



AGNICO EAGLE

Amaruq exploration project

Fuel farm spill 1500 L

August 2015

Situation report on

April, 2017

Prepared by:

Agnico-Eagle Mines Limited, Exploration Division

Introduction

In August 2015, a fuel spill of 1500 litres occurred at the Amaruq camp fuel farm. This report describes the actions taken to clean up the spill and reclaim the area.

Cleaning actions

Phase 1: 2015

The spill occurred by August 6th, 2015 and immediate actions to limit the impact were undertaken.

- The spill was stopped as soon as seen by closing the valve.
- Absorbent material was installed to remove the free fuel.
- A trench was dug and absorbent material was installed to intercept the fuel.
- Samples were taken to verify the extent of the contamination.
- The contaminated soil was removed and stored in a temporary berm built for the purpose.

Phase 2: 2016

Most of the fuel farm tanks were moved to the new storage area in order to remove the contaminated soil located under the tanks.

- Contaminated soil was removed progressively using sampling results to locate remaining contamination.
- Absorbent material continued to be used.
- Berm extension was built to store additional contaminated soil.
- Sampling continued to be done in the excavation to detect contamination.
- Decontamination continued until winter weather stopped works.

Sampling data

The sampling data are compared with the GN Agricultural/Wildland remediation criteria.

Table 1: Remediation criteria

| Parameter | Criteria (mg/kg) | |
|----------------|-----------------------------------|-------------------|
| | <i>Agricultural/ Wildland</i> | <i>Industrial</i> |
| Benzene | 0.03 | 0.03 |
| Toluene | 0.37 | 0.37 |
| Ethylbenzene | 0.082 | 0.082 |
| Xylene | 11 | 11 |
| PHC Fraction 1 | 30 | 320 |
| PHC Fraction 2 | 150 | 260 |
| PHC Fraction 3 | 300 | 1700 |
| PHC Fraction 4 | 2800 | 3300 |

Table 2: 2015, September 3rd sampling results

| | Sample 1 | Sample 2 | Sample 3 | Sample 4 | Sample 5 | Sample 6 | Sample 7 | Sample 8 | Sample 9 | Sample 10 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Parameter | 10/3/2015 | 10/3/2015 | 10/3/2015 | 10/3/2015 | 10/3/2015 | 10/3/2015 | 10/3/2015 | 10/3/2015 | 10/3/2015 | 10/3/2015 |
| PHC Fraction 1 | 0.6 | 0.4 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| PHC Fraction 2 | 190 | 610 | <10 | <10 | 160 | <10 | <10 | 1900 | 390 | 130 |
| PHC Fraction 3 | <50 | <50 | <50 | <50 | 76 | <50 | <50 | <50 | <50 | <50 |
| PHC Fraction 4 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |

Table 3: 2016, August and September sampling results

| | | Humidity | C10-C50 | Benzene | Toluene | Ethylbenzene | Xylènes totals | PHC F1 | PHC F2 | PHC F3 | PHC F4 |
|--------|-----------|----------|---------|---------|---------|--------------|----------------|--------|--------|--------|--------|
| Sample | Date | % | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| S-1 | 9/7/2016 | 12.2 | <30 | <0.03 | <0.06 | <0.06 | <0.06 | <0.06 | 69 | <50 | <50 |
| S-2 | 9/7/2016 | 11.6 | <30 | <0.03 | <0.06 | <0.06 | <0.06 | <0.06 | 18 | <50 | <50 |
| S-3 | 9/7/2016 | 15.5 | 427 | <0.03 | <0.06 | <0.06 | 0.1 | 0.1 | 600 | 120 | <50 |
| S-4 | 9/7/2016 | 14.7 | 62 | <0.03 | <0.06 | <0.06 | <0.06 | <0.06 | 110 | 56 | <50 |
| S-5 | 9/7/2016 | 18.1 | 339 | <0.03 | <0.06 | <0.06 | 0.2 | 0.2 | 650 | 84 | <50 |
| S-6 | 9/7/2016 | 14.6 | 701 | <0.03 | <0.06 | <0.06 | 0.5 | 0.5 | 730 | 100 | <50 |
| S-11 | 8/27/2016 | 12.2 | <30 | <0.03 | <0.06 | <0.06 | <0.06 | <0.3 | 11 | <50 | <50 |
| S-12 | 8/27/2016 | 14.2 | <30 | <0.03 | <0.06 | <0.06 | <0.06 | <0.3 | 99 | <50 | <50 |

Pictures



Figure 1: Backhoe excavating contaminated soil



Figure 2: Temporary contaminated soil storage



Figure 3: Remaining contamination area

Conclusion

Around 250 m³ of soil were excavated and stored in 2016 from the spill area for a total of 300 m³. The temporary contaminated soil storage berm was extended to store additional contaminated soil. Progress was made in 2016, but the results showed a residual contamination. Rehabilitation is planned to be finalized in 2017 and additional sampling will be done to confirm closure of this file.