

ENVIRONMENTAL PROTECTION FOLDER



SOIL TESTING

NOISE MONITORING

GROUNDWATER

DUST MITIGATION

ASBESTOS REMOVAL

AIR QUALITY

In addition to the Swansea Air Monitor (SAM) which was installed in 2017, there are four air quality monitors installed adjacent to the Project to monitor PM10 (dust) during construction. The monitors are set to send an alert to both the Colorado Department of Transportation (CDOT) and Kiewit if PM10 levels start to rise. This allows the teams to identify the dust-causing operation and implement additional dust mitigation measures prior to the PM10 levels exceeding regulations.

INSERT 1

SOIL TESTING

Prior to construction start, the Central 70 team collected soil samples for testing to determine if and how soil can be reused. The team collected more than 1,800 samples along the 10-mile corridor. Soils fall into one of the three categories below depending on content.

UNRESTRICTED REUSE

This is normal soil that can be reused on the Project for things like backfilling for embankments and roadway.

RESTRICTED REUSE

This soil will be used east of Colorado Boulevard. The material will be used in accordance with the restrictions set by the Colorado Department of Public Health and Environment (CDPHE) and the Colorado Department of Transportation (CDOT).

DISPOSABLE

This soil is removed and hauled off site to a certified disposal facility.



INSERT 2

NOISE MONITORING

The Project will include intermittent night work on and adjacent to I-70 between Brighton Boulevard and Chambers Road throughout construction. Night work in residential areas must follow specifications set out in a variance approved by the Denver Board of Public Health and Environment. The initial noise variance request was approved for one year in September 2018 and it will be re-evaluated after the one year.

- Night work must stay under 75 decibels, based on an hourly average. Work may occur from Monday through Friday from 9 p.m. to 7 a.m. and Saturday and Sunday from 5 p.m. to 8 a.m.
- General construction may not occur in the same residential area for more than five consecutive nights in a 7-day period.
- Project sound barriers will be installed near the Colorado Department of Transportation (CDOT) property line in residential areas as an additional noise reduction method.
- When major construction activities are scheduled where noise levels are expected to exceed the variance levels (such as bridge demolition), hotel vouchers will be offered to impacted residents defined by an established boundary. Major construction activities may not occur for more than three consecutive nights.

The Central 70 team is committed to being a good community partner and will closely monitor noise to ensure requirements are being met. Project sound barriers have been installed near the I-70 viaduct as an additional noise reduction method.

Colorado Department of Public Health and Environment (CDPHE) regulates the noise variance and residents may contact the city at 311. There is additional information about the variance at <https://www.denvergov.org/content/denvergov/en/environmental-health/public-health-inspections/healthy-families-healthy-homes-section.html>



INSERT 3

GROUNDWATER

HOW ARE WE AVOIDING IT?

The profile of the lowered section is above the groundwater table.

WHAT DO WE DO WITH IT IF WE COME ACROSS IT?

Water will be pumped into onsite tanks. This water will be transported to a permitted water treatment facility where it is treated.

HOW DO WE TEST IT?

Water is taken by the water treatment facility for treatment.



INSERT 4

DUST MITIGATION

During construction, crews reduce dust using the following methods:

- Spraying unpaved roads and exposed dirt services by water trucks
- Covering, wetting or compacting the disturbed soil
- Adding a stabilization compound to the haul routes within construction limits
- Providing stabilized exits for construction vehicles to prevent tracking dirt onto public streets
- Using powered street sweepers
- Covering dump trucks leaving the work zone to prevent dust and debris from blowing
- Minimizing disturbed areas
- Avoiding excavation work if wind speeds exceed 30 mph
- Revegetating disturbed surfaces as soon as possible following completion of operations in that area

INSERT 5

ASBESTOS REMOVAL

Prior to buildings being removed, a survey for asbestos is performed inside and outside of the structure. If asbestos is found on the structure, an abatement plan will be developed and an abatement permit will be issued by the Colorado Department of Public Health and Environment (CDPHE). Asbestos abatement is performed by licensed contractors and Colorado state-certified asbestos building inspectors. Building Inspectors are onsite to ensure the removal is completed in accordance with the permit and abatement plan. Air monitoring will also be performed during the asbestos abatement activities.

INSERT 6

AIR QUALITY

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Air quality results are available on the website at c70.codot.gov.