



# Mining Survey and Mapping Checklist

## Pre-Survey Planning & Preparation

Ensuring adequate planning and equipment readiness for accurate surveying.

### Survey Planned Start Date

### Survey Planned Completion Date

### Estimated Time Required for Survey

### Number of Surveyors Required

### Survey Type (e.g., Topo, Volume, Grade)

- ☐ Topographic
- ☐ Volume Calculation
- ☐ Grade Control
- ☐ Other

### Area to be Surveyed

- ☐ Surface
- ☐ Underground
- ☐ Both

### Specific Survey Objectives & Scope

Write something...

### Existing Site Plans or Drawings (if applicable)

 Upload File

## Control Point Verification

Checking the integrity and accuracy of existing survey control points.

### Control Point ID

Enter a number...

### Northing (m)

Enter a number...

### Easting (m)

Enter a number...

### Elevation (m)

Enter a number...

### Verification Method

- ☐ Independent Traverse
- ☐ GPS/GNSS
- ☐ Comparison with Existing Data

### Observed Northing Deviation (m)

Enter a number...

### Observed Easting Deviation (m)

Enter a number...

### Observed Elevation Deviation (m)

Enter a number...

### Status

- ☐ Acceptable
- ☐ Marginal
- ☐ Unacceptable

### Comments / Remedial Actions

Write something...

## Data Acquisition – Ground Surveys

Verification of ground survey data collection techniques (e.g., total station, level).

### Total Station Accuracy (mm)

Enter a number...

### Level Accuracy (mm)

Enter a number...

### Start Time of Survey

### Date of Survey

Enter date...

### Survey Method Used (e.g., Traverse, Radiation)

- ☐ Traverse
- ☐ Radiation
- ☐ Resection

Location of Survey Point

 Set My Current Location



Instrument Technician Name

Write something...

Data Acquisition – Aerial/Drone Surveys

Ensuring proper flight planning, imagery quality, and ground control for aerial surveys.

Flight Date

Enter date...

Flight Start Time

### Drone Flight Hours

Enter a number...

### Weather Conditions

- ☐ Clear
- ☐ Partly Cloudy
- ☐ Overcast
- ☐ Foggy

### Ground Control Point (GCP) Count

Enter a number...

### GCP Quality Check Passed?

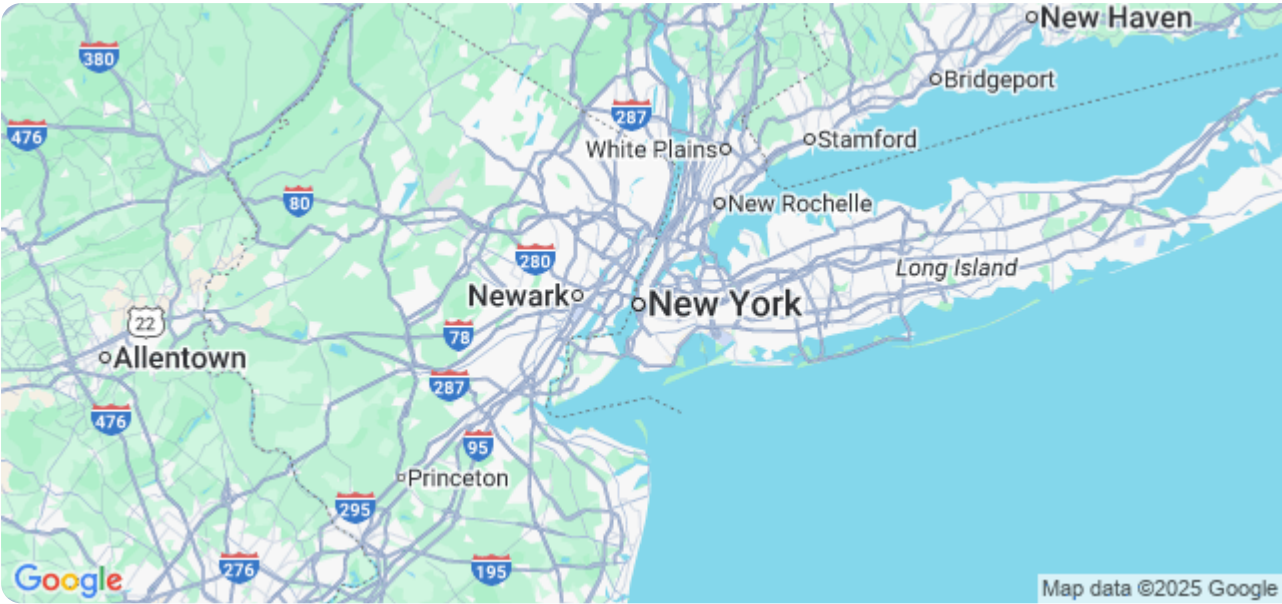
- ☐ Position
- ☐ Visibility
- ☐ Accuracy

### Flight Path/Mission Plan (PDF)

 Upload File

### Primary Flight Area Coordinates

 [Set My Current Location](#)



## Data Processing & Adjustment

Verification of data processing procedures and quality control checks on processed data.

### Total Station Angle Variance (seconds)

Enter a number...

### Total Station Distance Variance (mm)

Enter a number...

### Datum Transformation Applied?

- ☐ Yes
- ☐ No

### Details of Datum Transformation (if applicable)

Write something...

### Error Ellipse Assessment Completed?

☐ Yes

☐ No

### Description of Error Ellipse Assessment

Write something...

### Processed Data File

 Upload File

## Surface Mapping and Modeling

Reviewing surface mapping techniques, accuracy, and integration into 3D models.

### Northing Coordinate (m)

Enter a number...

### Easting Coordinate (m)

Enter a number...



### Date of Survey


Enter date...

### Time of Survey

### Mapping Method

- ☐ Total Station
- ☐ GPS/GNSS
- ☐ Laser Scanning

### Raw Survey Data (e.g., .tsp, .las)

 Upload File

### Notes on Surface Conditions

Write something...

### Model Accuracy Requirement

- ☐ High
- ☐ Medium
- ☐ Low

## Underground Mapping & Volumetric Calculations

Verification of underground mapping methods, accuracy of dimensions, and volume calculations.

### Station Number

Enter a number...

### Northing (m)

Enter a number...

### Easting (m)

Enter a number...

### Elevation (m)

Enter a number...

### Mapping Method

☐ Laser Scan

☐ Sketch

☐ Tachymetry

### Distance Measured (m)

Enter a number...

### Angle Measured (degrees)

Enter a number...

### Notes/Observations

Write something...

## Datum and Coordinate System Consistency

Confirming consistent application of datum and coordinate systems throughout the project.

### Primary Datum Used

- ☐ UTM
- ☐ MGA
- ☐ Other (Specify)

### Coordinate System Zone

- ☐ 55
- ☐ 56
- ☐ Other (Specify)

### Datum Transformation Parameters (if applicable)

Write something...

### Explanation of Coordinate System Application

Write something...

### Accuracy Standard (meters)

Enter a number...

### Verification Method

- ☐ Check against known points
- ☐ Software validation
- ☐ Independent review

## Reporting & Documentation

Ensuring clear and comprehensive documentation of survey results and methodologies.

### Summary of Survey Findings

Write something...

### Date of Report Completion

Enter date...


### Report Version Number

Enter a number...

### Report Distribution Method (Email, Hard Copy, etc.)

- ☐ Email
- ☐ Hard Copy
- ☐ Shared Drive

### Attachment: Survey Accuracy Report

 Upload File

### Surveyor Signature

## Data Security & Storage

Verification of secure data storage and access control procedures.

### Data Encryption Method

- ☐ AES-256
- ☐ RSA
- ☐ Other (Specify)

### Data Backup Frequency (Days)

Enter a number...

### Backup Storage Location

- ☐ On-site Server
- ☐ Cloud Storage
- ☐ Off-site Server

**Details of Access Control Measures**

Write something...

**Data Retention Policy Status**

- ☐ Compliant
- ☐ Non-Compliant
- ☐ Under Review

**Last Security Audit Date**

Enter date...