



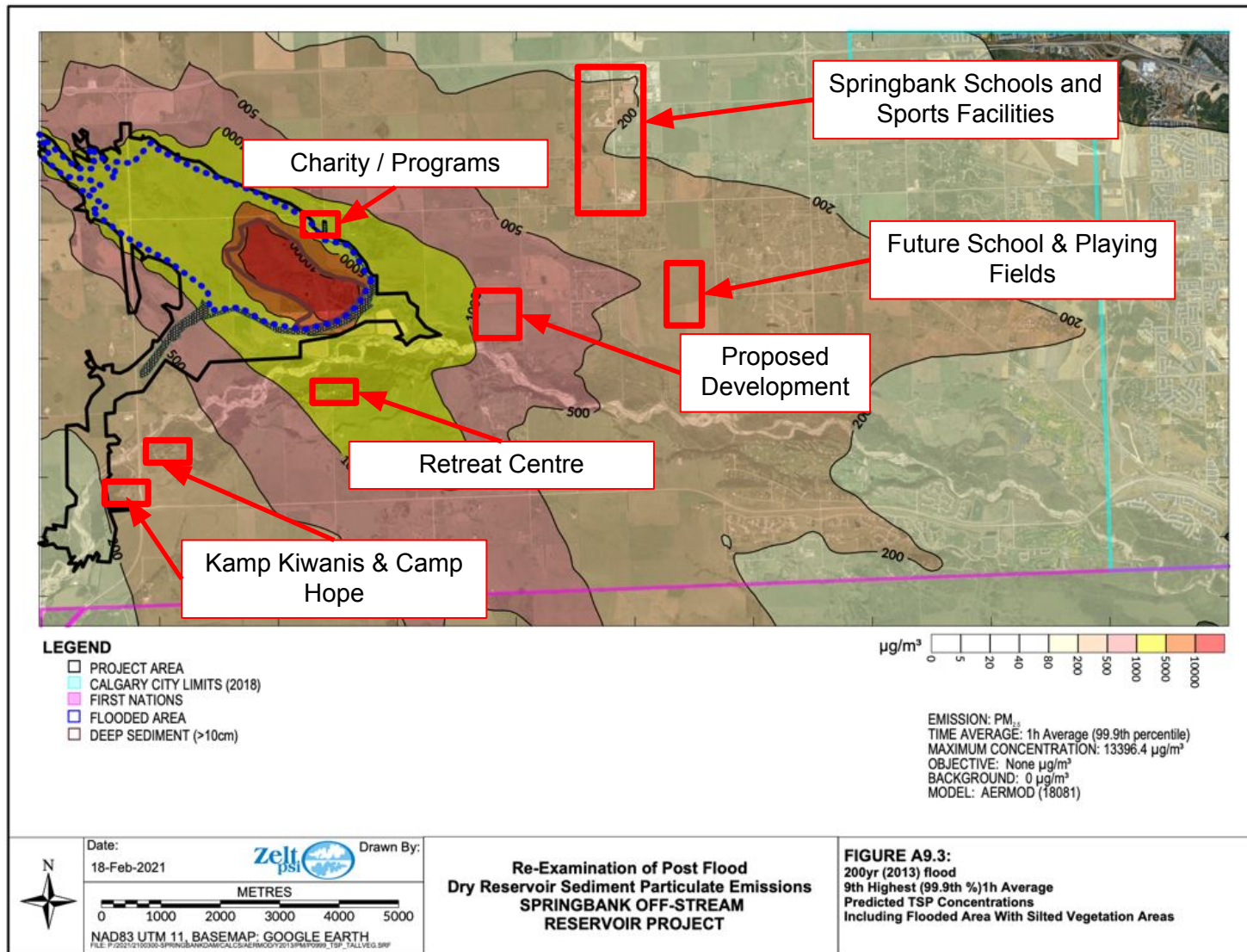
Air Quality and Community Locations

SCLG Aid to Cross

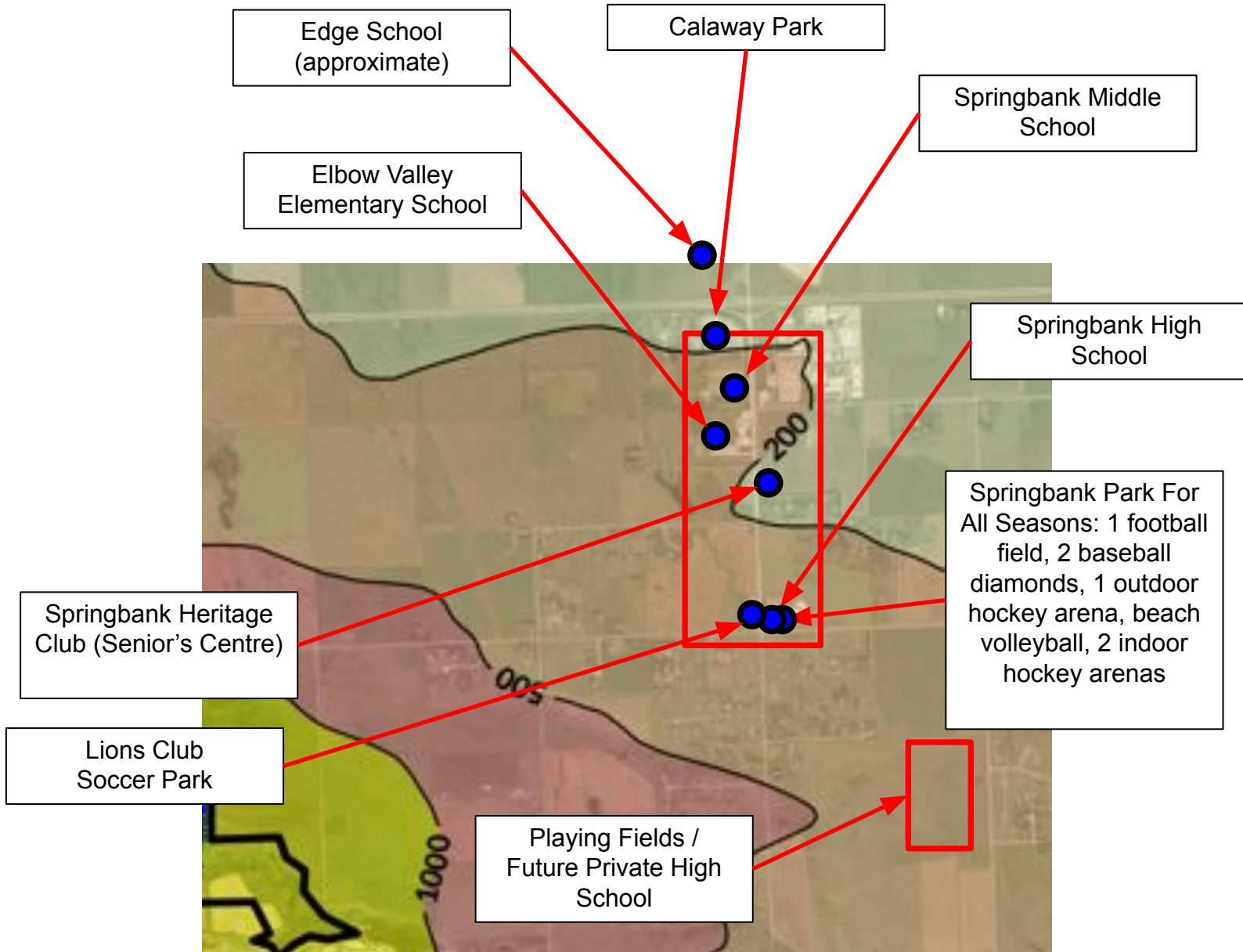


Air Quality Map: Zelt - 1 hour TSP 200 year flood (A9.3)

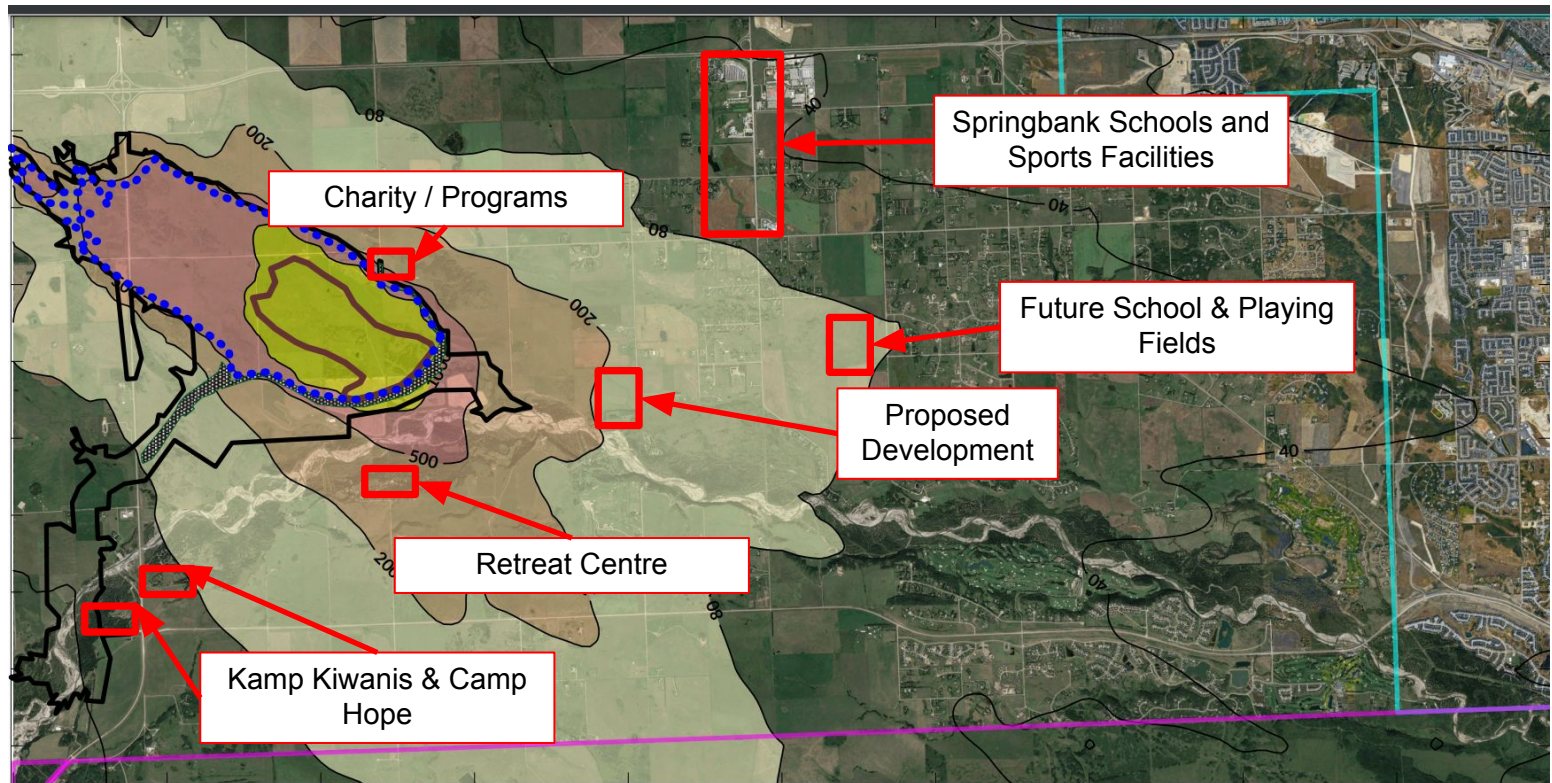
Exhibit 269,
pg 48



Air Quality Map: Zelt - 1 hour TSP 200 year flood



Air Quality Map: Zelt - 1 hour PM2.5 99.9% 200 year flood (A9.1)

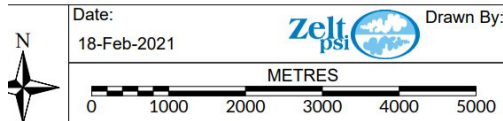


LEGEND

- PROJECT AREA
- CALGARY CITY LIMITS (2018)
- FIRST NATIONS
- FLOODED AREA
- DEEP SEDIMENT (>10cm)



EMISSION: PM_{2.5}
 TIME AVERAGE: 1h Average (99.9th percentile)
 MAXIMUM CONCENTRATION: 3081.2 µg/m³
 OBJECTIVE: 80 µg/m³
 BACKGROUND: 0 µg/m³
 MODEL: AERMOD (18081)

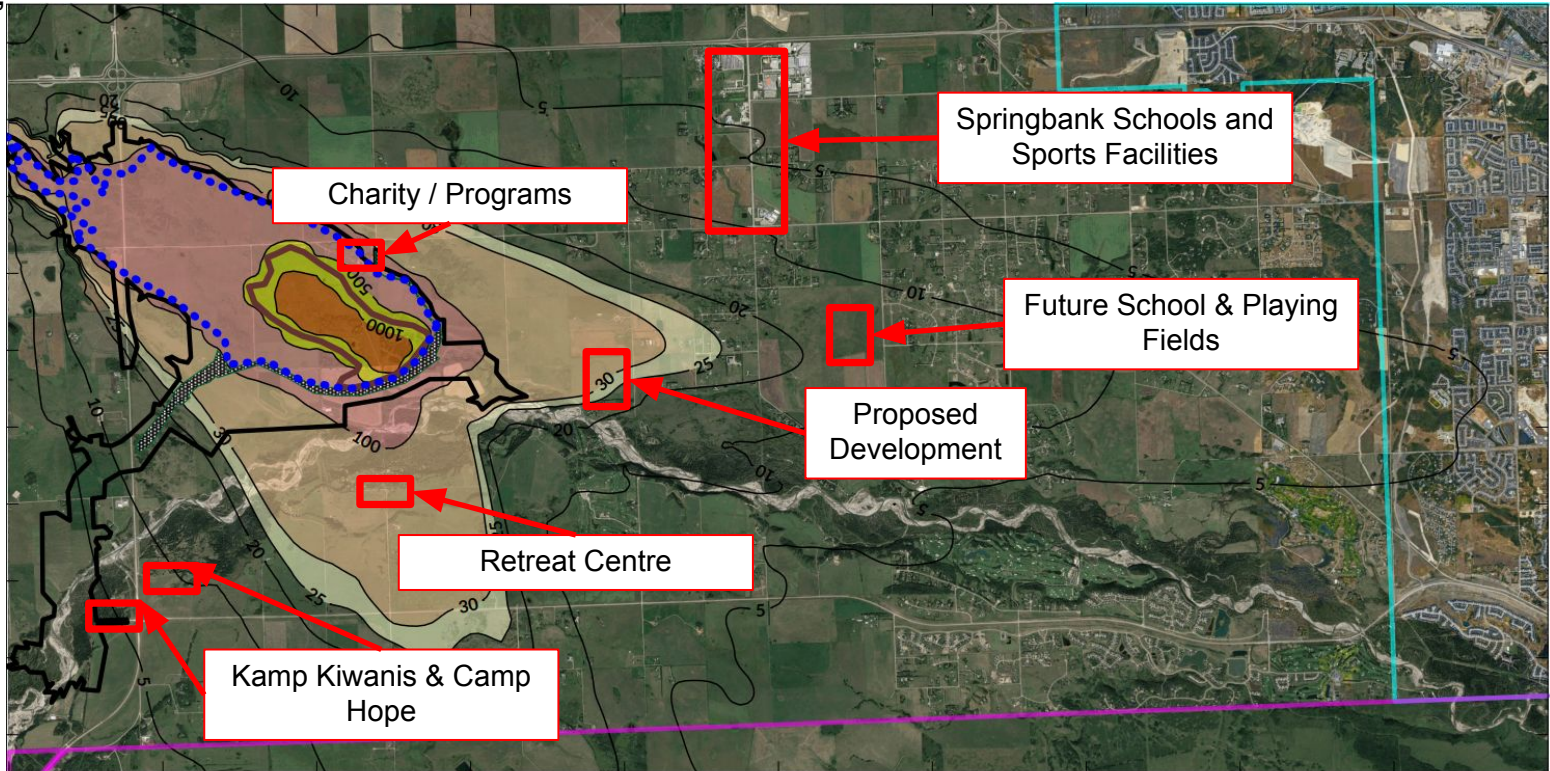


**Re-Examination of Post Flood
 Dry Reservoir Sediment Particulate Emissions
 SPRINGBANK OFF-STREAM
 RESERVOIR PROJECT**

FIGURE A9.1:
 200yr (2013) flood
 9th Highest (99.9th %)1h Average
 Predicted PM_{2.5} Concentrations
 Including Flooded Area With Silted Vegetation Areas

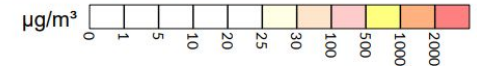
Air Quality Map: Zelt - 24 hour PM2.5 98% 200 year flood (A9.2)

Exhibit 269,
pg 47

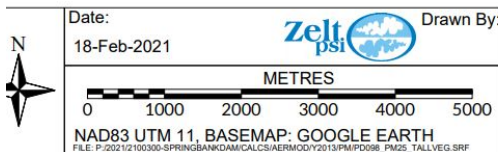


LEGEND

- PROJECT AREA
- CALGARY CITY LIMITS (2018)
- FIRST NATIONS
- FLOODED AREA
- DEEP SEDIMENT (>10cm)



EMISSION: PM_{2.5}
 TIME AVERAGE: 1h Average (99.9th percentile)
 MAXIMUM CONCENTRATION: 1190.2 µg/m³
 OBJECTIVE: 30 µg/m³
 BACKGROUND: 0 µg/m³
 MODEL: AERMOD (18081)

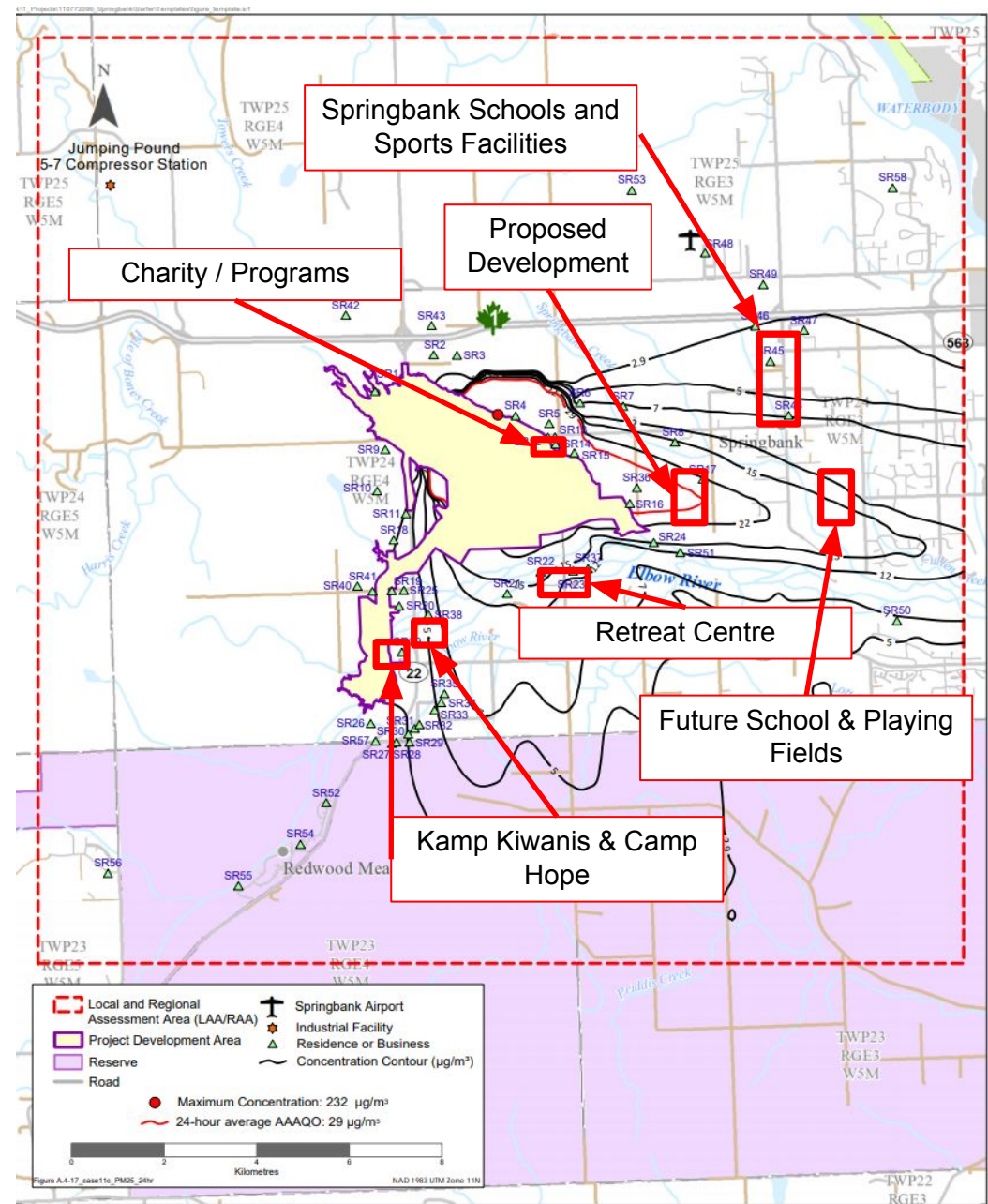


Re-Examination of Post Flood
 Dry Reservoir Sediment Particulate Emissions
 SPRINGBANK OFF-STREAM
 RESERVOIR PROJECT

FIGURE A9.2:
 200yr (2013) flood
 98th% 24h Average
 Predicted PM2.5 Concentrations
 Including Flooded Area With Silted Vegetation Areas

Air Quality Map: AT PM2.5 Max 24 hour 1:200 Flood (A4-13)

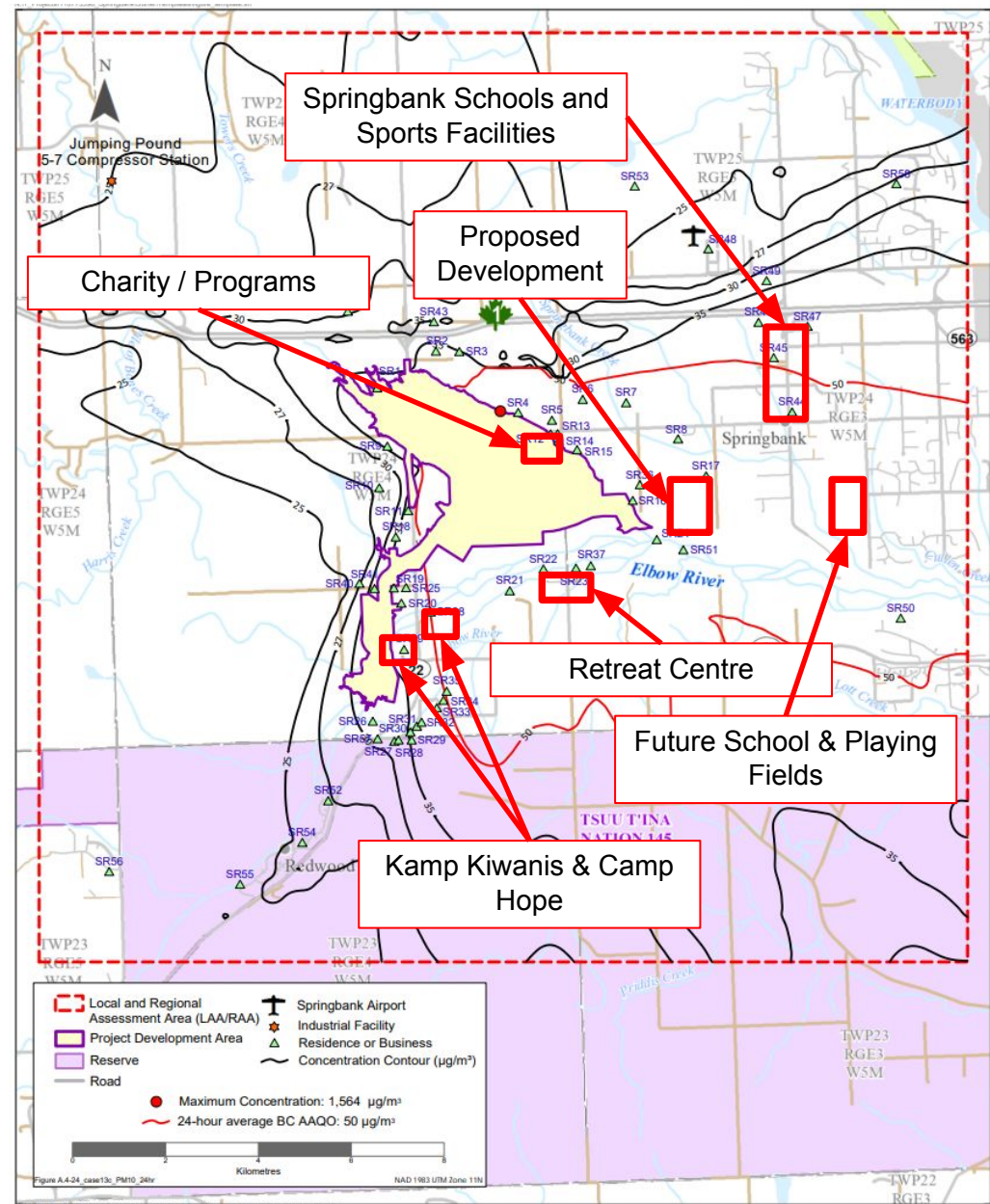
Application Case Exhibit 326, pg 171



Maximum Predicted 24-hour average PM_{2.5} Concentration (Case 4, Late Release, 1:200 Year Flood - Project Case)

Air Quality Map: AT PM10 Max 24-hour 1:200 Flood (A4-18)

Application Case Exhibit 327, pg 176

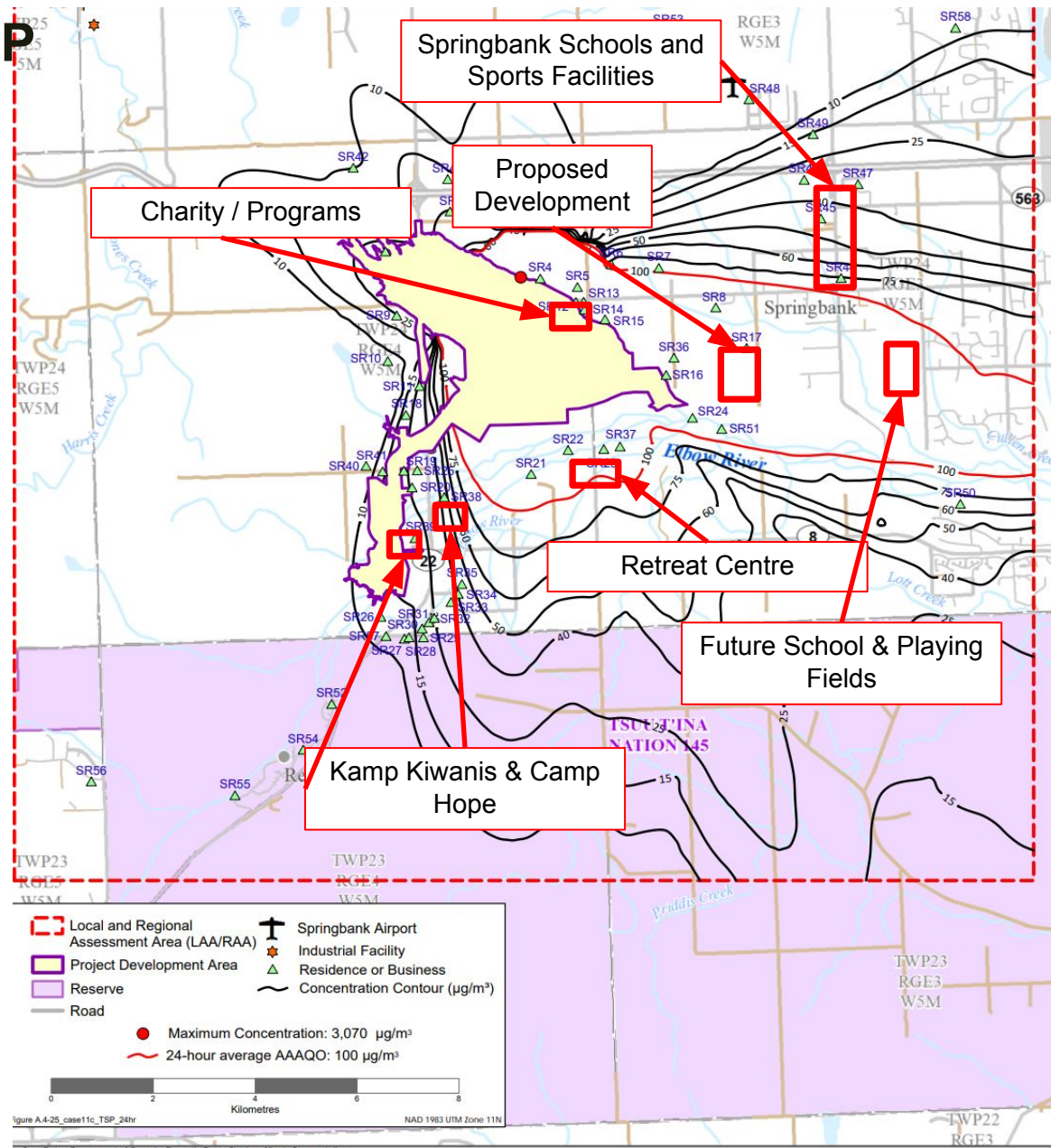


Maximum Predicted 24-hour average PM₁₀ Concentration (Case 4, Late Release, 1:200 Year Flood - Application Case)

Air Quality Map: AT TSP

Max 24-hour 1:200 Flood (A4-19)

Project Case
Exhibit 327, pg 177



Maximum Predicted 24-hour average TSP Concentration
(Case 4, Late Release, 1:200 Year Flood - Project Case)