

product or feature is in a pre-release state and might change or have limited support. For more information, see the [product launch stages](#) (/products/#product-launch-stages).

This page describes how to manage the lifecycle of a Cloud Life Sciences API long-running operation (LRO).

[Long-running operations](#) (/life-sciences/docs/reference/rest/v2beta/projects.locations.operations) are returned when method calls might take a long time to complete. The Cloud Life Sciences API creates an LRO every time you call [projects.locations.pipelines.run](#) (/life-sciences/docs/reference/rest/v2beta/projects.locations.pipelines/run) or [gcloud beta lifesciences pipelines run](#) (/sdk/gcloud/reference/beta/lifesciences/pipelines/run). The LRO tracks the status of the pipeline.

You can use the [operations APIs](#) (/life-sciences/docs/reference/rest/v2beta/projects.locations.operations) that the Cloud Life Sciences API provides to check the [status](#) (#getting_details_about_a_long-running_operation) of LROs. You can also [list](#) (#listing_long-running_operations), [poll](#) (#polling_a_long-running_operation), or [cancel](#) (#cancelling_a_long-running_operation) LROs.

When calling the Cloud Life Sciences API directly, LROs are managed at the Google Cloud project and location level. When making a request to the LRO directly, include the Google Cloud project and the location in which the LRO is running.

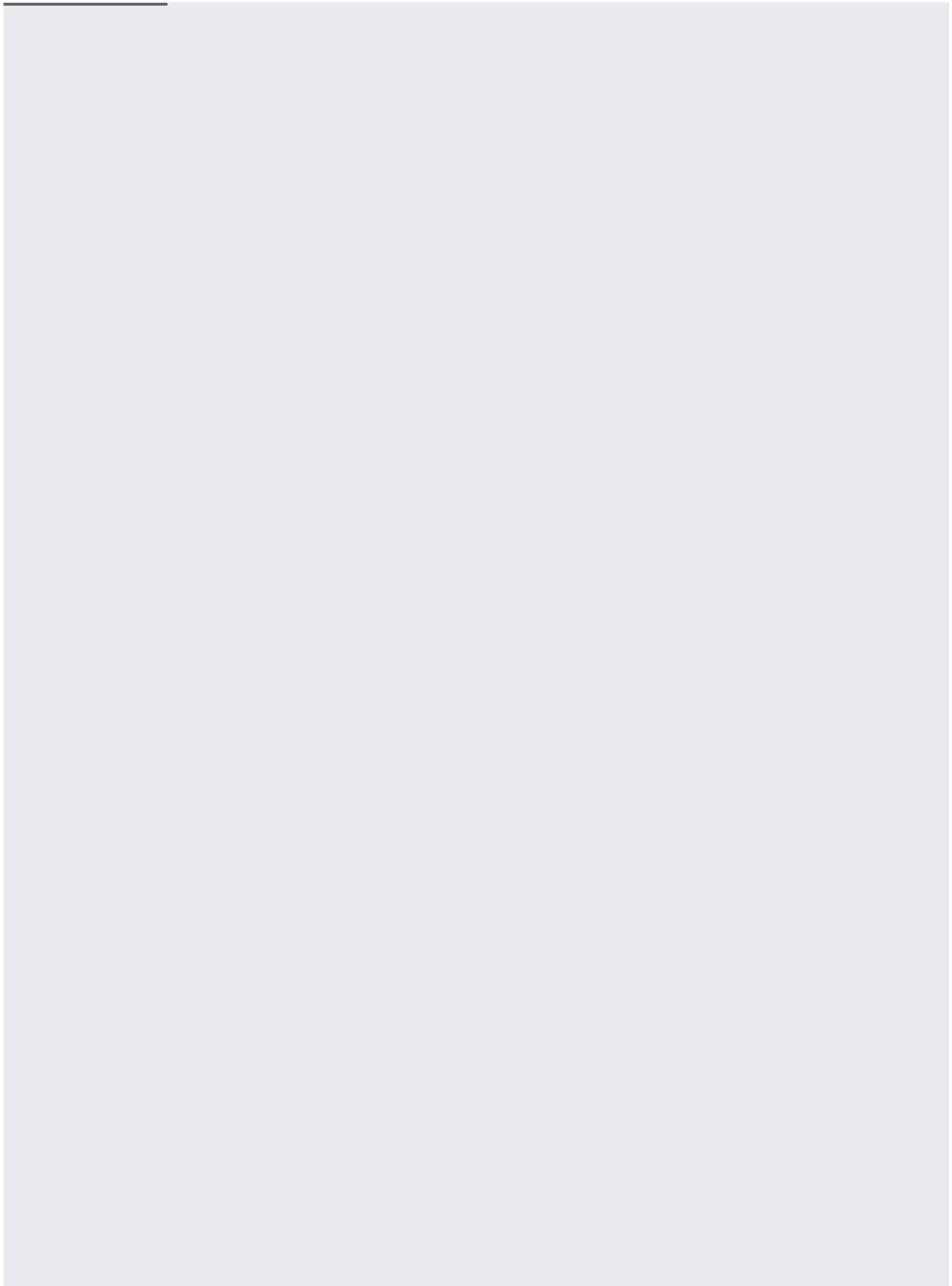
If you have [set up the gcloud tool](#)

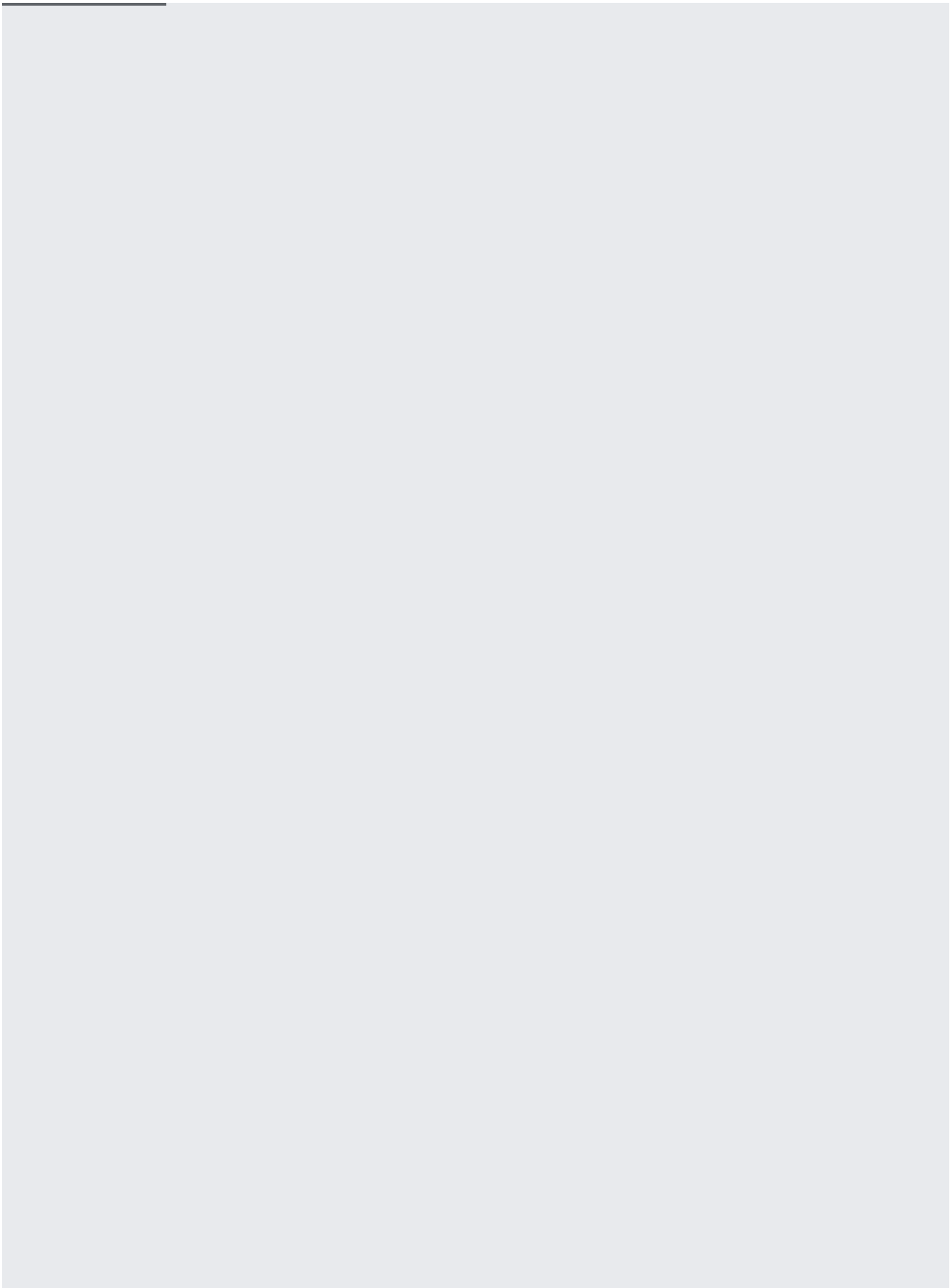
(/life-sciences/docs/how-tos/getting-started#set_up_cloud_sdk_and_gcloud), then when you call the Cloud Life Sciences API using the `gcloud` tool your request to the LRO only needs to contain the operation identifier. The Google Cloud project ID and the location where the LRO is running are inferred from the operation ID.

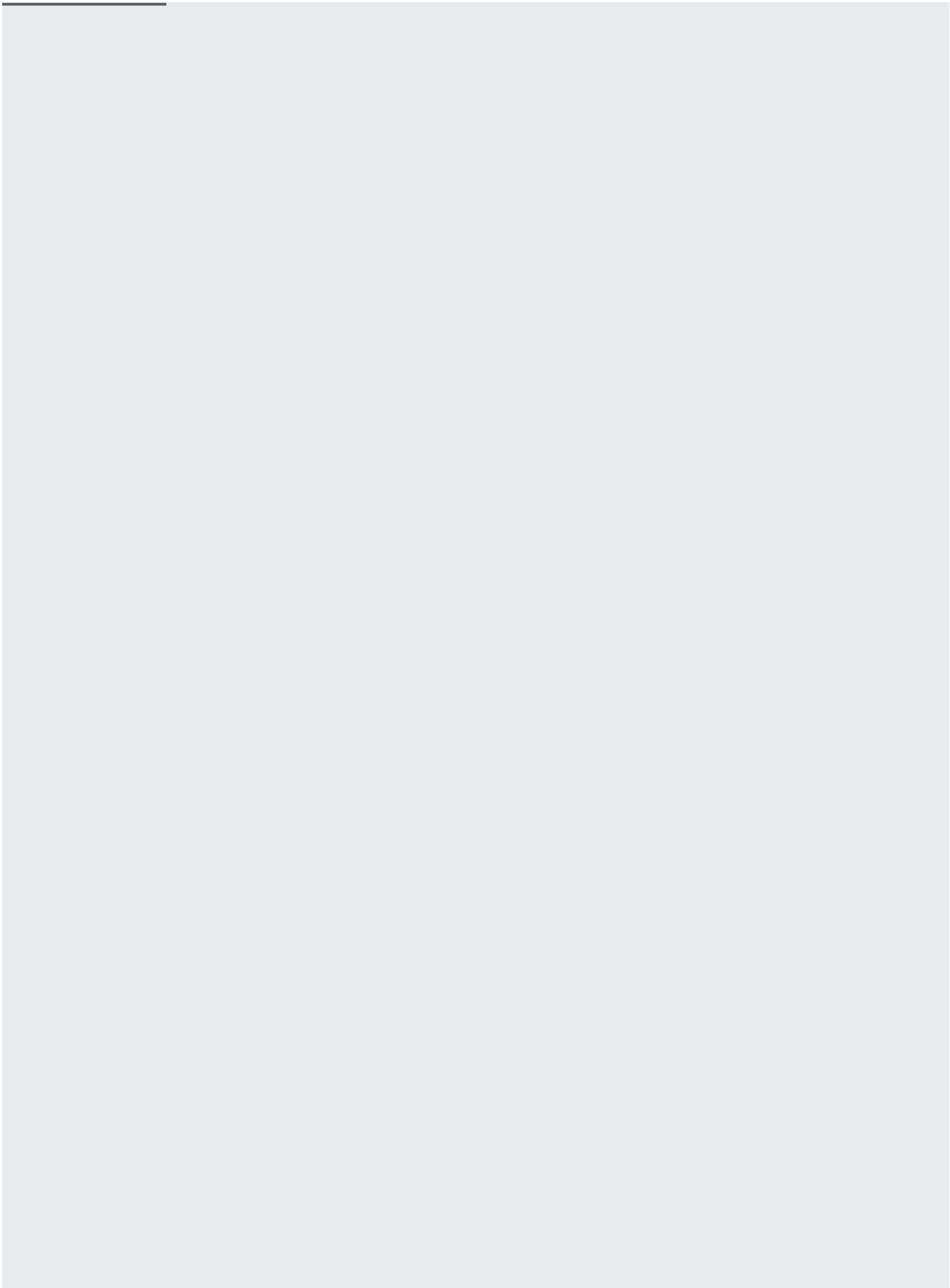
You can manage your Cloud Life Sciences LROs using the Google Cloud Console, the `gcloud` command-line tool, or by calling the API directly. The Cloud Console does not contain all of the details about an LRO that are available when using the `gcloud` tool and calling the Cloud Life Sciences API directly.

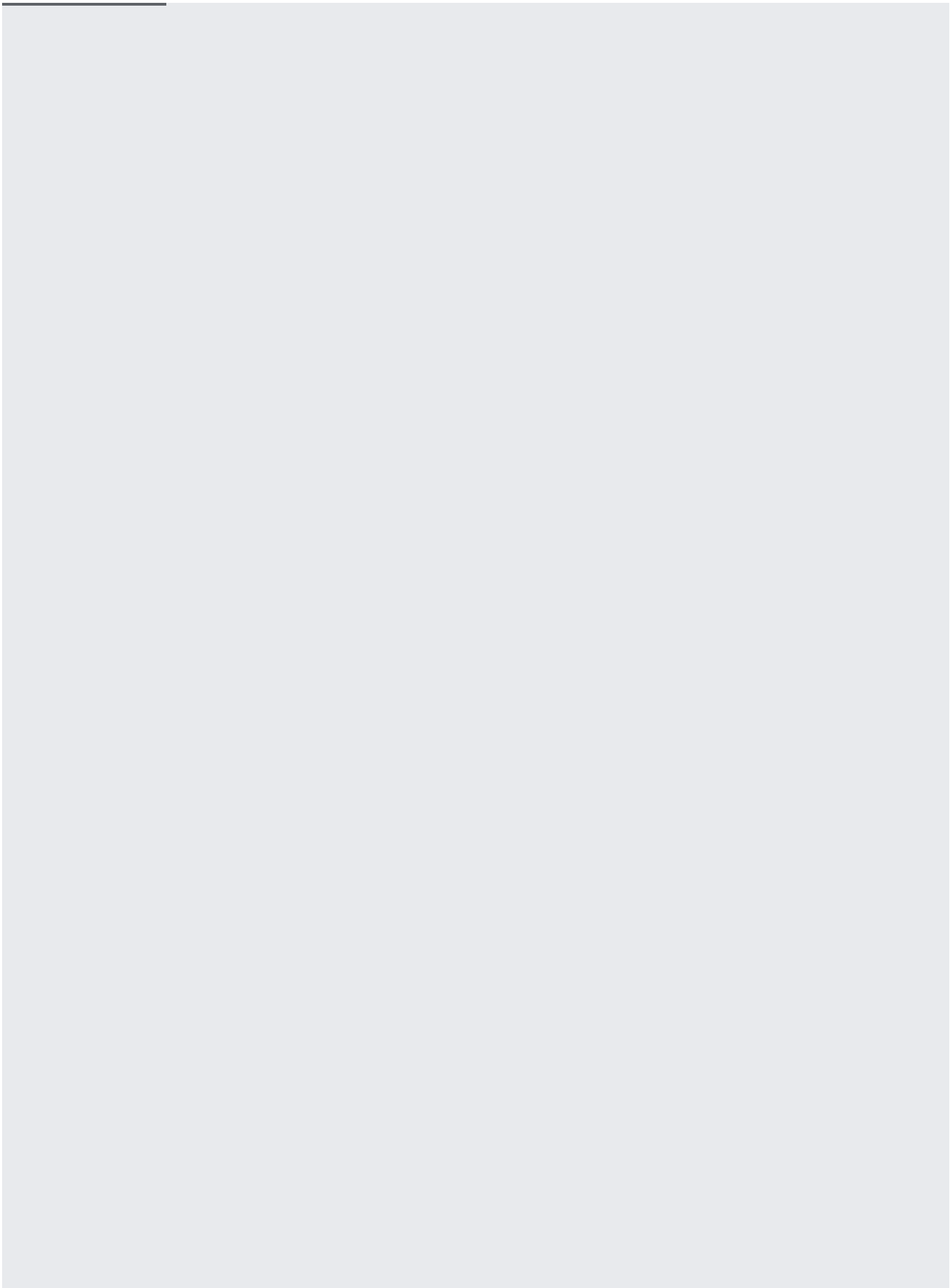
The record of an LRO is kept for approximately 30 days after the LRO finishes, meaning that you cannot view or list an LRO after that point.

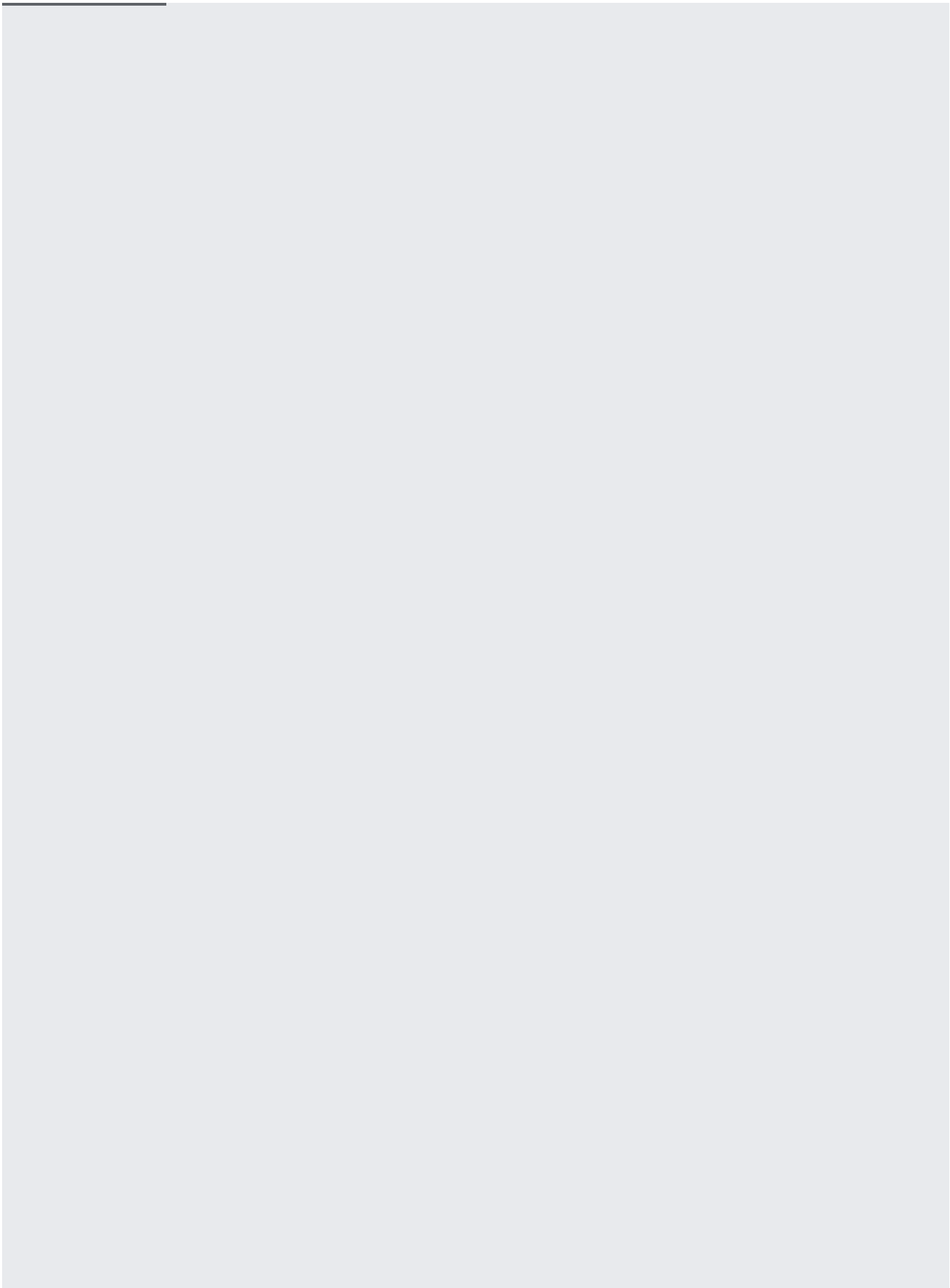
The following samples show how to get details about an LRO.

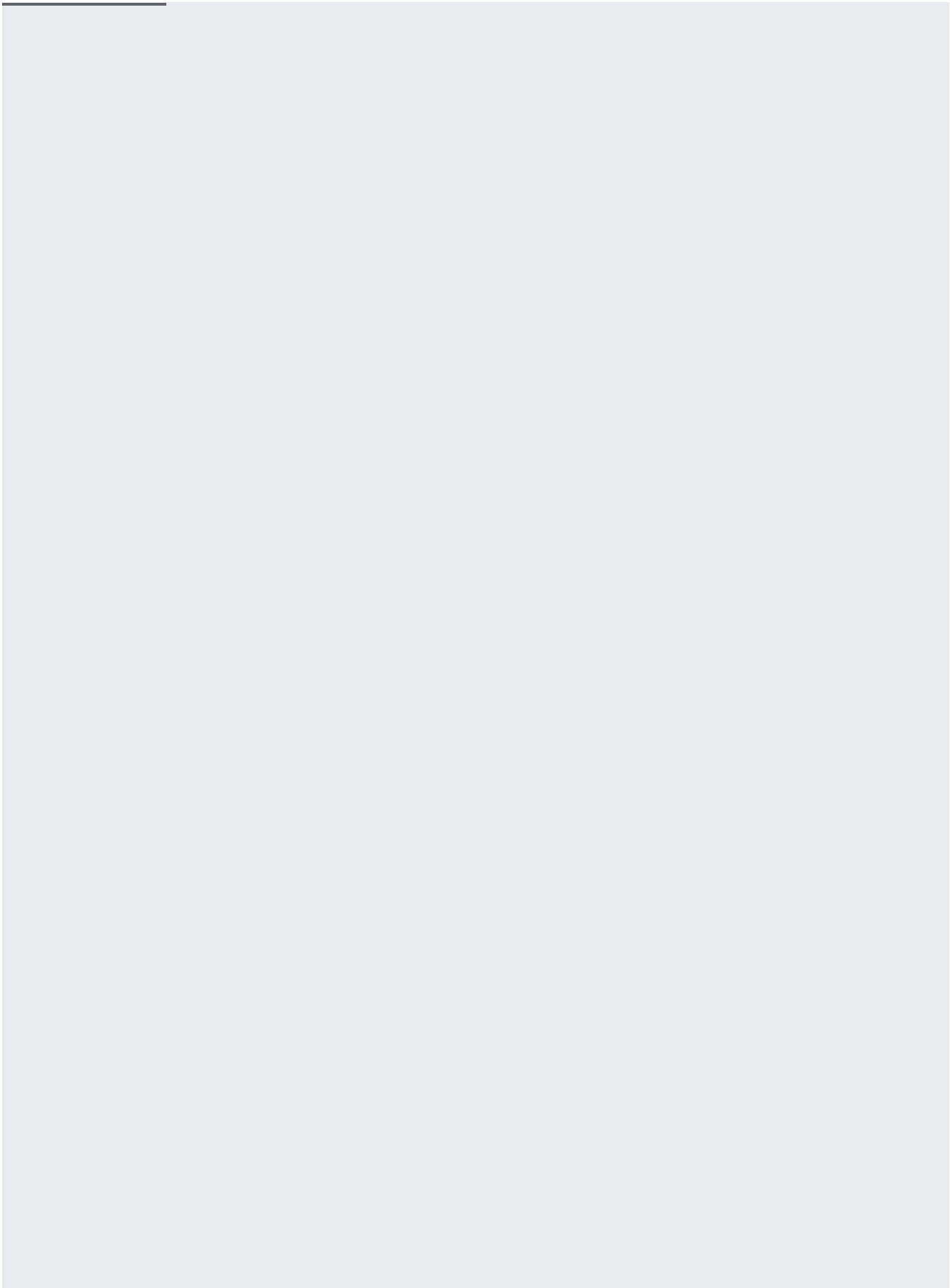




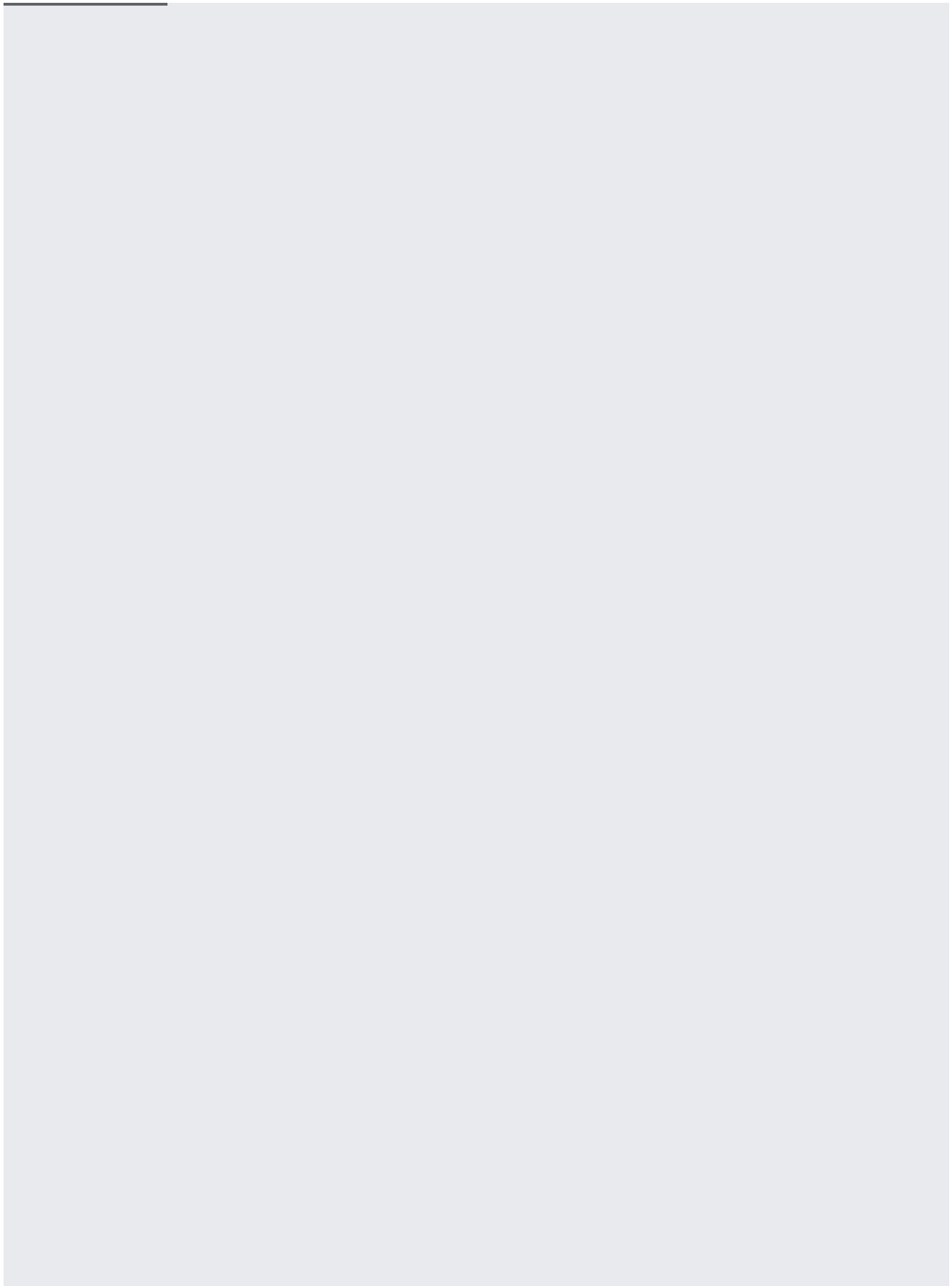


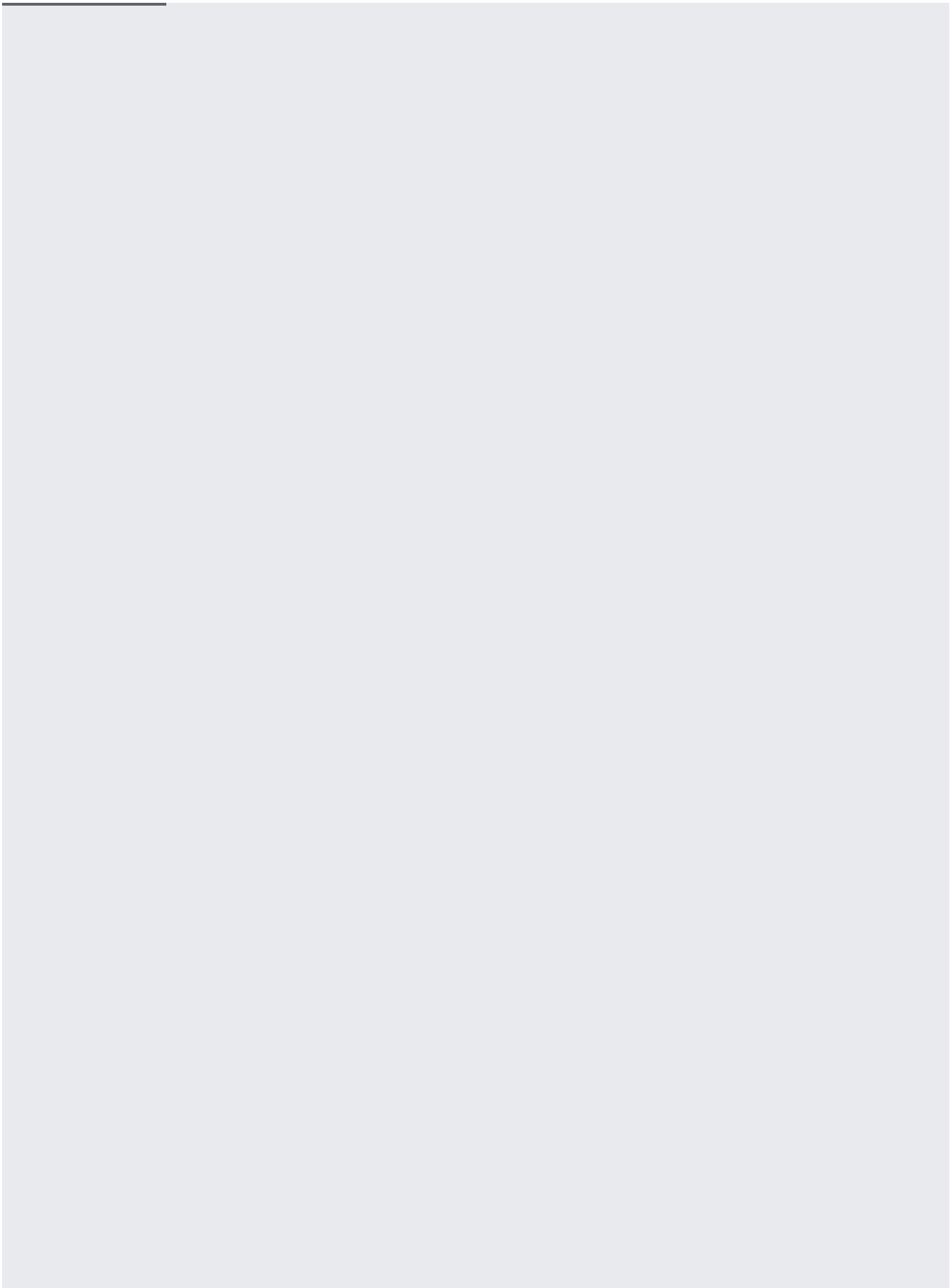




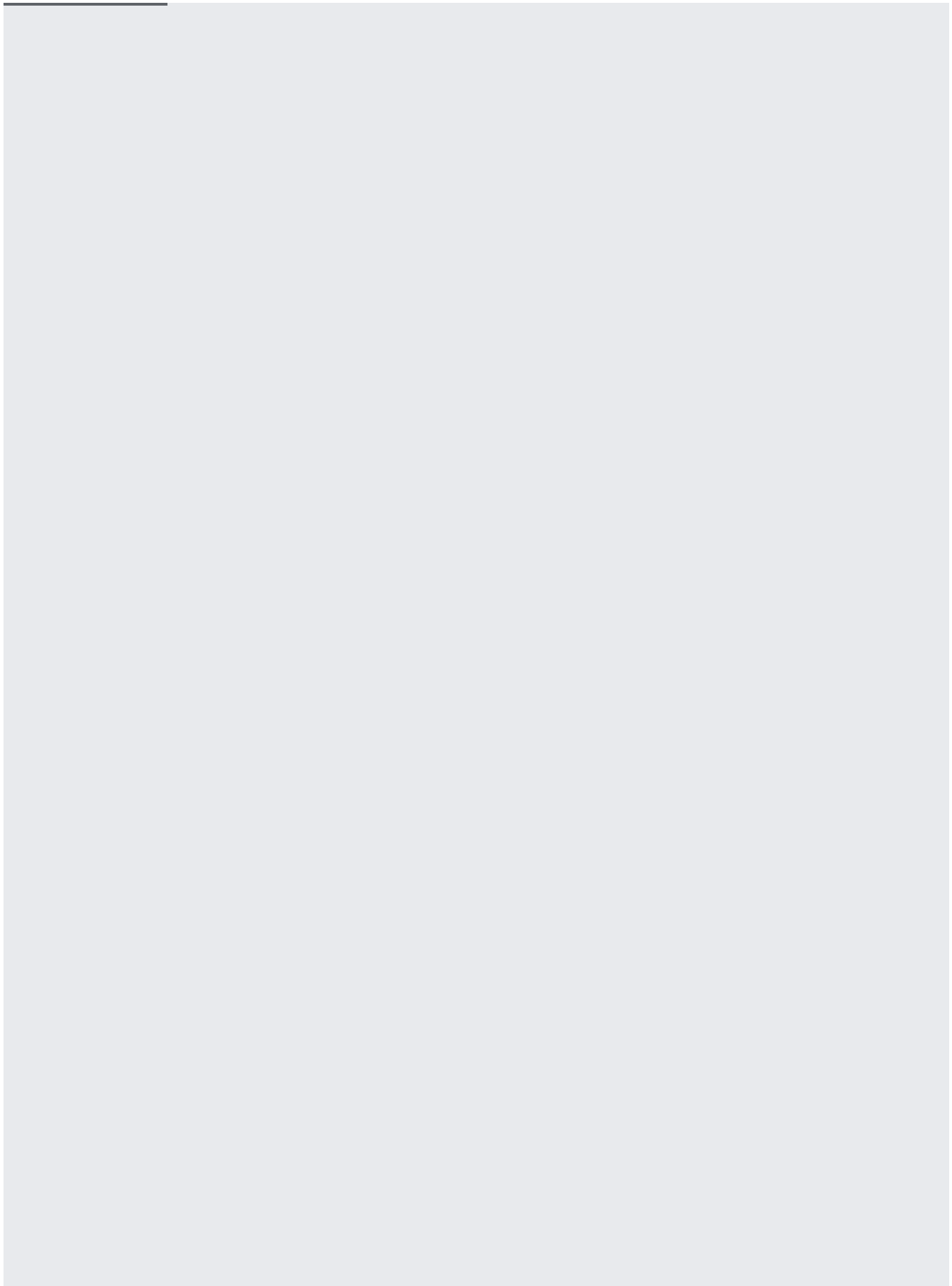


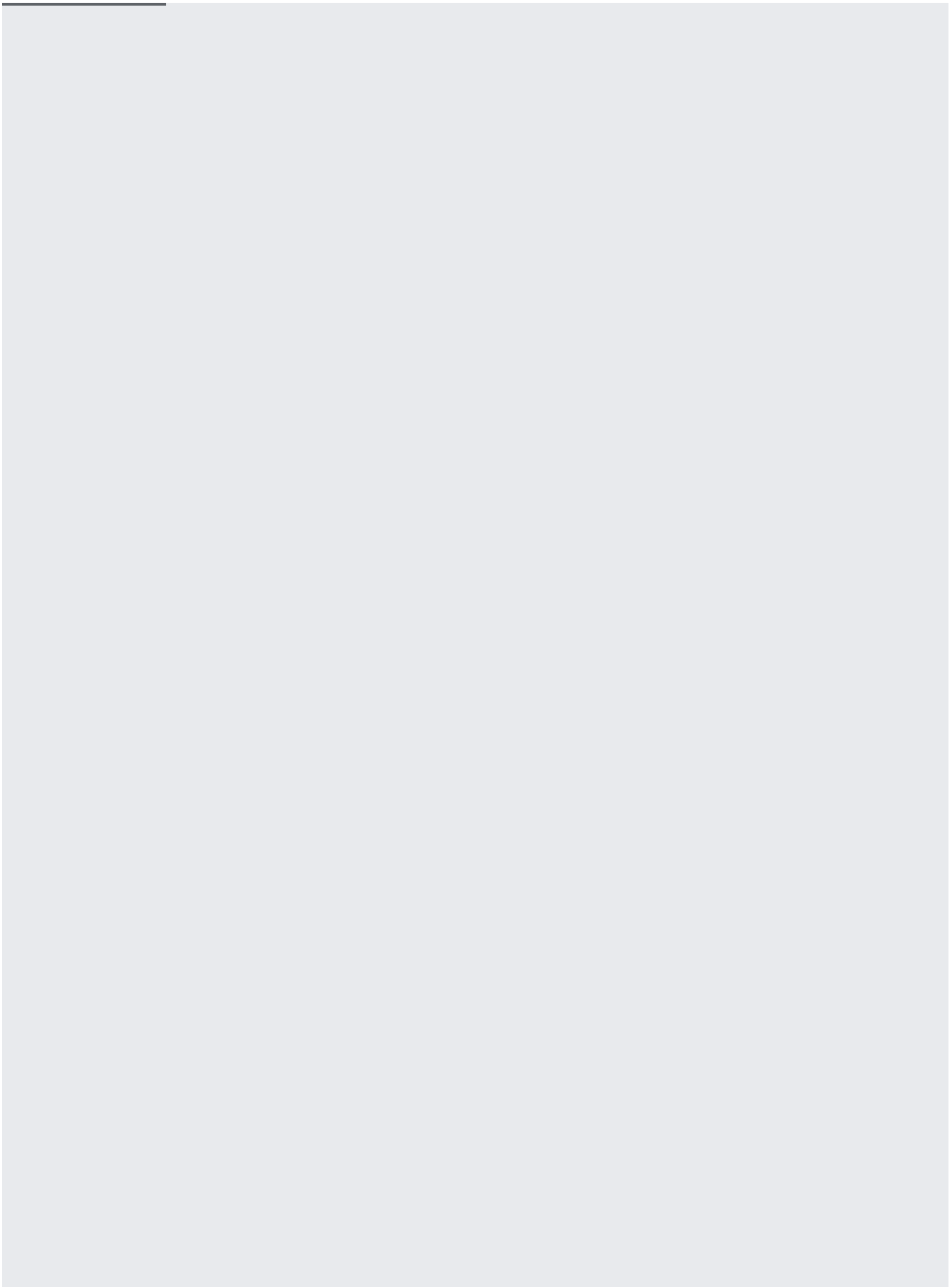
The following samples show how to list the LROs in a Google Cloud project and location.

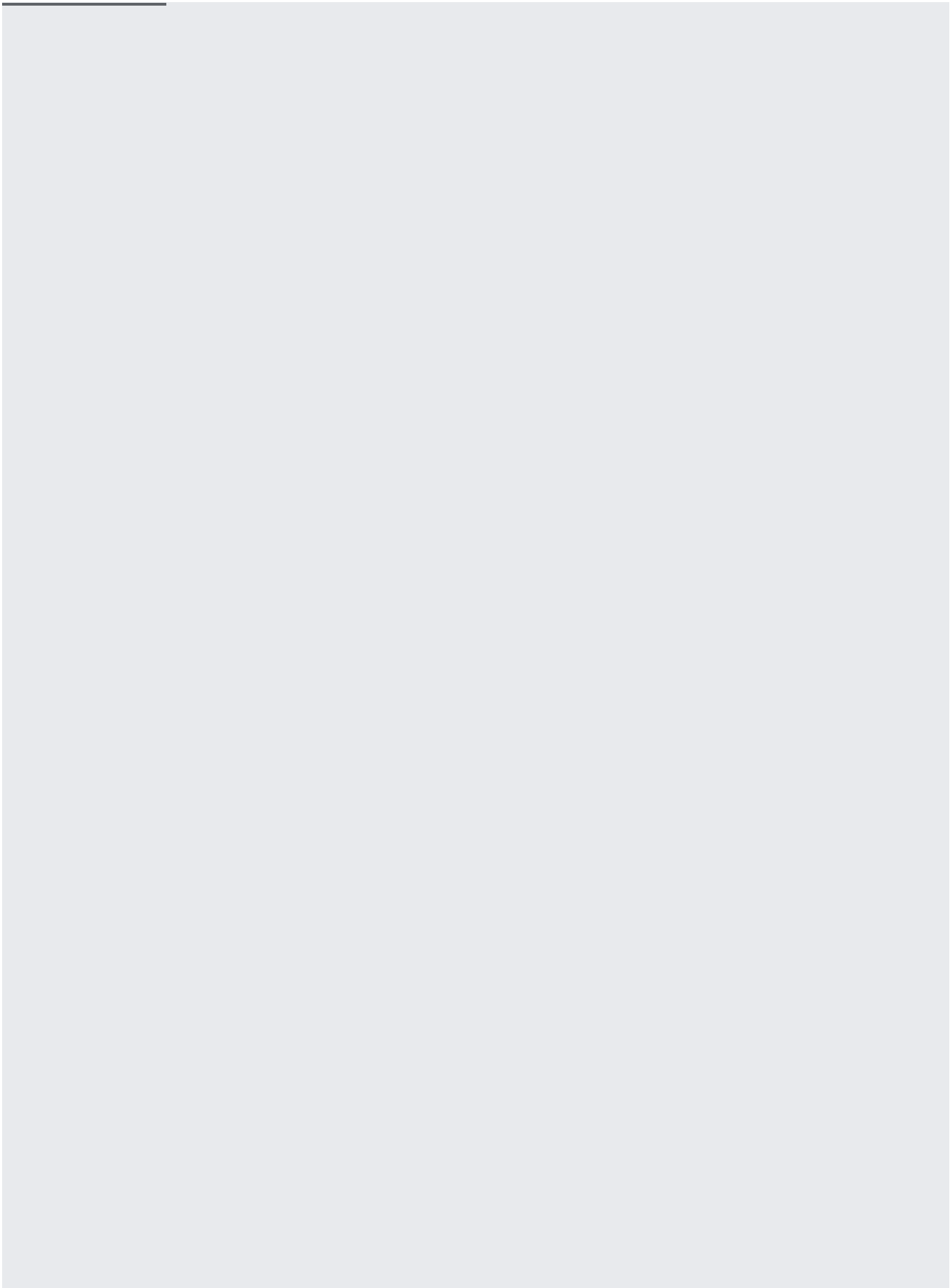


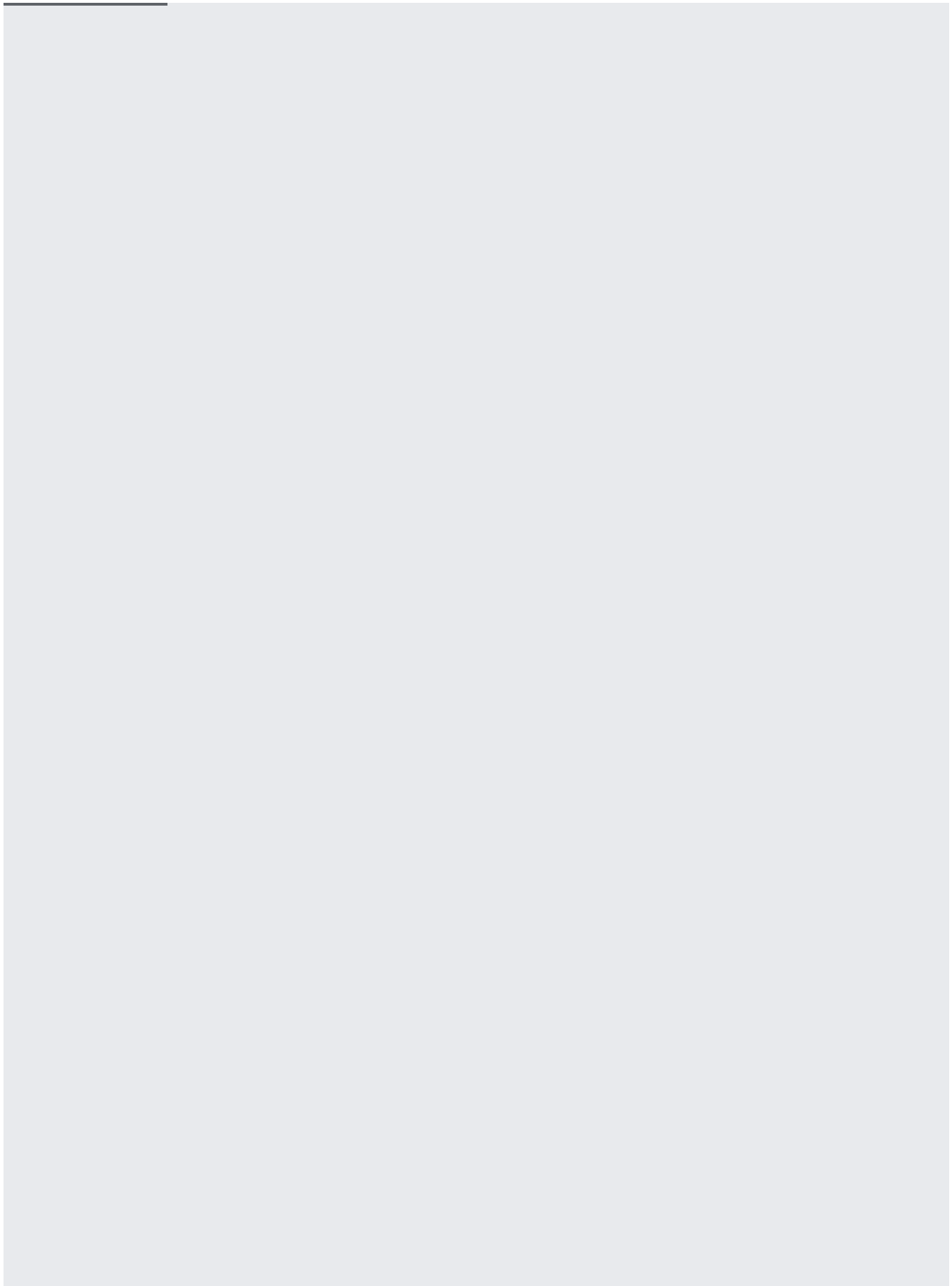


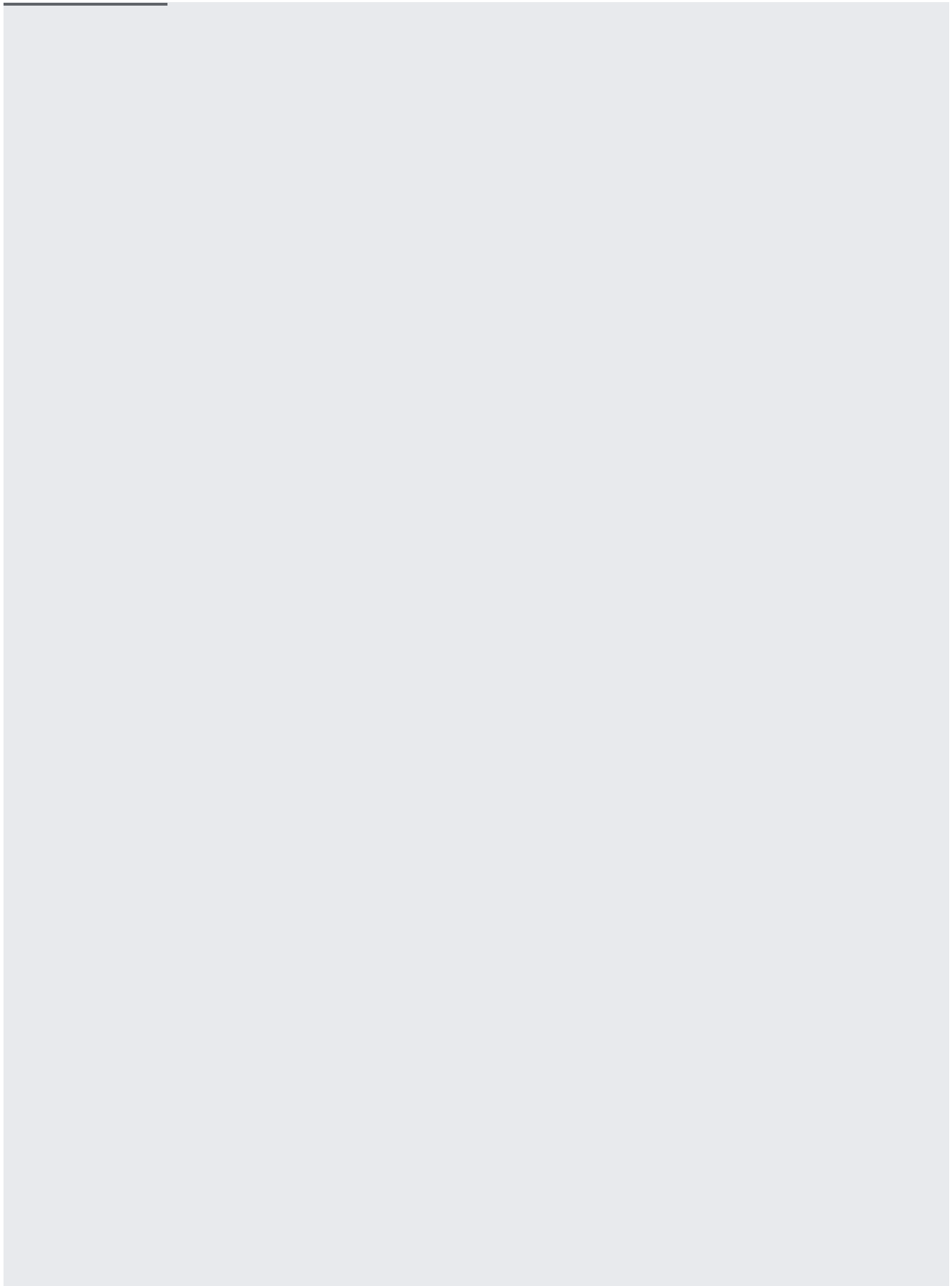
The following samples show how to poll the status of an LRO.

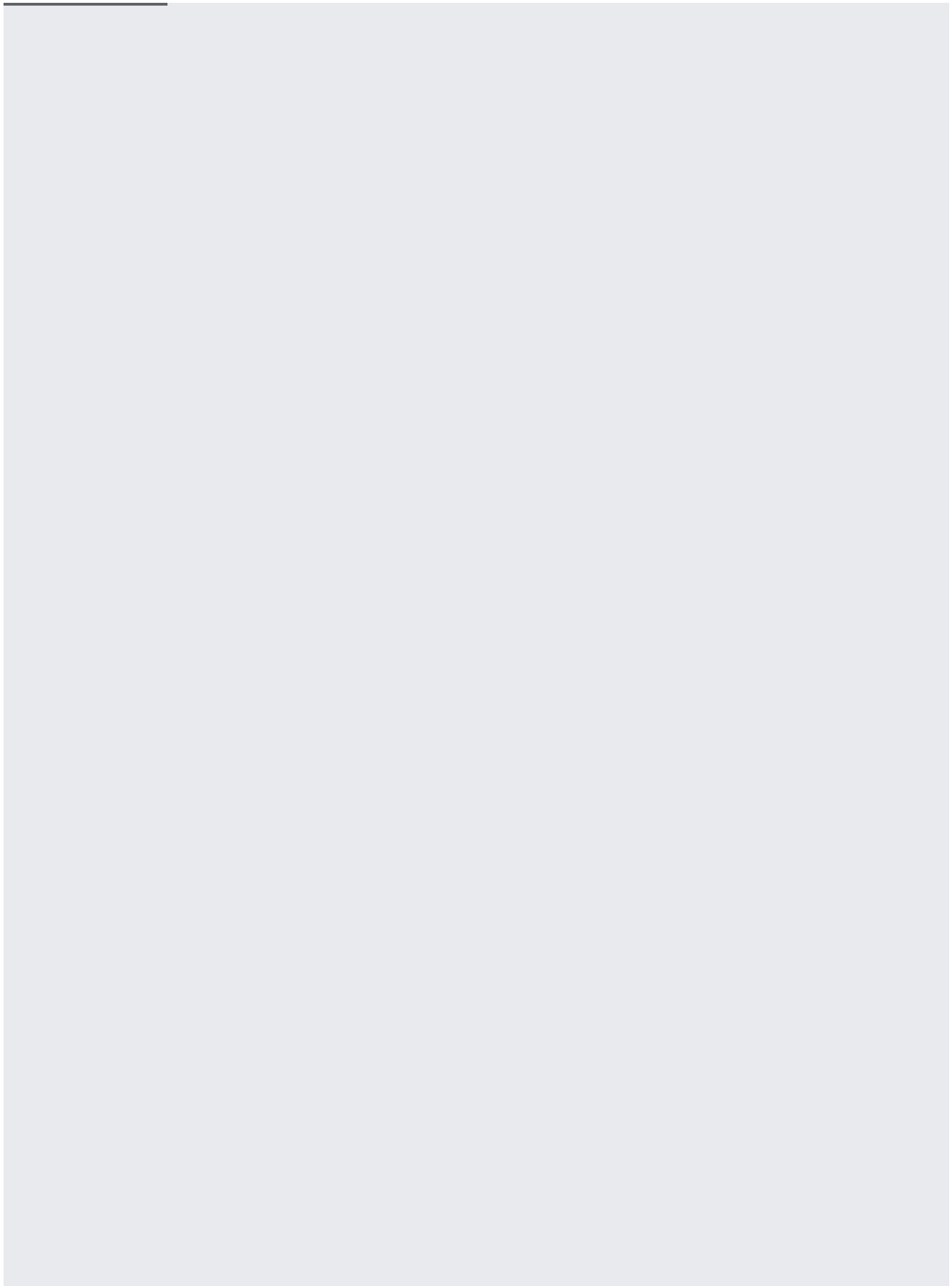


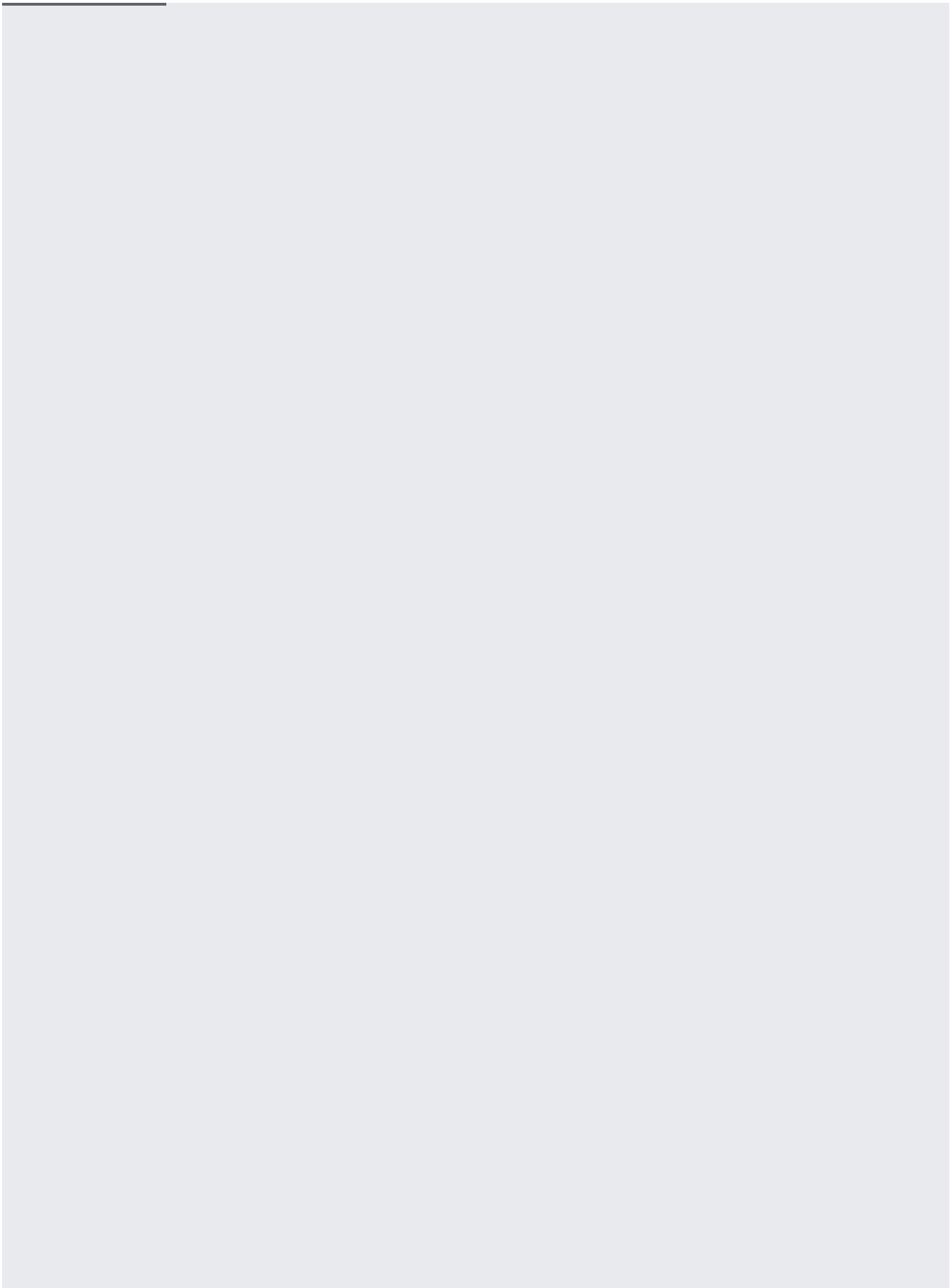












The following samples show how to cancel an LRO while it is running.

