

## **PIN-2 SITE-SPECIFIC INFORMATION**

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## **A. PIN-2 Cape Young**

### **A.1 Introduction**

The former PIN-2 (Cape Young) DEW Line site is located on the mainland of Nunavut, adjacent to Dolphin and Union Strait, at approximately 68° 55' 44" N and 116° 55' 46" W. PIN-2 is approximately 150 km northwest of Kugluktuk and is accessible via charter aircraft.

The former DEW Line station was located 18 m above sea level. The terrain is characterized by a shallow, flat-bottomed channel with numerous small thermokarst lakes and other permafrost-related landforms.

PIN-2 was an auxiliary site within the original DEW Line system. The station was constructed in the 1950s and was decommissioned in 1993, following construction of a more modern North Warning System (NWS) short range radar (SRR) site designated as PIN-2A, approximately 8 km southwest of the former DEW Line site.

The environmental clean-up and demolition of DEW Line facilities began in 2009 and were completed in 2011. All DEW Line structures at the site were demolished, with the exception of a hangar. The clean-up included the remediation and closure of seven existing landfills as well as the construction of two new engineered facilities consisting of a non-hazardous waste landfill for the disposal of site debris and demolition waste, and a Tier II Disposal Facility for the disposal of Tier II contaminated soil.

The landfills subject to long term monitoring are shown on the site plan, Figure PIN-2.1, and are listed below:

- Airstrip Landfill
- USAF Landfill
- Station West Landfill
- Tier II Disposal Facility
- Airstrip South Landfill
- Pallet Line West Landfill
- Non-Hazardous Waste Landfill
- South Landfill East
- South Borrow Landfill

The monitoring schedule for PIN-2 is provided in Table A.1.

Table A.1: Monitoring Schedule		
Monitoring Event Name <sup>1</sup>	Monitoring Event Number	Year
Year 1	1	2012
Year 2	2	2013
Year 3	3	2014
Year 4	4	2015
Year 5	5	2016
Year 7	6	2018
Year 13 <sup>2</sup>	7	2024
Year 15	8	2026
Year 25	9	2036
Notes:		
1. The monitoring event name represents the number of years since site clean-up was completed.		
2. The Year 10 monitoring event was originally scheduled for 2021; due to COVID-19, the monitoring schedule has been adjusted and a Year 13 event will take its place in 2024.		

A summary of the monitoring locations associated with each landfill is provided in Table A.2. Approximate locations are shown on Figures PIN-2.2 through PIN-2.10.

Table A.2: Summary of Landfill Monitoring Locations		
Monitoring Locations	Northing (m)	Easting (m)
<b>Airstrip Landfill</b>		
P2-21 (soil)	7647259.4	502522.7
P2-22 (soil)	7647374.4	502534.4
P2-23 (soil)	7647376.1	502589.0
P2-24 (soil)	7647401.3	502630.7
P2-25 (soil)	7647373.2	502649.0
P2-26 (soil)	7647317.2	502639.7
<b>USAF Landfill</b>		
P2-01 (soil)	7646958.9	502197.6
P2-02 (soil)	7646923.4	502248.7
P2-03 (soil)	7646867.2	502251.9
P2-04 (soil)	7646896.5	502197.3

<b>Table A.2: Summary of Landfill Monitoring Locations</b>		
<b>Monitoring Locations</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
<b>Station West Landfill</b>		
P2-05 (soil)	7646879.8	502095.4
P2-06 (soil)	7646789.2	502096.1
P2-07 (soil)	7646762.2	502149.3
P2-08 (soil)	7646799.9	502200.8
<b>Tier II Disposal Facility</b>		
MW-01 (soil and groundwater)	7646319.6	502402.9
MW-02 (soil and groundwater)	7646239.7	502421.9
MW-03 (soil and groundwater)	7646236.8	502497.9
MW-04 (soil and groundwater)	7646319.8	502549.3
VT-1 (temperature)	7646281.0	502434.2
VT-2 (temperature)	7646274.2	502465.0
VT-3 (temperature)	7646307.5	502460.3
VT-4 <sup>1</sup> (temperature)	7646284.2	502497.4
<b>Airstrip South Landfill</b>		
P2-13 (soil)	7646266.2	503171.4
P2-14 (soil)	7646247.1	503238.0
P2-15 (soil)	7646292.9	503248.6
P2-16 (soil)	7646337.3	503220.9
<b>Pallet Line West Landfill</b>		
P2-09 (soil)	7645741.6	502570.5
P2-10 (soil)	7645790.2	502630.3
P2-11 (soil)	7645843.2	502590.0
P2-12 (soil)	7645861.2	502537.2
<b>Non-Hazardous Waste Landfill</b>		
MW-05 (soil and groundwater)	7645229.3	503029.4
MW-06 (soil and groundwater)	7645297.0	503054.2
MW-07 (soil and groundwater)	7645272.0	503102.0
MW-08 <sup>2</sup> (soil and groundwater)	7645223.0	503076.6

<b>Table A.2: Summary of Landfill Monitoring Locations</b>		
<b>Monitoring Locations</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
<b>South Landfill East</b>		
P2-17 (soil)	7645060.0	503404.5
P2-18 (soil)	7645111.0	503473.2
P2-19 (soil)	7645086.7	503533.0
P2-20 (soil)	7645058.1	503557.1
<b>South Borrow Landfill</b>		
P2-27 (soil)	7643445.0	503881.5
P2-28 (soil)	7643474.1	503877.4
P2-29 (soil)	7643506.8	503910.6
P2-30 (soil)	7643476.5	504053.7
Projection: NAD83 – Zone 11		