



Mining Environmental Monitoring Checklist

Water Quality Monitoring

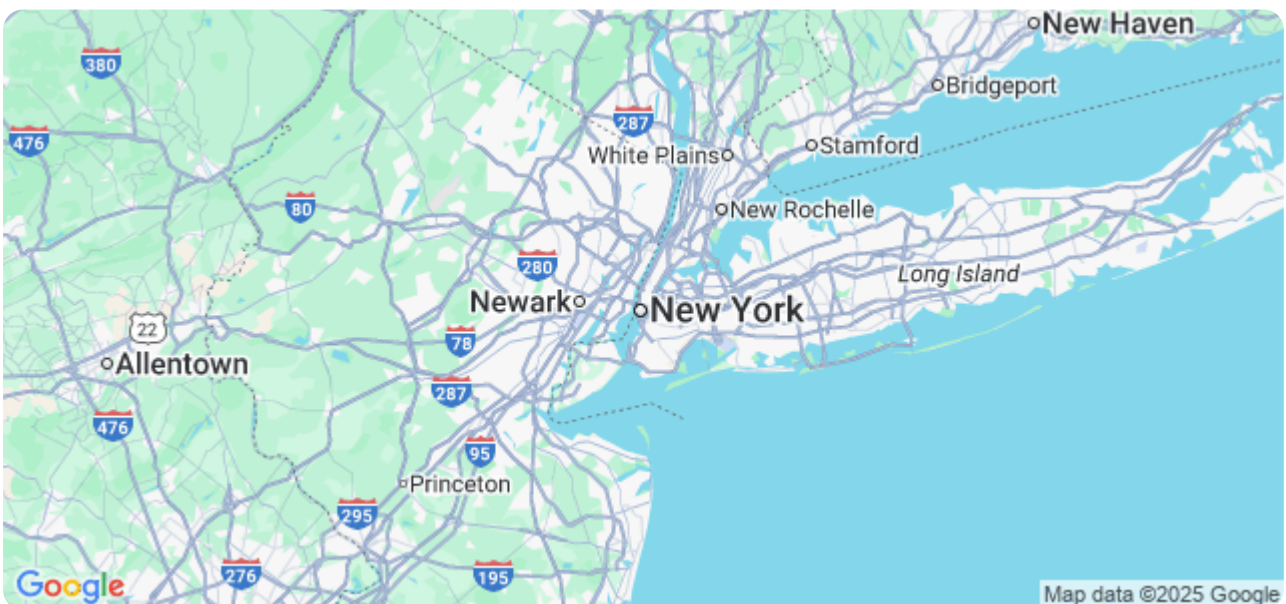
Assessment of surface and groundwater quality parameters.

Monitoring Date

Monitoring Time

Sampling Location (GPS Coordinates)

 [Set My Current Location](#)



pH Value

Enter a number...

Electrical Conductivity ($\mu\text{S}/\text{cm}$)

Enter a number...

Total Suspended Solids (mg/L)

Enter a number...

Dissolved Oxygen (mg/L)

Enter a number...

Water Appearance

- ☐ Clear
- ☐ Turbid
- ☐ Colored
- ☐ Oily

Additional Observations

Write something...

Air Quality Monitoring

Measurement of dust, gaseous pollutants, and noise levels.

Total Suspended Particulate (TSP) Concentration (mg/m³)

Enter a number...

PM10 Concentration (mg/m³)

Enter a number...

PM2.5 Concentration (mg/m³)

Enter a number...

Noise Level (dB)

Enter a number...

Wind Direction

- ☐ North
- ☐ South
- ☐ East
- ☐ West
- ☐ North-East
- ☐ North-West
- ☐ South-East
- ☐ South-West

Weather Conditions

- ☐ Clear
- ☐ Cloudy
- ☐ Rain
- ☐ Fog
- ☐ Dusty

Date of Monitoring

Enter date...

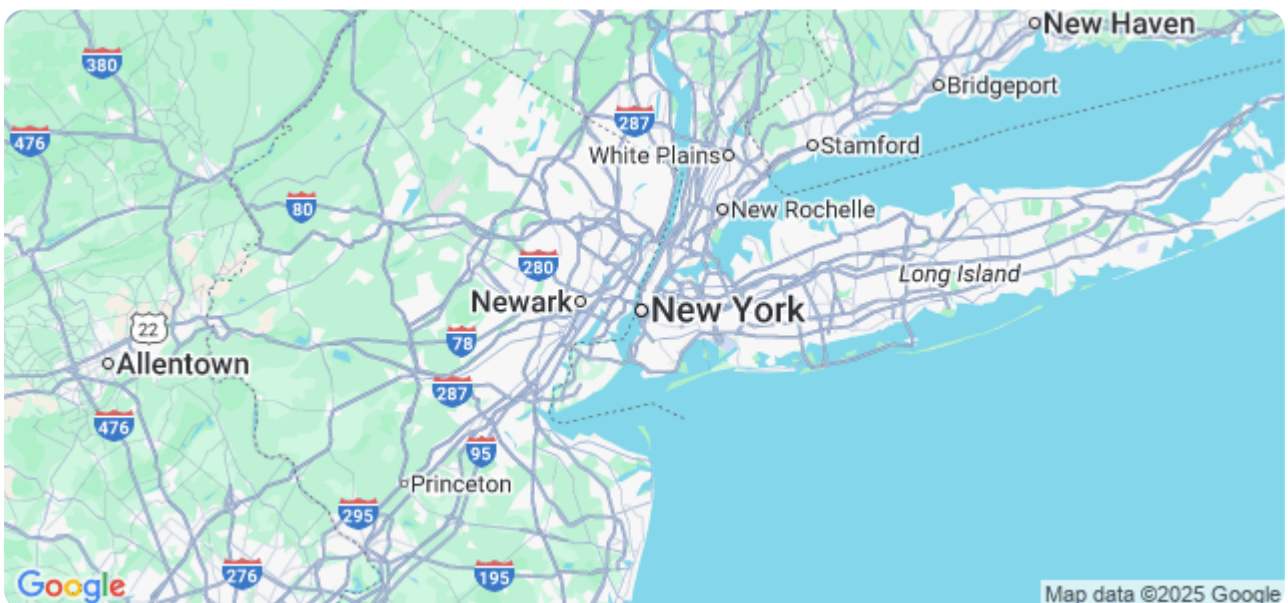
Time of Monitoring

Soil Sampling & Analysis

Collection and testing of soil samples for contamination.

Sampling Point GPS Coordinates

 [Set My Current Location](#)



Sampling Date

Enter date...

Sample Depth (cm)

Enter a number...

Sample ID

Enter a number...

Soil Type

- ☐ Sandy
- ☐ Clay
- ☐ Loam
- ☐ Silt


pH Value

Enter a number...

Moisture Content (%)

Enter a number...

Chain of Custody Documentation

 Upload File

Vegetation & Ecological Assessment

Observation of vegetation health and biodiversity.

Description of Vegetation Cover (e.g., forest, grassland, shrubland)

Write something...

Percentage of Bare Ground

Enter a number...

Presence of Invasive Species (Select all that apply)

- ☐ Species A
- ☐ Species B
- ☐ Species C
- ☐ None Observed

Observations on Plant Health (e.g., signs of stress, disease, damage)

Write something...

Estimate of Tree Density (stems/hectare)

Enter a number...

Overall Ecological Health Rating (Excellent, Good, Fair, Poor)

- ☐ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

Attach Photos of Vegetation & Wildlife

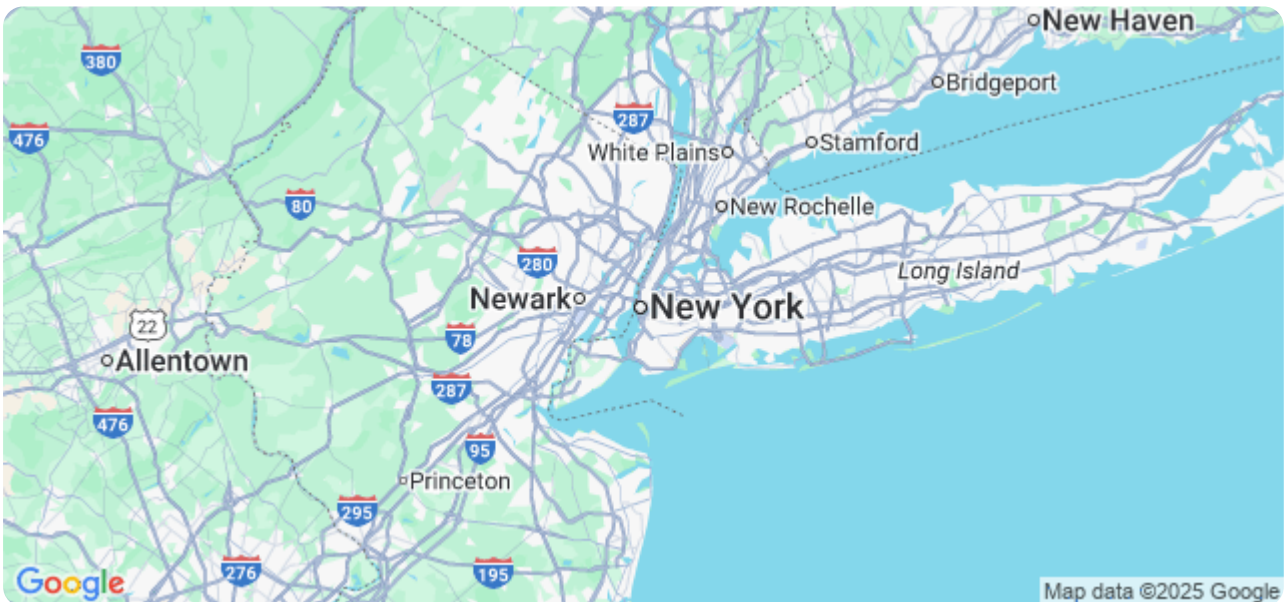
 Upload File

Wildlife Monitoring

Tracking of wildlife presence and impact from mining activities.

GPS Coordinates of Observation Point

 Set My Current Location



Species Observed (Select all that apply)

- ☐ Birds
- ☐ Mammals
- ☐ Reptiles
- ☐ Amphibians
- ☐ Fish
- ☐ Invertebrates

Detailed Description of Wildlife Activity & Behavior

Write something...

Estimated Number of Individuals Observed

Enter a number...

Date of Observation

Enter date...

Time of Observation

Photos/Videos of Wildlife (Optional)

 Upload File

Discharge Monitoring (Effluent)

Verification of discharge water quality against permit limits.

Monitoring Date

Enter date...

Monitoring Time

pH Level

Enter a number...

Total Suspended Solids (TSS)

Enter a number...

Dissolved Oxygen (DO)

Enter a number...

Fecal Coliform Count

Enter a number...

Compliance Status

- ☐ Compliant
- ☐ Non-Compliant
- ☐ Data Insufficient

Comments/Observations

Write something...

Analyst Signature

Stormwater Management

Inspection of stormwater controls and drainage systems.

Rainfall Amount (mm)

Enter a number...

Sediment Pond Condition

- ☐ Good
- ☐ Fair
- ☐ Poor

Observations of Erosion or Sediment Transport

Write something...

Condition of Diversion Ditches

- ☐ Clear and Functioning
- ☐ Minor Debris
- ☐ Requires Maintenance

Outlet Structure Flow Rate (L/s)

Enter a number...

Notes on BMP Performance

Write something...

Last Maintenance Date

Enter date...

Rehabilitation Area Monitoring

Assessment of progress and effectiveness of rehabilitation efforts.

Date of Inspection

Enter date...

Vegetation Cover Percentage (Estimate)

Enter a number...

Description of Vegetation Condition (Species, Health)

Write something...

Erosion Status

- ☐ No Erosion
- ☐ Minor Erosion
- ☐ Moderate Erosion
- ☐ Severe Erosion

Description of Erosion Control Measures (if any)

Write something...

Soil Moisture Level (Visual Assessment)

Enter a number...

Photographs of Rehabilitation Area

 Upload File

Presence of Invasive Species

- ☐ Yes
- ☐ No

Notes/Comments on Rehabilitation Progress

Write something...

Reporting & Documentation

Verification of data recording, analysis, and report submission.

Report Submission Date

Enter date...

Report Version Number

Enter a number...


Report Status

- ☐ Draft
- ☐ Submitted
- ☐ Approved
- ☐ Rejected

Summary of Findings & Deviations

Write something...

Supporting Data Files (e.g., spreadsheets, lab reports)

 Upload File

Reporting Standard Compliance

- ☐ Compliant
- ☐ Non-Compliant
- ☐ Partially Compliant

Reviewer Signature

Equipment Calibration & Maintenance

Ensuring monitoring equipment is functioning correctly.

Last Calibration Date

Enter date...

Calibration Frequency (e.g., months)

Enter a number...

Calibration Standard Used

- ☐ NIST
- ☐ Manufacturer's Standard
- ☐ Other - Specify

Calibration Results (Detailed)

Write something...

Calibration Certificate

 Upload File

Serial Number

Enter a number...

Next Calibration Due Date

Enter date...