

Meliadine Water Licence Amendment

Nunavut Water Board Technical Meeting

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June 5-6, 2024

Rankin Inlet, NU

Lᖅᐱᖅ 5-6, 2024

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AGNICO EAGLE



PRESENTATION SUMMARY

- Meliadine Mine Water Licence Amendment Description
- Public Engagement and Community Response Update
- Technical Comments
 - Summary
 - Water Management
 - Aquatic Effects Monitoring Program (AEMP)
 - Technical Comment Commitments
- Conclusion

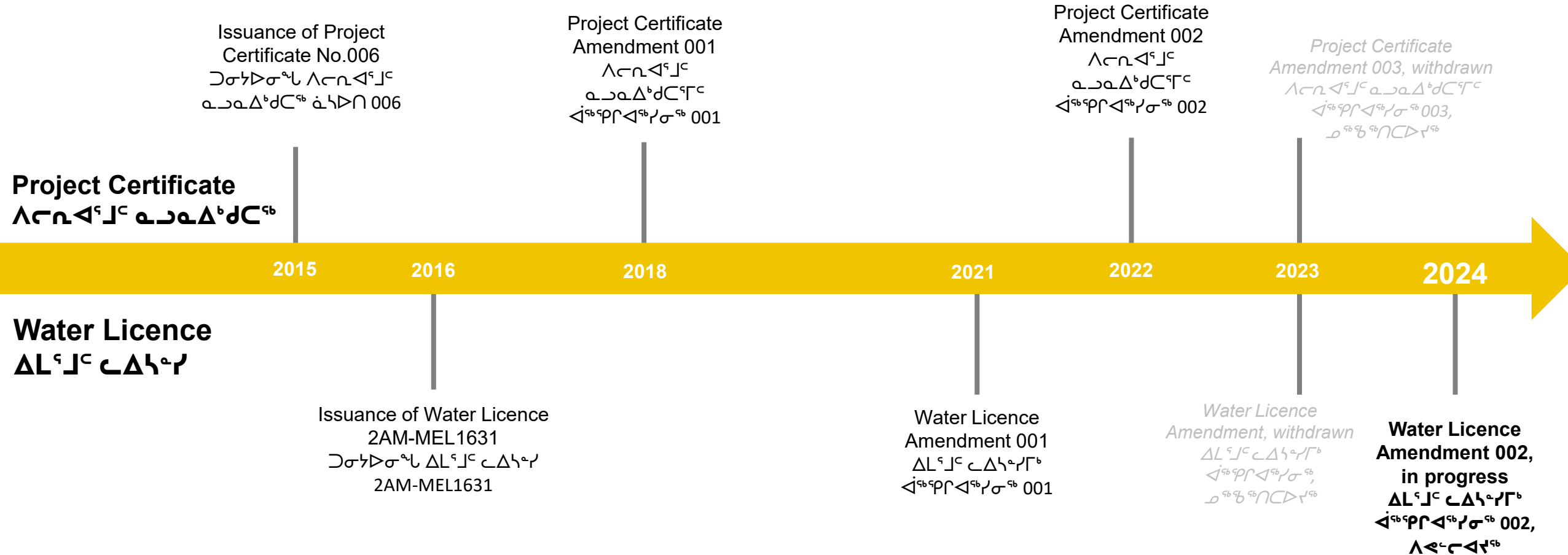
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MELIADINE MINE – HISTORY

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Approved Water Licence

- Only open pit and underground mining of the Tiriganiaq deposit
- Water Licence expires 2031

2020 Water Licence Amendment

- Construction of access roads
- Additional laydown areas
- Updated waste management strategy

◀^a ⋮^b C ▶^c L^c

- ስለፍጥነት ምርመራ ማድረግና ማረጋገጥ
- ለፍጥነት ምርመራ ማድረግና ማረጋገጥ

2020 ልደግ ርዕሰ ልደሳለግ ልደሰግ ልደሰግ ልደሰግ

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Meliadine Mine Water Licence Amendment		Previously Assessed (2014 FEIS) & Approved (Project Certificate No. 006) የኔፓላን ሽርጭር (2014 FEIS) ላይ ያለው የውሃ ማጠቃለያ (ለፍጥነት ማስፈጸም 006)
• Completion of water licensing for open pit mining at Wesmeg, Pump, F Zone, and Discovery.	• ለወሽግ ሽርጭር ለፍጥነት ማስፈጸም ወደ ሞንግጋሪያ ሽርጭር፣ ፍጥነት፣ F Zone-ፍጥነት፣ ለፍጥነት ማስፈጸም.	✓
• Waste rock storage facilities WRSF6 (Pump); WRSF7 (F Zone); WRSF9 (Discovery).	• ለፍጥነት ማስፈጸም ወደ ሞንግጋሪያ ሽርጭር WRSF6 (ፍጥነት); WRSF7 (F Zone); WRSF9 (ሞንግጋሪያ).	✓
• Completion of the fuel tank farm capacity to store up to 80 million litres of diesel fuel.	• ለወሽግ ሽርጭር ወደ ሞንግጋሪያ ሽርጭር ወደ 80 ሺህ ሺህ ሊታመን የሚችል የድሴል ኪሎሊትር ማስፈጸም.	✓
• Completion of water licensing for capacity to 20.6 Mm ³ .	• ለወሽግ ሽርጭር ለፍጥነት ማስፈጸም 20.6 Mm ³ -ውስጥ ማስፈጸም	✓
• Increase in the current water use from 742,000 to 1,100,296 m ³ /yr, which is below the approved limit from the approved 2014 FEIS	• ለፍጥነት ማስፈጸም ወደ ሞንግጋሪያ ሽርጭር 742,000-ውስጥ 1,100,296 m ³ -ውስጥ ወደ ሞንግጋሪያ ሽርጭር የሚፈጸም የውሃ ማጠቃለያ 2014 FEIS-ፍጥነት	✓
• Contact water infrastructure for Pump, F Zone, Wesmeg, and Discovery	• ለፍጥነት ማስፈጸም ለፍጥነት ማስፈጸም ፍጥነት፣ F Zone-ፍጥነት፣ ለፍጥነት ማስፈጸም፣ ለፍጥነት ማስፈጸም	✓
• Dewatering of Lakes and Ponds to support mining at Pump, F Zone, Wesmeg, and Discovery	• ለወሽግ ሽርጭር ለፍጥነት ማስፈጸም ወደ ሞንግጋሪያ ሽርጭር ለፍጥነት ማስፈጸም፣ ፍጥነት፣ F Zone፣ ለፍጥነት ማስፈጸም፣ ለፍጥነት ማስፈጸም	✓
• Saline Pond 6 (SP6)	• ለፍጥነት ማስፈጸም 6 (SP6)	✓

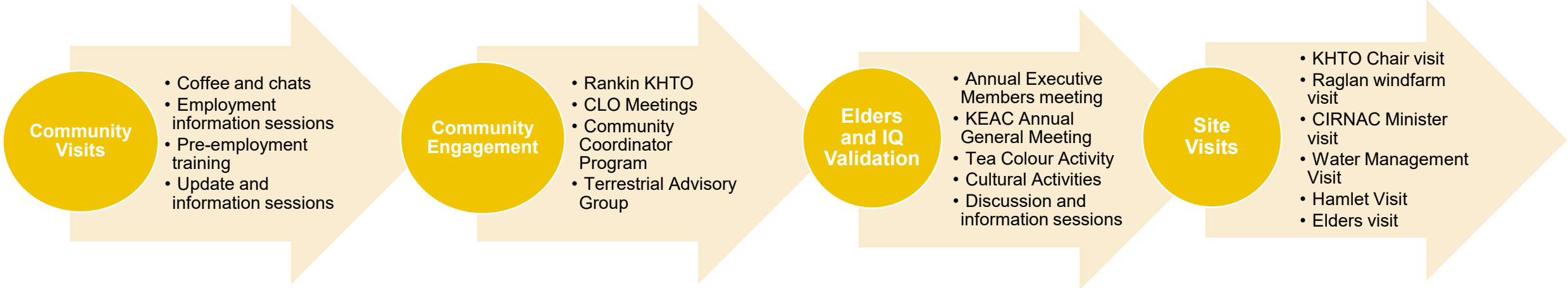
Public Engagement and Community Response Update

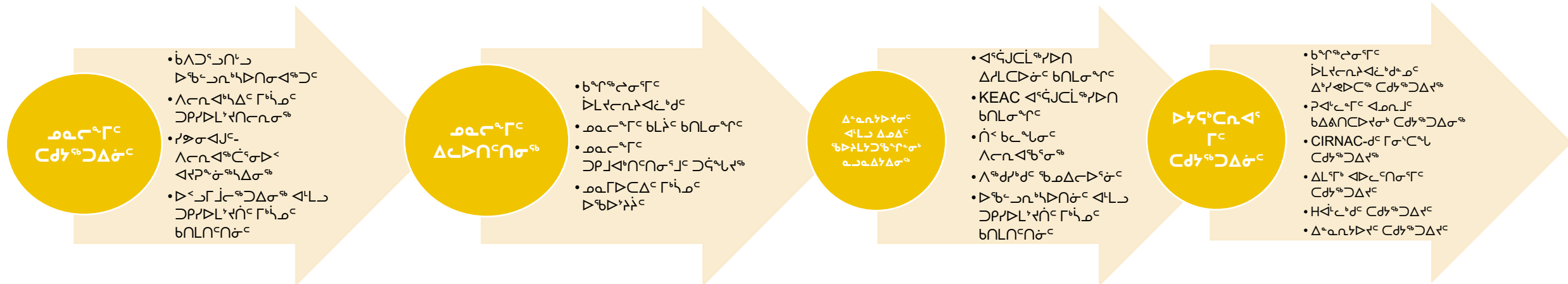
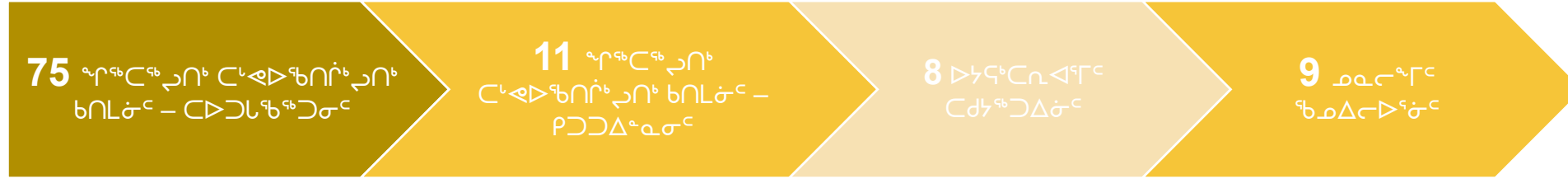
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AGNICO EAGLE







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1th, 2024

navut Water Board, Manager of Licensing

Members of the Kivalliq Elders Advisory Committee and Rankin Inlet elders, we are writing to express our support for the Meliadine Mine Water License Amendment to continue operations. We are supportive of the Meliadine Mine Water License Amendment to continue operations.

our opinion that the benefits of this project would positively contribute to the Kivalliq, which we would like to encourage the Board in completing the regulatory process in a manner.

won't be available to attend the technical meeting in person, we would like this letter shared at the Technical Meeting during the community session.

John R. Allen

Inlet Members of the Kivalliq Elders Advisory Committee

Rosie Colbooyuk
Levin Brown
John Holley

Sincerely,

~~Harry Towtongie~~
Mayor



MUNICIPALITY OF RANKIN INLET
Box 310, Rankin Inlet, Nunavut
X0C 0G0

April 8, 2024

Richard Dwyer
Manager of Licensing
Nunavut Water Board
Box 119, Gjoa Haven, NU X0B 1J0
VIA Email richard.dwyer@nwb-oen.ca

The Hamlet Council of Rankin Inlet fully supports the proposed water license amendments submitted by AEM for the Meliadine Mine.

The water license amendment is necessary for Meliadine Mine to continue operations.

It is the council's opinion that the benefits of this project, would positively contribute to the Hamlet of Rankin Inlet, as such we would like to encourage the Board in completing the regulatory process in a timely manner.

We have no concerns with the amendment at this time.

We would like this letter to be shared at the technical meeting during the community session.

Sincerely,

~~Harry Towtongie~~
Mayor

Agnico Eagle | NWB Technical Meeting

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Office of the Mayor
Municipality of Baker Lake

April 3rd 2024

To: Nunavut Water Board, Manager of Licensing

As Mayor of the Hamlet of Baker Lake, I am writing this letter on behalf of the council. We are supportive of Agnico Eagles submission for the Meliadine Mine Water License Amendment to ensure the current life of the mine to 2031.

It is in the council's opinion that the benefits of this project, would positively contribute to the Hamlet of Baker Lake, and as such we would like to encourage the Board to complete the regulatory process in a timely manner.

The Hamlet council has no concerns with the amendment, at this time.

As we cannot attend in person, we would like this letter to be shared at the Technical Meeting during the community session.

Sincerely,

Kevin Iksiktaaryuk
Mayor



HAMLET OF ARVIAT

904 6th Street
P.O. Box 150
Arviat, Nunavut, X0C 0E0
Phone 867-857-2841
Facsimile: 867-857-2519
e-mail: sao@arviat.ca

April 10, 2024

**To: Nunavut Water Board
Manager of Licensing**

As Mayor of the Hamlet of Arviat, I am writing this letter on behalf of the Hamlet Council. We are supportive of the Meliadine Mine Water License Amendment to continue their operations.

It is in the council's opinion that the benefits of this project, would positively contribute to the Hamlet and the people of Arviat, as such we would like to encourage the board in completing the regulatory process in a timely manner.

The Hamlet of Arviat has no concerns with the amendment at this time.

We would like this letter to be shared at the technical meeting during the community session.

If you have any questions, please feel free to contact myself at any time.

Yours truly,

Mr. Joe Savikataaq jr.
Mayor of Arviat

Technical Comment Summary

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AGNICO EAGLE



TECHNICAL COMMENT SUMMARY

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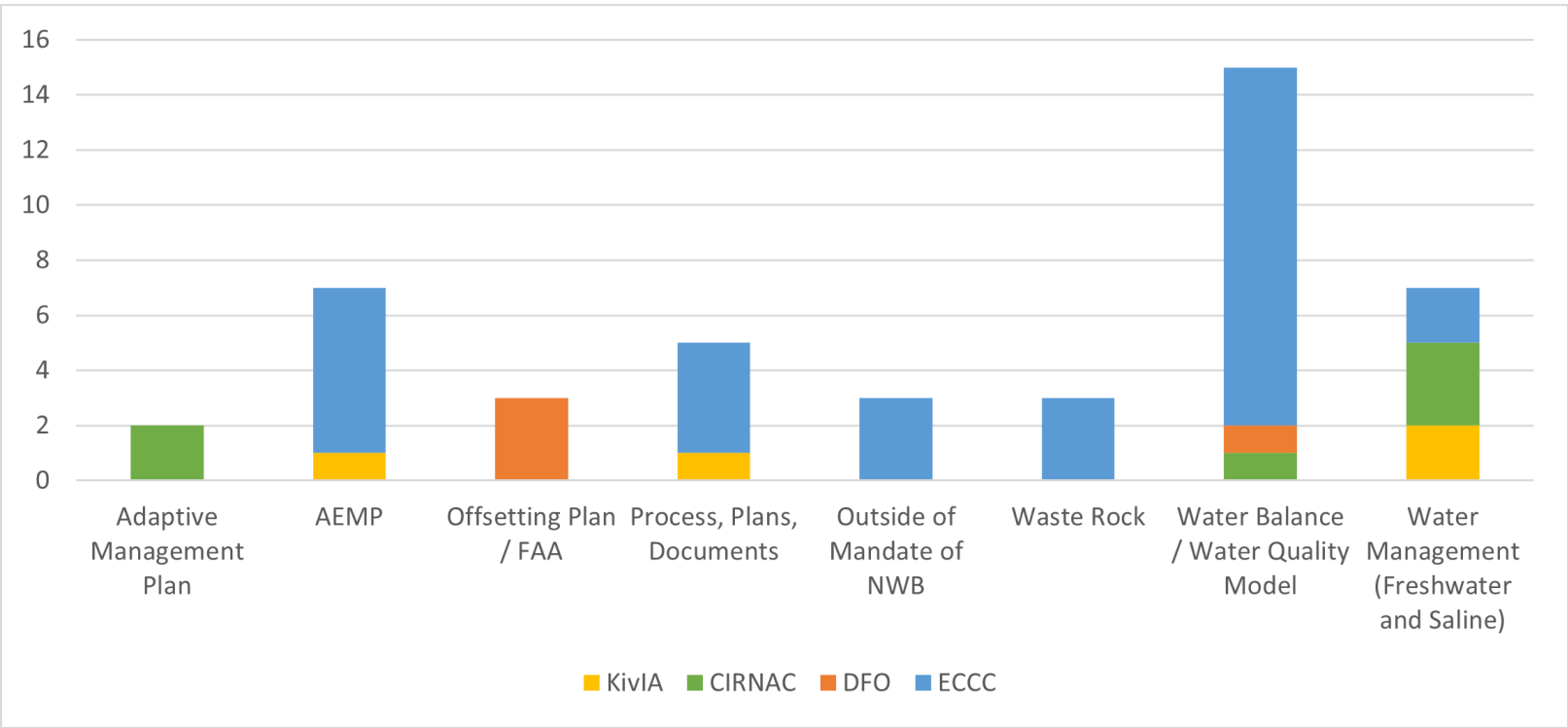
Resolution of Technical Comment Status

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Resolved through Response to Technical Comments	Resolved by Commitment	Outside of Mandate of the NWB
KivIA-TC-03	KivIA-TC-01	ECCC-TC-26
KivIA-TC-04	KivIA-TC-02	ECCC-TC-27
CIRNAC-TC-02	CIRNAC-TC-01	ECCC-TC-28
CIRNAC-TC-03	ECCC-TC-08	
CIRNAC-TC-04	ECCC-TC-12	
CIRNAC-TC-05	ECCC-TC-13	
CIRNAC-TC-06	ECCC-TC-18	
DFO-TC-01	ECCC-TC-22	
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Technical Comment Theme

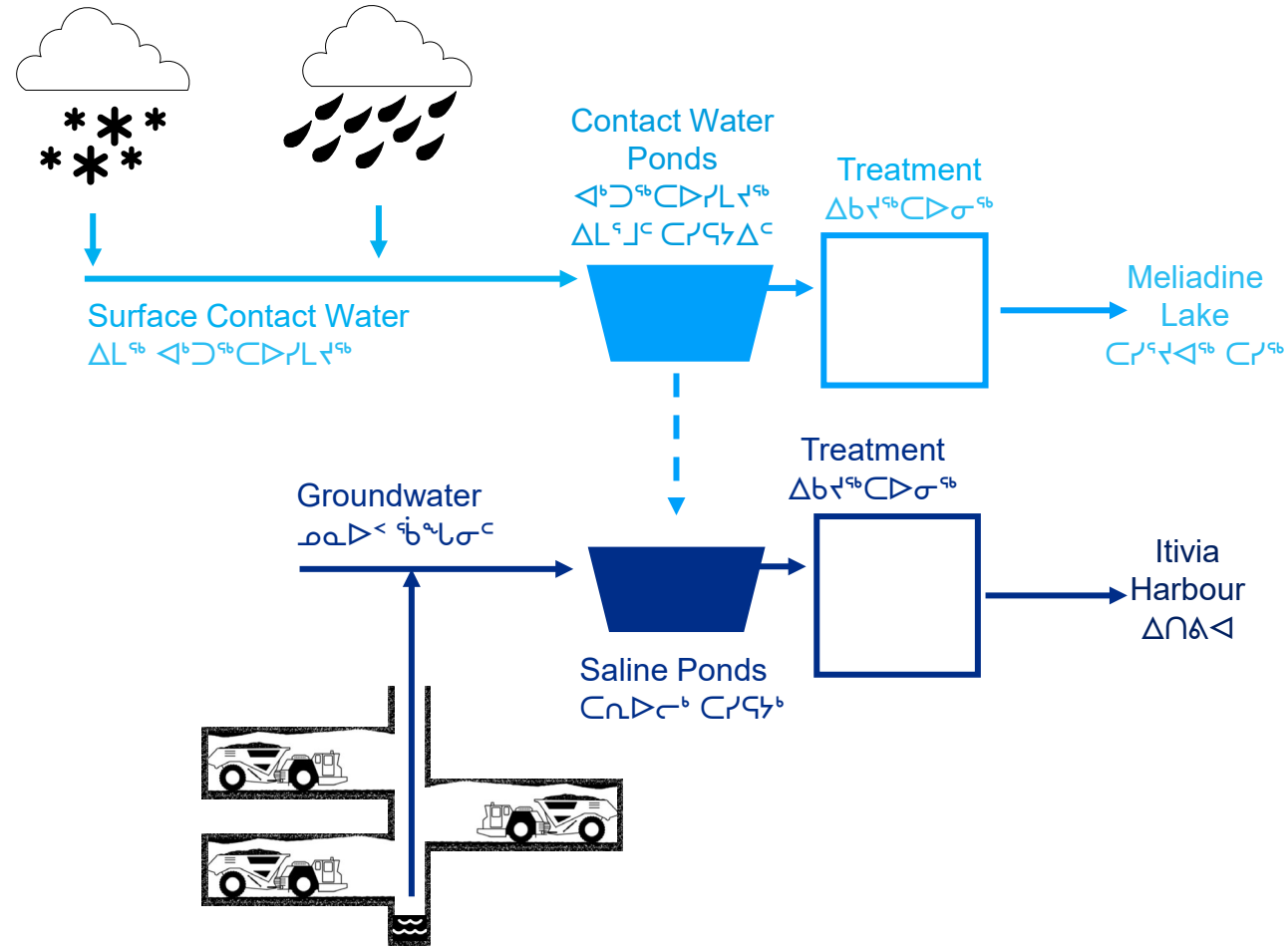
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- Technical Comments
 - Summary
 - Water Management
 - Aquatic Effects Monitoring Program (AEMP)
 - Commitments made

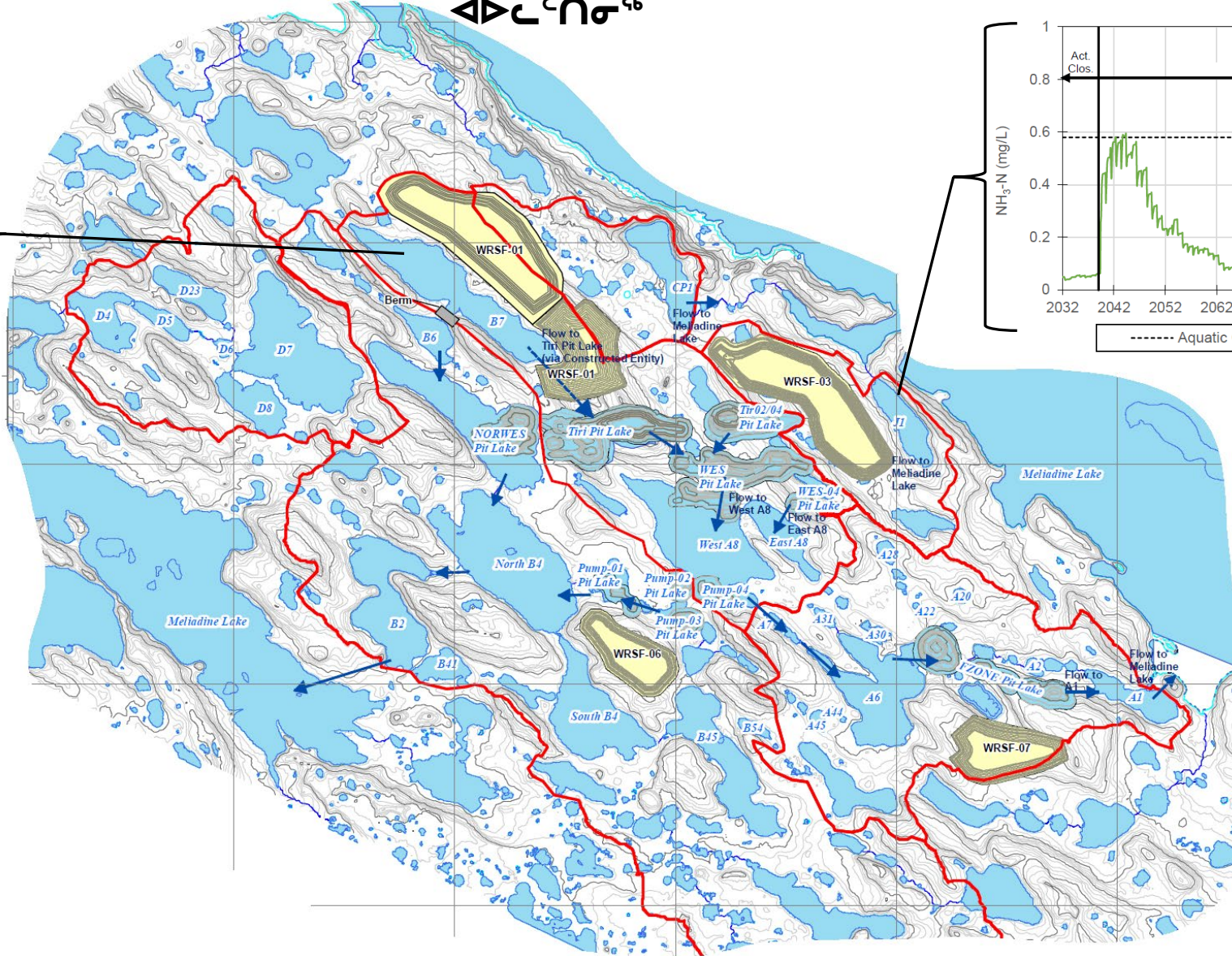
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- Meliadine Water Management Flow Diagram



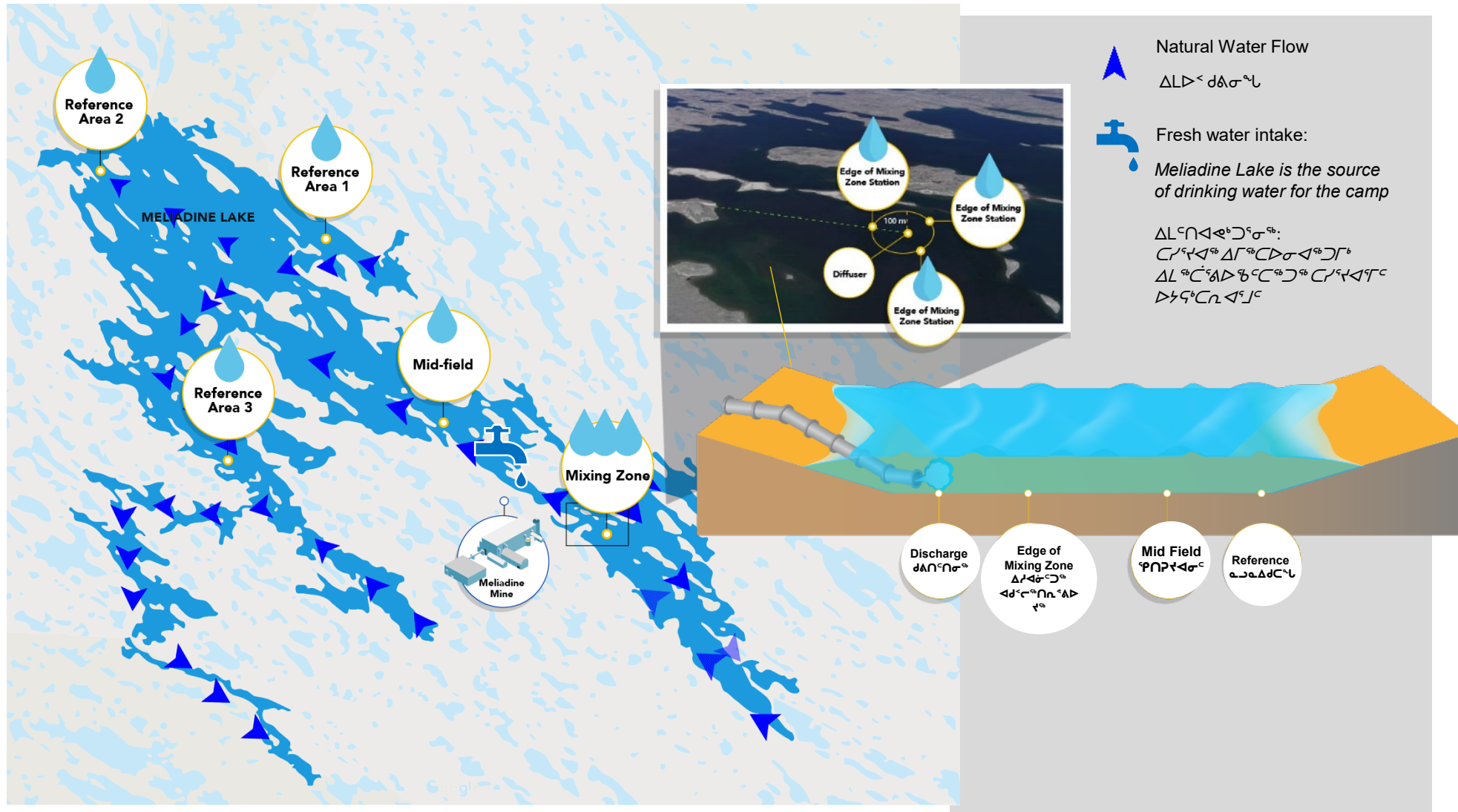
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TECHNICAL COMMENT SUMMARY – AQUATIC EFFECTS MONITORING PROGRAM

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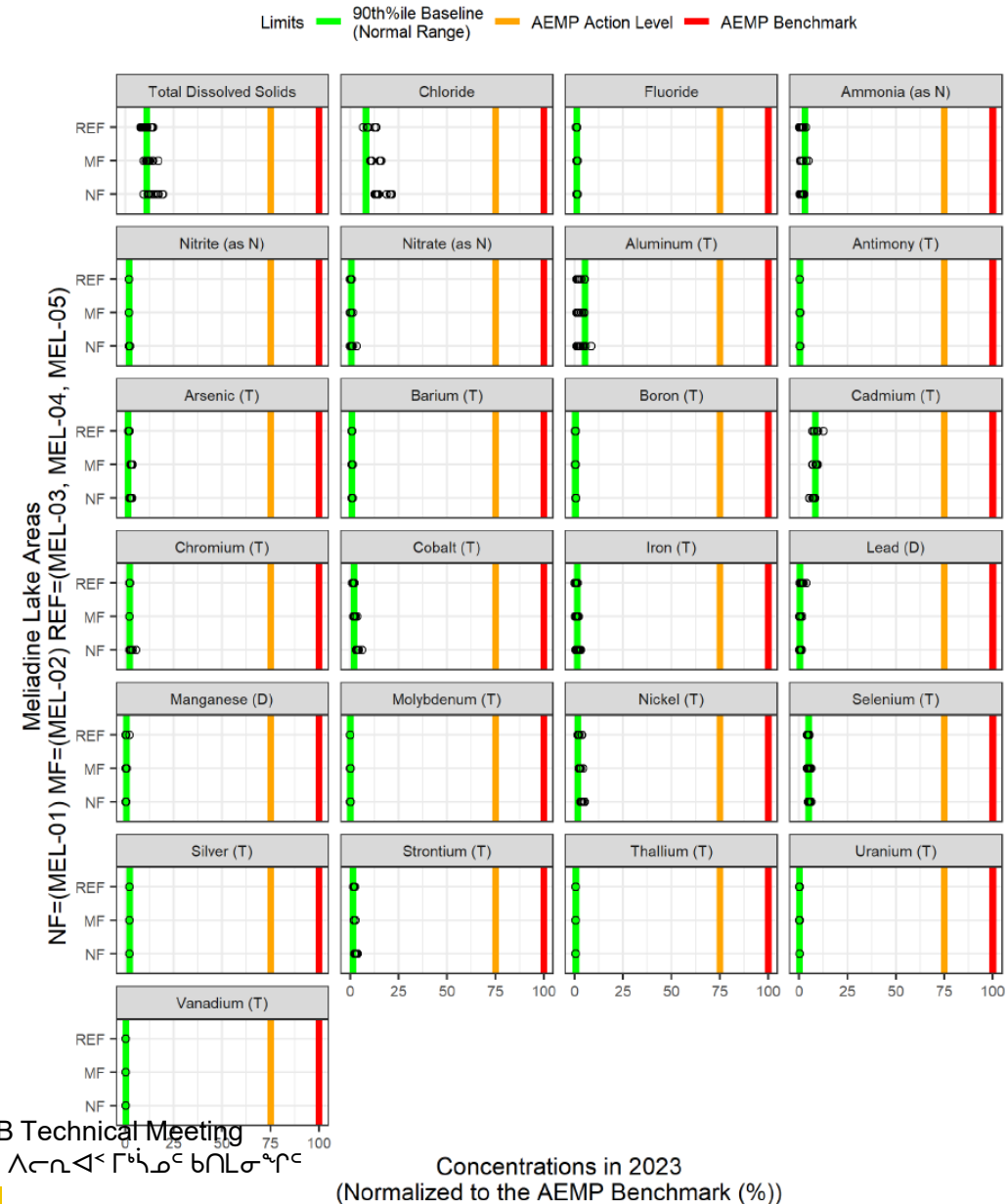


TECHNICAL COMMENT SUMMARY – AQUATIC EFFECTS MONITORING PROGRAM

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የመልከክር ቤት መሬት የጥበቃ አስተዳደር**



- Since operations in 2018, there has been no exceedances in Health Canada Drinking Water Quality guidelines in Meliadine Lake
- 2018-2019, 2019-2020, 2020-2021, 2021-2022, 2022-2023, 2023-2024, 2024-2025, 2025-2026, 2026-2027, 2027-2028, 2028-2029, 2029-2030, 2030-2031, 2031-2032, 2032-2033, 2033-2034, 2034-2035, 2035-2036, 2036-2037, 2037-2038, 2038-2039, 2039-2040, 2040-2041, 2041-2042, 2042-2043, 2043-2044, 2044-2045, 2045-2046, 2046-2047, 2047-2048, 2048-2049, 2049-2050, 2050-2051, 2051-2052, 2052-2053, 2053-2054, 2054-2055, 2055-2056, 2056-2057, 2057-2058, 2058-2059, 2059-2060, 2060-2061, 2061-2062, 2062-2063, 2063-2064, 2064-2065, 2065-2066, 2066-2067, 2067-2068, 2068-2069, 2069-2070, 2070-2071, 2071-2072, 2072-2073, 2073-2074, 2074-2075, 2075-2076, 2076-2077, 2077-2078, 2078-2079, 2079-2080, 2080-2081, 2081-2082, 2082-2083, 2083-2084, 2084-2085, 2085-2086, 2086-2087, 2087-2088, 2088-2089, 2089-2090, 2090-2091, 2091-2092, 2092-2093, 2093-2094, 2094-2095, 2095-2096, 2096-2097, 2097-2098, 2098-2099, 2099-2100, 2100-2101, 2101-2102, 2102-2103, 2103-2104, 2104-2105, 2105-2106, 2106-2107, 2107-2108, 2108-2109, 2109-2110, 2110-2111, 2111-2112, 2112-2113, 2113-2114, 2114-2115, 2115-2116, 2116-2117, 2117-2118, 2118-2119, 2119-2120, 2120-2121, 2121-2122, 2122-2123, 2123-2124, 2124-2125, 2125-2126, 2126-2127, 2127-2128, 2128-2129, 2129-2130, 2130-2131, 2131-2132, 2132-2133, 2133-2134, 2134-2135, 2135-2136, 2136-2137, 2137-2138, 2138-2139, 2139-2140, 2140-2141, 2141-2142, 2142-2143, 2143-2144, 2144-2145, 2145-2146, 2146-2147, 2147-2148, 2148-2149, 2149-2150, 2150-2151, 2151-2152, 2152-2153, 2153-2154, 2154-2155, 2155-2156, 2156-2157, 2157-2158, 2158-2159, 2159-2160, 2160-2161, 2161-2162, 2162-2163, 2163-2164, 2164-2165, 2165-2166, 2166-2167, 2167-2168, 2168-2169, 2169-2170, 2170-2171, 2171-2172, 2172-2173, 2173-2174, 2174-2175, 2175-2176, 2176-2177, 2177-2178, 2178-2179, 2179-2180, 2180-2181, 2181-2182, 2182-2183, 2183-2184, 2184-2185, 2185-2186, 2186-2187, 2187-2188, 2188-2189, 2189-2190, 2190-2191, 2191-2192, 2192-2193, 2193-2194, 2194-2195, 2195-2196, 2196-2197, 2197-2198, 2198-2199, 2199-2200, 2200-2201, 2201-2202, 2202-2203, 2203-2204, 2204-2205, 2205-2206, 2206-2207, 2207-2208, 2208-2209, 2209-2210, 2210-2211, 2211-2212, 2212-2213, 2213-2214, 2214-2215, 2215-2216, 2216-2217, 2217-2218, 2218-2219, 2219-2220, 2220-2221, 2221-2222, 2222-2223, 2223-2224, 2224-2225, 2225-2226, 2226-2227, 2227-2228, 2228-2229, 2229-2230, 2230-2231, 2231-2232, 2232-2233, 2233-2234, 2234-2235, 2235-2236, 2236-2237, 2237-2238, 2238-2239, 2239-2240, 2240-2241, 2241-2242, 2242-2243, 2243-2244, 2244-2245, 2245-2246, 2246-2247, 2247-2248, 2248-2249, 2249-2250, 2250-2251, 2251-2252, 2252-2253, 2253-2254, 2254-2255, 2255-2256, 2256-2257, 2257-2258, 2258-2259, 2259-2260, 2260-2261, 2261-2262, 2262-2263, 2263-2264, 2264-2265, 2265-2266, 2266-2267, 2267-2268, 2268-2269, 2269-2270, 2270-2271, 2271-2272, 2272-2273, 2273-2274, 2274-2275, 2275-2276, 2276-2277, 2277-2278, 2278-2279, 2279-2280, 2280-2281, 2281-2282, 2282-2283, 2283-2284, 2284-2285, 2285-2286, 2286-2287, 2287-2288, 2288-2289, 2289-2290, 2290-2291, 2291-2292, 2292-2293, 2293-2294, 2294-2295, 2295-2296, 2296-2297, 2297-2298, 2298-2299, 2299-2300, 2300-2301, 2301-2302, 2302-2303, 2303-2304, 2304-2305, 2305-2306, 2306-2307, 2307-2308, 2308-2309, 2309-2310, 2310-2311, 2311-2312, 2312-2313, 2313-2314, 2314-2315, 2315-2316, 2316-2317, 2317-2318, 2318-2319, 2319-2320, 2320-2321, 2321-2322, 2322-2323, 2323-2324, 2324-2325, 2325-2326, 2326-2327, 2327-2328, 2328-2329, 2329-2330, 2330-2331, 2331-2332, 2332-2333, 2333-2334, 2334-2335, 2335-2336, 2336-2337, 2337-2338, 2338-2339, 2339-2340, 2340-2341, 2341-2342, 2342-2343, 2343-2344, 2344-2345, 2345-2346, 2346-2347, 2347-2348, 2348-2349, 2349-2350, 2350-2351, 2351-2352, 2352-2353, 2353-2354, 2354-2355, 2355-2356, 2356-2357, 2357-2358, 2358-2359, 2359-2360, 2360-2361, 2361-2362, 2362-2363, 2363-2364, 2364-2365, 2365-2366, 2366-2367, 2367-2368, 2368-2369, 2369-2370, 2370-2371, 2371-2372, 2372-2373, 2373-2374, 2374-2375, 2375-2376, 2376-2377, 2377-2378, 2378-2379, 2379-2380, 2380-2381, 2381-2382, 2382-2383, 2383-2384, 2384-2385, 2385-2386, 2386-23

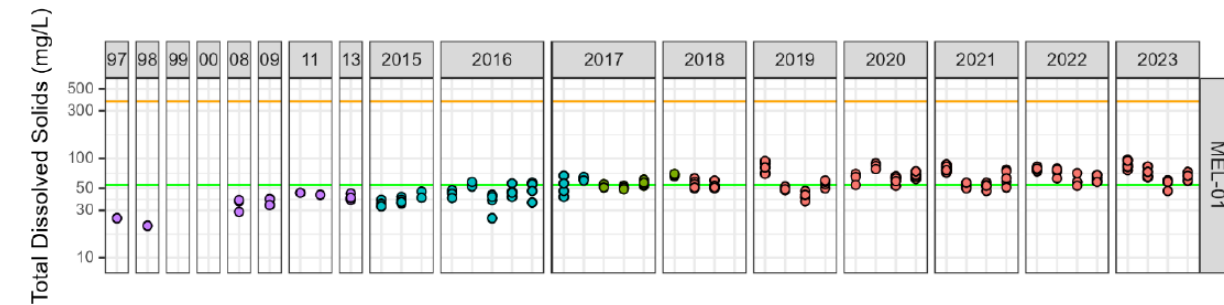
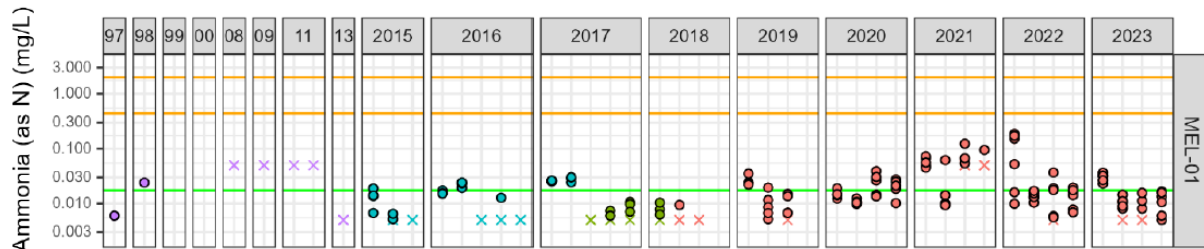
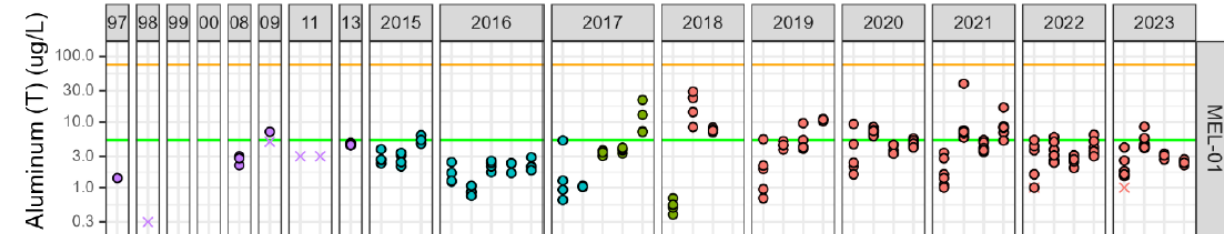
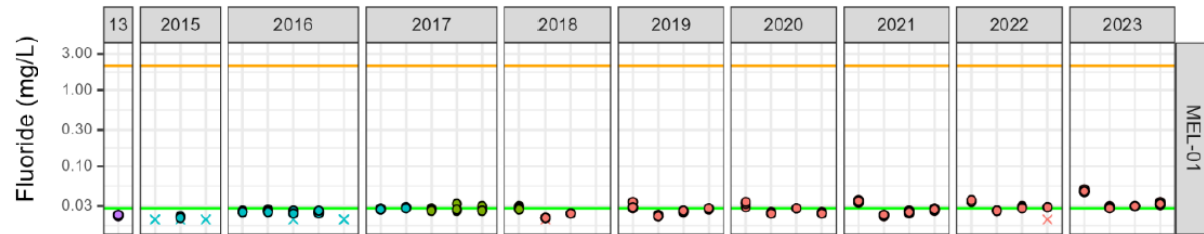
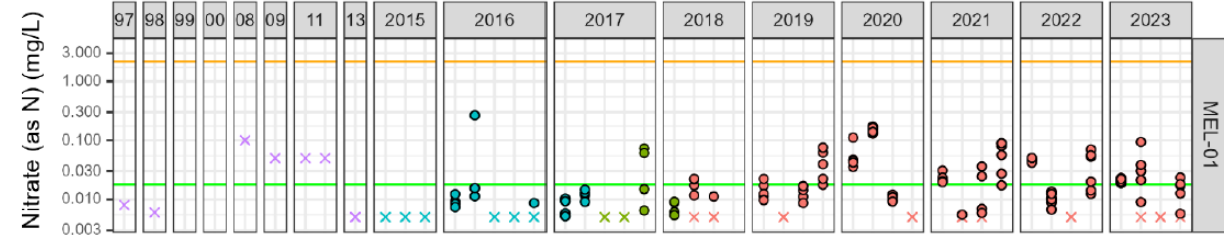
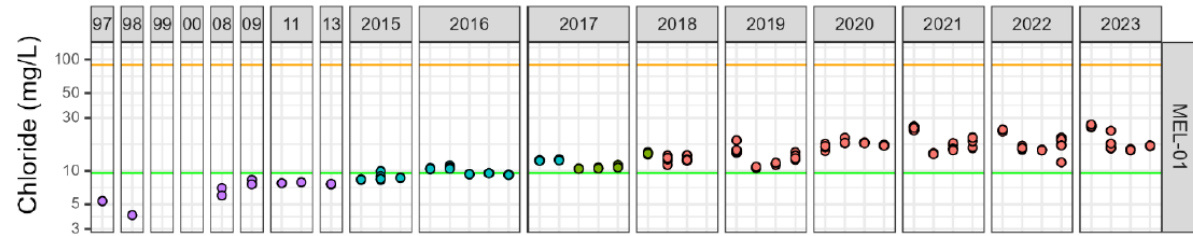


TECHNICAL COMMENT SUMMARY – AQUATIC EFFECTS MONITORING PROGRAM

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- Detect**
○ Detect
x <DL
- Criteria**
— Action Level
— Normal Range
- Project phase**
● Baseline | Control
● Pre-construction
● Construction
● Operations

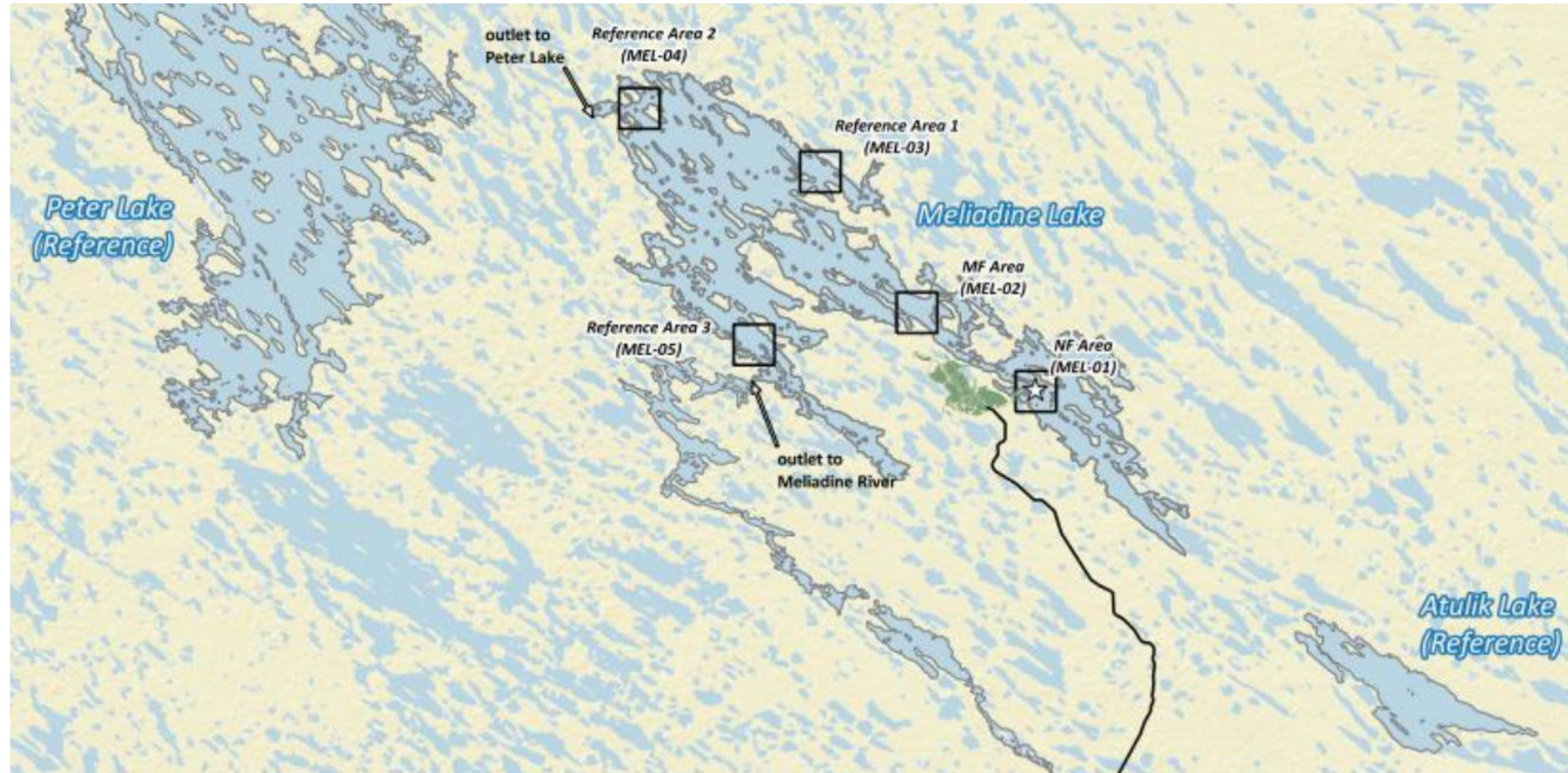


TECHNICAL COMMENT SUMMARY – AQUATIC EFFECTS MONITORING PROGRAM

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 ምልክት በጥላቻዎች ምረቃ ምረቃ



- Natural climate variability at MEL-03, MEL-04, and MEL-05
- Peter Lake and Atulik Lake included in Cycle 3 Environmental Effects Monitoring



ΛΓΠΔ< ΓΉΨ< ΔΨΔΥΔΥ< ΛΓΠΔ< ςϺΔΨ>Δ<

[illegible]

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Conclusions

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