WATER LICENCE INSPECTION FORM

☒ Original
☐ Follow-Up Report

Licensee	Licensee Representative
Agnico Eagle Mines Ltd.	Eric Haley
Licence No. / Expiry	**Purpose**
2AM-WTP1830 / March 27th 2030	Mining
Land Authorization No. / Expiry	**Project Name**
IOL	Meadowbank Mining Complex
Date of Inspection	**Inspector**
June 14, 2022	WRO Kyle Amsel

Activities Inspected

☒ Camp ☐ Drilling ☒ Mining ☐ Construction ☐ Reclamation ☒ Fuel Storage
☒ Roads/Hauling ☐ Other: ☐ Other:

SECTION 1 ☒ **Comments** (s.__) ☐ **Non-Compliance with Act or Licence** (s.__) ☐ **Action Required** (s.__)

On June 14, 2022 an inspection of Agnico Eagle Mines Ltd.'s Whale Tale Gold Project was completed by Crown-Indigenous Relations and Northern Affair Canada ('CIRNAC')'s, Water Resource Officer, Kyle Amsel (Inspector) and Christine Wilson.

The inspection was conducted to ensure compliance with applicable terms and conditions of water licence, no. 2AM-WTP1830 (licence).

The following report was produced with the observations noted by the Inspector at the Whale Tale Mine site (Mine site) and information provided by Agnico Eagle Gold Mine's, representatives, Environment Coordinator Tom Thompson, Environment Coordinator Samuel Tapp and Environment General Supervisor Eric Haley, herein referred to as representatives.

Preliminary Information

The annual report was available for review on the Nunavut Water Board (NWB) FTP website, as required by the licence Part B Item 2. The monthly monitoring report was also available for review as required by Part I item 21.

Observations

1. ST-WT-05 at Nemo Lake
    a. Water is withdrawn from the lake via pipe, the pipe is laying on the ice with debris on the ice next to the pipe. Representatives indicated the debris will be removed by boat once the ice on the lake has thawed (photo 1)
    b. Two other pipes are in the vicinity of the intake pipe in current use, one larger line is indicated by representatives to have been damaged and will be removed, while the smaller was part of the exploration activities
    c. A water flow meter is present at the site as per licence Part I Item 4. Fresh water use is recorded with a Rosemount magnetic flow meter, this meter transmits the data to a programable controller which totalizes the quantity and send it electronically to the system
    d. Representatives indicated a screen is in place on the intake as per licence Part E Item 4.
    e. No monitoring station sign is present at this location as per licence Part B Item 10 and Part I Item 7
    f. Located at N 65^0 25' 05.9', W 96^0 42' 16.7" (photo 1)
    g. Water usage was provided by the representatives after the inspection, at the time total volume usage is 26,893m^3
2. IVR Diversion Channel and ST-WT-37

   a. Monitoring station ST-WT-37 is no longer part of the water licence
   b. No concerns relating to sedimentation or erosion is observed in the channel
3. IVR Rock Storage Facility (IVR RSF)
   a. Water from the North side of the IVR RSF is collected and pumped from sump ST-WT-36, to ST-WT-35, to ST-WT-34 then pumped to the IVR attenuation pond. No monitoring station sign is present at these location as per licence Part I Item 7
   b. These sumps are pumped and monitored by visual inspection. Pumps are present at all locations, however ST-WT-35 is the only pump in operation
   c. Water on the South side of the IVR RSF is collected and flows through natural depression to the IVR attenuation pond
4. Whale Tale South Channel
   a. The construction of the channel was completed in winter of 2020
   b. No concerns relating to sedimentation or erosion is observed at the channel
   c. Water is flowing through the channel
   d. The channel inlet is located at N 65^0 23’ 17.3”, W 96^0 45’ 00.8”
   e. A silt curtain located at N 65^0 23’ 17.3”, W 96^0 45’ 00.6” at the channel outlet into Mammoth Lake is still in place (photo 2)
5. Emulsion Plant Fuel Storage Secondary Containment Berm
   a. A sign is posted stating authorization from the environmental department prior to pumping of secondary containment berm water.
   b. No monitoring station is associated with this secondary containment berm
   c. Located at N 65^0 23’ 44.4’, W 96^0 43’ 59.0”
6. Mammoth Lake Diffuser ST-WT-2
   a. No monitoring station sign is present at this location as per licence Part I Item 7 and Part B Item 10
   b. Water comes from the Whale Tale Attenuation Pond through the treatment plant and is discharged to Mammoth Lake through the diffuser
   c. Three pipes are observed going into Mammoth Lake, all of which representatives stated are not actively discharging
7. Culvert located East of Emulsion Plant
   a. Signs of sedimentation and erosion on the downstream side of the culvert into Mammoth Lake, straw booms are deployed to mitigate impacts (photo 3)
   b. Culvert is located at N 65^0 23’ 49.4”, W 96^0 43’ 51.5”
8. Mammoth Dyke
   a. No concerns at this location
9. Whale Tale Rock Storage Facility Pond (WT RSF) ST-WT-3
   a. No monitoring station sign was present as per licence Part I Item 7
   b. A visual marker which is manually checked weekly, and electronic sensory equipment monitors the station every three hours (photo 4)
   c. The pond is generally located at N 65^0 24’ 17.4”, W 96^0 44’ 06.9”
10. Whale Tale Rock Storage Facility (WT RSF)
   a. All water around the WT RSF is pumped to A49 then to ST-WT-3, no monitoring station sign is present at this location as per licence Part I Item 7
   b. Five monitoring stations monitor the water collection system around the WT RSF, water is pumped from ST-WT-33, to ST-WT-32, to ST-WT-31 to ST-WT-3
   c. Stations are located as follows, ST-WT-3, N65^0 24’ 17.4” W96^0 44’ 34.9”; ST-WT-32, N65^0 24’ 42.7”, W96^0 44’ 26.4” and ST-WT-33, N65^0 24’ 45”, W96^0 43’ 26.6”
11. A49 Sump
   a. Area appears to be used as an attenuation pond (photo 5), representatives stated that all the WT RSF sumps, and Mammoth Dyke sump report to this location prior to IVR attenuation pond

b. Water from this location is also used as dust suppression in the interior of the mine, representatives stated that a larger tanker truck is used and the water is spread only within the watershed of the mine
c. The sump is located at N 65^0 24' 37.8", W 96^0 41' 58.8"

12. Groundwater Storage Pond
    a. Water here is collected from the underground operation, as well as runoff from the Underground Rock Storage (photo 6)
    b. The water is saline due to the use of calcium chloride in the drilling process, and that water is re-used in underground activities
    c. Pond is located at N 65^o 24' 27.9", W 96^o 41' 15.3"
13. Wastewater Treatment Plant, ST-WT-23 & ST-WT-24
    a. ST-WT-23 is equip with a monitoring station sign inside the plant as required by PART I item 7 (photo 7). This station monitors untreated contact water prior to treatment and discharge
    b. Wastewater Treatment Plant and ST-WT-23 is located at N 65^0 24' 10.6" W 96^0 40' 56.6"
    c. The water being pumped into the Whale Tale diffuser passes through a header pump where monitoring station ST-WT-24 is located. (photo 8) Water quality samples were collected and sent for analysis, Results were not available at the writing of this report
    d. No monitoring station sign, or sign notifying the public of waste disposal facilities is present at this location as per licence Part I Item 7 and Part B Item 10
    e. ST-WT-24 is located generally at N 65^o 24' 10.6", W 96^o 40' 56.6"
14. Whale Tale Pit sump
    a. Located at the bottom of the Whale Tale open pit
    b. Water from this location reports to A49 sump

SECTION 2	☐ **Comments** (s.__)	☒ **Non-Compliance with Act or Licence** (s.2)	☐ **Action Required** (s.__)

Non-compliance related to the terms and conditions of water licence 2AM-WTP1830:

- Part B item 10-Failure to post signs to inform public of water supply facilities and waste disposal facilities
- Part I item 7- Failure to posts sings that identify monitoring stations

SECTION 3	☐ **Comments** (s.__)	☐ **Non-Compliance with Act or Licence,** (s.__)	☒ **Action Required** (s.3)

The licencee will:

- Install signage at sampling points, water intake facilities and waste disposal facilities
- Remove debris from the surface of Nemo Lake as soon as practical

Follow up information requested by the inspector was provided by the Licencee. The Environment Department has installed signage at multiple sampling station points and reported this to the Inspector.

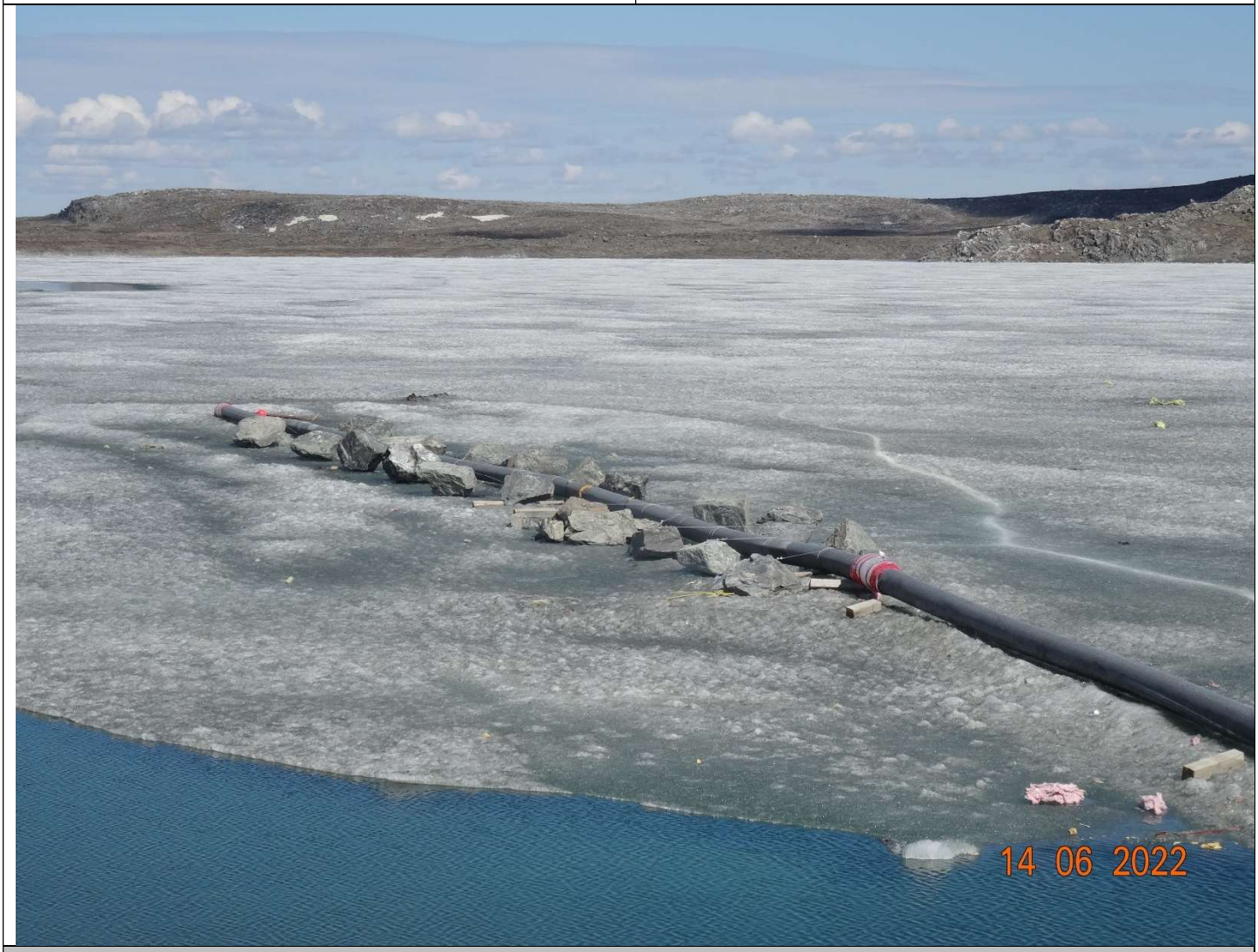
Licensee or Representative	**Inspector's Name**
Eric Haley	Kyle Amsel
Signature	**Signature**
Date	**Date**
	June 23, 2022

Office Use Only: Follow-up report to be issued by Inspector ☐ Yes ☒ No

cc.: Manager, Licensing, Nunavut Water Board
Manager, Field Operations, Crown Indigenous Relations and Northern Affairs Canada

Canada

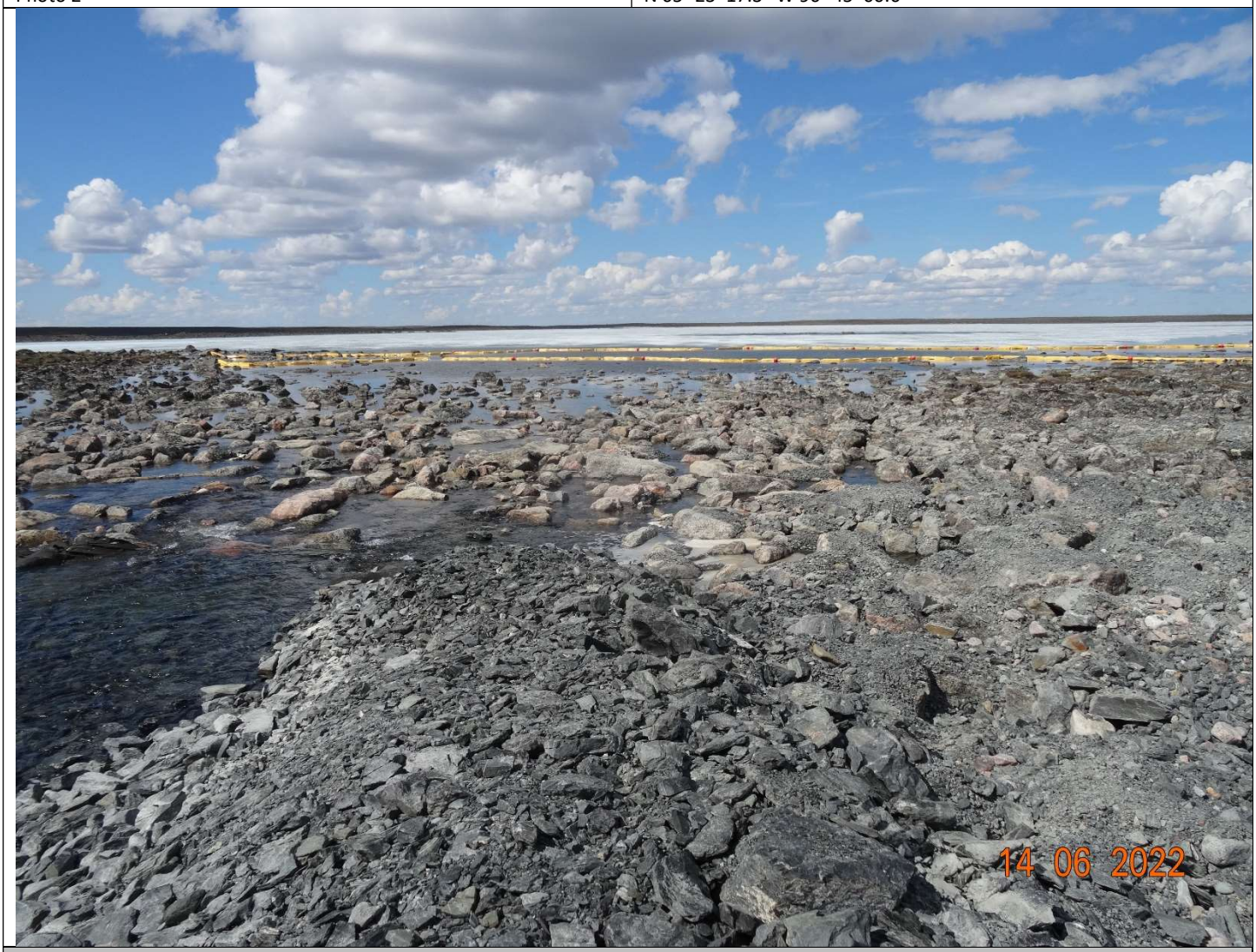
PHOTO LOG			
Date:	**Authorization Number:**	**Camera/Model:**	**Inspector**
June 14, 2022	2AM-WTP1830	Sony DSC-HX50V	WRO Amsel
Photo No.		**Lat/Long (DD.MM.SS.SS, NAD83)**	
Photo 1		N 65^0 25’ 08.8” W 96^0 42’ 16.17”	



Description:
Current water intake at Nemo Lake and debris on ice surface

Date:	Authorization Number:	Camera/Model:	Inspector
June 14, 2022	2AM-WTP1830	Sony DSC-HX50V	WRO Amsel

Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)
Photo 2	N 65^0 23’ 17.3” W 96^0 45’ 00.6”

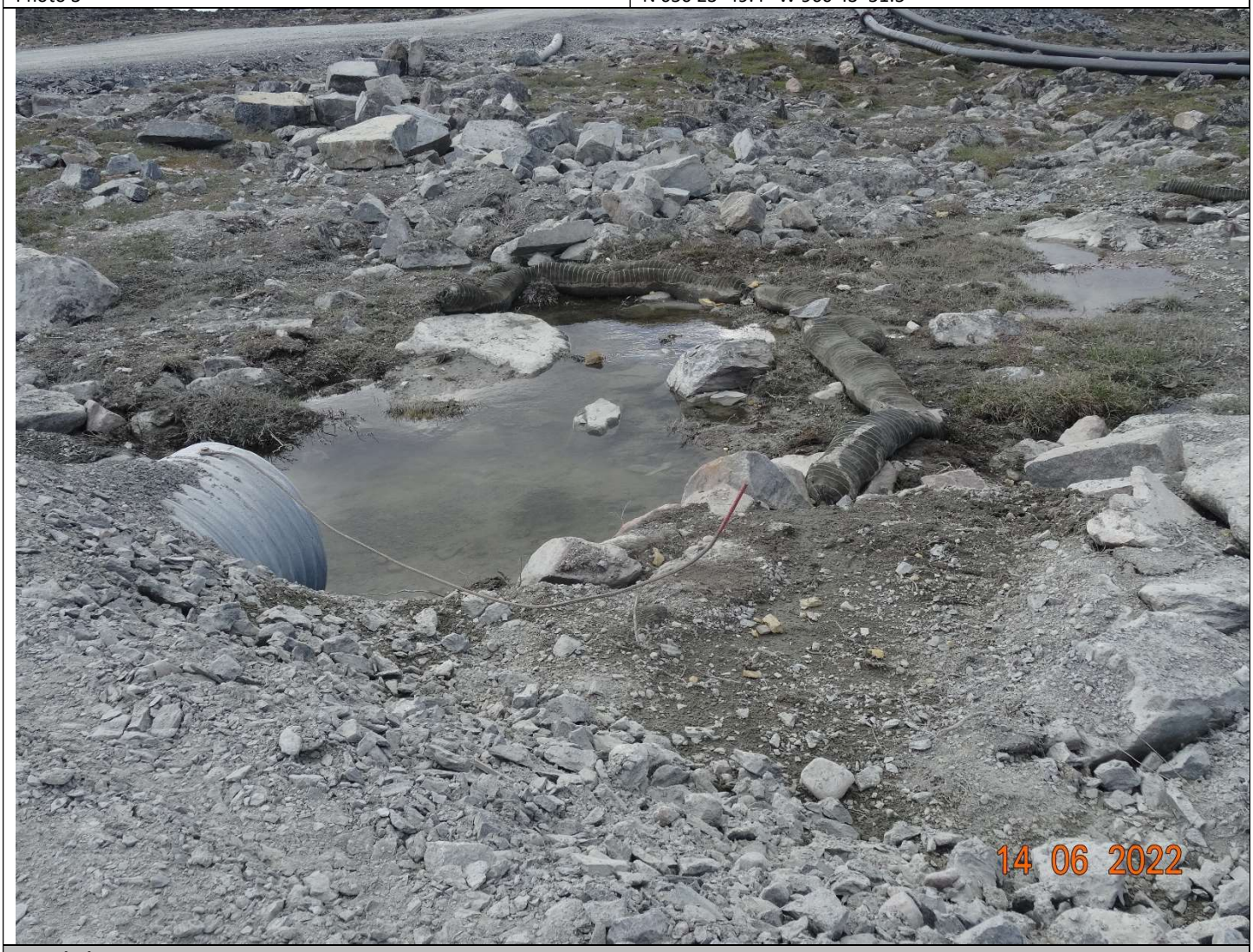


Description:

Outflow of Whale Tale South Diversion Channel into Mammoth Lake. Two silt curtains in background in Mammoth Lake

Date:	Authorization Number:	Camera/Model:	Inspector
June 14, 2022	2AM-WTP1830	Sony DSC-HX50V	RMO Wilson

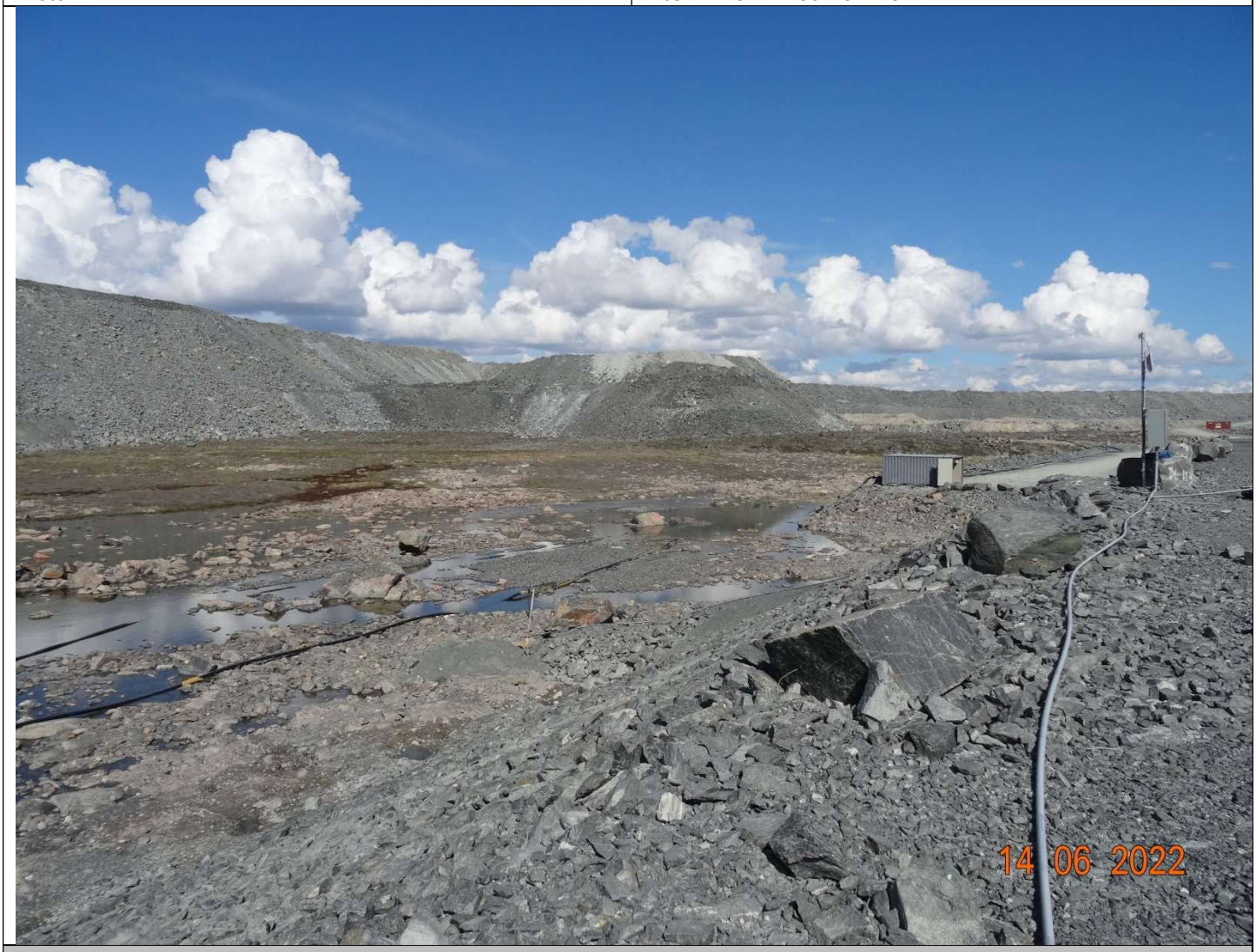
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)
Photo 3	N 650 23’ 49.4” W 960 43’ 51.5”



Description:
Signs of sediment being moved from water flowing through culvert and straw booms deployed

Date:	Authorization Number:	Camera/Model:	Inspector
June 14, 2022	2AM-WTP1830	Sony DSC-HX50V	RMO Wilson

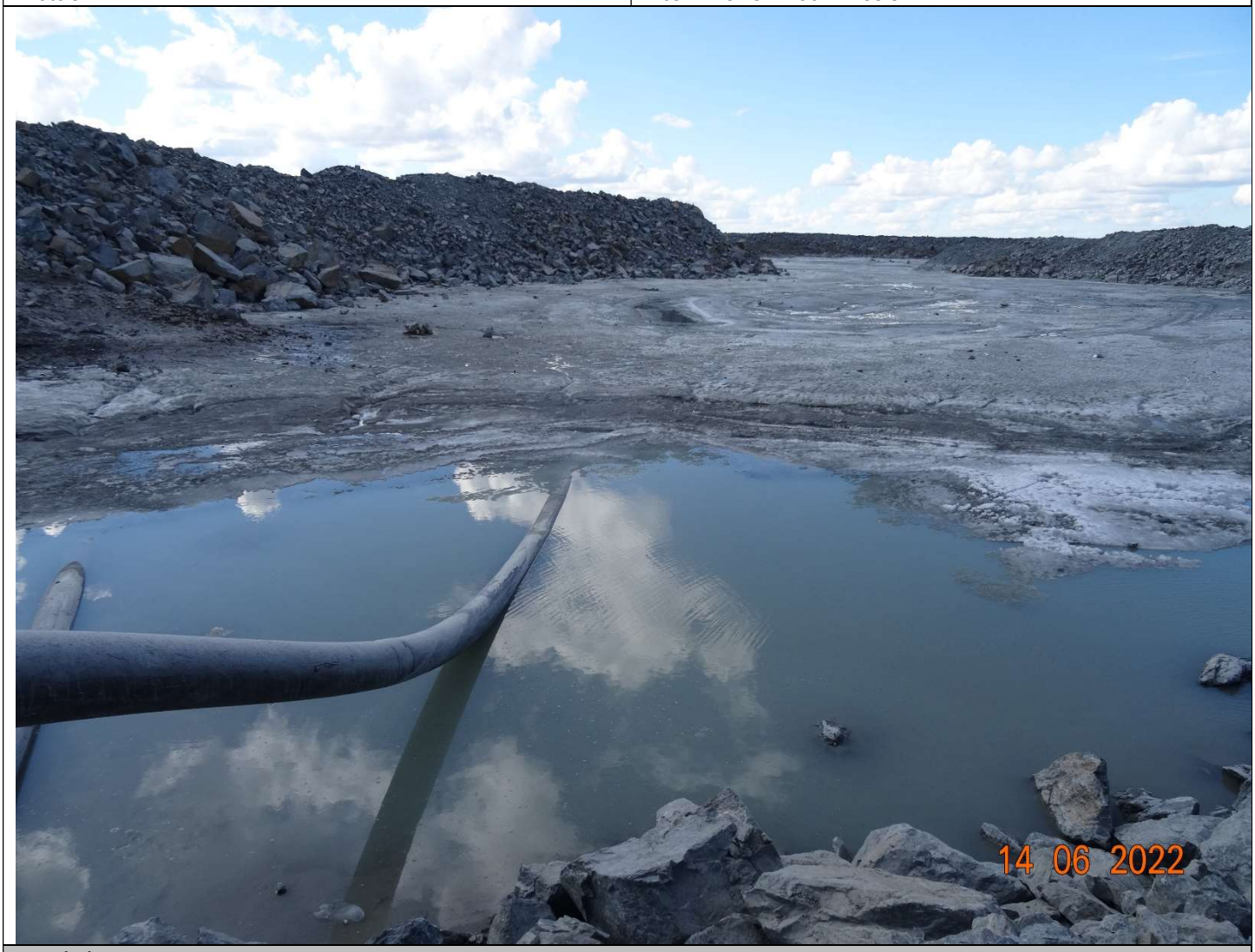
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)
Photo 4	N 65^0 24’ 19.7” W 96^0 43’ 47.8”



Description:
ST-WT-3

Date:	Authorization Number:	Camera/Model:	Inspector
June 14, 2022	2AM-WTP1830	Sony DSC-HX50V	WRO Amsel

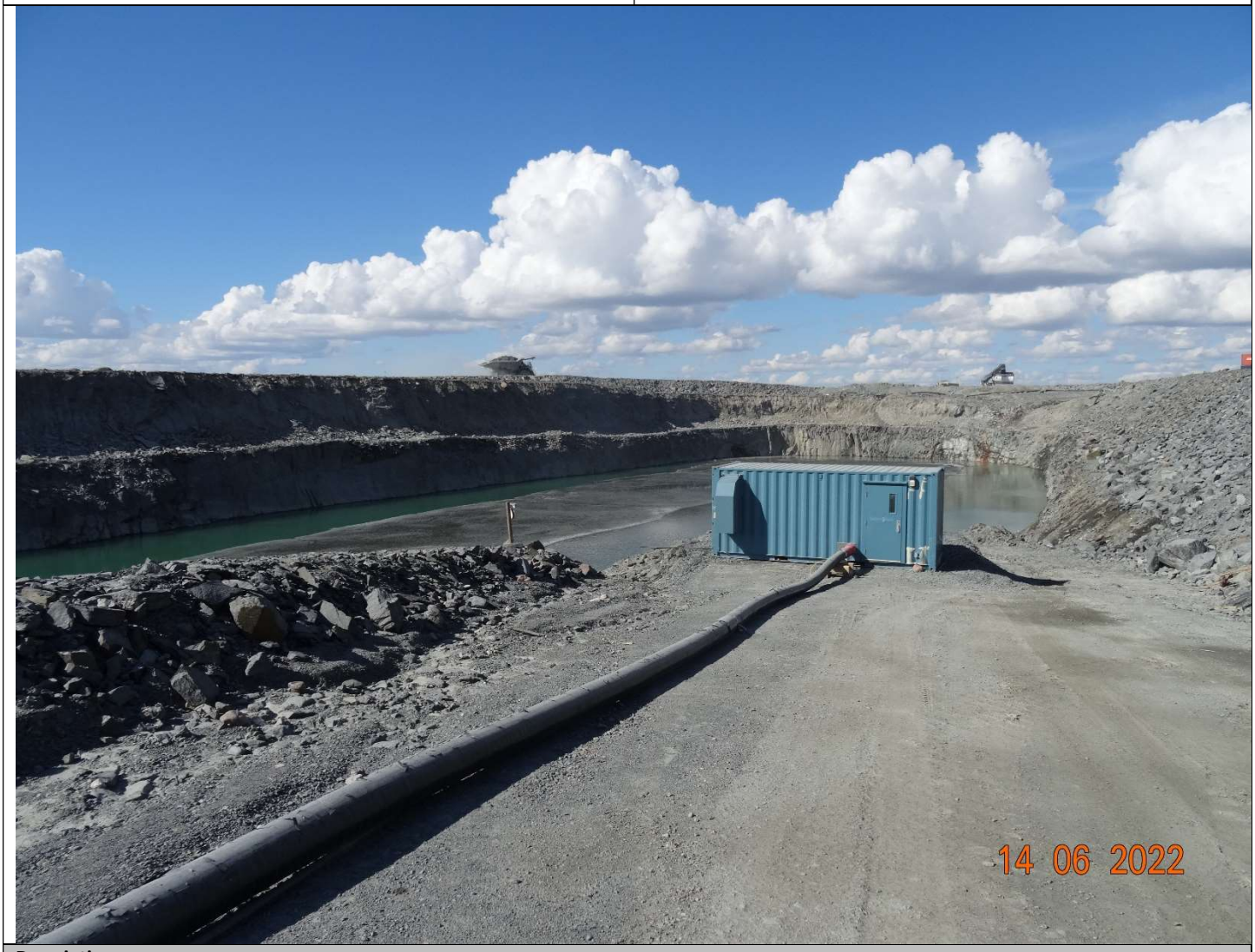
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)
Photo 5	N 65^0 24’ 37.8” W 96^0 41’ 58.8”



Description:
Lake /Sump A-49

Date:	Authorization Number:	Camera/Model:	Inspector
June 14, 2022	2AM-WTP1830	Sony DSC-HX50V	WRO Amsel

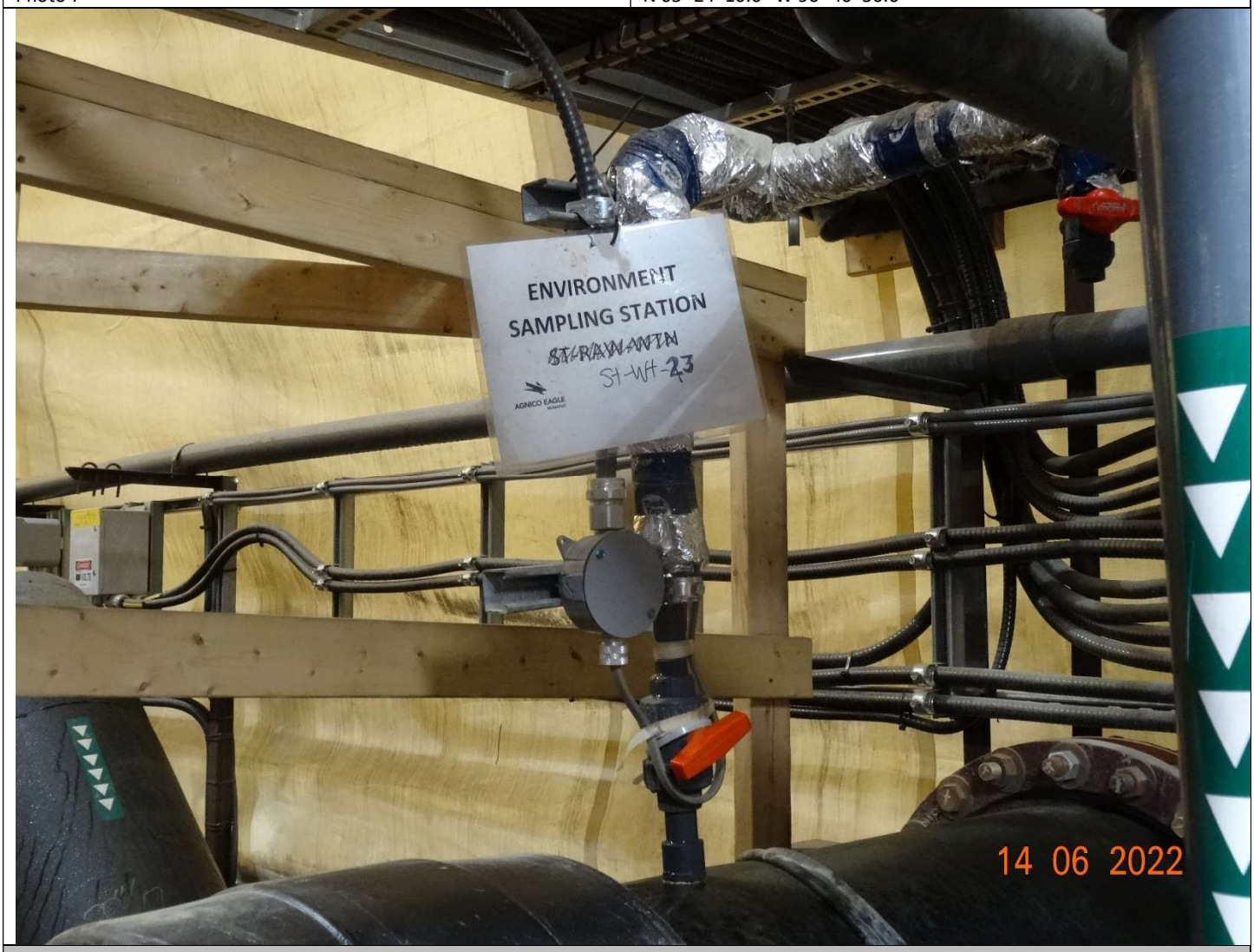
Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)
Photo 6	N 65^0 24’ 27.9” W 96^0 41’ 15.3”



Description:
Groundwater Storage Pond

Date:	Authorization Number:	Camera/Model:	Inspector
June 14, 2022	2AM-WTP1830	Sony DSC-HX50V	WRO Amsel

Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)
Photo 7	N 65^0 24’ 10.6” W 96^0 40’ 56.6”

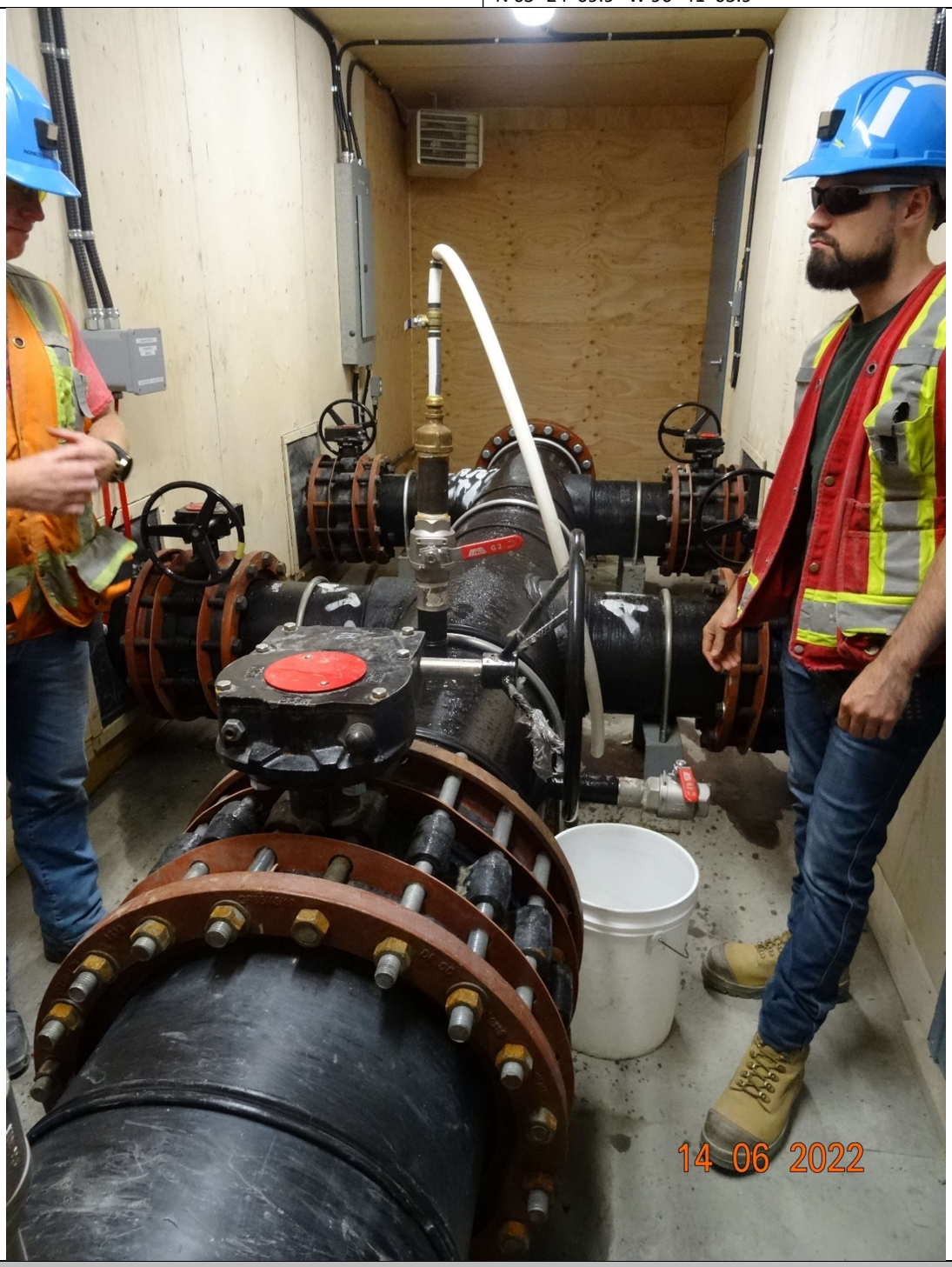


Description:

Monitoring Station ST-WT-23 sign inside Wastewater Treatement Plant

Date:	Authorization Number:	Camera/Model:	Inspector
June 14, 2022	2AM-WTP1830	Sony DSC-HX50V	WRO Amsel

Photo No.	Lat/Long (DD.MM.SS.SS, NAD83)
Photo 8	N 65^0 24’ 09.9” W 96^0 41’ 05.9”



Description:
Monitoring Station ST-WT-24, header pump