2-1a through 4.2-1e.	See Mitigation Measures 4.2-1a through 4.2-1d.	See Mitigation Measures 4.2-1a through 4.2-1d.	See Mitigation Measures 4.2-1a through 4.2-1d.
Biological Resources				
Impact 4.3-1: Construction, operation and reclamation of the proposed project could affect potentially jurisdictional wetlands and waters of the U.S. on/in the vicinity of the Idaho-Maryland and New Brunswick sites. <i>Less than Significant with Mitigation (Class II)</i> .	<p>Mitigation Measure 4.3-1a: Avoid and minimize disturbance of jurisdictional waters of the U.S. resulting from construction activities on or within the vicinity of the Idaho-Maryland and New Brunswick sites, to the greatest extent practicable.</p> <p>The preferable form of mitigation recommended by the Corps is avoidance of jurisdictional waters. To the greatest extent practicable, the final project design shall minimize or avoid impacts to all jurisdictional waters of the U.S. within and adjacent to the project site. This shall be achieved by redesigning project facilities to avoid impacts where feasible. All construction activities associated with the project shall be limited to the minimum area necessary to complete the work. Additional protection of nearby wetlands and drainages shall be implemented through the provisions of MM 4.3-1b.</p>	IMMC and its contractors to implement measure as defined.	IMMC to submit final site plans to the City for review and approval.	Prior to issuance of building permits.

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Biological Resources (cont.)				
<p>Impact 4.3-1 (cont.)</p>	<p>Mitigation Measure 4.3-1b: Protect Wetlands and Waters of the U.S. on and in the vicinity of the Idaho-Maryland and New Brunswick sites through application of standard Best Management Practices (BMPs) to provide effective erosion and sediment control.</p> <ul style="list-style-type: none"> • BMPs for temporary erosion control (such as silt fences, staked straw bales/wattles, silt/sediment basins and traps, check dams, geofabric, sandbag dikes, and temporary revegetation or other ground cover) shall be employed for disturbed areas, stockpiled soil, and along culverts and drainage ditches on the project sites and in downstream offsite areas that may be affected by construction activities. Requirements for the placement and monitoring of the BMPs shall become part of the contractor's project specifications. Performance and adequacy of the measures shall be determined visually by site construction management and verified by the City as appropriate. • Dirt and debris shall be swept from paved areas in the construction zone on a daily basis as necessary to remove excessive accumulations of silt, mud or other debris. Sweeping and dust removal shall be implemented by the contractor and oversight of these operations the responsibility of the construction site superintendent. • Grass or other vegetative cover shall be established on bare soils within the development site as soon as possible after disturbance. If grass is chosen, a native seed mix shall be used. At a minimum, vegetative application shall be completed by September 15th to allow for plant establishment. No disturbed surfaces or stockpile areas shall be left without erosion control measures in place during the period of October 1 through April 30. The application, schedule, and maintenance of the vegetative cover shall be the responsibility of the contractor and requirements to establish a vegetative cover shall be included in the construction contractor's project specifications. 	<p>IMMC and its contractors to implement measure as defined.</p> <p>IMMC and its contractor(s) to implement the measure as defined.</p> <p>IMMC and its contractor(s) to implement the measure as defined.</p> <p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>City mitigation monitor to monitor compliance at least once a week.</p> <p>City mitigation monitor to monitor compliance at least once a week.</p> <p>City mitigation monitor to monitor compliance at least once a week.</p> <p>IMMC to submit verification of compliance to City.</p> <p>City mitigation monitor to monitor compliance around September 15th and then once a month during the period of October 1 through April 30.</p>	<p>During construction, operation and reclamation of the proposed project.</p> <p>During construction and reclamation of the proposed project.</p> <p>During construction, operation and reclamation of the proposed project.</p> <p>During construction, operation and reclamation of the proposed project.</p>

**TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT**

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Biological Resources (cont.)				
Impact 4.3-1 (cont.)	<ul style="list-style-type: none"> If discharges of sediment or hazardous substances to drainage ways are observed, construction shall be halted until the source of contamination is identified and remediated. Visual indications of such contamination include an oily sheen or coating on water, and noticeable turbidity (lack of clarity) in the water. <p>Mitigation Measure 4.3-1c: Compensatory mitigation for temporary and permanent impacts to wetlands and riparian habitat shall be provided at a ratio as required by regulatory permits but of no less than 1:1. Mitigation shall take the form of wetland preservation, restoration or creation in accordance with Corps and CDFG mitigation requirements, as required under project permits. Permits secured for the project may require higher ratios. Preservation, restoration and creation may occur on-site (through a conservation agreement) or off-site (through purchasing credits at a Corps approved mitigation bank). A wetland mitigation and monitoring plan shall be developed that will outline mitigation and monitoring obligations for impacts to wetlands and other waters as a result of construction activities. This plan shall include thresholds for success, monitoring and reporting requirements, and site specific plans to compensate for wetland losses resulting from the project. This plan shall be submitted to the appropriate regulatory agencies for approval.</p>	IMMC and its contractor(s) to implement the measure as defined	IMMC to notify the City within 30 minutes of discharge. City mitigation monitor to monitor compliance at least once a week.	During construction, operation and reclamation of the proposed project.
Impact 4.3-2: Construction, operation and reclamation of the proposed project could potentially result in adverse impacts to aquatic species and/or their habitat (i.e. riparian, streambed and banks) in Wolf Creek and South Fork Wolf Creek. <i>Less than Significant with Mitigation (Class II).</i>	<p>Mitigation Measure 4.3-2a: Water treatment shall maintain a mean daily dissolved oxygen concentration of not less than 7 mg/l in water discharged to Wolf Creek and South Fork Wolf Creek. Monitoring shall be conducted and recorded on a weekly basis between May 1 and October 31 of all water year types to document compliance. Results of monitoring of dissolved oxygen concentrations in water shall be reported weekly to the City of Grass Valley and made available to DFG upon request.</p> <p>Mitigation Measure 4.3-2b: Water discharged to Wolf Creek and South Fork Wolf Creek shall, consistent with the Basin Plan, not exceed +/- 5°F from the receiving waters between May 1 and October 31 for all water year types. If the temperature difference exceeds +/- 5°F, then the applicant shall stop discharge of the water until the discharge water temperature is brought back within the target limit of +/- 5°F.</p>	IMMC and its contractor(s) to implement the measure as defined.	IMMC to submit verification of compliance to the City and City and DFG upon request weekly.	During construction, operation and reclamation of the proposed project.
		IMMC and its contractor(s) to implement the measure as defined.	IMMC to submit verification of compliance to the City and City and DFG upon request weekly.	During construction, operation and reclamation of the proposed project.

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Biological Resources (cont.)				
Impact 4.3-2 (cont.)	The temperature of the discharge water, as well as the respective receiving waters, shall be monitored and recorded by the applicant on a weekly basis between May 1 and October 31 of all water year types to document that dewatering operations do not increase or decrease the temperature of the natural receiving water more than 5°F. Results of monitoring the temperature of water shall be reported weekly to the City of Grass Valley and made available to DFG upon request.			
	Mitigation Measure 4.3-2c: Implement Mitigation Measure 4.7-4.	See Mitigation Measure 4.7-4.	See Mitigation Measure 4.7-4.	See Mitigation Measure 4.7-4.
	<p>Mitigation Measure 4.3-2d: Construction and removal of in-stream diffusers would occur in late summer and early fall (August 1 through November 30) when flows within Wolf Creek and South Fork Wolf Creek are typically low, to minimize impacts to aquatic species and habitat from potentially adverse water quality impacts. Construction and removal of in-stream diffusers would include the following conditions to further minimize impacts to aquatic wildlife:</p> <ul style="list-style-type: none"> • Installation or removal of diffusers within the wetted width of Wolf Creek or South Fork Wolf Creek shall require construction of a sand bag cofferdam to contain suspended sediments and turbidity. • Installation of a sandbag cofferdam shall occur by hand under the direction and supervision of a qualified fisheries biologist to avoid trapping or crushing aquatic wildlife. • A fish rescue and relocation effort shall be made to reduce the risk of aquatic wildlife being stranded within the cofferdam. 	IMMC and its contractor(s) to implement the measure as defined.	<p>IMMC to submit resume of qualified fisheries biologist to the City and/or DFG for review and approval.</p> <p>City mitigation monitor to monitor compliance at least once a week.</p>	<p>Prior to construction and reclamation.</p> <p>During construction and reclamation.</p>
Impact 4.3-3: Construction and operation of the proposed project has the potential to result in adverse impacts to the following special-status species: valley elderberry longhorn beetle, California red-legged frog, northwestern pond turtle, California horned lizard, and Pine Hill flannelbush. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.3-3a: Valley Elderberry Longhorn Beetle. Elderberry shrubs shall be avoided where possible. The applicant shall ensure that elderberry shrubs within 100 feet of the proposed project shall conform to the following guidelines for avoidance of impacts and “take” as defined under the Endangered Species Act for the valley elderberry longhorn beetle. These guidelines comply with habitat creation and mitigation measures described in the USFWS Conservation Guidelines for the Valley Elderberry Longhorn Beetle (USFWS,	IMMC and its contractor(s) shall implement measure as defined.	City mitigation monitor to monitor compliance at least once a week.	During construction and reclamation.

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Biological Resources (cont.)				
<p>Impact 4.3-3 (cont.)</p>	<p>c. For any directly affected shrubs, the applicant shall provide compensatory mitigation by either: 1) purchasing credits for all required compensation from a USFWS-approved Conservation Bank (i.e. the Sacramento River Ranch Conservation Bank), 2) transplanting the shrubs onto an on-site conservation area (as defined by the USFWS, 1999) and purchasing credits for any remaining mitigation requirements using mitigation ratios described in USFWS Conservation Guidelines for the Valley Elderberry Longhorn Beetle (USFWS, 1999), or 3) transplanting the shrubs onto an on-site conservation area and planting additional seedlings for any remaining mitigation requirements using mitigation ratios described in USFWS Conservation Guidelines for the Valley Elderberry Longhorn Beetle (USFWS, 1999). Each credit purchased from the Conservation Bank shall provide compensatory mitigation for five elderberry stems and five associated native plant species. If the shrubs are relocated to an on-site conservation area, all Conservation Guidelines described by USFWS (1999) for elderberry transplants shall be implemented, and the project proponent's contractor shall coordinate with the USFWS to replant the shrubs.</p>		<p>IMMC to submit a mitigation plan to USFWS for approval.</p> <p>IMMC to submit plan and verification of approval to City.</p> <p>City mitigation monitor to monitor compliance at least once a week.</p>	<p>Prior to issuance of building permits.</p> <p>Prior to issuance of building permits.</p> <p>During construction and reclamation of the proposed project.</p>
	<p>Mitigation Measure 4.3-3b: California red-legged frog. Protocol level surveys for California red-legged frog comprise Part A of this mitigation measure. If the project applicant wishes to avoid performing these surveys, California red-legged frog can be assumed to be present in suitable habitat on the project sites, and Part A of the mitigation measure below would not be required. Parts B through D would still be required if presence is assumed. If protocol level surveys for red-legged frog are performed, and no California red-legged frogs are found during surveys, only part A of the mitigation measure below shall apply. However, if California red-legged frogs are detected during the protocol level surveys, all of the following mitigation shall apply:</p> <p>A. Protocol level surveys for California red-legged frog shall be performed in all suitable aquatic and upland habitats that will be affected by project-related activities. Surveys shall follow the USFWS Revised Guidance on Site Assessments and Field Surveys for the California Red-legged Frog (USFWS 2005).</p>	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>IMMC to provide survey results to the City and any applicable agencies.</p>	<p>Prior to construction of the proposed project.</p>

**TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT**

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Biological Resources (cont.)				
<p>Impact 4.3-3 (cont.)</p>	<p>B. Prior to the initiation of construction activities adjacent to areas supporting aquatic habitat for California red-legged frog, the applicant shall install temporary exclusion fencing to prevent California red-legged frogs in adjacent areas from moving into the project work areas. Access gates to all fenced areas shall be designed to minimize opportunities for California red-legged frog to enter the work area. Fencing and gates shall be designed in consultation with a USFWS-approved biologist.</p> <p>C. The applicant shall implement the following additional mitigation and avoidance measures:</p> <ul style="list-style-type: none"> • The name and credentials of a biologist qualified³ to act as a project biologist/construction monitor shall be submitted to the City and USFWS for approval at least 15 days prior to the commencement of work. • No less than two weeks prior to the beginning of ground-disturbing activities, a qualified biologist shall survey all suitable areas to be disturbed by the operation for California red-legged frog. Daily visual clearance surveys shall also be conducted during initial ground-disturbing activities in areas supporting California red-legged frog habitat. If any California red-legged frogs, tadpoles, or eggs are identified where habitat disturbance is proposed, work shall be halted and a USFWS-approved biologist shall be contacted to determine appropriate actions, unless already stipulated by USFWS. If the USFWS approves moving the frogs, the qualified biologist shall be allowed sufficient time to move the frogs from the work site before work activities resume. Only USFWS-approved biologists shall participate in the capturing, handling, and translocating of California red-legged frogs. Any California red-legged frogs relocated by the Project shall be moved to nearby appropriate habitat, as determined by the qualified biologist. Results of preconstruction activities shall be reported to the USFWS. If California red-legged frogs are not identified, construction may proceed. 		<p>IMMC to submit resume and verification of approval from USFWS to the City.</p> <p>City mitigation monitor to monitor compliance at least once a week.</p> <p>IMMC to submit resume and verification of approval from USFWS to the City.</p> <p>IMMC to provide survey results and verification of USFWS approved mitigation.</p> <p>City mitigation monitor to monitor compliance at least once a week.</p>	<p>Prior to construction of the proposed project.</p> <p>During construction and reclamation of the proposed project.</p> <p>Prior to construction of the proposed project.</p> <p>Prior to construction and reclamation of the proposed project.</p> <p>During construction and reclamation of the proposed project.</p>

³ Any person capturing or handling California red-legged frog shall be a qualified, USFWS-approved biologist. A *qualified biologist*, as the term is used in this section, means any person who has completed at least four years of university training in wildlife biology or a related science and/or has demonstrated field experience in the identification and life history of the species being discussed.

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Biological Resources (cont.)				
<p>Impact 4.3-3 (cont.)</p>	<ul style="list-style-type: none"> • The applicant and its contractors shall complete all work within or adjacent to potential California red-legged frog aquatic habitat between May 1 and November 1 (i.e., during the non-breeding season). • During work activities, trash that may attract predators shall be properly contained, removed from the worksite, and disposed of regularly. Following construction, trash and construction debris shall be removed from work areas. • Prior to construction, a qualified biologist shall survey the project site to document the structure and characteristics of breeding, foraging, and other habitat for California red-legged frog. The applicant shall compensate for the removal of California red-legged frog habitat by restoring or creating habitat suitable for this species (with similar habitat values) at a ratio of 3:1 (or other ratio approved by the USFWS). The location of compensation habitat and the restoration plan for onsite and offsite mitigation shall be approved by the USFWS. • Silt fencing shall be installed in all areas where construction occurs within 100 feet of actively flowing water. • Spoil sites (concrete wash areas) shall be located so they do not drain directly into Wolf Creek, South Fork Wolf Creek or other drainages. If a spoil site drains into a water body, catch basins shall be constructed to intercept sediment before it reaches the channels. Spoil sites shall be graded to reduce the potential for erosion. • Equipment and materials shall be stored at least 50 feet from waterways. No debris (such as trash and spoils) shall be deposited within 100 feet of wetlands. Staging and storage areas for equipment, materials, fuels, lubricants, and solvents shall be located outside of the stream channel and banks. Any equipment or vehicles driven and/or operated within or adjacent to the stream shall be checked and maintained daily to prevent leaks of materials that, if introduced to water, could be deleterious to aquatic life. Vehicles shall be moved away from the stream prior to refueling and lubrication. 		<p>City mitigation monitor to monitor compliance.</p> <p>City mitigation monitor to monitor compliance at least once a week.</p> <p>IMMC to submit survey results and verification of compensation approved by USFWS to City.</p> <p>City mitigation monitor to monitor compliance at least once a week.</p> <p>IMMC to submit site plans to City for review and approval.</p> <p>City mitigation monitor to monitor compliance at least once a week.</p>	<p>During construction and reclamation of the proposed project</p> <p>During construction and reclamation of the proposed project.</p> <p>Prior to construction.</p> <p>During construction and reclamation of the proposed project.</p> <p>Prior to construction and reclamation of the proposed project.</p> <p>During construction and reclamation of the proposed project.</p>

**TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT**

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Biological Resources (cont.)				
<p>Impact 4.3-3 (cont.)</p>	<ul style="list-style-type: none"> Project sites shall be revegetated with an appropriate assemblage of native upland vegetation and, if necessary, riparian and wetland vegetation suitable for the area. A plan describing pre-project conditions as well as restoration and monitoring success criteria shall be prepared and submitted to the City for review and approval prior to construction. <p>D. A qualified biologist shall be present at the work site until such time as all removal of California red-legged frog (if applicable based on instruction by the USFWS), instruction of workers, and initial habitat disturbance have been completed. The qualified biologist shall have the authority to halt any action that might result in "take" of California red-legged frog.</p>		<p>IMMC to submit plan to City for review and approval.</p> <p>City mitigation monitor to monitor compliance at least once a week.</p> <p>IMM to notify City within one hour of halt of construction due to potential take.</p>	<p>Prior to construction.</p> <p>During construction and reclamation of the proposed project.</p>
	<p>Mitigation Measure 4.3-3c: Northwestern pond turtle. No more than two weeks prior to the commencement of ground-disturbing activities, the applicant shall retain a qualified biologist to perform surveys for western pond turtle within suitable habitat on the project site. Surveys shall include western pond turtle nests as well as individuals. The biologist (with the appropriate agency permits) shall temporarily relocate any identified western pond turtles upstream of the construction site, and temporary barriers shall be placed around the construction site to prevent ingress.</p> <p>Construction shall not proceed until the work area is determined to be free of turtles and their nests. The biologist shall be responsible for relocating adult turtles that move into the construction zone after construction has begun. If a nest is located within a work area, the biologist (with the appropriate permits from the CDFG) may move the eggs to a suitable facility for incubation, and release hatchlings into the creek system in late fall. The biologist shall be present on the project site during initial ground clearing and grading, culvert replacement and/or installation over drainages, and during all other construction activities within or adjacent to drainages with the potential to support western pond turtle.</p>	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>IMMC to submit resume to the City.</p> <p>IMMC to submit survey results to City.</p> <p>City mitigation monitor to monitor compliance at least once a week.</p>	<p>No more than two weeks prior to ground-disturbing activities.</p> <p>Within two weeks of survey completion.</p> <p>During construction and reclamation of the proposed project.</p>

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Biological Resources (cont.)				
Impact 4.3-3 (cont.)	<p>Mitigation Measure 4.3-3d: California horned lizard. Not less than two weeks before ground-disturbing activities begin, a qualified biologist shall survey appropriate habitat within the project site that may be directly affected by project activities for the presence of California horned lizard. Daily visual clearance surveys shall also be conducted during initial ground-disturbing activities. If any California horned lizard is identified where habitat disturbance is proposed, work shall be halted and a CDFG-approved biologist shall be contacted to determine appropriate actions, unless already stipulated by the CDFG. If the CDFG approves moving lizards, the qualified biologist shall be allowed sufficient time to move the species from the work site before work activities resume. Only CDFG-approved biologists shall participate in the capturing, handling, and translocation of California horned lizard. Any lizards relocated by the project shall be moved to nearby appropriate habitat, as determined by the qualified biologist. Results of the preconstruction surveys shall be reported to the City and the CDFG.</p>	IMMC and its contractor(s) to implement measure as defined.	<p>IMMC to submit resume and verification of approval from DFG to the City.</p> <p>IMMC to submit survey results to City.</p> <p>City mitigation monitor to monitor compliance at least once a week.</p>	<p>Not less than two weeks prior to ground-disturbing activities.</p> <p>Within two weeks of survey completion.</p> <p>During construction and reclamation of the proposed project.</p>
	<p>Mitigation Measure 4.3-3e: Raptors. If construction activities or tree removals are to commence during the raptor breeding season (February 1 through July 31), the following measures shall be implemented to reduce potential impacts on nesting birds:</p> <ol style="list-style-type: none"> 1. A qualified biologist shall conduct a preconstruction survey of all potential nesting habitats within 500 feet of construction activities. 2. If an active nest is found during the preconstruction survey, coordination with the California Department of Fish and Game shall be required to determine the appropriate protective measures. 	IMMC and its contractor(s) to implement measure as defined.	<p>IMMC to submit resume to the City for review and approval.</p> <p>IMMC to submit survey results to City.</p> <p>IMMC to contact City if active nest are found and provide verification of compliance and agreed upon protective measures to City.</p> <p>City mitigation monitor to monitor compliance at least once a week.</p>	<p>Not more than two weeks prior to construction.</p> <p>Within two weeks of survey completion.</p> <p>Annually, prior to construction and reclamation of the proposed project.</p> <p>During construction and reclamation of the proposed project.</p>

**TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT**

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Biological Resources (cont.)				
<p>Impact 4.3-3 (cont.)</p>	<ol style="list-style-type: none"> 3. If the preconstruction survey indicates that nests are inactive or potential habitat is unoccupied during the construction period, no further mitigation is required. Trees and shrubs that have been determined to be unoccupied by birds or that are located more than 500 feet from active nests may be removed. 4. If an active nest is located within 250 feet of the study area, a biologist shall monitor the nest weekly during the construction to evaluate potential nesting disturbances caused by construction activities. The biological monitor shall have the authority to stop construction if construction appears to be resulting in nest abandonment or forced fledging. No trees with active nests shall be removed until the nest is determined to be inactive. 5. For construction activities (i.e., ground clearing, grading, grubbing, tree removal) scheduled to occur outside of the breeding season (August 1 through January 31), no mitigation is required. If construction activities commence during the non-breeding season and continue into the breeding season, no mitigation is required. Birds that nest in the project area after construction activities are underway are assumed to be acclimated to construction activities. 6. New power poles and associated equipment from the proposed electrical substation shall be designed "avian-safe". "Avian-safe" structures are those that provide adequate clearances to accommodate a large bird between energized and/or grounded parts. Consequently, 60 inches of horizontal separation, which can accommodate the wrist-to-wrist distance of an eagle (which is approximately 54 inches), is used as the standard for raptor protection. Likewise, vertical separation of at least 48 inches can accommodate the height of an eagle from its feet to the top of its head (which is approximately 31 inches). Because dry feathers act as insulation, contact must be made between fleshy parts, such as the wrists, feet, or other skin, for electrocution to occur. In spite of the best efforts to minimize avian electrocutions, some degree of mortality may always occur due to influences that cannot be controlled, e.g. weather. 		<p>IMMC to submit survey results to City.</p> <p>City mitigation monitor to monitor compliance at least once a week.</p> <p>City mitigation monitor to monitor compliance at least once a week.</p> <p>IMMC to submit final plans to the City for review and approval.</p>	<p>Within two weeks of survey completion.</p> <p>During construction and reclamation of the proposed project.</p> <p>During construction and reclamation of the proposed project.</p> <p>At least one month prior to construction of substation and power poles.</p>

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Biological Resources (cont.)				
Impact 4.3-3 (cont.)	<p>Mitigation Measure 4.3-3f: Pine Hill Flannelbush.</p> <p>a. To the extent possible, the final project design shall minimize or avoid impacts to all Pine Hill flannelbush populations within and adjacent to the project site. This shall be achieved by redesigning project facilities to avoid impacts, establishing a visible buffer zone prior to construction in coordination with a qualified biologist, or using other measures recommended by the CNPS (1998). The applicant shall install exclusion fencing, including a buffer zone (25 feet at minimum), around Pine Hill flannelbush populations to be preserved, in order to minimize the potential for direct and indirect impacts.</p> <p>b. In the event that relocation to avoid disturbance or mortality is infeasible, the applicant shall implement the following additional mitigation and avoidance measures:</p> <ul style="list-style-type: none"> • A qualified biologist shall develop a restoration and mitigation plan in coordination with USFWS. At a minimum, the plan shall include collection of seed from affected plants, a full description of microhabitat conditions required for Pine Hill flannelbush in the area, seed germination requirements, proposed restoration techniques for temporarily disturbed plants, assessments of potential transplant and mitigation sites, success and performance criteria, monitoring programs, and measures required to maintain and protect populations within mitigation sites in perpetuity. • Land that supports known populations of Pine Hill flannelbush shall be acquired at ratios acceptable to USFWS and protected in perpetuity. 	IMMC and its contractors to implement measure as defined.	<p>IMMC to submit final plans to the City for review and approval.</p> <p>IMMC to submit verification of approval from USFWS and final restoration and mitigation plan to City.</p> <p>IMMC to submit verification of compliance to City if acquisition is required by USFWS.</p>	<p>Prior to issuance of development permits.</p> <p>Prior to construction of the proposed project.</p> <p>Within two weeks of acquisition.</p>
	<p>Mitigation Measure 4.3-3g: Prior to construction, the applicant shall implement a <i>Workers Environmental Awareness Program (WEAP)</i> that includes a component related to biological resource education for construction crews and contractors (primarily crew and construction foremen). The education program shall include a review of valley elderberry longhorn beetle, California red-legged frog, northwestern pond turtle, California horned lizard, Pine Hill flannelbush, raptors, and other</p>	IMMC and its contractor(s) to implement measure as defined.	IMMC to provide the City with a draft WEAP for review and comment. IMMC to incorporate City comments.	At least one month prior to construction of the proposed project.

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Biological Resources (cont.)				
<p>Impact 4.3-3 (cont.)</p>	<p>special-status species and sensitive resources that could exist in the project study area (including their life history and habitat requirements); the locations of sensitive biological resources on the project site; and their legal status and protection. The education program shall include materials describing sensitive resources, resource avoidance, permit conditions, and possible fines for violations of State or federal environmental laws.</p>		<p>City mitigation monitor to attend and audit program to ensure that all applicable species are reviewed and that workers are properly trained on how to avoid disturbing sensitive species.</p>	<p>At least one week prior to construction and reclamation for WEAP training.</p>
<p>Impact 4.3-5: Construction of the proposed project has the potential to result in adverse impacts to native trees, including oaks and ponderosa pine. <i>Less than Significant with Mitigation (Class II).</i></p>	<p>Mitigation Measure 4.3-5: Provide replacement trees for trees approved for removal.</p> <p>a. Replanting On-site: The applicant shall plant either a minimum one and one-half-inch caliper healthy and well-branched deciduous tree or a five to six foot tall evergreen tree for each tree removed. The replanted tree shall be of a species that will eventually equal or exceed the removed tree in size if appropriate for the new location. The tree shall be planted and maintained in accordance with City policies and standards or recommendations provided by an arborist.</p> <p>b. Replanting Off-site: If in the City's determination there is insufficient available space on the subject property, the replanting required shall occur on other property in the applicant's ownership or control within the City, in an open space tract that is part of the same subdivision, or in a city-owned or dedicated open space or park. Such mitigation planting is subject to the approval of the authorized property owners. If planting on city-owned or dedicated property, the City may specify the species and size of the tree. Nothing in this section shall be construed as an obligation of the City to allow trees to be planted on City-owned or dedicated property.</p> <p>c. Payment in Lieu of Planting: If in the City's determination no feasible alternative exists to plant the required mitigation, the applicant shall pay into the tree account an amount as established by resolution of the City Council.</p>	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>IMMC to submit landscape plan to the City for review and approval. City to determine applicability of off-site replanting and/or compensation.</p> <p>City to monitor compliance.</p>	<p>Prior to issuance of grading permits.</p> <p>During construction of the proposed project.</p>

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Cultural Resources				
<p>Impact 4.4-1: Construction, operation and reclamation activities could adversely impact historic resources as defined in §15064.5 on/within the vicinity of the project sites. <i>Less than Significant with Mitigation (Class II).</i></p>	<p>Mitigation Measure 4.4-1a: The project applicant shall retain a qualified archaeologist to identify the resource, to perform any necessary investigations to determine the significance of the find and record the site as appropriate.</p>	<p>IMMC and its contractors to implement measure as defined.</p>	<p>IMMC to submit resume to the City for review and approval. IMMC to provide results of investigations to the City for review.</p>	<p>Prior to construction of the proposed project. Within two weeks of completion of investigations.</p>
	<p>Mitigation Measure 4.4-1b: Implement Mitigation Measures 4.7-4 and 4.7-4a.</p>	<p>See Mitigation Measures 4.7-4 and 4.7-4a.</p>	<p>See Mitigation Measures 4.7-4 and 4.7-4a.</p>	<p>See Mitigation Measures 4.7-4 and 4.7-4a.</p>
<p>Impact 4.4-2: Construction and operation of the proposed project, including the reclamation plan, could adversely impact significant historical resources, including unique archaeological resources and human remains. <i>Less than Significant with Mitigation (Class II).</i></p>	<p>Mitigation Measure 4.4-2: In the event of accidental discovery of cultural resources, such as structural features or unusual amounts of bone or shell, artifacts, human remains, architectural remains (such as bricks or other foundation elements), or historic archaeological artifacts (such as antique glass bottles, ceramics, horseshoes, etc.), work shall be suspended and City staff shall be contacted. The project applicant shall retain a qualified cultural resource specialist to perform any necessary investigations to determine the significance of the find and shall then implement any mitigation deemed necessary for the recordation and/or protection of the cultural resources. Similarly, in the event of accidental discovery of historic resources, such as mining implements of machinery, during either construction or operation, work shall be suspended and City staff shall be contacted. The project applicant shall retain a qualified historic archaeologist to perform any necessary investigations to determine the significance of the find and shall then implement any mitigation deemed necessary for the recordation and/or curation of the resource. In addition, pursuant to Sections 5097.97 and 5097.98 of the California Public Resources Code and Section 7050.5 of the California Health and Safety Code, in the event of the discovery of human remains, all work shall be halted and the Nevada County Coroner shall be notified immediately. If the remains are determined to be Native American, guidelines of the Native American Heritage Commission shall be adhered to in the treatment and disposition of the remains.</p>	<p>IMMC and its contractors to implement measure as defined.</p>	<p>IMMC to suspend all work and contact City if an archeological resources is discovered. City mitigation monitor to monitor compliance at least once per week.</p>	<p>During construction and reclamation of the proposed project.</p>

**TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT**

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Cultural Resources (cont.)				
<p>Impact 4.4-3: Construction, operations, and reclamation activities associated with the proposed project could adversely impact a unique paleontological resource or site or unique geologic feature. <i>Less than Significant with Mitigation (Class II).</i></p>	<p>Mitigation Measure 4.4-3: In the event a fossil is discovered during any ground disturbing activities, excavations within 50 feet of the find shall be temporarily halted or diverted until the discovery is examined by a qualified paleontologist, in accordance with Society of Vertebrate Paleontology standards (SVP, 1995), the discovery shall be documented as needed, the potential resource evaluated, and the significance of the find shall be assessed under the criteria set forth in Section 15064.5 of the CEQA Guidelines. The paleontologist shall notify the City Planning Department to determine procedures to be followed before construction is allowed to resume at the location of the find. If the City Planning Director determines that avoidance is not feasible, the paleontologist shall prepare an excavation plan for mitigating the effect of the project on the qualities that make the resource important, and the plan shall be implemented. The plan shall be submitted to the City Planning Department for review and approval.</p>	<p>IMMC and its contractors to implement measure as defined.</p>	<p>IMMC to submit resume to the City for review and approval.</p> <p>If a fossil is discovered, the City is to be notified within one hour. Subsequently, a qualified paleontologist is to coordinate with City Planning Director to determine appropriate actions.</p> <p>City mitigation monitor to monitor compliance at least once per week.</p>	<p>Prior to construction of the proposed project.</p> <p>During construction and reclamation of the proposed project.</p> <p>During construction and reclamation of the proposed project.</p>
Geology, Soils, and Seismicity				
<p>Impact 4.5-1: Proposed dewatering and mining activity could cause shallow mine workings to cave-in resulting in subsidence at the ground surface at some locations. Subsidence due to collapsed shallow tunnels and mine portals could injure mine workers and the public or result in property loss both at the project site and on adjacent parcels. <i>Less than Significant with Mitigation (Class II).</i></p>	<p>Mitigation Measure 4.5-1: The applicant shall identify current mine workings that are less than 70 feet deep (considered shallow), regardless of whether they are utilized during the proposed project or would remain unaffected. The applicant shall retain a licensed geotechnical engineer (per approval by the City of Grass Valley) to perform a detailed, third-party evaluation of the existing, shallow mine workings. The applicant shall complete the evaluation prior to the start of project construction. Through this evaluation, the mining engineer, with assistance from the applicant, shall establish sufficient data to determine whether the particular shallow mine working is susceptible to failure. Information required by this evaluation includes, but is not necessarily limited to, tunnel depth, underlying geology, relative rock strengths, size of the mine working, and groundwater conditions. Using generally accepted mine engineering practice, including American Society of Testing and Materials (ASTM) standards for rock strength testing, the third party review shall demonstrate that shallow mine workings would not fail under static and earthquake conditions and that the concrete collar at the Brunswick Shaft is competent to support the weight of the proposed equipment. If the third-party review determines a potential subsidence hazard</p>	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>IMMC to submit to City for review and approval the completed report prepared by the third-party mining engineer and a detailed schedule outlining the process and schedule necessary to rectify identified subsidence hazards.</p>	<p>Prior to dewatering and mining activities.</p>

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Geology, Soils, and Seismicity				
Impact 4.5-1 (cont.)	exists, the applicant and the third party licensed engineer shall 1) develop feasible corrective measures to be included as part of the project, 2) have the measures approved by the City of Grass Valley, and 3) ensure that all corrective actions are completed before project construction begins. The corrective measures recommended by the third party engineer shall effectively reduce or eliminate the risk of subsidence in the event that the underlying mine working collapsed. Measures could include but are not limited to shoring, tie-backs, steel supports, concrete mesh, rock bolting, steel reinforced concrete. The applicant shall submit to the City of Grass Valley, the completed report prepared by the third-party mining engineer and a detailed schedule outlining the process and schedule necessary to rectify identified subsidence hazards.			
Hazards and Hazardous Materials				
Impact 4.6-1: Construction, operations and reclamation activities would require the use of certain materials such as fuels, oils, solvents, and other chemical products that, in large quantities, could pose a potential hazard to the public or the environment if improperly used or inadvertently released. <i>Less than Significant with Mitigation (Class II).</i>	<p>Mitigation Measure 4.6-1a: <i>Implement Best Management Practices.</i> The applicant and/or its contractor(s) shall implement best management practices including but not limited to the following:</p> <ul style="list-style-type: none"> • Follow manufacturer's recommendations on use, storage, and disposal of chemical products used in construction; • Avoid overtopping construction equipment fuel gas tanks; • Use tarps and adsorbent pads under vehicles when refueling to contain and capture any spilled fuel; • During routine maintenance of equipment, properly contain and remove grease and oils; and • Properly dispose of discarded containers of fuels and other chemicals. <p>Mitigation Measure 4.6-1b: <i>Hazardous Substance Control and Emergency Response Plan.</i> The applicant shall prepare a Hazardous Substance Control and Emergency Response Plan (Plan) and implement it during construction, operations and reclamation to ensure compliance with all applicable Federal, State, and local laws and guidelines regarding the handling of hazardous materials. The Plan shall prescribe hazardous material handling procedures to reduce the potential for a spill,</p>	<p>IMMC and its contractor(s) to implement measure as defined.</p> <p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>City mitigation monitor to monitor compliance.</p> <p>IMMC to submit the Plan to the Nevada County Department of Emergency Services, Hazardous Materials Division for review and approval.</p>	<p>During construction, operations and reclamation of the proposed project.</p> <p>Prior to construction of the proposed project.</p>

**TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT**

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Hazards and Hazardous Materials (cont.)				
Impact 4.6-1 (cont.)	<p>or exposure of the workers or public to hazardous materials. The Plan shall also include a discussion of appropriate response actions in the event that hazardous materials are released or encountered during excavation activities. The applicant shall submit to the City of Grass Valley documentation that the Nevada County Environmental Health Department has approved the plan prior to the commencement of project activities.</p>		<p>IMMC to submit approved plan and verification of approval to City.</p> <p>City mitigation monitor to inspect compliance at least once weekly.</p>	<p>At least one week prior to start of construction.</p> <p>During construction, operations and reclamation of the proposed project.</p>
	<p>Mitigation Measure 4.6-1c: Health and Safety Plan. The applicant shall prepare and implement a Health and Safety Plan to ensure the health and safety of workers and the public during construction, operations and reclamation. The plan shall include information on appropriate personal protective equipment.</p>	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>IMMC to submit the Plan to the City for review and approval.</p> <p>City mitigation monitor to inspect compliance at least once weekly.</p>	<p>At least one month prior to construction of the proposed project.</p> <p>During construction, operations and reclamation of the proposed project.</p>
	<p>Mitigation Measure 4.6-1d: Worker Environmental Awareness Program (WEAP). The applicant shall ensure that an environmental training program is established and implemented to communicate environmental concerns and appropriate work practices to all construction and reclamation field personnel. The training program shall emphasize site-specific physical conditions to improve hazard prevention, and shall include a review of the Health and Safety Plan and the Hazardous Substance Control and Emergency Response Plan. All workers that would be engaged in subsurface construction activities shall be trained to identify signs of previously unidentified contamination. The applicant shall submit documentation to the City of Grass Valley prior to the commencement of construction and reclamation activities that each worker on the project has undergone this training program.</p>	<p>IMMC and its contractor(s) to implement measure as defined.</p> <p>Subsequent training is required for any and all new personnel and/or contractor(s).</p>	<p>IMMC to provide the City with a draft WEAP for review and comment. IMMC to incorporate City comments.</p> <p>City mitigation monitor to attend and audit program to ensure that all applicable hazardous materials information is reviewed and that workers are properly trained on hazardous materials.</p> <p>IMMC shall submit copies of sign-in sheets from the training session(s) to City to verify compliance.</p>	<p>At least one month prior to construction of the proposed project.</p> <p>Training to be completed at least one week prior to start of construction and reclamation of the proposed project.</p> <p>Sign-in sheets to be submitted within two days of any training session prior to/during construction and reclamation of the proposed project.</p>

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Hazards and Hazardous Materials (cont.)				
Impact 4.6-1 (cont.)	Mitigation Measure 4.6-1e: <i>Emergency Spill Supplies and Equipment.</i> The applicant shall ensure that oil-absorbent material, tarps, and storage drums shall be used to contain and control any minor releases. Emergency spill supplies and equipment shall be kept at the project sites adjacent to all areas of work, and shall be clearly marked. Detailed information for responding to accidental spills and for handling any resulting hazardous materials shall be provided in the project's Hazardous Substance Control and Emergency Response Plan (see Mitigation Measure 4.6-1b), which shall be implemented during construction, operations and reclamation.	IMMC and its contractor(s) to implement measure as defined.	City mitigation monitor to inspect compliance at least once weekly.	During construction, operations and reclamation of the proposed project.
Impact 4.6-2: Construction and reclamation activities could release previously unidentified hazardous materials into the environment. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.6-2a: The applicant's <i>Hazardous Substance Control and Emergency Response Plan</i> shall include provisions that would be implemented if any subsurface hazardous materials are encountered during construction or reclamation. Provisions outlined in the plan shall include immediately stopping work in the contaminated area and contacting appropriate resource agencies, including the City of Grass Valley, upon discovery of subsurface hazardous materials. The plan shall include the phone numbers of County and State agencies and primary, secondary, and final cleanup procedures. The Hazardous Substance Control and Emergency Response Plan shall be submitted to the City of Grass Valley for review and approval prior to the commencement of construction or post project reclamation activities.	IMMC and its contractor(s) to implement measure as defined.	City mitigation monitor to inspect compliance at least once weekly.	During construction and reclamation of the proposed project.
	Mitigation Measure 4.6-2b: The applicant shall provide evidence that the due diligence site investigation recommendations made by MACTEC and ERRG have been implemented under the appropriate regulatory oversight (e.g., Department of Toxic Substances Control, Regional Water Quality Control Board, and/or the Nevada County Health Department) to minimize the potential of encountering previously unidentified contamination at the Idaho-Maryland, New Brunswick, and Round Hole sites.	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit verification of compliance to the City.	Within one week of completion of recommendations during construction of the proposed project.
	Mitigation Measure 4.6-2c: The proposed reclamation plan for the project shall require that all contamination that would be capped under the oversight of the Department of Toxic Substances Control shall be left in place with no disturbance to the cap(s) to ensure that the contamination would not be vulnerable to migration. The applicant shall provide the City of	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit map of capped contaminants to the City.	Within one month of commencement of Phase III construction.

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Hazards and Hazardous Materials (cont.)				
Impact 4.6-2 (cont.)	Grass Valley a detailed map of the project site that indicates the locations of all capped contaminants. If circumstances require that the contamination be removed, such remediation activities would be conducted under the oversight of Department of Toxic Substances Control.			
Impact 4.6-4: The Idaho-Maryland site, which is listed as a hazardous material site, could result in a hazard to the public or environment. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.6-4: Implementation of Mitigation Measures 4.6-2a and 4.6-2b.	See Mitigation Measures 4.6-2a and 4.6-2b.	See Mitigation Measures 4.6-2a and 4.6-2b.	See Mitigation Measures 4.6-2a and 4.6-2b.
Impact 4.6-5: The proposed project could expose nearby residences to hazardous emissions, including diesel particulate matter (DPM) and toxic air contaminants (TACs). <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.6-5: Implementation of Mitigation Measures 4.2-2a and 4.2-2b.	See Mitigation Measures 4.2-2a and 4.2-2b.	See Mitigation Measures 4.2-2a and 4.2-2b.	See Mitigation Measures 4.2-2a and 4.2-2b.
Impact 4.6-6: Construction and reclamation activities could ignite dry vegetation and start a fire. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.6-6: All construction vehicles and work areas shall have fire suppression equipment and construction personnel shall be required to park vehicles away from dry vegetation. The applicant shall contact and coordinate with the City of Grass Valley Fire Department, the Nevada County Fire Department, and the California Department of Forestry and Fire Protection (Cal-Fire) to determine the minimum amounts of fire equipment to be located at the construction site and appropriate size and locations for the water tanks and/or water trucks. The applicant shall submit verification of its consultation with the City of Grass Valley Fire Department, the Nevada County Fire Department, and Cal-Fire to the City of Grass Valley.	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit verification of its consultation with the City of Grass Valley Fire Department, the Nevada County Fire Department, and Cal-Fire to the City of Grass Valley.	One month prior to construction and reclamation of the proposed project.
Hydrology and Water Quality				
Impact 4.7-2: Proposed project operation and reclamation activities, including mine dewatering, may violate water quality standards or waste discharge requirements or could substantially degrade water quality within Wolf Creek and South Fork Wolf Creek. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.7-2: The applicant shall design and construct its wastewater treatment system to effectively treat the liquid waste associated with the gold mill process, including residual sodium cyanide, flotation reagents, by-products from the gold mill process, and residual sodium chemicals present from the neutralization of sodium cyanide sludge material. The treatment process can either be designed as an integral component of the overall wastewater treatment system or be designed as a separate, in-line pre-treatment process. The applicant shall demonstrate to the RWQCB and the City of Grass Valley that the proposed treatment system effectively treats mine discharge water, storm water, and gold mill process	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit detailed plans and narratives describing the wastewater treatment systems to the RWQCB and City verifying effectiveness of system. RWQCB, the City and its consultants to review and approve plan.	At least two months prior to any mine dewatering. Within one month of receiving information from IMMC.

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Hydrology and Water Quality (cont.)				
Impact 4.7-2 (cont.)	water to applicable water quality standards and discharge requirements. The City of Grass Valley and its consultants shall participate in the review process with the RWQCB, and the RWQCB must approve the treatment strategy prior to implementation by the applicant. Changes to the applicant-proposed treatment system that result from this mitigation measure shall become part of the project and the applicant shall provide the City of Grass Valley and the RWQCB with detailed plans and narratives describing the wastewater treatment system and the required upgrades to the currently or design changes.			
Impact 4.7-3: Mine dewatering activities proposed under the project could reduce groundwater levels or entirely dewater certain high risk domestic groundwater supply wells in the vicinity of the Idaho-Maryland mine site. Well dewatering would lead to a reduction of domestic water supply. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.7-3a: The applicant shall utilize the High, Moderate, Low, and Very Low Risk well group categories as redefined by this EIR for all APMs developed as part of the proposed project.	IMMC and its contractor(s) to implement measure as defined.	City to monitor compliance	Prior to commencement of mine dewatering.
	Mitigation Measure 4.7-3b: Within 14 days of the identification of dewatering impacts within the High to Moderate Risk Well areas, the applicant shall connect the affected well owners home to the NID system. If agreed upon through negotiations with the affected well owner, alternative supplies of water supply and/or a longer time frame for connection to the NID system may be negotiated.	IMMC and its contractor(s) to implement measure as defined.	IMMC to notify City of affected well owner within 2 business days. IMMC to provide to the City verification of connection to NID or negotiated terms for time extension to complete connection to NID.	During dewatering process. Within one week of connection to NID system or within one week of mutual agreement to extend the time required for connection and within one week of connection to NID system.
	Mitigation Measure 4.7-3c: In the event that dewatering impacts occur at a currently operable domestic water supply well, which is considered a High to Moderate Risk Well but that is not currently part of the groundwater monitoring program, the applicant shall ensure that the property is provided with NID water supply.	IMMC and its contractor(s) to implement measure as defined.	IMMC to provide verification of compliance to the City.	Within 14 days of the identification of dewatering impacts, or within a longer time frame that is agreed upon through negotiation that is satisfactory to the well owner
	Mitigation Measure 4.7-3d: In the event that dewatering impacts occur at domestic water supply well(s) after the initial mine dewatering process is considered complete (current estimates indicate that initial mine dewatering will take between 8 to 12 months), and after the 12 month period defined under	IMMC and its contractor(s) to implement measure as defined.	City mitigation monitor to monitor compliance.	After initial mine dewatering process is considered complete.

**TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT**

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Hydrology and Water Quality (cont.)				
Impact 4.7-3 (cont.)	<p>APM 9, the applicant shall remain responsible to provide a temporary water source to the affected well owner prior to the installation of a permanent water source. Determination of whether the well loss was due to mine dewatering or a related activity shall be made by a qualified third party consultant selected mutually by the City and the applicant. The temporary water source shall be in place and operational within 10 working days after the first conclusive sign of impact, while ample well water is still available. Should an impact occur in the form of an unexpected and sudden failure of a well before the temporary supply is established, the affected resident shall be provided an immediate source of water supply by the applicant. The costs of all immediate and temporary water supplies and storage facilities shall remain the burden of the applicant.</p>			
	<p>Mitigation Measure 4.7-3e: In the event that dewatering impacts occur and the property of the affected well owner is included into the NID water service system, the well(s) that are no longer in service shall be decommissioned and/or destroyed within six months of the establishment of NID water service system connection for the property. All costs associated with the decommissioning/destruction of unused water supply wells shall be the responsibility of the applicant.</p>	IMMC and its contractor(s) to implement measure as defined.	City mitigation monitor to monitor compliance.	During and following mine dewatering activities.
<p>Impact 4.7-4: The proposed project would require the discharge of mine water into Wolf Creek (from the Idaho-Maryland site) and South Fork Wolf Creek (from the New Brunswick site). Such an action would alter the natural drainage pattern of the project site, potentially inducing substantial erosion and downstream sedimentation, and/or resulting in a violation of existing water quality standards. <i>Less than Significant with Mitigation (Class II).</i></p>	<p>Mitigation Measure 4.7-4: The discharge location for the dewatering operations at the New Brunswick site shall be moved to the location on South Fork Wolf Creek designated on Figure 4.7-4, which is approximately 1,500 feet downstream of the proposed discharge location.⁴ The proposed energy dissipation features for this discharge shall remain the same.</p>	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit plans of discharge pipeline to City for review and approval.	Prior to issuance of building permits.
	<p>Mitigation Measure 4.7-4a: In addition to the discharge pipe extending from the treatment plant at the New Brunswick site to the new discharge location specified in Mitigation Measure 4.7-4, the applicant shall install a small diameter pipeline from the treatment location at the New Brunswick site to the discharge location on South Fork Wolf Creek originally proposed as part of the project. This small diameter pipe shall supply a continuous low flow (i.e., 1-2 cfs) at this location on the creek to supplement potential surface water loss if it were to occur as a consequence of mine dewatering. Installation of the pipe is not</p>	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit plans of discharge pipeline to City for review and approval.	Prior to issuance of building permits.

⁴ The exact location was flagged and marked in the field by ESA staff on May 12, 2008.

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Hydrology and Water Quality (cont.)				
Impact 4.7-4 (cont.)	contingent on whether or not surface water losses are observed in the creek; this low flow supply shall be installed, maintained and energized concurrently with the main discharge pipe from the water treatment plant.			
	Mitigation Measure 4.7-4b: The applicant shall place abutments, footing, access ways and other facilities associated with the treatment plant discharge pipe well outside the riparian areas of the two streams the pipe alignment would cross. Proposed locations of the abutments, footings and other facilities shall be verified by the City of Grass Valley prior to pipeline construction.	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit plans of discharge pipeline to City for review and approval. City to verify proposed locations for abutments, footings and other facilities.	Prior to issuance of building permits. Prior to construction of treatment plant discharge pipe.
Impact 4.7-5: The proposed project would require the discharge of mine water into Wolf Creek (from the Idaho-Maryland site) and South Fork Wolf Creek (from the New Brunswick site). The increased flows could increase the potential for flooding downstream. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.7-5: The 75 percent critical flow depth (as summarized in Table 4.7-3) shall be permanently marked (e.g., with a staff plate) at each of the four culvert locations. During the period of initial dewatering, these locations shall be monitored by the applicant during periods of high flow (e.g., storm events). Discharges from the mine operation shall cease upon the water surface elevation reaching the 75 percent capacity mark at any of the four culverts; discharges may commence once the water surface elevation is below the 75 percent capacity mark at all four culvert locations.	IMMC and its contractor(s) to implement measure as defined.	IMMC submit monitoring reports to the City for review at least once a month. IMMC to notify City if 75 percent capacity is reached and operations ceased.	During initial period of mine dewatering. During operation and reclamation of the proposed project.
Land Use, Plans, and Policies				
Impact 4.8-1: The proposed project, including proposed annexation of the Idaho-Maryland site into the City of Grass Valley, proposed General Plan Amendments, proposed zoning changes, and operation of a gold mine would result in a change to land uses at the project sites and could conflict with existing adopted applicable land use plans and policies. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.8-1a: If the project applicant's Planned Development Permit Application is not approved by the City of Grass Valley, then the project applicant shall redesign its headframe on the New Brunswick site to conform with the M1-SP zoning district height limit (up to 54 feet in height). In the alternative, the project applicant shall submit a Variance application to the City for approval to request a waiver or modification of the height standards set forth in the County's Development Code; if this application is not approved, the project applicant must conform to the existing height regulations.	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit variance application to City, if required, for review and approval.	Prior to issuance of building permits.
	Mitigation Measure 4.8-1b: If the project applicant's Planned Development Permit Application is not approved by the City of Grass Valley, then the project applicant shall redesign its ceramics plant, gold process plant, and shaft headframe to conform with the M-2 zoning district 50-foot height limit. In the	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit variance application to City, if required, for review and approval.	Prior to issuance of building permits.

**TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT**

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Land Use, Plans, and Policies (cont.)				
<p>Impact 4.8-1 (cont.)</p>	<p>alternative, the project applicant shall submit a Variance application to the City for approval to request a waiver or modification of the height standards set forth in the City's Development Code; if this application is not approved, the project applicant must conform to the existing height regulations.</p>			
	<p>Mitigation Measure 4.8-1c: Implement Mitigation Measure 4.3-5.</p>	<p>See Mitigation Measure 4.3-5.</p>	<p>See Mitigation Measure 4.3-5.</p>	<p>See Mitigation Measure 4.3-5.</p>
	<p>Mitigation Measure 4.8-1d: Consistent with the City's Park Rules and Regulations, the project applicant shall make its historical display/park available to the public free of admission fees from dawn until dusk. The applicant may charge fees for and determine the hours of operation of its education center. After reclamation, the applicant shall also provide a financing mechanism to cover projected maintenance costs for these recreational facilities to the City.</p> <p>If the project applicant does not make its historical display/park available to the public free of admission fees from dawn until dusk, then the project applicant shall pay to the City of Grass Valley an in-lieu fee in an amount adequate (i.e., fair share), as defined by the City, to address the loss of a planned Neighborhood/Pocket Park on the Idaho-Maryland site. This shall ensure that the necessary recreational land is available for use by the City.</p>	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>IMMC to submit documentation of operations of historical display/park and education center to the City for review and subsequent negotiations; if required.</p>	<p>Prior to issuance of building permits.</p>
Noise				
<p>Impact 4.9-1: Construction and reclamation activities associated with the proposed project could expose persons to or generate noise levels in excess of standards established in the local general plans or noise ordinances, or applicable standards of other agencies. <i>Less than Significant with Mitigation (Class II).</i></p>	<p>Mitigation Measure 4.9-1a: In order to avoid noise-sensitive hours of the day and night, construction activities shall comply with the following:</p> <ul style="list-style-type: none"> Construction activities shall be limited to between 7:00 a.m. and 7:00 p.m. and not permitted Sundays and legal holidays. 	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>City mitigation monitor to monitor compliance at least once per week.</p>	<p>During construction and reclamation of the proposed project.</p>
	<p>Mitigation Measure 4.9-1b: To reduce noise impacts due to construction and reclamation, the applicant shall implement the following measures:</p> <ul style="list-style-type: none"> During construction and reclamation, the applicant shall outfit all equipment, fixed or mobile, with properly operating and maintained exhaust and intake mufflers, consistent with manufacturers' standards. 	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>IMMC to submit verification of compliance to City</p>	<p>Prior to construction and reclamation of the proposed project.</p>

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Noise (cont.)				
Impact 4.9-1 (cont.)	<ul style="list-style-type: none"> Impact tools (e.g., jack hammers, pavement breakers, and rock drills) used for construction and/or reclamation shall be hydraulically or electrically powered wherever possible to avoid noise associated with compressed air exhaust from pneumatically powered tools. Where use of pneumatic tools is unavoidable, an exhaust muffler on the compressed air exhaust shall be used. External jackets on the tools themselves shall be used where feasible. Quieter procedures, such as use of drills rather than impact tools, shall be used whenever feasible. 		City mitigation monitor to monitor compliance at least once per week. IMMC to submit verification of compliance to City City mitigation monitor to monitor compliance at least once per week.	During construction and reclamation of the proposed project. Prior to construction and reclamation of the proposed project. During construction and reclamation of the proposed project.
	<ul style="list-style-type: none"> Stationary noise sources that could affect adjacent receptors shall be located as far from adjacent receptors as possible. 		IMMC to submit plan delineating station sources to the City for review and approval.	Prior to construction of the proposed project.
Impact 4.9-2: Project operation could result in a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.9-2a: The applicant shall ensure that noise associated with operation of the Idaho-Maryland Mine facilities will not exceed the City of Grass Valley Noise Standards (described in Table 4.9-2) by implementing the following measures: <ul style="list-style-type: none"> The ventilation systems of the gold process/mill facility and ceramics plant shall require the installation of silencers, acoustical louvers, or lined ducts incorporating 90-degree bends. Any stationary equipment operated outside of buildings, including HVAC equipment (gold process and ceramics plant), fans and cyclones (ceramics plant), and blowers, pumps, and air compressors (water treatment plant) shall have sound insulated enclosures such that the noise level would be limited to 80 dBA at a distance of 50 feet from the equipment. 	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit "as built plans" and verification including photo documentation of compliance to City IMMC to submit "as built plans" and verification including photo documentation of compliance to City	Within one week of installation of ventilation systems. Within one week of installation of any one of the mentioned stationary pieces of equipments.
	Mitigation Measure 4.9-2b: If complaints are received in regards to backup beeper noise, the City shall require the applicant to implement measures to lower the noise level from the beepers at the location of the complaints. The measures could include, but not be limited to:		IMMC and its contractor(s) to implement measure as defined.	

**TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT**

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Noise (cont.)				
<p>Impact 4.9-2 (cont.)</p>	<ul style="list-style-type: none"> Modifying operations to eliminate beepers at the activity area responsible for the complaints; or Reducing the noise level of the beepers at the activity area responsible for the complaints. Reducing the noise level of the beepers could be done by adjusting the level of the beepers or applying improved beeper technologies such as SoundVector™ technology, whereby the warning signal is confined to the equipment or vehicle's immediate hazard zone (i.e., a directional system that creates a loud warning noise directly behind the equipment or vehicle but creates minimal noise at further distances), or self adjusting backup beepers that measure the ambient noise environment and adjust the emitted backup warning noise volume accordingly. 		<p>City to notify IMMC if complaints are received.</p> <p>IMMC to submit verification of compliance to City.</p> <p>City to monitor compliance.</p>	<p>Within one business day of receipt of complaint.</p> <p>Within one week of receiving complaint from the City.</p> <p>During construction, operation and reclamation of the proposed project.</p>
<p>Impact 4.9-3: Construction and/or operations associated with the proposed project would expose persons to or generate excessive ground-borne vibration or ground-borne noise levels. <i>Less than Significant with Mitigation (Class II).</i></p>	<p>Mitigation Measure 4.9-3a: To minimize unexpected vibration disturbance to surface residents, the applicant shall establish and distribute to residents within a 1000-foot radius of the boundary of the underground mine workings a blasting schedule identifying the days and times for any blasting that would occur outside of 8:00 AM to 8:00 PM.</p>	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>City mitigation monitor to monitor compliance.</p>	<p>During all blasting activities.</p>
	<p>Mitigation Measure 4.9-3b: The applicant shall install heavy reinforced tunnel doors to mitigate air-overpressure levels once the decline tunnel has advanced approximately 200 hundred feet.</p>	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>City mitigation monitor to monitor compliance.</p>	<p>Once decline tunnel has advanced approximately 200 hundred feet.</p>
	<p>Mitigation Measure 4.9-3c: The applicant shall implement blasting vibration reduction and/or avoidance measures in addition to the time restrictions in Mitigation Measure 4.9-3a to further reduce the potential for adverse impacts to vibration-sensitive activities at the Linear Technologies building and the Sierra Nevada Memorial Hospital. These measures may include but are not limited to the following:</p> <ul style="list-style-type: none"> The applicant shall measure ground motion at the Linear Technologies building and shall modify blasting procedures if the results of the seismograph vibration levels exceed 0.1 inches per second⁵. Seismographs and procedures used for these measurements shall be in full conformance to the standards developed by the Vibration Section of the Society of Explosives Engineers (ISEE); or 	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>IMMC to provide verification of compliance to the City for review.</p> <p>City mitigation monitor to monitor compliance</p>	<p>Prior and during all blasting activities.</p> <p>During all blasting activities.</p>

⁵ This vibration level is five times less than the typically mandated 0.5 inches per second limit designed to prevent annoyance to building occupants.

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Noise (cont.)				
Impact 4.9-3 (cont.)	<ul style="list-style-type: none"> The applicant shall establish a blasting times notification agreement with Linear Technologies and the Sierra Nevada Memorial Hospital, whereby tunnel and production blasting could occur within specified time periods where sensitive procedures would not be occurring at the facilities of concern, such as during shift change and lunch time. The applicant shall measure ground motion at the Linear Technologies building and the Hospital and shall modify blasting procedures if the results of the seismograph should vibration levels exceed 0.5 inches per second during these non-sensitive periods. Seismographs and procedures used for these measurements shall be in full conformance to the standards developed by the Vibration Section of the Society of Explosives Engineers (ISEE). 			
Population and Housing				
No mitigation required				
Public Services				
Impact 4.11-1: The proposed project could affect Grass Valley Fire Department and the Ophir Hill Fire Protection District's ability to provide adequate fire suppression and emergency services. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.11-1a: The applicant shall include and invite appropriate City of Grass Valley Fire Department and Ophir Hill Fire Protection District personnel in any scheduled safety and rescue training sessions that the applicant is required to receive pursuant to provisions of Title 8 (see below for further details). The Department and the District shall decide cooperatively upon the appropriate fire protection district personnel to be trained.	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit verification of compliance to City.	Prior to construction of the proposed project.
	Mitigation Measure 4.11-1b: Prior to issuance of building permits, the applicant shall pay to the City of Grass Valley and Nevada County public services fees in an amount adequate (i.e., fair share), as defined by the City and County, to address the resulting effect of the project on additional staffing, training, and equipment needed for the City and County Fire Departments. The public service fee agreement shall develop a schedule to periodically review funding during buildout of the proposed project, as project operation is anticipated to occur until the year 2029 and additional fees may be warranted to ensure that fees are commensurate with the impact of the proposed project. Specifically, the applicant shall enter into an agreement for cost-	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit final, executed, agreement to City.	Prior to issuance of building permits.

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Public Services (cont.)				
Impact 4.11-1 (cont.)	sharing of the purchase of a 100-foot Aerial Ladder Fire Truck, or other similar equipment necessary to provide fire protection to the proposed project. Such agreement shall ensure that the necessary equipment is available for use by the Fire Departments prior to issuance of building permits for the proposed project.			
	Mitigation Measure 4.11-1c: If "small and remote" status is granted by the Mine Health and Safety Administration, the applicant shall provide documentation to the City of Grass Valley that at least one mine rescue team has agreed to affiliate with the applicant prior to the commencement of project activities which require the work of personnel below ground. If "small and remote" status is not granted, the applicant shall provide documentation to the City of Grass Valley that two mine rescue teams have agreed to affiliation. The mine rescue teams must be able to arrive at the project sites in less than two hours.	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit verification of compliance to the City.	Prior to start of construction, then annually for the life of the project.
	Mitigation Measure 4.11-1d: Prior to commencement of project activities which require work of personnel below ground, the applicant shall coordinate with the affiliated mine rescue team(s) regarding helicopter access to the project sites. If the affiliated mine rescue team(s) finds that the airport near the project area is insufficient to meet their requirements for helicopter access, the project applicant shall designate an area of the project site to be used as a helispot for City review and approval prior to approval of a grading permit for site improvements.	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit verification of compliance to the City.	Prior to commencement of project activities that would require personnel below ground
	Mitigation Measure 4.11-1e: Prior to issuance of building permits, the applicant shall provide documentation to the City that the design of the proposed water storage facility for fire suppression was coordinated with the City of Grass Valley Fire Department.	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit verification of compliance to the City.	Prior to issuance of building permits.
Impact 4.11-2: Project construction and operation activities, including realignment of public roadways, could potentially affect vehicle access and fire department response times. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.11-2a: The applicant shall coordinate with the Nevada County and the City of Grass Valley emergency service providers, including fire suppression, medical aid, and law enforcement providers, prior to construction to ensure that construction and operation activities and associated road closures and realignment would not significantly affect emergency response vehicles. The applicant shall submit verification of its consultation with emergency service providers to the City of Grass Valley.	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit verification of compliance to the City.	Prior to commencement of construction of the proposed project.

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Public Services (cont.)				
Impact 4.11-2 (cont.)	Mitigation Measure 4.11-2b: Concurrent with construction, operation and reclamation activities, all access and service roads, including gates, shall be made available for use by all emergency response units, including fire suppression, medical aid, and law enforcement.	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit verification of compliance to the City.	During construction, operation and reclamation of the proposed project.
Impact 4.11-3: Implementation of the proposed project could affect both the City of Grass Valley Police Department's and Nevada County Sheriff Department's ability to provide police protection services to the project site and other areas under their jurisdictions. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.11-3a: The applicant shall coordinate and submit a security plan to the City of Grass Valley Police Department for review and approval prior to project implementation. The security plan shall include but not be limited to describing the physical security measures associated with the proposed project as well as the anticipated security staffing needs (i.e., including type and number of personnel). The security plan shall be updated annually and reviewed by the City of Grass Valley Police Department.	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit security plan to City for review and approval. IMMC to submit annual update to City for review and approval.	Prior to issuance of building permits. During construction, operation and reclamation of the proposed project.
	Mitigation Measure 4.11-3b: Prior to issuance of development permits, the applicant shall coordinate and pay to the City of Grass Valley and Nevada County public services fees in an amount adequate to address the resulting effect of the project on additional staffing, training, equipment, and facility needs for the City and County law enforcement departments. The public service fee agreement shall develop a schedule to periodically review funding during buildout of the project, as project operation is anticipated to occur until the year 2029 and additional fees may be warranted to ensure that fees are commensurate with the impact of the proposed project.	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit final, executed, agreement to City.	Prior to issuance of building permits.
Recreation				
Impact 4.12-1: The proposed project could increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facilities would occur or be accelerated. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.12-1: The IMMC shall implement Mitigation Measure 4.8-2b (see Section 4.8, <i>Land Use and Planning</i>) which requires the project applicant to make its historical display/park available to the public free of admission fees from dawn until dusk. The project applicant may charge fees for and determine the hours of operation of its education center. The project applicant shall also provide a financing mechanism to cover projected maintenance costs for these recreational facilities to the City.	See Mitigation Measure 4.8-2b.	See Mitigation Measure 4.8-2b.	See Mitigation Measure 4.8-2b.

**TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT**

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Recreation (cont.)				
Impact 4.12-1 (cont.)	If the project applicant does not make its historical display/park available to the public free of admission fees from dawn until dusk, then the project applicant shall pay to the City of Grass Valley an in-lieu fee in an amount adequate (i.e., fair share), as defined by the City, to address the loss of a planned Neighborhood/Pocket Park on the Idaho-Maryland site. This shall ensure that the necessary recreational land is available for use by the City.			
Transportation / Traffic				
Impact 4.13-1a: Idaho Maryland Road/SR 49 NB ramps (Intersection #2): This All-Way-Stop-Controlled intersection is projected to operate at unacceptable LOS F during the AM and PM peak hours, under Short Range No Project conditions. The intersection would continue to operate at LOS F with the addition of Project traffic. This intersection would meet the peak hour volume signal warrant criteria. This is a significant impact because the proposed project would increase the average delay by more than two seconds. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.13-1a: The City shall install a traffic signal at the unsignalized Idaho Maryland Road/SR 49 NB ramps. Installation of traffic signals shall include the traffic signal equipment with optimized signal phasing and timing (i.e., allocation of green time for each intersection approach), and coordination with signal phasing and timing of adjacent signalized intersections. Signal installation shall meet Caltrans design standards and be subject to the review and approval of Caltrans (SR 49 ramps) and the City. The project applicant shall make its fair share contribution to this improvement as determined by the City's transportation impact fee. This improvement is included as a priority project in the City of Grass Valley Transportation Impact Fee Program Nexus Study.	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit verification of compliance to the City.	Prior to issuance of Phase III building permits.
Impact 4.13-1b: Idaho Maryland Road/Spring Hill Drive (Intersection #4): This Two-Way-Stop controlled intersection is projected to operate at unacceptable LOS F during the PM peak hour under Short Range No Project conditions. The intersection would continue to operate at LOS F with the addition of Project traffic. This intersection would meet the peak hour volume signal warrant criteria. This is a significant impact because the proposed project would increase the average delay by more than two seconds. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.13-1b: The applicant shall design and install a traffic signal at the unsignalized Idaho Maryland Road/Spring Hill Drive prior to issuance of building permits for any Phase III building. Installation of traffic signals shall include the traffic signal equipment with optimized signal phasing and timing (i.e., allocation of green time for each intersection approach), and coordination with signal phasing and timing of adjacent signalized intersections. Signal installation shall meet City design standards and be subject to the review and approval of the City. In the event that full funding for the improvement from other sources is secured as anticipated in the City Roadway CIP, the applicant shall not be required to install the improvement but shall be required to pay its fair share contribution to this improvement through payment of the City Local Traffic Fee. The applicant and City may enter into a reimbursement agreement. This improvement is included as a non-priority project in the City of Grass Valley Transportation Impact Fee Program Nexus Study. However, the exact improvements are not identified in the Nexus study.	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit design to City for review and approval. IMMC to submit verification of completion to the City.	Prior to issuance of Phase III building permits.

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Transportation / Traffic (cont.)				
<p>Impact 4.13-4a: Idaho Maryland Road/SR 49 NB ramps (Intersection #2): This All-Way-Stop-Controlled intersection is projected to operate at unacceptable LOS F during the AM and PM peak hours, under Long Range No Project conditions. The intersection would continue to operate at LOS F with the addition of Project traffic. This intersection would meet the peak hour volume signal warrant criteria. This is a significant impact because the proposed project would increase the average delay by more than two seconds. <i>Less than Significant with Mitigation (Class II).</i></p>	<p>Mitigation Measure 4.13-4a: The City shall install a traffic signal at the unsignalized Idaho Maryland Road/SR 49 NB ramps. Installation of traffic signals shall include the traffic signal equipment with optimized signal phasing and timing (i.e., allocation of green time for each intersection approach), and coordination with signal phasing and timing of adjacent signalized intersections. Signal installation shall meet Caltrans design standards and be subject to the review and approval of Caltrans (SR 49 ramps) and the City. The project applicant shall pay its fair share contribution to this improvement as determined by the City's transportation impact fee. This improvement is included as a priority project in the City of Grass Valley Transportation Impact Fee Program Nexus Study.</p>	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>IMMC to submit verification of compliance to the City.</p>	<p>Prior to issuance of Phase III building permits.</p>
<p>Impact 4.13-4b: Idaho Maryland Road/Spring Hill Drive (Intersection #4): This Two-Way-Stop controlled intersection is projected to operate at unacceptable LOS F during the PM peak hour under Long Range No Project conditions. The intersection would continue to operate at LOS F with the addition of proposed project traffic. This intersection would meet the peak hour volume signal warrant criteria. This is a significant impact because the proposed project would increase the average delay by more than two seconds. <i>Less than Significant with Mitigation (Class II).</i></p>	<p>Mitigation Measure 4.13-4b: The applicant shall design and install a traffic signal at the unsignalized Idaho Maryland Road/Spring Hill Drive prior to issuance of building permits for any Phase III building. Installation of traffic signals shall include the traffic signal equipment with optimized signal phasing and timing (i.e., allocation of green time for each intersection approach), and coordination with signal phasing and timing of adjacent signalized intersections. Signal installation shall meet City design standards and be subject to the review and approval of the City. In the event full funding for the improvement from other sources is secured as anticipated in the City Roadway CIP, the applicant shall not be required to install the improvement but shall be required to pay its fair share contribution to this improvement through payment of the City Local Traffic Fee. The applicant and City may enter into a reimbursement agreement. This improvement is included as a non-priority project in the City of Grass Valley Transportation Impact Fee Program Nexus Study. However, the exact improvements are not identified in the Nexus study.</p>	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>IMMC to submit design to City for review and approval. IMMC to submit verification of completion to the City.</p>	<p>Prior to issuance of Phase III building permits.</p>
<p>Impact 4.13-4c: Bennett Street/SR 49 SB off ramp (Intersection #9) This Two-Way-Stop-Controlled intersection is projected to operate at unacceptable LOS F during the AM and PM peak hours under Long Range No Project conditions. The intersection would continue to operate at LOS F with the addition of proposed project traffic. This intersection would meet the peak hour volume signal warrant criteria. This is a significant impact because the proposed project would</p>	<p>Mitigation Measure 4.13-4c: The applicant shall design and install a traffic signal at the unsignalized Bennett Street/SR 49 SB ramps prior to issuance of building permits for any Phase III building. Installation of traffic signals shall include the traffic signal equipment with optimized signal phasing and timing (i.e., allocation of green time for each intersection approach), and coordination with signal phasing and timing of adjacent signalized intersections. Signal installation shall meet Caltrans design standards and be subject to the review and approval of</p>	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>IMMC to submit design to City for review and approval. IMMC to submit verification of completion to the City.</p>	<p>Prior to issuance of Phase III building permits.</p>

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Transportation / Traffic (cont.)				
<p>increase the average delay by more than two seconds. <i>Less than Significant with Mitigation (Class II).</i></p>	<p>Caltrans (SR 49 ramps) and the City. In addition to a traffic signal improve the southbound approach to include one left-turn lane, one through lane, and one shared through right-turn lane. In the event full funding for the improvement from other sources is secured as anticipated in the City Roadway CIP, the applicant shall not be required to install the improvement but shall be required to pay its fair share contribution to this improvement through payment of the City Local Traffic Fee. The applicant and City may enter into a reimbursement agreement. This intersection is included as a non-priority project in the City of Grass Valley Transportation Impact Fee Program Nexus Study. However the exact improvements are not identified in the Nexus study.</p>			
<p>Impact 4.13-4d: Colfax Avenue/SR 49 Frontage Road (Intersection #13): This Two-Way-Stop-Controlled intersection is projected to operate at unacceptable LOS F during the AM and PM peak hours, under Long Range No Project conditions. The intersection would continue to operate at LOS F with the addition of proposed project traffic. This intersection would meet the peak hour volume signal warrant criteria. This is a significant impact because the proposed project would increase the average delay by more than two seconds. <i>Less than Significant with Mitigation (Class II).</i></p>	<p>Mitigation Measure 4.13-4d: The applicant shall design and install a traffic signal at the unsignalized Colfax Avenue/SR 49 Frontage Road intersection prior to issuance of building permits for any Phase III building. Installation of traffic signals shall include the traffic signal equipment with optimized signal phasing and timing (i.e., allocation of green time for each intersection approach), and coordination with signal phasing and timing of adjacent signalized intersections. It is recommended that the intersection be included in the coordinated signal system of the Neal Street triangle intersections. Signal installation shall meet City design standards and be subject to the review and approval of the City. The following improvements are required in addition to the signal:</p> <ul style="list-style-type: none"> • Improve the eastbound approach to include one left-turn pocket and one through lane • Improve the westbound approach to include one through lane, and one exclusive right-turn lane • Improve and re-stripe the northbound approach to include one shared through left turn lane, one through lane, and one exclusive right-turn lane. Northbound left-turns would be permitted <p>The applicant shall fully fund the design and installation of the improvements. In lieu of installing these improvements the applicant may, at the City's discretion, enter into a long-term funding agreement to ensure the improvements shall be</p>	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>IMMC to submit design to City for review and approval. IMMC to submit verification of completion to the City.</p>	<p>Prior to issuance of Phase III building permits.</p>

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Transportation / Traffic (cont.)				
Impact 4.13-4d (cont.)	installed. The applicant and City may enter into a reimbursement agreement. This intersection is not included in the City of Grass Valley Transportation Impact Fee Program Nexus Study.			
Impact 4.13-4e: South Auburn Street/SR 49 NB off ramp (Intersection #17) This Two-Way-Stop-Controlled intersection is projected to operate at unacceptable LOS F during the AM and PM peak hours under Long Range No Project conditions. The intersection would continue to operate at LOS F with the addition of proposed project traffic. This intersection would meet the peak hour volume signal warrant criteria. This is a significant impact because the proposed project would increase the average delay by more than two seconds. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.13-4e: The applicant shall design and install a traffic signal at the unsignalized South Auburn Street/SR 49 NB off ramp prior to issuance of building permits for any Phase III building. Installation of traffic signals shall include the traffic signal equipment with optimized signal phasing and timing (i.e., allocation of green time for each intersection approach), and coordination with signal phasing and timing of adjacent signalized intersections. Signal installation shall meet Caltrans design standards and be subject to the review and approval of Caltrans (SR 49 ramps) and the City. In addition to a traffic signal improve the northbound approach to include one through lane, and one exclusive right-turn lane. In the event full funding for the improvement from other sources is secured as anticipated in the City Roadway CIP, the applicant shall not be required to install the improvement but shall be required to pay its fair share contribution to this improvement through payment of the City Local Traffic Fee. The applicant and City may enter into a reimbursement agreement. This intersection is included as a non-priority project in the City of Grass Valley Transportation Impact Fee Program Nexus Study. However the exact improvements are not identified in the Nexus study.	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit design to City for review and approval. IMMC to submit verification of completion to the City.	Prior to issuance of Phase III building permits.
Impact 4.13-4f: Idaho Maryland Road/Railroad Avenue (Intersection #3): This All-Way-Stop-Controlled intersection is projected to operate at unacceptable LOS D during the AM and PM peak hours, under Long Range With Project conditions. This intersection would not meet the peak hour volume signal warrant criteria. Proposed project generated traffic would cause the intersection to drop from acceptable LOS C to acceptable LOS D operations. However, this is a significant impact because the proposed project would increase the average delay by more than two seconds. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.13-4f: The City shall improve the westbound approach to include one left turn-pocket and two through lanes. The project applicant shall pay its fair share contribution to this improvement as determined by the City's transportation impact fee. This intersection is included as a non-priority project in the City of Grass Valley Transportation Impact Fee Program Nexus Study.	IMMC and its contractor(s) to implement measure as defined.	IMMC to submit verification of compliance to the City.	Prior to issuance of Phase III building permits.

**TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT**

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Transportation / Traffic (cont.)				
<p>Impact 4.13-8: The proposed project would increase the potential for conflicts among different traffic streams. <i>Less than Significant with Mitigation (Class III).</i></p>	<p>Mitigation Measure 4.13-8: Implement Mitigation Measures 4.11-2a and 4.11-2b.</p>	<p>See Mitigation Measure 4.11-2a and 4.11-2b.</p>	<p>See Mitigation Measure 4.11-2a and 4.11-2b.</p>	<p>See Mitigation Measure 4.11-2a and 4.11-2b.</p>
<p>Impact 4.13-9: Proposed project construction would temporarily affect traffic flow and on-site circulation, parking, and pedestrian safety. <i>Less than Significant with Mitigation (Class II).</i></p>	<p>Mitigation Measure 4.13-9: Traffic Management Plan. Prior to the initiation of each building phase, the project applicant and construction contractor shall meet with the appropriate City and County agencies to determine traffic management strategies to reduce, to the maximum extent feasible, traffic congestion and the effects of parking demand by construction workers during construction of the proposed project. The project applicant shall develop a traffic management plan for review and approval by the City and/or County. The plan shall include at least the following items and requirements:</p> <ul style="list-style-type: none"> • A set of comprehensive traffic control measures, including scheduling of major truck trips and deliveries to avoid peak traffic hours, detour signs if required, lane closure procedures, signs, cones for drivers, and designated construction access routes. • Notification procedures for adjacent property owners and public safety personnel regarding when major deliveries, detours, and lane closures shall occur. • Location of construction staging areas for materials, equipment, and vehicles (must be located on the project site). • Identification of haul routes for movement of construction vehicles that would minimize impacts on vehicular and pedestrian traffic, circulation and safety; and provision for monitoring surface streets used for haul routes so that any damage and debris attributable to the haul trucks can be identified and corrected by the project applicant. • Temporary construction fences to contain debris and material and to secure the site. • Provisions for removal of trash generated by project construction activity. • A process for responding to, and tracking, complaints pertaining to construction activity, including identification of an onsite complaint manager. 	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>Traffic Management Plan to be submitted to the City and/or County for review and approval.</p> <p>City mitigation monitor to monitor compliance at least once per week.</p>	<p>Prior to each phase of construction.</p> <p>During construction of the proposed project.</p>

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Transportation / Traffic (cont.)				
Impact 4.13-9 (cont.)	<ul style="list-style-type: none"> Provisions for monitoring surface streets used for truck routes so that any damage and debris attributable to the trucks can be identified and corrected. <p>Subject to review and approval by the City, prior to start of construction, a construction worker transportation demand management (TDM) program shall be implemented to encourage construction workers to carpool or use alternative transportation modes in order to reduce the overall number of vehicle trips associated with construction workers. The program may also include provisions for off-site construction worker parking with shuttle service between the off-site parking and the project site.</p>			
Impact 4.13-10: The proposed project would result in inadequate parking capacity. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.13-10: Implement Mitigation Measure 4.15-2.	See Mitigation Measure 4.15-2.	See Mitigation Measure 4.15-2.	See Mitigation Measure 4.15-2.
Impact 4.13-11: The proposed project would contribute to the degradation of pavement on public roads. <i>Less than Significant with Mitigation (Class III).</i>	<p>Mitigation Measure 4.13-11a: The project applicant shall conduct core sampling and associated testing of Idaho Maryland Road (between the project access and the SR 49 ramps to the west of the site), and review as-builts if available, in order to determine the roadway thickness, and the condition of the base and subbase of the roadway. If such testing indicates the existing roadway is not designed for and/or in a condition that would accommodate, long-term project truck traffic, the roadway shall be improved as needed (e.g., overlays or reconstruction) per Caltrans Design Manual standards. The project applicant shall pay the full cost of these road improvements, including design and construction.</p> <p>Mitigation Measure 4.13-11b: Prior to Phase I, the project applicant shall enter into a <i>Roadway Maintenance Agreement</i> with the City of Grass Valley providing their proportionate share of the responsibility to maintain the proposed haul roads.</p>	IMMC and its contractor(s) to implement measure as defined.	<p>IMMC to submit core sampling plan to City/Caltrans for review and approval.</p> <p>IMMC to submit results to the City/Caltrans.</p> <p>IMMC to submit verification of compliance to the City.</p>	<p>Prior to issuance of Phase I building permits.</p> <p>Prior to issuance of Phase I building permits.</p>
Utilities and Service Systems				
Impact 4.14-5: Construction activities could inadvertently contact underground utility lines and/or facilities during excavation and other ground disturbance, possibly leading to short-term utility service interruptions. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.14-5: IMMC shall ensure that Underground Service Alert is notified at least two working days prior to initiation of construction activities with ground disturbance. IMMC shall also delineate the area to be excavated, and hand expose to the point of no conflict within the tolerance zone of any utility (i.e., 24 inches on either side of the buried utility).	IMMC and its contractor(s) to implement measure as defined.	City mitigation monitor to monitor compliance.	At least two days prior to all ground disturbing activities.

**TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT**

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
<p>Energy</p> <p>Impact 4.15-2: Operation of the proposed project would increase long-term consumption of electricity at the project sites, which could result in the wasteful use of energy resources that are not renewable. <i>Less than Significant with Mitigation (Class II).</i></p>	<p>Mitigation Measure 4.15-2: The applicant shall develop and implement an <i>Energy Conservation Plan</i> that shall be subject to review and approval by the City of Grass Valley Planning Department prior to issuance of building permits. The applicant shall also develop and include in the Plan a program to monitor compliance with and effectiveness of the <i>Energy Conservation Plan</i>. As part of the Plan, prior to the issuance of each building permit, the applicant shall demonstrate, subject to review and approval by the City of Grass Valley Planning Department, that the design of the building exceeds the energy efficiency requirements of Title 24 of the California Code of Regulations by a minimum of 14 percent. The <i>Energy Conservation Plan</i> may include, but not be limited to, the following energy conservation measures:</p> <p>Energy Efficiency</p> <ul style="list-style-type: none"> • Installation of reflective, Energy Star™ cool roofs to decrease peak electricity demand, and reduce waste stream of roofing debris. • Installation of energy-saving windows, improved insulation, and super-efficient heating/cooling systems, including, wherever feasible, recirculating the process heat from the ceramics plant to heat administration building(s). • Use of high efficiency burners for the kilns proposed as part of the ceramics plant. • Installation of geothermal heat pumps to provide heating, cooling, and hot water. • Installation of motion detectors or dimmers to control lighting • Installation of efficient security, street, and parking lot lighting (e.g., high pressure low sodium fixtures). • Installation of reflective window film or awnings on south and west facing windows. • Installation of Energy Management Systems to control loads based on occupancy, schedule and/or the availability of natural resources such as daylight or natural ventilation. 	<p>IMMC and its contractor(s) to implement measure as defined.</p>	<p>IMMC to submit Energy Conservation Plan to City for review and approval.</p> <p>IMMC to submit verification of compliance to City.</p> <p>City mitigation monitor to monitor compliance</p>	<p>Prior to issuance of building permits.</p> <p>Annually</p> <p>During construction, operation and reclamation of the proposed project.</p>

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Energy (cont.)				
Impact 4.15-2 (cont.)	<ul style="list-style-type: none"> • Use of modular components such as boilers or chillers to optimize part-load efficiency and maintenance requirements. • Use of Direct Digital Controls where applicable. • Provide education to employees on energy efficiency. • Use daylight as an integral part of lighting systems in buildings (i.e., skylights). • Limit the hours of operation of outdoor lighting when such reduction would not result in a security or safety risk. • Incorporate passive solar design features, including the location and orientation of buildings to optimize solar usage. • Use high-performance building envelopes; select walls, roofs, and other assemblies based on long-term, insulation, and durability requirements. <p>Specify Efficient HVAC and Lighting System</p> <ul style="list-style-type: none"> • Use energy efficient HVAC equipment and systems that meet or exceed 10 CFR 434. • Use lighting systems that consume less than 1 watt/square foot for ambient lighting where use of such lighting does not result in a security or safety risk. • Use Energy Star™ approved products or products that meet or exceed Department of Energy Standards. • Use energy recovery systems that pre-heat or pre-cool, incoming ventilation air in commercial and institutional buildings. <p>Renewable Energy</p> <ul style="list-style-type: none"> • Utilize photovoltaic (i.e., solar electric) system on rooftops. An average-sized residential system (2.5 kW) in California produces in excess of 4,000 kW hr annually, which equates to 62 percent of the average electricity demand per residential unit. Commercial systems are generally larger than residential systems and produce commensurately more electricity. [Note: The rule of thumb is that each square foot of photovoltaic cells produces 10 watts of power in bright sunlight.] 			

**TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT**

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Energy (cont.)				
<p>Impact 4.15-2 (cont.)</p>	<ul style="list-style-type: none"> • Obtain at least 20 percent of their electric load for all new buildings from renewable energy (e.g., purchase “green” energy credits or other method of accessing renewable energy from the grid). <p>Recycled Materials</p> <ul style="list-style-type: none"> • Utilize building products that contain post-consumer recycled materials (e.g., specify that construction material uses shall be at least five to 10 percent salvaged or refurbished materials, and/or that a minimum of 25 to 50 percent of building materials shall contain at least 20 percent post-consumer recycled content material or a minimum of 40 percent post-industrial recycled content material). • Install ceiling and wall insulation with recycled material in climate controlled buildings as approved by Building Code. <p>Transportation and Motor Vehicles</p> <ul style="list-style-type: none"> • Utilize local and regional building materials in order to reduce energy consumption associated with transporting materials over long distances. (e.g., survey manufacturers within 500 miles of the project sites and establish a goal to use a minimum of 20 to 50 percent of the total construction materials (by weight) of products that have been extracted, harvested, or recovered, as well as manufactured, within 500 miles of the project sites). • Promote ride sharing programs, e.g., by designating a certain percentage of parking spaces for ride sharing vehicles, designating adequate passenger loading and unloading and waiting areas for ride sharing vehicles, and providing a web site or message board for coordinating rides. • Provide shuttle service to public transit if approval of Mitigation Measure 4.2-1c, Section 4.2, Air Quality, (i.e. bus turnout, passenger benches, and shelter on Route 8 near the project main entrance) is not approved by the City of Grass Valley Planning Department in coordination with the Nevada County Transportation Commission. • Provide public transit incentives such as free or low-cost transit passes. 			

TABLE 8-1 (Continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR IDAHO-MARYLAND MINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this EIR	Implementing Actions	Monitoring/Reporting Requirements	Timing
Energy (cont.)				
Impact 4.15-2 (cont.)	<ul style="list-style-type: none"> • Provide facilities that encourage bicycle commuting, including, e.g., locked bicycle storage or covered or indoor bicycle parking. • Purchase fuel efficient and/or smaller company vehicles as well as vehicles that operate on electricity or alternative, low-emission fuels (e.g., CNG, LNG, or biodiesel) or replace diesel engines to reduce NOx emissions, by such measures as incorporating exhaust gas recirculation (ERG) systems and/or stratified combustion chambers, and/or by using ultra-low sulfur fuel and fuel additives. • Offer employee purchase incentives and/or prioritized parking for hybrid or all electric vehicles. 			
Impact 4.15-3: Operation of the proposed project would increase long-term consumption of natural gas, which could result in the wasteful use of energy resources that are not renewable. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.15-3: Implement Mitigation Measure 4.15-2.	See Mitigation Measure 4.15-2.	See Mitigation Measure 4.15-2.	See Mitigation Measure 4.15-2.
Impact 4.15-4: Construction, operation, and reclamation of the proposed project would increase long-term consumption of petroleum, which could result in the wasteful use of energy resources that are not renewable. <i>Less than Significant with Mitigation (Class II).</i>	Mitigation Measure 4.15-4a: Implement Mitigation Measure 4.15-2.	See Mitigation Measure 4.15-2.	See Mitigation Measure 4.15-2.	See Mitigation Measure 4.15-2.
	Mitigation Measure 4.15-4b: Implement Mitigation Measure 4.2-5.	See Mitigation Measure 4.2-5.	See Mitigation Measure 4.2-5.	See Mitigation Measure 4.2-5.
	Mitigation Measure 4.15-4c: Implement Mitigation Measure 4.2-1d.	See Mitigation Measure 4.2-1d.	See Mitigation Measure 4.2-1d.	See Mitigation Measure 4.2-1d.