Government of Yukon
Energy Mines and Recourses
ASSESSMENT AND ABANDONED MINES

ISSUED FOR USE

FORMER METAFINA CHEMICALS SITE ASSESSMENT

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EBA Engineering Consultants Ltd.
p. 867.668.3068 • f. 867.668.4349
Calcite Business Centre • Unit 6, 151 Industrial Road • Whitehorse, Yukon Y1A 2V3 • CANADA

EXECUTIVE SUMMARY

EBA Engineering Consultants Ltd. (EBA) was contracted by Yukon Government, Assessment and Abandoned Mines Branch, to conduct a site assessment of the former Metafina Chemicals site in Faro, Yukon.

The approximate boundaries of the study area were identified by the Assessment and Abandoned Mines Branch as the property boundary of Lot 221, 64718 CLSR in the Town of Faro, Yukon (see Figure 1).

An information review was completed which included information from the Metafina Review Committee, newspaper articles, photographs of the site and previous site work by EBA in 1996. This information was used to confirm potential contaminants of concern and areas of potential contamination prior to the initial site visit.

Two site visits were conducted during the summer and fall of 2008. The initial visit was used to verify site conditions, identify potential areas of contaminant concern and collect soil and groundwater samples to verify concentrations of contaminant in the identified areas of concern. The second site visit was to complete a more intensive sampling program aimed at determining if contaminants were present on any part of the site.

The analytical results show that from the 26 samples analysed only one soil sample (HA03 at 0.1 m) contains concentrations of heavy extractable petroleum hydrocarbons that marginally exceed the Contaminated Sites Regulation park land use standard. A sample collected from the same test hole 0.7 m deeper showed concentrations well below the standard.

While the concentration of heavy extractable petroleum hydrocarbons only marginally exceeds the regulatory park land use standard, and only at one sampling location, EBA recommends that this area of soil contamination could be remediated such that no contaminant issues remain. Remediation could be accomplished by loosening the surface soils, which have been compacted by vehicular traffic, and applying a nitrogen based fertilizer and possibly compost to enhance bioremediation. Soil testing should be conducted to confirm that the contamination has been successfully remediated.

No groundwater issues have been identified at the site during this round of sampling. The carbon disulphide detected in 1996 was detectable but at concentrations well below regulatory standards. This is consistent with the current literature which suggests that carbon disulphide will break down under naturally occurring conditions.

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1.0 INTRODUCTION

EBA Engineering Consultants Ltd. (EBA) was contracted by Yukon Government, (YG) Assessment and Abandoned Mines Branch, for a site assessment of the former Metafina Chemicals site in Faro, Yukon. This report provides the details and analytical results of the site assessment which was completed for the property.

1.1 BACKGROUND

Contamination at the former Metafina Chemicals site is thought to have originated from spillage and possibly ongoing leaks of chemicals from storage tanks remaining on the site after the chemical manufacturer ceased operations in about 1990 (*Final Report*, Metafina Review Committee, undated). The site contamination and residual chemicals were discovered during the dismantling of the site in February 1996. C.E.D.A. Reactor Ltd. was called in to direct the remediation efforts and disposal of residual chemicals. At that time about 27, 000 L of liquids were removed from various tanks and disposed off-site. The spill response and clean-up efforts reportedly focused on soil contaminated with sodium isopropyl xanthate and a breakdown product carbon disulphide. EBA was not able to find any report on the details of the remediation of contaminated soils, the volume of soil removed or the results of any confirmation sampling that may have been completed.

In the fall of 1996 EBA was contracted by YG to conduct groundwater contamination assessment work at the site. The objective was to determine if there had been any groundwater impacts from chemical spills or releases at the site. The EBA report *Ground Water Assessment, Faro, YT,* September 1996 indicated that six groundwater monitoring wells had been installed and five of the wells contained sufficient water to be sampled. The report indicated that xylenes were detected (below drinking water standards) in all five wells. Extractable petroleum hydrocarbons were found in three of the five wells and carbon disulphide was detected in two of the wells. At the time there were no drinking water standards identified for carbon disulphide. Comparison of the results to current *Contaminated Sites Regulation (CSR) (Environment Act)* drinking water standards indicate that one well in the center of the spill site (MW96-07) would have exceeded the current standards. Evaluation of the hydrocarbon concentrations found in the groundwater samples suggests that they would not have exceeded CSR aquatic life standards.

1.2 OBJECTIVES

The primary objective of this project was to reassess the concentrations and, to the extent possible, the vertical and lateral extent of residual contamination, which was thought to remain on the property following the site work conducted in 1996. A secondary objective was to evaluate potential remediation options depending on the contamination remaining at the site.

1.3 SCOPE OF WORK

EBA's scope of work for this project was based upon discussions prior to project initiation and information provided by YG.

The scope of work included the following:

- A search and review of relevant available information, including previous reports.
- Site reconnaissance to obtain current information on the state of existing groundwater monitoring wells, site conditions and physical property features as used in the previous work to identify the area of contamination evident at that time.
- Consultation with senior technical staff to identify potential contaminants of concern based on existing analytical results and breakdown products from the decomposition of carbon disulfide and sodium isopropyl xanthate.
- Fieldwork to obtain current data on soil and groundwater conditions in select areas as identified during the preliminary site work.
- Production of this report presenting the information obtained, the conclusions drawn and outlining any potential remediation options.

2.0 METHODS

The following discussion of work methods has been divided into subsections based on the sequence of tasks completed and the areas of potential contamination identified from the preliminary work, the collection and review of available information, and the site reconnaissance conducted as part of this project.

2.1 REVIEW OF AVAILABLE INFORMATION

The EBA file from the 1996 groundwater assessment work was reviewed. The file contained copies of the report titled *Final Report,* Metafina Review Committee and the EBA (1996) report, which are discussed in the Background section of this document. In addition to the reports the file contained correspondence, newspaper articles and photographs of the site. This information was used to confirm potential contaminants of concern and areas of potential contamination prior to the initial site visit.

The EBA file also contained information on sodium isopropyl xanthate and carbon disulfide. The *Final Report* contained a fact sheet (unnamed source) suggesting that sodium isopropyl xanthate would readily decompose yielding carbon disulphide and sodium hydroxide. Acute toxicity to salmonid fish was listed as 11000 µg/L. The chronic effects were not listed; instead the document indicated insufficient information was available. Carbon disulphide was listed as volatile and toxic. The half life for a saturated solution was listed as 11 minutes. Acute effects were listed, however, the chronic effects indicated insufficient information was available. The information contained in the fact sheets was verified through an on-line search at: http://www.inchem.org/.

2.2 SITE RECONNAISANCE

The boundaries of the study area were identified by the Assessment and Abandoned Mines Branch as the property boundary of the former Metafina Chemicals site located on Lot 221, 64718 CLSR in the Town of Faro, Yukon as shown in Figure 1. The available survey indicates the property occupies 0.464 ha., which includes a portion of the property that is occupied by the Faro Animal Shelter.

The initial site reconnaissance was conducted on June 9 and 10, 2008. At that time the site was completely fenced and the gate locked. Revegetation was occurring over the majority of the site (see Photographs 1 and 2) with two notable exceptions. One area being in the vicinity of monitoring wells MW96-03 and MW96-07, as shown in Photograph 4, which was the location of the 1996 spill remediation. The second area was directly south of monitoring well MW96-07, which was an area with sparse and apparently stressed vegetation.

All six monitoring wells that had been installed in 1996 were located and appeared to be intact. Piping that appeared to be a vent pipe was also noted near the northwest corner of the concrete pad. It was later confirmed that an underground storage tank was located in this area.

2.3 SOIL INVESTIGATION

2.3.1 June 2008

The initial soil sampling program on June 9th and 10th 2008 targeted an area with apparently stressed vegetation and the former spill remediation location. The underground storage tank area was not sampled since the expected depth of the base of the tank installation was beyond the sampling depth that could reliably be reached with the equipment available.

Soil sampling locations, shown in Figure 1, were selected by first identifying the visible boundaries of the area of concern and then establishing a sampling pattern that would contact roughly the center of this area and step out in a 5 m by 10 m grid pattern. Since contamination was expected to have originated at the surface, soil samples were collected from the near surface soils and at depth as determined by field screening.

Soil samples were screened in the field for volatile organic vapours using a Photoioization Detector (PID), which measures the ionisable components of organic vapours, and provides a semi qualitative indication of organic vapours present in the soil. Since the contaminants of concern at the site included hydrocarbons, xylenes and possibly carbon disulphide it was expected that the PID would give an indication if these substances were present in the soil. Soil vapour concentrations were measured at discrete locations by placing the tip of a soil vapour probe, attached to the PID, directly into the soil. PID readings were allowed to stabilize for approximately 60 sec. and then readings were record for the sampling location prior to sample collection. Vapour concentrations were measured in parts per million (ppm) and recorded in the field log. Vapour screening results were used

as a tool to help detect potentially contaminates soils and select samples for laboratory analysed. PID results are provided in a table on Figure 1.

Sample collection was accomplished using two techniques. Near surface samples were collected by using a clamshell post hole excavator to remove 100 mm to 200 mm of soil, using a clean trowel to remove slough from the hole and then collecting a clean sample by placing soil directly into sterile 125 mL glass jars with Teflon™ lined lids that were supplied by the analytical laboratory. Samples at depths greater than 400 mm were collected using the clamshell excavator to remove soil to within 100 mm of the desired sampling depth. An AMS soil auger with a 50 mm common auger bit was then used to remove approximately 100 mm of soil to obtain a clean sampling surface. The soil auger was then used to auger an additional 200 mm to retrieve an undisturbed soil sample from the desired depth. This soil was removed from the auger barrel into a clean plastic bag and then transferred into the sterile 125 mL glass jars supplied by the analytical laboratory.

Nitrile gloves were worn when handling soil and were changed regularly to prevent cross-contamination.

Five soil sample locations were identified where a total of nine discrete soil samples, and one bulk soil sample were collected for laboratory analysis. Sample locations are shown in Figure 2.

Discrete soil samples were packed tightly into the jars to help prevent loss of volatile organic compounds into the jar headspace and stored in a cooler with freezer packs. The bulk sample was placed into a clean plastic bag and then placed in a cooler for shipment. All collected samples were labelled and documented on a "Sample Information Sheet" and delivered to Bodycote Testing Group in Surrey BC.

Samples were selected for laboratory analysis of light and heavy extractable petroleum hydrocarbons (LEPH, HEPH), volatile petroleum hydrocarbons (VPH), Mono-Aromatic Hydrocarbons, Polycyclic Aromatic Hydrocarbons (PAHs) and volatile organic compounds (VOC) which included carbon disulphide. A bulk sample was also submitted for toxicity testing in the event that analytical results indicated significant residual contamination. Since analytical results indicated no significant contaminant concerns the toxicity testing was not completed.

Further information regarding laboratory testing methodology is provided in the Bodycote report (Appendix A).

2.3.2 October 2008

The second soil sampling program on October 6th and 7th 2008 targeted the area around the underground storage tank and the remainder of the site not previously sampled. The selection of sample locations was based on analytical results from the June sampling event that indicated all contaminants analysed were below CSR commercial land use standards and were typically below laboratory detection limits. As a result the scope of the project

was shifted, following discussions with the Assessment and Abandoned Mines Branch, to focus on determining if contaminants were present on any part of the site.

Based on the June site visit the underground storage tank was identified as a potential contaminant source and sampling targeted soils adjacent to the tank to a depth comparable to the bottom of the tank. To determine if there were any contaminant concerns on the remainder of the site a sample grid was established to provide sampling points over the entire site. A 10 m by 15 m grid was used and individual sample locations were adjusted if analytical information was already available for a particular grid point. The sampling plan was submitted to the Assessment and Abandoned Mines Branch for approval prior to initiating the field work.

A rubber tired backhoe was used to excavate test holes beside the underground storage tank and at the selected grid sampling locations. A PID was used to evaluate organic vapour concentrations in the soil, however not detectable concentrations were found. Sample collection was completed by using a clean trowel to remove slough and provide a clean sampling surface in the excavation. Samples were then collected by placing soil directly into sterile 125 mL glass jars with Teflon™ lined lids that were supplied by the analytical laboratory.

Samples were typically collected from depths of 0.1 m, 0.5 m, and 1 m below ground surface. Nitrile gloves were worn when handling soil and were changed regularly to prevent cross-contamination.

Testpitting adjacent to the underground storage tank did not detect evidence of potential contamination. Anecdotal evidence provided at the time of testpitting indicated that the tank had been previously pumped out and cleaned (pers. comm. Mark Vainio, Faro). One sample was collected from the base of the tank at approximately 2 m depth and submitted for laboratory analysis.

A total of 11 testpit locations were selected based on the sampling grid pattern used at the site. The soil sampling program collected 35 discrete soil samples of which analysis was requested for 17 samples. The remaining samples were held pending the review of analytical results. Sample locations are shown on Figure 2.

Discrete soil samples were packed tightly into the jars to help prevent loss of volatile organic compounds into the jar headspace and stored in a cooler with freezer packs. All collected samples were labelled and documented on a "Sample Information Sheet" and delivered to Bodycote Testing Group in Surrey BC.

Samples were selected for laboratory analysis of light and heavy extractable petroleum hydrocarbons (LEPH, HEPH), volatile petroleum hydrocarbons (VPH), Mono-Aromatic Hydrocarbons, Polycyclic Aromatic Hydrocarbons (PAHs) and volatile organic compounds (VOC), which included carbon disulphide.

Further information regarding laboratory testing methodology is provided in the Bodycote report (Appendix A).

2.4 GROUNDWATER INVESTIGATION

2.4.1 June 2008

All six groundwater monitoring wells (see Figure 1) were located on June 9th and the depth to groundwater was measured using a Heron H.01L Oil/Water Interface probe. Wells with detectable levels of groundwater were purged using clean bailers and left to recharge.

Only two of the six groundwater monitoring wells contained sufficient water for sampling. The four remaining wells had staining on sampling devices in the wells indicating the presence of groundwater in the well on a seasonal basis.

Groundwater samples were collected from MW96-04 and MW96-06 on June 10th. The groundwater recharge in MW96-04 was insufficient to fill all sample bottles and as a result not all laboratory analysis could be completed. Sampling was conducted using dedicated bailers for each well and transferring water from the bailer directly into the laboratory supplied sample bottles. A multimeter brought to the site did not appear to function properly. Attempts to recalibrate were not successful and as a result no field parameters were recorded for the two wells.

Groundwater samples were submitted for laboratory analysis of light and heavy extractable petroleum hydrocarbons (LEPHw, HEPHw), volatile petroleum hydrocarbons (VPHw), Mono-Aromatic Hydrocarbons, and Polycyclic Aromatic Hydrocarbons (PAHs).

Further information regarding laboratory testing methodology is provided in the Bodycote report (Appendix A).

2.4.2 October 2008

All six groundwater monitoring wells were located on October 9th and the depth to groundwater was measured using a Heron H.01L Oil/Water Interface probe. Wells with detectable levels of groundwater were purged, using individual bailers assigned to each well, and then left to recharge.

Only three of the six groundwater monitoring wells contained sufficient water for sampling. Groundwater samples were collected from MW96-02, MW96-03, and MW96-04 on October 8th. Groundwater monitoring well MW96-06 did not contain sufficient water to sample. The remaining wells were dry.

Field measurements of pH, conductivity, and temperature were recorded for the three wells sampled.

Groundwater samples were submitted for laboratory analysis of light and heavy extractable petroleum hydrocarbons (LEPHw, HEPHw), volatile petroleum hydrocarbons (VPHw), Mono-Aromatic Hydrocarbons, and Polycyclic Aromatic Hydrocarbons (PAHs) and volatile organic compounds.

Further information regarding laboratory testing methodology is provided in the Bodycote report (Appendix A).

2.5 LABORATORY ANALYTICAL PROGRAM

Laboratory analysis was based on the range of contaminants found during previous site assessment work and the known or suspected contaminants associated with the site.

The selected soil analyses included:

- light and heavy extractable petroleum hydrocarbons (LEPH, HEPH),
- volatile petroleum hydrocarbons (VPH),
- Mono-Aromatic Hydrocarbons,
- Polycyclic Aromatic Hydrocarbons (PAHs),
- volatile organic compounds (VOC), and
- a bulk sample was also submitted for toxicity testing and later cancelled.

The selected water analyses included:

- light and heavy extractable petroleum hydrocarbons (LEPH, HEPH),
- volatile petroleum hydrocarbons (VPH),
- Mono-Aromatic Hydrocarbons,
- Polycyclic Aromatic Hydrocarbons (PAHs), and
- volatile organic compounds (VOC),

Bodycote Testing Group was selected to conduct the laboratory analyses. Analytical methodologies and a Quality Control Report are provided with each Analytical Report. Laboratories accreditations are available on the company's web site at: http://www.bodycotetesting.com

During the initial site visit and sampling program all samples collected for chemical analysis were analysed. Given that the analytical results for all soil samples showed the majority of parameters to be near to or below the laboratory lower detection limit the toxicity testing was not completed. During the second site visit in October 2008, soil sample selection for laboratory analysis was based on sample location and depth. Approximately half the soil samples were analysed and the remaining samples were held by the laboratory pending results from the selected samples. If these analyses had indicated contaminant concerns, then adjacent samples would have been analysed. Since all results were at or near the laboratory lower detection limit for all parameters including those for the groundwater samples, no additional analysis was requested.

2.6 APPLICATION OF CONTAMINATED SITES REGULATION

The *Contaminated Sites Regulation (CSR)* (*Environment Act*) provides standards for the assessment and remediation of contaminated sites in Yukon. Schedule 1 and 2 of the CSR provide generic and matrix numerical standards for soils that are based on site-specific land and water uses. Schedule 3 provides generic numerical standards for water based on specific water uses.

It was EBA's understanding, at the time of report writing, that future use of the site may include recreational land use. Therefore, park land use standards were selected as the most applicable land use at the site.

For comparison of groundwater results the most restrictive of either drinking water standards or aquatic life standards were applied.

3.0 RESULTS AND DISCUSSION

3.1 REVIEW OF AVAILABLE INFORMATION

File information reviewed by EBA indicated that the two chemicals of concern at the site were sodium isopropyl xanthate and the carbon disulphide. These contaminants had been identified in the initial review of the file for purposes of developing the project proposal. However, these chemicals present acute contaminant concerns and were not expected to persist at the site. What was evident from review of the report titled *Metafina Review Committee Final Report* was that there was conflicting or inconsistent information regarding the source and discovery of contamination on the site. The documents did contain information that suggested there had been historical spills on the site. There was no information found that would confirm the quantities spilled or confirm that restoration was successfully completed. There were also inconsistencies regarding the spill on February 18, 1996. Some documents indicated that a spill was discovered; others indicated that the spill was the result of workers cutting into a pipe connected to one of the tanks.

Based on the review of available information, EBA designed the soil sampling program to target areas of known or suspected contamination as well as providing coverage of the property in general.

3.2 SITE RECONNAISSANCE

At the time of the initial site reconnaissance on June 9, 2008 the site was completely fenced and locked. There was little evidence of activity on the site and revegetation was occurring over the majority of the site as shown in Photographs 1 and 2. The area where restoration activities had occurred in 1996 was still easily identified as evident in Photograph 4.

A second area which showed apparently stressed vegetation was also an area that had been subject to heavy traffic. The soil was compacted and there was little evidence of organic material in the soil at this location. The lack of vegetation consistent with the remainder of

the site caused this area to be identified as a potentially contaminated area and soil samples were collected.

All six monitoring wells that had been installed in 1996 were located and appeared to be in good condition. There was no evidence of tampering and all well caps were in place.

Piping that appeared to be a vent pipe was noted near the northwest corner of the concrete pad. It was later confirmed that an underground storage tank was located in this area. This area was selected for soil sampling based on the evidence of an underground storage tank. At the time of the initial site visit and later during the testpitting program there was no evidence found of spillage or leakage from this tank.

3.3 SOIL RESULTS

Soil sample results have been summarized in Tables 1 and 2. The laboratory analytical reports are provided in Appendix A. Since many parameters were below detection limits for all samples collected only those of significance are presented in the tables. The complete list of analysis and results is provided in the laboratory analytical report.

The analytical results show that one soil sample (HA03 at 0.1 m) contains concentrations of heavy extractable petroleum hydrocarbons of 1100 mg/kg, which marginally exceeds the park land use standard of 1000 mg/kg. This was a near surface sample collected at 0.1 m below ground surface. The sample collected at 0.8 m contains 39 mg/kg which is well below the selected standard.

While the concentration reported is only marginally over the standard it would be prudent to remediate this soil so that no contaminant concerns remain at the site. Furthermore, the nature of the contaminant is such that bioremediation should provide an effective means of reducing concentrations. The suggested approach would be to scarify the ground surface to approximately 300 mm, as it was compacted at the time of sampling, and apply a nitrogen based fertilizer. Compost may also be added to improve the organic content of the soil and enhance bio-remediation. Soil testing should be conducted, at least three months following treatment, to confirm that the contamination has been successfully remediated.

During sampling it was noted that soil in this area appears to have been compacted, presumably by vehicular traffic. Loosening the soil will improve aeration and infiltration of moisture, which are both needed for bioremediation. The soil could be loosened by scarification using mechanical means such as a toothed bucket on a backhoe or a small loader. The site could be further enhanced with the application of compost if this is readily available.

The analytical results show that for the parameters tested all remaining soil samples contain concentrations of contaminants that are below regulatory standards.

3.4 GROUNDWATER AND SURFACE RESULTS

Water sampling results have been summarized in Table 3. The laboratory analytical reports are provided in Appendix A. Since many parameters were below detection limits for all samples collected only those of significance are presented in the tables. The complete list of analysis and results is provided in the laboratory analytical report.

The analytical results show that for the parameters tested all water samples contain concentrations of contaminants that are below regulatory standards.

4.0 CONCLUSIONS AND RECOMMENDATION

The following conclusions and recommendation are based on the results of this site assessment and the information that was available at the time of writing.

EBA concludes that soil contamination in excess of Contaminated Sites Regulation park land standards was found in one sample (HA03 at 0.1 m). EBA suggests that it would be prudent to remediate this area. EBA recommends that a nitrogen based fertilizer be applied and the surface soils loosed to improve aeration and the infiltration of moisture. The application of compose would also be beneficial in providing organic material to the soil. Soil testing should be conducted, after at least three months, to confirm that the contamination had been successfully remediated.

The groundwater analytical results indicate that all parameters tested are below applicable regulatory standards. No other groundwater issues have been identified at the site during this round of sampling.

The highest concentration of carbon disulphide detected in groundwater 1996 was in monitoring well MW96-07. This well was dry on both sampling occasions but the adjacent well, MW96-03 approximately 4 m to the northeast, was sampled in October 2008 and had no detectable concentration of carbon disulphide. Monitoring well MW96-03 was located in the center of the area where spill remediation activities had taken place and, therefore, was expected to provide a reliable indication of residual contaminants.

Since there were no indications of carbon disulphide or other contaminant concentrations in excess of regulatory standards, other than the one sample previously discussed, EBA has no recommendations for further site assessment.

5.0 LIMITATIONS OF REPORT

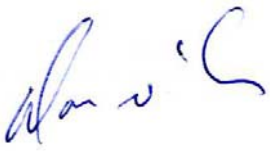
This report and its contents are intended for the sole use of Yukon Government, Assessment and Abandoned Mines Branch and their agents. EBA does not accept any responsibility for the accuracy of any of the data, the analysis or the recommendations contained or referenced in the report when the report is used or relied upon by any Party other than Yukon Government, or for any Project other than the proposed remediation at the subject site. Any such unauthorized use of this report is at the sole risk of the user. Use of this report is subject to the terms and conditions stated in EBA's Geo-Environmental Report - General Conditions included in this report.

6.0 CLOSURE

EBA trusts this report meets your requirements at this time. If you have questions or require additional information please contact the undersigned.

Respectfully Submitted,
EBA Engineering Consultants Ltd.

Prepared by:



Don Wilson, B.Sc.
Team Leader, Contaminants
Whitehorse Environment Group
Direct line: 867.668.2071 x 223
E-mail: dwilson@eba.ca

Reviewed by:

Bengt Pettersson B.Sc. M.A.
Project Director
Whitehorse Environment Group
Direct Line 867.668.2071 x 235
E-mail: bpettersson@eba.ca

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EBA Engineering Consultants Ltd., *Ground Water Assessment, Faro, YT,* Contract report prepared for Government of Yukon, September 1996.

International Programme on Chemical Safety, on-line search at http://www.inchem.org/

Metafina Review Committee, *Final Report,* undated

GEO-ENVIRONMENTAL REPORT – GENERAL CONDITIONS

This report incorporates and is subject to these "General Conditions".

1.0 USE OF REPORT AND OWNERSHIP

This report pertains to a specific site, a specific development, and a specific scope of work. It is not applicable to any other sites, nor should it be relied upon for types of development other than those to which it refers. Any variation from the site or proposed development would necessitate a supplementary investigation and assessment.

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Both electronic file and hard copy versions of EBA's instruments of professional service shall not, under any circumstances, no matter who owns or uses them, be altered by any party except EBA. The Client warrants that EBA's instruments of professional service will be used only and exactly as submitted by EBA.

Electronic files submitted by EBA have been prepared and submitted using specific software and hardware systems. EBA makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.

3.0 NOTIFICATION OF AUTHORITIES

In certain instances, the discovery of hazardous substances or conditions and materials may require that regulatory agencies and other persons be informed and the client agrees that notification to such bodies or persons as required may be done by EBA in its reasonably exercised discretion.

TABLES

TABLE 1: SUMMARY OF SOIL ANALYSIS FOR SAMPLES COLLECTED JUNE 2008

Parameter	Sample Number									CSR
	HA01-0.2	HA01-0.8	HA02-0.2	HA02-1.0	HA03-0.1	HA03-0.8	HA04-0.2	HA04-0.5	HA05-0.2	
Depth (m)	0.2	0.8	0.2	1	0.1	0.8	0.2	0.5	0.2	
PID (ppm)	96	116	70	9.6	552	13.8	0.0	2.1	10.4	na
Benzene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	10 [2]
Toluene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.5 [1]
Ethylbenzene	<0.05	<0.05	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1 [1]
Total Xylenes (m,p,o)	<0.05	0.02	0.07	0.05	0.12	0.07	<0.05	<0.05	<0.05	5 [1]
Styrene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	5
Methyl t-Butyl Ether	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	na
VPH	<50	<50	60	<50	120	<50	<50	<50	<50	200
LEPH	24	102	290	76	713	<20	25	<20	<20	1000
HEPH	489	195	303	339	1110	39	846	<20	98	1000
Naphthalene	<0.01	0.03	0.02	0.01	0.13	<0.01	0.01	<0.01	<0.01	5
Acenaphthylene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	na
Acenaphthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	na
Fluorene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	na
Phenanthrene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	5
Anthracene	<0.005	<0.005	0.007	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	na
Fluoranthene	<0.04	<0.04	<0.04	<0.04	0.04	<0.04	<0.04	<0.04	<0.04	na
Pyrene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	10
Benzo(a)anthracene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1
Chrysene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	na
Benzo(b)fluoranthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1
Benzo(k)fluoranthene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1
Benzo(a)pyrene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1 [1]
Indeno(1,2,3-c,d)pyrene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1
Dibenzo(a,h)anthracene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1
Benzo(g,h,i)perylene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	na
Carbon Disulfide	0.03		0.37		0.15					7.5
1,1,2-Trichloroethane	<0.01		0.02		<0.01					5

All values in ug/g unless otherwise stated.

CSR Contaminated Sites Regulations park land use standards

1110 Exceeds CSR park land standard

[1] Toxicity to soil invertebrates and plants

[2] Groundwater flow to surface water used by aquatic life

na - No standard available

TABLE 2: SUMMARY OF SOIL ANALYSIS FOR SAMPLES COLLECTED OCTOBER 2008

Parameter Name	Sample Number							
	TP08-1-2	TP08-2-2	TP08-3-2	TP08-4-2	TP08-5-1	TP08-5-3	TP08-6-2	CSR
Depth (m)	0.1	0.5	0.5	0.5	0.1	1	0.6	
VPH	<50	<50	<50	<50	<50	<50	<50	200
LEPH	<20	<20	<20	<20	<20	<20	<20	1000
HEPH	35	<20	<20	<20	<20	<20	<20	1000
Carbon Disulfide	<0.01	<0.01	<0.01		<0.01			7.5
	Sample Number							
	TP08-7-2	TP08-8-1	TP08-8-2	TP08-8-3	TP08-9-1	TP08-9-2	TP08-10-1	
Depth (m)	0.5	0.1	0.5	0.8	0.1	0.5	0.1	
VPH	<50	<50		<50	<50		<50	200
LEPH	66	<20		21	<20		<20	1000
HEPH	29	42		59	35		74	1000
Carbon Disulfide		<0.01			<0.01			7.5
	Sample Number							
	TP08-11-1	TP08-11-3	TP08-11-4	UST-1				
Depth (m)	0.1	0.9	0.9	1.9-2.0				
VPH	<50	<50	<50	<50				200
LEPH	<20	<20	<20	<20				1000
HEPH	<20	<20	<20	<20				1000
Carbon Disulfide	0.02							7.5

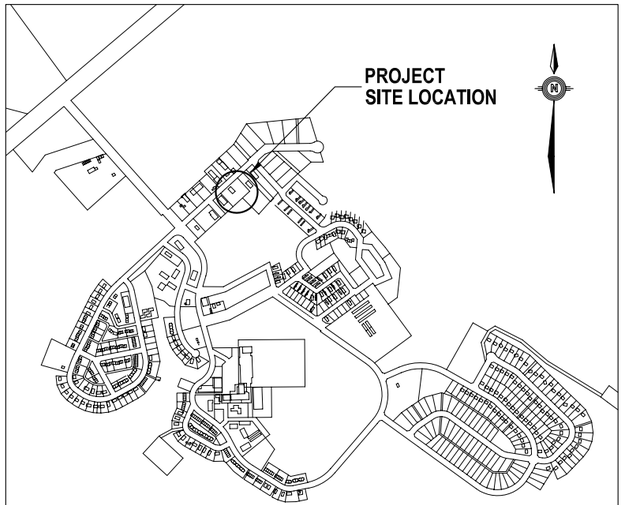
All values in ug/g unless otherwise stated.
CSR Contaminated Sites Regulations park land use standards

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Parameter	MW96-04	MW96-06	MW96-02	MW96-03	MW96-04	CSR
Sample Date	June 10, 2008		October 8, 2008			
LEPHw	<100	<100	<100	200	<100	500
HEPHw	<100	<100	<100	200	<100	na
Naphthalene	<0.1	<0.1	<0.1	<0.1	<0.1	10
Quinoline	<3.4	<3.4	<3.4	<3.4	<3.4	34
Acenaphthylene	<0.1	<0.1	<0.1	0.4	<0.1	na
Acenaphthene	<0.1	<0.1	<0.1	<0.1	<0.1	60
Fluorene	<0.1	<0.1	<0.1	<0.1	<0.1	120
Phenanthrene	<0.1	<0.1	<0.1	<0.1	<0.1	3
Anthracene	<0.01	<0.01	<0.1	<0.1	<0.1	1
Acridine	<0.1	<0.1	<0.05	<0.05	<0.05	0.5
Fluoranthene	0.03	<0.02	<0.1	<0.1	<0.1	2
Pyrene	0.03	<0.02	<0.02	<0.02	<0.02	0.2
Benzo(a)anthracene	<0.02	<0.02	<0.01	<0.01	<0.01	1
Chrysene	<0.1	<0.1	<0.1	<0.1	<0.1	1
Benzo(b)fluoranthene	<0.1	<0.1	<0.01	<0.01	<0.01	na
Benzo(k)fluoranthene	<0.1	<0.1	<0.02	<0.02	<0.02	na
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	0.1
Indeno(1,2,3-c,d)pyrene	<0.1	<0.1	<0.1	<0.1	<0.1	na
Dibenzo(a,h)anthracene	<0.1	<0.1	<0.01	<0.01	<0.01	na
Benzo(g,h,i)perylene	0.3	<0.1	<0.1	<0.1	<0.1	na
Benzene		<1	<1	<1	<1	4000
Ethylbenzene		<1	<1	<1	<1	2000
Methyl t-Butyl Ether		<1	<1	<1	<1	na
Styrene		<1	<1	<1	<1	720
Toluene		<1	<1	<1	<1	390
Total Xylenes (m,p,o)		<1	<1	<1	<1	300*
VPHw		<50	<50	<50	<50	1500
VHw6-10		<50	<50	<50	<50	15000
Carbon Disulfide				<1		21*

All values in ug/L unless otherwise stated.
CSR Contaminated Sites Regulation Aquatic Life water use
* Drinking Water Standard
na - No standard available
Some parameters are not listed if all results were below detection

FIGURES



KEY MAP
SCALE 1:20,000

SAMPLE #	DEPTH (m)	PID (ppm)	COMMENTS
HA08-1	0.2 0.8	96 116	
HA08-2	0.2 1.0	70 9.6	WOOD DEBRIS
HA08-3	0.1 0.8	552 13.8	BULK SAMPLE
HA08-4	0.2 0.5	0.0 2.1	COBBLES - REFUSAL
HA08-5	0.2	10.4	PROLIFIC ROOTS

LEGEND

- MONITORING WELL LOCATIONS (SHOWN WHITE) SEPTEMBER 1996
- HAND AUGER LOCATIONS (SHOWN WHITE) JUNE 2008

NOTES

1. IMAGE OBTAINED FROM GOOGLE EARTH (PRO VERSION)

0 25
Scale: 1: 500 (metres)

CLIENT
Yukon
Assessment and Abandoned Mines Branch

EBA Engineering Consultants Ltd.

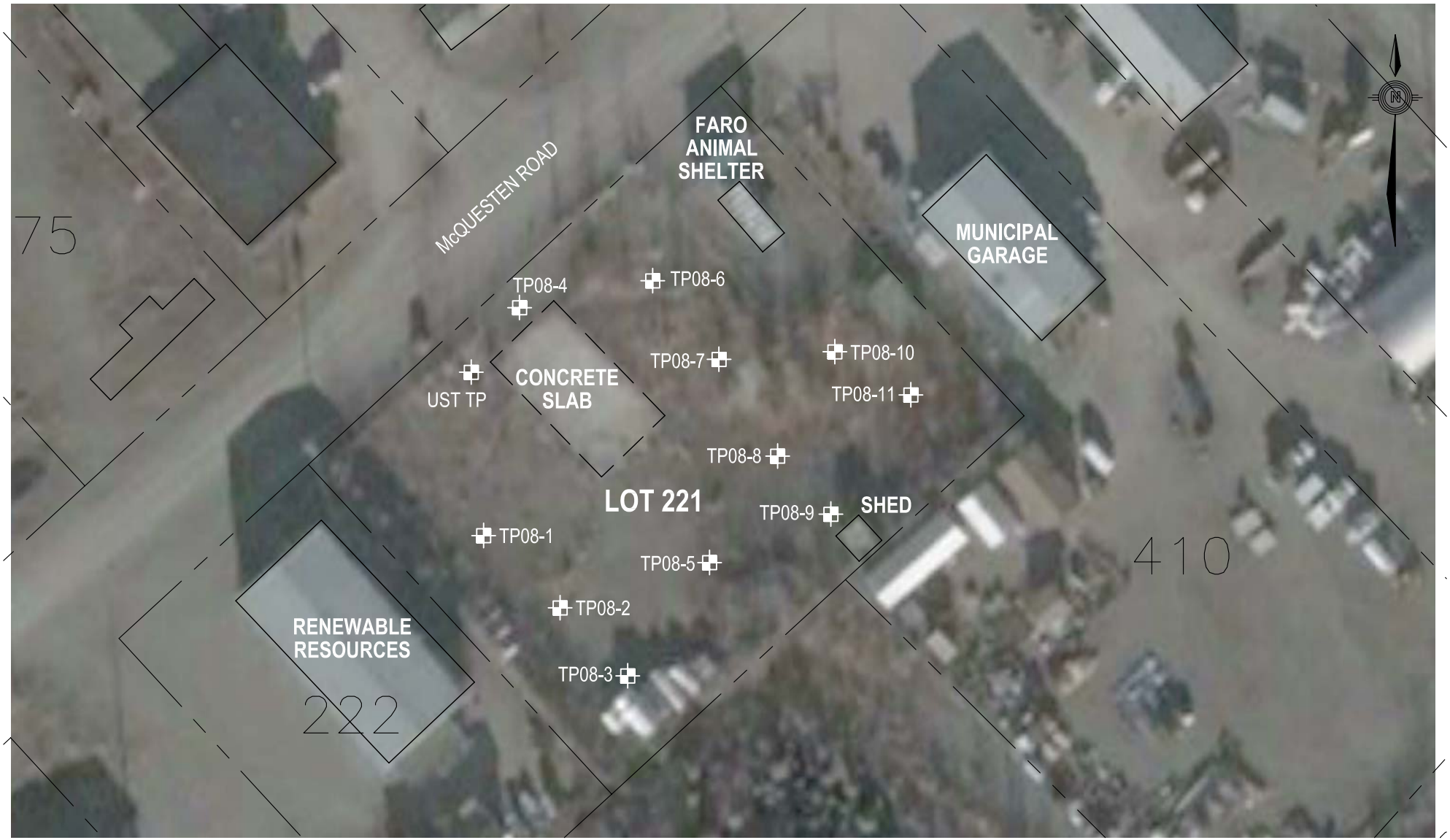
Contamination Assessment
Former Metafina Chemical Site
Faro, YT

KEY PLAN AND SITE PLAN, EXISTING MONITORING WELLS AND HAND AUGER LOCATIONS

PROJECT NO.	DWN	CKD	REV
W23101161	JSB	MG/DJW	1
OFFICE: WHSE	DATE: February 18, 2009		

Figure 1

Q:\Whitehorse\Data\0201drawings\Faro\W23101161 Metafina Chemicals\W23101161 Fig-2.dwg [FIGURE 2] February 18, 2009 - 2:23:05 pm (BY: JAMES BUYCK)



LEGEND

TESTPIT LOCATIONS (SHOWN WHITE)

0 25

Scale: 1: 750 (metres)

NOTES

1. IMAGE OBTAINED FROM GOOGLE EARTH (PRO VERSION)

CLIENT

Yukon

Assessment and Abandoned Mines Branch

EBA Engineering Consultants Ltd.

Contamination Assessment
Former Metafina Chemical Site
Faro, YT

SITE PLAN SHOWING TESTPIT LOCATIONS

PROJECT NO.	DWN	CKD	REV
W23101161	JSB	MG/DJW	1
OFFICE: WHSE	DATE: February 18, 2009		

Figure 2

PHOTOGRAPHS

Photograph 1: Site looking east across concrete foundation. Monitoring well MW96-07 visible in center right and MW96-03 in center left of photograph. June 10, 2008

Photograph 2: Site looking southeast from McQuesten Road along southern property boundary. Dismantled tanks are visible in the background. June 10, 2008

Photograph 3: Area of stressed vegetation looking north toward Monitoring Well MW96-07 with the concrete pad visible in upper left of the photograph. June 10, 2008

Photograph 4: Area of 1996 spill remediation with remnants of a tarp used to cover the area still visible. Monitoring well MW96-03 is shown in left foreground. June 10, 2008

APPENDIX

APPENDIX A BODYCOTE ANALYTICAL REPORT

LOT: 625610 COC

Bodycote TE

Control Number

Norwest Labs – A New Bodycote Company

tal Sample Information Sheet

of this form is required in order to proceed with analysis
rest Bodycote Norwest location and proper sampling protocol

Billing Address:			Copy of Report To:		Copy of Invoice: ☐
Company:	RBT Engineering	QA/QC Report ☑	Company:		Mail Invoice to this address for approval ☐
Address:	Unit 6 151 Industrial Rd Whitehorse YT Y1A 2V3	Report Results:	Address:		Report Results:
Attention:	D. Wilson	Fax ☐	Attention:		Fax ☐
Phone:	(867) 668-2071 x 223	Mail ☐	Phone:		Mail ☐
Fax:	(867) 668-4349	Courier ☐	Fax:		Courier ☐
Cell:		e-mail ☑	Cell:		e-mail ☐
e-mail:	dwilson@eba.ca	e-Service ☐	e-mail:		e-Service ☐

Information to be included on Report and Invoice

Project ID:	W23101161
Project Name:	Metafina
Project Location:	
Legal Location:	
PO#:	
Proj. Acct. Code:	
Agreement ID:	

RUSH Please contact the laboratory to confirm rush dates and times before submitting samples.

Upon filling out this section, client accepts that surcharges will be attached to this analysis

RUSH required on: All analysis ☐ or As indicated ☐

Date Required: _____

Signature: _____

Bodycote Authorization: _____

Sample Custody (Please Print)
Sampled by: D. Wilson
Company RBT Signature [signature]

I authorize Bodycote Norwest to proceed with the work indicated on this form:
Date: June 3/08 Initial: DJW

Received by: [signature] Sample Temp. °C
Waybill # Air North 287/2146305 Date JUN 16 AM 10:29
Company Time

Special Instructions / Comments

Discuss analytical with Chris Swyngedouw or Darlene Lintott } Issue is soil toxicity and carbon disulfide in sample 3-0.1

Please indicate which regulations you are required to meet: Yukon CSR

FOR LAB USE ONLY
Condition of containers / coolers upon arrival at lab

☐ Check here if Bodycote Norwest is required to report results directly to a regulatory body (Please include contact information)

☐ Check here if you're testing POTABLE WATER for HUMAN CONSUMPTION.

	Sample Identification	Location	Depth IN CM M	Date / Time Sampled	Matrix	Sampling Method	Number of Containers ↓	CTEH10	VOC	CT2141ow	Carbon Disulfide	Bulk-Tox
								Enter tests above (✓ relevant samples below)				
1	W23101161 #1-0.2		-	June 1/08	Soil	Grab	2	✓	✓		✓	
2	#1-0.8		-				2	✓				
3	#2-0.2		-				2	✓	✓		✓	
4	#2-1.0		-				2	✓				
5	#3-0.1		-				2	✓	✓		✓	
6	#3-0.8		-				2	✓				
7	#3-Bulk-large soil						1					✓
8	#4-0.2		-					✓				
9	#4-0.5		-					✓				
10	#5-0.2		-					✓				
11	MW04		-		Water	Bailer	2			✓		
12	MW06		-				3			✓		
13			-									
14			-									
15			-									

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Page 1 of 1

2 Coolers

Report Transmission Cover Page

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID:	**625610**
Approval Status:	Approved
Invoice Frequency:	by Lot
COD Status:	
Control Number:	
Date Received:	Jun 18, 2008
Date Reported:	Jul 5, 2008
Report Number:	1128535

Contact	Company	Address
Donald Wilson	EBA Engineering Consulting Lt	Calcite Business Centre, Unit 6, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-2071 Fax: (867) 668-4349 Email: dwilson@eba.ca

	Copies	Delivery	Format
M	1	Post	
	1	Email - Single Report	PDF

_____ PAGES IN THIS TRANSMISSION

Notes To Clients:

- BTEX analysis cancelled due to insufficient sample volume.
- >130 - The surrogate recovery is higher than the rang 23-130% on sample #3,5 due to other sample material interfering with this surrogate.

Reports associated with this Lot

Id/Format/Report Date	Id/Format/Report Date	Id/Format/Report Date

Bodycote TESTING GROUP

Sample Custody

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID:	**625610**
Control Number:	
Date Received:	Jun 18, 2008
Date Reported:	Jul 5, 2008
Report Number:	1128535

Sample Disposal Date: August 04, 2008

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the bottom of this page.

☐ Extend Sample Storage Until _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for 1 to 5 samples per month	$ 10.00
Storage for 6 to 20 samples per month	$ 15.00
Storage for 21 to 50 samples per month	$ 30.00
Storage for 51 to 200 samples per month	$ 60.00
Storage for more than 200 samples per month	$ 110.00

☐ Return Sample, collect, to the address below via:

- ☐ Greyhound
- ☐ Loomis
- ☐ Purolator
- ☐ Other (specify) _____

Name _____

Company _____

Address _____

_____

Phone _____

Fax _____

Signature _____

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID:	**625610**
Control Number:	
Date Received:	Jun 18, 2008
Date Reported:	Jul 5, 2008
Report Number:	1128535

Reference Number		625610-1	625610-2	625610-3
Sample Date		Jun 10, 2008	Jun 10, 2008	Jun 10, 2008
Sample Location				
Sample Description		W23101161 #1-0.2	W23101161 #1-0.8	W23101161 #2-0.2
Matrix		Soil	Soil	Soil

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	ug/g	<0.02	<0.02	<0.02	0.02
Toluene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Ethylbenzene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Total Xylenes (m,p,o)	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Styrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Methyl t-Butyl Ether	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Volatile Petroleum Hydrocarbons - Soil						
VHs6-10	Dry Weight	ug/g	<50	<50	60	50
VPHs (VHs6-10 minus BTEX)	Dry Weight	ug/g	<50	<50	60	50
Extractable Petroleum Hydrocarbons - Soil						
LEPHs	Dry Weight	ug/g	24	102	290	20
HEPHs	Dry Weight	ug/g	489	195	303	20
Polycyclic Aromatic Hydrocarbons - Soil						
Naphthalene	Dry Weight	mg/kg	<0.01	0.03	0.02	0.01
Acenaphthylene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Acenaphthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Fluorene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Phenanthrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Anthracene	Dry Weight	mg/kg	<0.005	<0.005	0.007	0.005
Fluoranthene	Dry Weight	mg/kg	<0.04	<0.04	<0.04	0.04
Pyrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(a)anthracene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Chrysene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(b)fluoranthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(k)fluoranthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(a)pyrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Indeno(1,2,3-c,d)pyrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Dibenzo(a,h)anthracene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(g,h,i)perylene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
PAH - Soil - Surrogate Recovery						
Nitrobenzene-d5	PAH - Surrogate	%	119	121	>130	23-130
2-Fluorobiphenyl	PAH - Surrogate	%	106	96	101	30-130
p-Terphenyl-d14	PAH - Surrogate	%	123	125	115	18-137

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID:	**625610**
Control Number:	
Date Received:	Jun 18, 2008
Date Reported:	Jul 5, 2008
Report Number:	1128535

Reference Number		625610-1	625610-3	625610-5
Sample Date		Jun 10, 2008	Jun 10, 2008	Jun 10, 2008
Sample Location				
Sample Description		W23101161 #1-0.2	W23101161 #2-0.2	W23101161 #3-0.1
Matrix		Soil	Soil	Soil

Analyte		Units	Results	Results	Results	Nominal Detection Limit
VOC Screen - Soil						
Benzene	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
Bromodichloromethane	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
Bromoform	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
Bromomethane	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.10
Carbon Disulfide	Dry Weight	mg/kg	0.03	0.37	0.15	0.01
Carbon Tetrachloride	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
Chlorobenzene	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
Chloroethane	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.10
2-Chloroethyl Vinyl Ether	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
Chloroform	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
Chloromethane	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.10
Dibromochloromethane	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
1,2-Dichlorobenzene	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
1,3-Dichlorobenzene	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
1,4-Dichlorobenzene	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
1,1-Dichloroethane	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
1,2-Dichloroethane	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
1,1-Dichloroethene	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
1,2-Dichloroethene(cis)	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
1,2-Dichloroethene(trans)	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
1,2-Dichloropropane	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
1,3-Dichloropropene(cis)	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
1,3-Dichloropropene(trans)	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
Ethylbenzene	Dry Weight	mg/kg	<0.01	0.01	<0.01	0.01
Methylene Chloride	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.10
Styrene	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
1,1,2,2-Tetrachloroethane	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
Tetrachloroethene	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
Toluene	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
1,1,1-Trichloroethane	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
1,1,2-Trichloroethane	Dry Weight	mg/kg	<0.01	0.02	<0.01	0.01
Trichloroethene	Dry Weight	mg/kg	<0.01	<0.01	0.01	0.01
Trichlorofluoromethane	Dry Weight	mg/kg	<0.01	<0.01	0.08	0.01
Vinyl Chloride	Dry Weight	mg/kg	<0.1	<0.1	<0.1	0.10
Total Xylenes (m,p,o)	Dry Weight	mg/kg	0.02	0.07	0.05	0.01
VOC - Soil - Surrogate Recovery						
Dibromofluoromethane	EPA Surrogate	%	87	88	88	80-120
Toluene-d8	EPA Surrogate	%	95	102	102	81-117

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID:	**625610**
Control Number:	
Date Received:	Jun 18, 2008
Date Reported:	Jul 5, 2008
Report Number:	1128535

Reference Number		625610-1	625610-3	625610-5
Sample Date		Jun 10, 2008	Jun 10, 2008	Jun 10, 2008
Sample Location				
Sample Description		W23101161 #1-0.2	W23101161 #2-0.2	W23101161 #3-0.1
Matrix		Soil	Soil	Soil

Analyte		Units	Results	Results	Results	Nominal Detection Limit
VOC - Soil - Surrogate Recovery - Continued						
Bromofluorobenzene	EPA Surrogate	%	106	106	106	74-121

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Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID:	**625610**
Control Number:	
Date Received:	Jun 18, 2008
Date Reported:	Jul 5, 2008
Report Number:	1128535

		Reference Number	625610-4	625610-5	625610-6	
		Sample Date	Jun 10, 2008	Jun 10, 2008	Jun 10, 2008	
		Sample Location				
		Sample Description	W23101161 #2-1.0	W23101161 #3-0.1	W23101161 #3-0.8	
		Matrix	Soil	Soil	Soil	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	ug/g	<0.02	<0.02	<0.02	0.02
Toluene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Ethylbenzene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Total Xylenes (m,p,o)	Dry Weight	ug/g	<0.05	0.12	0.07	0.05
Styrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Methyl t-Butyl Ether	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Volatile Petroleum Hydrocarbons - Soil						
VHs6-10	Dry Weight	ug/g	<50	120	<50	50
VPHs (VHs6-10 minus BTEX)	Dry Weight	ug/g	<50	120	<50	50
Extractable Petroleum Hydrocarbons - Soil						
LEPHs	Dry Weight	ug/g	76	713	<20	20
HEPHs	Dry Weight	ug/g	339	1110	39	20
Polycyclic Aromatic Hydrocarbons - Soil						
Naphthalene	Dry Weight	mg/kg	0.01	0.13	<0.01	0.01
Acenaphthylene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Acenaphthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Fluorene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Phenanthrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Anthracene	Dry Weight	mg/kg	<0.005	0.007	<0.005	0.005
Fluoranthene	Dry Weight	mg/kg	<0.04	0.04	<0.04	0.04
Pyrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(a)anthracene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Chrysene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(b)fluoranthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(k)fluoranthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(a)pyrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Indeno(1,2,3-c,d)pyrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Dibenzo(a,h)anthracene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(g,h,i)perylene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
PAH - Soil - Surrogate Recovery						
Nitrobenzene-d5	PAH - Surrogate	%	89	>130	88	23-130
2-Fluorobiphenyl	PAH - Surrogate	%	94	69	94	30-130
p-Terphenyl-d14	PAH - Surrogate	%	76	49	111	18-137

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID:	**625610**
Control Number:	
Date Received:	Jun 18, 2008
Date Reported:	Jul 5, 2008
Report Number:	1128535

		Reference Number	625610-8	625610-9	625610-10	
		Sample Date	Jun 10, 2008	Jun 10, 2008	Jun 10, 2008	
		Sample Location				
		Sample Description	W23101161 #4-0.2	W23101161 #4-0.5	W23101161 #5-0.2	
		Matrix	Soil	Soil	Soil	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	ug/g	<0.02	<0.02	<0.02	0.02
Toluene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Ethylbenzene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Total Xylenes (m,p,o)	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Styrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Methyl t-Butyl Ether	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Volatile Petroleum Hydrocarbons - Soil						
VHs6-10	Dry Weight	ug/g	<50	<50	<50	50
VPHs (VHs6-10 minus BTEX)	Dry Weight	ug/g	<50	<50	<50	50
Extractable Petroleum Hydrocarbons - Soil						
LEPHs	Dry Weight	ug/g	25	<20	<20	20
HEPHs	Dry Weight	ug/g	846	<20	98	20
Polycyclic Aromatic Hydrocarbons - Soil						
Naphthalene	Dry Weight	mg/kg	0.01	<0.01	<0.01	0.01
Acenaphthylene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Acenaphthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Fluorene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Phenanthrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Anthracene	Dry Weight	mg/kg	<0.005	<0.005	<0.005	0.005
Fluoranthene	Dry Weight	mg/kg	<0.04	<0.04	<0.04	0.04
Pyrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(a)anthracene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Chrysene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(b)fluoranthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(k)fluoranthene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(a)pyrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Indeno(1,2,3-c,d)pyrene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Dibenzo(a,h)anthracene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
Benzo(g,h,i)perylene	Dry Weight	mg/kg	<0.05	<0.05	<0.05	0.05
PAH - Soil - Surrogate Recovery						
Nitrobenzene-d5	PAH - Surrogate	%	108	106	109	23-130
2-Fluorobiphenyl	PAH - Surrogate	%	100	97	99	30-130
p-Terphenyl-d14	PAH - Surrogate	%	115	116	117	18-137

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID:	**625610**
Control Number:	
Date Received:	Jun 18, 2008
Date Reported:	Jul 5, 2008
Report Number:	1128535

	Reference Number	625610-11	625610-12		
	Sample Date	Jun 10, 2008	Jun 10, 2008		
	Sample Location				
	Sample Description	W23101161 MW04	W23101161 MW06		
	Matrix	Water	Water		
Analyte	**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Extractable Petroleum Hydrocarbons - Water					
LEPHw	ug/L	<100	<100		100
HEPHw	ug/L	<100	<100		100
Polycyclic Aromatic Hydrocarbons - Water					
Naphthalene	ug/L	<0.1	<0.1		0.1
Quinoline	ug/L	<3.4	<3.4		3.4
Acenaphthylene	ug/L	<0.1	<0.1		0.1
Acenaphthene	ug/L	<0.1	<0.1		0.1
Fluorene	ug/L	<0.1	<0.1		0.1
Phenanthrene	ug/L	<0.1	<0.1		0.1
Anthracene	ug/L	<0.01	<0.01		0.01
Acridine	ug/L	<0.1	<0.1		0.1
Fluoranthene	ug/L	0.03	<0.02		0.02
Pyrene	ug/L	0.03	<0.02		0.02
Benzo(a)anthracene	ug/L	<0.02	<0.02		0.02
Chrysene	ug/L	<0.1	<0.1		0.1
Benzo(b)fluoranthene	ug/L	<0.1	<0.1		0.1
Benzo(k)fluoranthene	ug/L	<0.1	<0.1		0.1
Benzo(a)pyrene	ug/L	<0.01	<0.01		0.01
Indeno(1,2,3-c,d)pyrene	ug/L	<0.1	<0.1		0.1
Dibenzo(a,h)anthracene	ug/L	<0.1	<0.1		0.1
Benzo(g,h,i)perylene	ug/L	0.3	<0.1		0.1
PAH - Water - Surrogate Recovery					
Nitrobenzene-d5 PAH - Surrogate	%	96	94		23-130
2-Fluorobiphenyl PAH - Surrogate	%	83	84		30-130
p-Terphenyl-d14 PAH - Surrogate	%	83	102		18-137

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID:	**625610**
Control Number:	
Date Received:	Jun 18, 2008
Date Reported:	Jul 5, 2008
Report Number:	1128535

Reference Number	625610-12
Sample Date	Jun 10, 2008
Sample Location	
Sample Description	W23101161 MW06
Matrix	Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Mono-Aromatic Hydrocarbons - Water					
Benzene	ug/L	<1			1
Ethylbenzene	ug/L	<1			1
Methyl t-Butyl Ether	ug/L	<1			1
Styrene	ug/L	<1			1
Toluene	ug/L	<1			1
Total Xylenes (m,p,o)	ug/L	<1			1
Volatile Petroleum Hydrocarbons - Water					
VPHw (VHw6-10 minus BTEX)	ug/L	<50			50
VHw6-10	ug/L	<50			50

Approved by:

Laurie Brown, MSc
Client Services Manager

Bodycote TESTING GROUP

Quality Control

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID:	**625610**
Control Number:	
Date Received:	Jun 18, 2008
Date Reported:	Jul 5, 2008
Report Number:	1128535

Mono-Aromatic Hydrocarbons - Soil

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Benzene	ug/g	<0.02	0.00	-0.03	0.03	yes
Toluene	ug/g	<0.05	0.00	-0.03	0.03	yes
Ethylbenzene	ug/g	<0.05	0.00	-0.03	0.03	yes
Total Xylenes (m,p,o)	ug/g	<0.05	0.00	-0.03	0.03	yes
Styrene	ug/g	<0.05	0.00	-0.03	0.03	yes
Methyl t-Butyl Ether	ug/g	<0.05	0.00	-0.03	0.03	yes

Material Used: Method Blank - VPH
Date Acquired: June 19, 2008
Acquired By: Tejal Patel

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
Benzene	ng	54.7	50.00	109.40	85.00 - 115.00	yes
Toluene	ng	56.2	50.00	112.40	85.00 - 115.00	yes
Ethylbenzene	ng	56.4	50.00	112.80	85.00 - 115.00	yes
Total Xylenes (m,p,o)	ng	169.0	150.00	112.67	85.00 - 115.00	yes
Styrene	ng	54.2	50.00	108.40	85.00 - 115.00	yes
Methyl t-Butyl Ether	ng	55.7	50.00	111.40	85.00 - 115.00	yes

Material Used: Calibration Check - BTEX
Date Acquired: June 19, 2008
Acquired By: Tejal Patel

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Benzene	ug/g	105	98.1	22.50	0.04	yes
Toluene	ug/g	109	104	22.50	0.04	yes
Ethylbenzene	ug/g	113	108	22.50	0.04	yes
Total Xylenes (m,p,o)	ug/g	222	217	22.50	0.04	yes
Methyl t-Butyl Ether	ug/g	102	96.2	22.50	0.04	yes

Material Used: Duplicate - Run 2 - BTEX
Date Acquired: June 19, 2008
Acquired By: Tejal Patel

Matrix Spike	Units	Measured	Actual	% Recovery	Criteria (%)	Passed QC
Benzene	ug/g	105	100	105.00	85.00 - 115.00	yes
Toluene	ug/g	109	100	109.00	85.00 - 115.00	yes
Ethylbenzene	ug/g	113	100	113.00	85.00 - 115.00	yes
Total Xylenes (m,p,o)	ug/g	222	200	111.00	85.00 - 115.00	yes
Styrene	ug/g	109	100	109.00	85.00 - 115.00	yes
Methyl t-Butyl Ether	ug/g	102	100	102.00	85.00 - 115.00	yes

Material Used: Matrix Spike - BTEX
Date Acquired: June 19, 2008
Acquired By: Tejal Patel

Mono-Aromatic Hydrocarbons - Water

Bodycote TESTING GROUP

Quality Control

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID:	**625610**
Control Number:	
Date Received:	Jun 18, 2008
Date Reported:	Jul 5, 2008
Report Number:	1128535

Mono-Aromatic Hydrocarbons - Water

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Benzene	ug/L	<1	0	-2	2	yes
Ethylbenzene	ug/L	<1	0	-2	2	yes
Methyl t-Butyl Ether	ug/L	<1	0	-2	2	yes
Styrene	ug/L	<1	0	-2	2	yes
Toluene	ug/L	<1	0	-2	2	yes
Total Xylenes (m,p,o)	ug/L	<1	0	-2	2	yes

Material Used: Method Blank - VPH
Date Acquired: June 24, 2008
Acquired By: Tejal Patel

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
Benzene	ng	55.0	50	110	85 - 115	yes
Ethylbenzene	ng	56.0	50	112	85 - 115	yes
Methyl t-Butyl Ether	ng	56.0	50	112	85 - 115	yes
Styrene	ng	54.0	50	108	85 - 115	yes
Toluene	ng	56.0	50	112	85 - 115	yes
Total Xylenes (m,p,o)	ng	169.0	150	113	85 - 115	yes

Material Used: Calibration Check - BTEX
Date Acquired: June 24, 2008
Acquired By: Tejal Patel

Volatile Petroleum Hydrocarbons - Soil

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
VHs6-10	ug/g	<50	0	-2	2	yes

Material Used: Method Blank - VPH
Date Acquired: June 19, 2008
Acquired By: Tejal Patel

Volatile Petroleum Hydrocarbons - Water

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
VHw6-10	ug/L	<50	0	-15	15	yes

Material Used: Method Blank - VPH
Date Acquired: June 24, 2008
Acquired By: Tejal Patel

Extractable Petroleum Hydrocarbons - Soil

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
EPHs10-19	ug/g	<20	0	-15	15	yes
EPHs19-32	ug/g	<20	0	-15	15	yes

Bodycote TESTING GROUP

Quality Control

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID:	**625610**
Control Number:	
Date Received:	Jun 18, 2008
Date Reported:	Jul 5, 2008
Report Number:	1128535

Extractable Petroleum Hydrocarbons - Soil - Continued

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Material Used:	Method Blank - XHC					
Date Acquired:	June 19, 2008					
Acquired By:	Analyn Siapno					

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
EPHs10-19	ug/mL	123.7	140	88	78 - 122	yes
EPHs19-32	ug/mL	583.3	660	88	78 - 122	yes
Material Used:	Calibration Check - XHC					
Date Acquired:	June 19, 2008					
Acquired By:	Analyn Siapno					

Extractable Petroleum Hydrocarbons - Water

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
EPHw10-19	ug/L	<100	0	-150	150	yes
EPHw19-32	ug/L	<100	0	-150	150	yes
Material Used:	Method Blank - XHC					
Date Acquired:	June 19, 2008					
Acquired By:	Analyn Siapno					

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
EPHw10-19	ug/mL	123700.0	140000	88	78 - 122	yes
EPHw19-32	ug/mL	583300.0	660000	88	78 - 122	yes
Material Used:	Calibration Check - XHC					
Date Acquired:	June 19, 2008					
Acquired By:	Analyn Siapno					

Polycyclic Aromatic Hydrocarbons - Soil

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Naphthalene	mg/kg	<0.01	0.00	-0.01	0.01	yes
Acenaphthylene	mg/kg	<0.05	0.00	-0.05	0.05	yes
Acenaphthene	mg/kg	<0.05	0.00	-0.05	0.05	yes
Fluorene	mg/kg	<0.05	0.00	-0.05	0.05	yes
Phenanthrene	mg/kg	<0.05	0.00	-0.05	0.05	yes
Anthracene	mg/kg	<0.005	0.000	-0.005	0.005	yes
Fluoranthene	mg/kg	<0.04	0.00	-0.04	0.04	yes
Pyrene	mg/kg	<0.05	0.00	-0.05	0.05	yes
Benzo(a)anthracene	mg/kg	<0.05	0.00	-0.05	0.05	yes
Chrysene	mg/kg	<0.05	0.00	-0.05	0.05	yes
Benzo(b)fluoranthene	mg/kg	<0.05	0.00	-0.05	0.05	yes
Benzo(k)fluoranthene	mg/kg	<0.05	0.00	-0.05	0.05	yes
Benzo(a)pyrene	mg/kg	<0.05	0.00	-0.05	0.05	yes

Bodycote TESTING GROUP

Quality Control

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID:	**625610**
Control Number:	
Date Received:	Jun 18, 2008
Date Reported:	Jul 5, 2008
Report Number:	1128535

Polycyclic Aromatic Hydrocarbons - Soil - Continued

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.05	0.00	-0.05	0.05	yes
Dibenzo(a,h)anthracene	mg/kg	<0.05	0.00	-0.05	0.05	yes
Benzo(g,h,i)perylene	mg/kg	<0.05	0.00	-0.05	0.05	yes

Material Used: Method Blank - SV
Date Acquired: June 19, 2008
Acquired By: Inna Kazakov

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
Naphthalene	ug/mL	477.0	500.00	95.40	70.00 - 130.00	yes
Acenaphthylene	ng/mL	479.0	500.00	95.80	70.00 - 130.00	yes
Acenaphthene	ng/mL	474.0	500.00	94.80	70.00 - 130.00	yes
Fluorene	ng/mL	477.0	500.00	95.40	70.00 - 130.00	yes
Phenanthrene	ng/mL	483.0	500.00	96.60	70.00 - 130.00	yes
Anthracene	ng/mL	487.0	500.000	97.400	70.000 - 130.000	yes
Fluoranthene	ng/mL	476.0	500.00	95.20	70.00 - 130.00	yes
Pyrene	ng/mL	475.0	500.00	95.00	70.00 - 130.00	yes
Benzo(a)anthracene	ng/mL	480.0	500.00	96.00	70.00 - 130.00	yes
Chrysene	ng/mL	481.0	500.00	96.20	70.00 - 130.00	yes
Benzo(b)fluoranthene	ng/mL	475.0	500.00	95.00	70.00 - 130.00	yes
Benzo(k)fluoranthene	ng/mL	477.0	500.00	95.40	70.00 - 130.00	yes
Benzo(a)pyrene	ng/mL	455.0	500.00	91.00	70.00 - 130.00	yes
Indeno(1,2,3-c,d)pyrene	ng/mL	471.0	500.00	94.20	70.00 - 130.00	yes
Dibenzo(a,h)anthracene	ng/mL	502.0	500.00	100.40	70.00 - 130.00	yes
Benzo(g,h,i)perylene	ng/mL	476.0	500.00	95.20	70.00 - 130.00	yes

Material Used: Standard - PAHs
Date Acquired: June 19, 2008
Acquired By: Inna Kazakov

PAH - Soil - Surrogate Recovery

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Nitrobenzene-d5	%	109	76	-4	157	yes
2-Fluorobiphenyl	%	102	80	5	155	yes
p-Terphenyl-d14	%	128	78	-12	167	yes

Material Used: Method Blank - SV
Date Acquired: June 19, 2008
Acquired By: Inna Kazakov

Polycyclic Aromatic Hydrocarbons - Water

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Naphthalene	ug/L	<0.1	0.0	-0.1	0.1	yes

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Quality Control

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID:	**625610**
Control Number:	
Date Received:	Jun 18, 2008
Date Reported:	Jul 5, 2008
Report Number:	1128535

Polycyclic Aromatic Hydrocarbons - Water - Continued

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Quinoline	ug/L	<3.4	0.0	-0.1	0.1	yes
Acenaphthylene	ug/L	<0.1	0.0	-0.1	0.1	yes
Acenaphthene	ug/L	<0.1	0.0	-0.1	0.1	yes
Fluorene	ug/L	<0.1	0.0	-0.1	0.1	yes
Phenanthrene	ug/L	<0.1	0.0	-0.1	0.1	yes
Anthracene	ug/L	<0.01	0.00	-0.10	0.10	yes
Acridine	ug/L	<0.1	0.0	-0.1	0.1	yes
Fluoranthene	ug/L	<0.02	0.00	-0.10	0.10	yes
Pyrene	ug/L	<0.02	0.00	-0.10	0.10	yes
Benzo(a)anthracene	ug/L	<0.02	0.00	-0.05	0.05	yes
Chrysene	ug/L	<0.1	0.0	-0.1	0.1	yes
Benzo(b)fluoranthene	ug/L	<0.1	0.0	-0.1	0.1	yes
Benzo(k)fluoranthene	ug/L	<0.1	0.0	-0.1	0.1	yes
Benzo(a)pyrene	ug/L	<0.01	0.00	-0.01	0.01	yes
Indeno(1,2,3-c,d)pyrene	ug/L	<0.1	0.0	-0.1	0.1	yes
Dibenzo(a,h)anthracene	ug/L	<0.1	0.0	-0.1	0.1	yes
Benzo(g,h,i)perylene	ug/L	<0.1	0.0	-0.1	0.1	yes

Material Used: Method Blank - SV
Date Acquired: June 20, 2008
Acquired By: Inna Kazakov

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
Naphthalene	ng/mL	491.0	500.0	98.2	80.0 - 120.0	yes
Quinoline	ng/mL	549.0	685.0	80.1	80.0 - 120.0	yes
Acenaphthylene	ng/mL	490.0	500.0	98.0	80.0 - 120.0	yes
Acenaphthene	ng/mL	487.0	500.0	97.4	80.0 - 120.0	yes
Fluorene	ng/mL	489.0	500.0	97.8	80.0 - 120.0	yes
Phenanthrene	ng/mL	495.0	500.0	99.0	80.0 - 120.0	yes
Anthracene	ng/mL	498.0	500.00	99.60	79.99 - 120.01	yes
Acridine	ng/mL	514.0	500.0	102.8	80.0 - 120.0	yes
Fluoranthene	ng/mL	488.0	500.00	97.60	79.99 - 120.01	yes
Pyrene	ng/mL	486.0	500.00	97.20	79.99 - 120.01	yes
Benzo(a)anthracene	ng/mL	492.0	500.00	98.40	79.99 - 120.01	yes
Chrysene	ng/mL	495.0	500.0	99.0	80.0 - 120.0	yes
Benzo(b)fluoranthene	ng/mL	486.0	500.0	97.2	80.0 - 120.0	yes
Benzo(k)fluoranthene	ng/mL	512.0	500.0	102.4	80.0 - 120.0	yes
Benzo(a)pyrene	ng/mL	470.0	500.00	94.00	79.99 - 120.01	yes
Indeno(1,2,3-c,d)pyrene	ng/mL	512.0	500.0	102.4	80.0 - 120.0	yes
Dibenzo(a,h)anthracene	ng/mL	515.0	500.0	103.0	80.0 - 120.0	yes
Benzo(g,h,i)perylene	ng/mL	517.0	500.0	103.4	80.0 - 120.0	yes

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Quality Control

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID: **625610**
Control Number:
Date Received: Jun 18, 2008
Date Reported: Jul 5, 2008
Report Number: 1128535

Polycyclic Aromatic Hydrocarbons - Water - Continued

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
Material Used:	Standard - PAHs					
Date Acquired:	June 20, 2008					
Acquired By:	Inna Kazakov					

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Naphthalene	ug/L	0.5	0.5	45.0	0.2	yes
Acenaphthylene	ug/L	0.4	0.4	45.0	0.2	yes
Acenaphthene	ug/L	0.5	0.5	45.0	0.2	yes
Fluorene	ug/L	0.4	0.4	45.0	0.2	yes
Phenanthrene	ug/L	0.4	0.4	45.0	0.2	yes
Anthracene	ug/L	0.39	0.40	45.00	0.20	yes
Acridine	ug/L	0.4	0.4	45.0	0.2	yes
Fluoranthene	ug/L	0.42	0.43	45.00	0.20	yes
Pyrene	ug/L	0.43	0.42	45.00	0.20	yes
Benzo(a)anthracene	ug/L	0.49	0.48	45.00	0.10	yes
Chrysene	ug/L	0.4	0.4	45.0	0.2	yes
Benzo(b)fluoranthene	ug/L	0.5	0.5	45.0	0.2	yes
Benzo(k)fluoranthene	ug/L	0.4	0.4	45.0	0.2	yes
Benzo(a)pyrene	ug/L	0.44	0.43	45.00	0.02	yes
Indeno(1,2,3-c,d)pyrene	ug/L	0.6	0.5	45.0	0.2	yes
Dibenzo(a,h)anthracene	ug/L	0.5	0.5	45.0	0.2	yes
Benzo(g,h,i)perylene	ug/L	0.4	0.4	45.0	0.2	yes
Material Used:	Duplicate - Run 2 - SV					
Date Acquired:	June 20, 2008					
Acquired By:	Inna Kazakov					

Matrix Spike	Units	Measured	Actual	% Recovery	Criteria (%)	Passed QC
Naphthalene	ug/L	87.6	100	87.6	40.0 - 160.0	yes
Acenaphthylene	ug/L	86.6	100	86.6	40.0 - 160.0	yes
Acenaphthene	ug/L	90.3	100	90.3	40.0 - 160.0	yes
Fluorene	ug/L	90.7	100	90.7	40.0 - 160.0	yes
Phenanthrene	ug/L	94.8	100	94.8	40.0 - 160.0	yes
Anthracene	ug/L	92.8	100	92.80	40.00 - 160.00	yes
Acridine	ug/L	95.7	100	95.7	40.0 - 160.0	yes
Fluoranthene	ug/L	93.2	100	93.20	40.00 - 160.00	yes
Pyrene	ug/L	91.8	100	91.80	40.00 - 160.00	yes
Benzo(a)anthracene	ug/L	92.2	100	92.20	40.00 - 160.00	yes
Chrysene	ug/L	99.2	100	99.2	40.0 - 160.0	yes
Benzo(b)fluoranthene	ug/L	88.4	100	88.4	40.0 - 160.0	yes
Benzo(k)fluoranthene	ug/L	90.0	100	90.0	40.0 - 160.0	yes
Benzo(a)pyrene	ug/L	80.3	100	80.30	40.00 - 160.00	yes
Indeno(1,2,3-c,d)pyrene	ug/L	91.9	100	91.9	40.0 - 160.0	yes

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Quality Control

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID: **625610**
Control Number:
Date Received: Jun 18, 2008
Date Reported: Jul 5, 2008
Report Number: 1128535

Polycyclic Aromatic Hydrocarbons - Water - Continued

Matrix Spike	Units	Measured	Actual	% Recovery	Criteria (%)	Passed QC
Dibenzo(a,h)anthracene	ug/L	88.4	100	88.4	40.0 - 160.0	yes
Benzo(g,h,i)perylene	ug/L	100	100	100.0	40.0 - 160.0	yes

Material Used: Matrix Spike - SV
Date Acquired: June 20, 2008
Acquired By: Inna Kazakov

PAH - Water - Surrogate Recovery

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Nitrobenzene-d5	%	72	76	23	130	yes
2-Fluorobiphenyl	%	97	80	30	130	yes
p-Terphenyl-d14	%	101	78	18	137	yes

Material Used: Method Blank - SV
Date Acquired: June 20, 2008
Acquired By: Inna Kazakov

VOC Screen - Soil

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Benzene	mg/kg	<0.01	0.00	-0.02	0.02	yes
Bromodichloromethane	mg/kg	<0.01	0.00	-0.02	0.02	yes
Bromoform	mg/kg	<0.01	0.00	-0.02	0.02	yes
Bromomethane	mg/kg	<0.1	0.00	-0.15	0.15	yes
Carbon Disulfide	mg/kg	<0.01	0.00	-0.02	0.02	yes
Carbon Tetrachloride	mg/kg	<0.01	0.00	-0.02	0.02	yes
Chlorobenzene	mg/kg	<0.01	0.00	-0.02	0.02	yes
Chloroethane	mg/kg	<0.1	0.00	-0.15	0.15	yes
2-Chloroethyl Vinyl Ether	mg/kg	<0.01	0.00	-0.02	0.02	yes
Chloroform	mg/kg	<0.01	0.00	-0.02	0.02	yes
Chloromethane	mg/kg	<0.1	0.00	-0.15	0.15	yes
Dibromochloromethane	mg/kg	<0.01	0.00	-0.02	0.02	yes
1,2-Dichlorobenzene	mg/kg	<0.01	0.00	-0.02	0.02	yes
1,3-Dichlorobenzene	mg/kg	<0.01	0.00	-0.02	0.02	yes
1,4-Dichlorobenzene	mg/kg	<0.01	0.00	-0.02	0.02	yes
1,1-Dichloroethane	mg/kg	<0.01	0.00	-0.02	0.02	yes
1,2-Dichloroethane	mg/kg	<0.01	0.00	-0.02	0.02	yes
1,1-Dichloroethene	mg/kg	<0.01	0.00	-0.02	0.02	yes
1,2-Dichloroethene(cis)	mg/kg	<0.01	0.00	-0.02	0.02	yes
1,2-Dichloroethene(trans)	mg/kg	<0.01	0.00	-0.02	0.02	yes
1,2-Dichloropropane	mg/kg	<0.01	0.00	-0.02	0.02	yes
1,3-Dichloropropene(cis)	mg/kg	<0.01	0.00	-0.02	0.02	yes
1,3-Dichloropropene(trans)	mg/kg	<0.01	0.00	-0.02	0.02	yes
Ethylbenzene	mg/kg	<0.01	0.00	-0.02	0.02	yes

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Quality Control

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID: **625610**
Control Number:
Date Received: Jun 18, 2008
Date Reported: Jul 5, 2008
Report Number: 1128535

VOC Screen - Soil - Continued

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Methylene Chloride	mg/kg	<0.1	0.00	-0.15	0.15	yes
Styrene	mg/kg	<0.01	0.00	-0.02	0.02	yes
1,1,2,2-Tetrachloroethane	mg/kg	<0.01	0.00	-0.02	0.02	yes
Tetrachloroethene	mg/kg	<0.01	0.00	-0.02	0.02	yes
Toluene	mg/kg	<0.01	0.00	-0.02	0.02	yes
1,1,1-Trichloroethane	mg/kg	<0.01	0.00	-0.02	0.02	yes
1,1,2-Trichloroethane	mg/kg	<0.01	0.00	-0.02	0.02	yes
Trichloroethene	mg/kg	<0.01	0.00	-0.02	0.02	yes
Trichlorofluoromethane	mg/kg	<0.01	0.00	-0.02	0.02	yes
Vinyl Chloride	mg/kg	<0.1	0.00	-0.15	0.15	yes
Total Xylenes (m,p,o)	mg/kg	<0.01	0.00	-0.02	0.02	yes

Material Used: Method Blank - VO
Date Acquired: June 24, 2008
Acquired By: Chandra Negi

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
Benzene	ng		50.00		77.50 - 122.50	yes
Bromodichloromethane	ng		50.00		77.50 - 122.50	yes
Bromoform	ng		50.00		77.50 - 122.50	yes
Bromomethane	ng		50.00		77.50 - 122.50	yes
Carbon Disulfide	ng	53.8	52.00	103.37	77.50 - 122.50	yes
Carbon Tetrachloride	ng		50.00		77.50 - 122.50	yes
Chlorobenzene	ng		50.00		77.50 - 122.50	yes
Chloroethane	ng		50.00		77.50 - 122.50	yes
2-Chloroethyl Vinyl Ether	ng		100.00		77.50 - 122.50	yes
Chloroform	ng	50.3	50.00	100.56	77.50 - 122.50	yes
Chloromethane	ng		50.00		77.50 - 122.50	yes
Dibromochloromethane	ng		50.00		77.50 - 122.50	yes
1,2-Dichlorobenzene	ng		50.00		77.50 - 122.50	yes
1,3-Dichlorobenzene	ng		50.00		77.50 - 122.50	yes
1,4-Dichlorobenzene	ng		50.00		77.50 - 122.50	yes
1,1-Dichloroethane	ng		50.00		77.50 - 122.50	yes
1,2-Dichloroethane	ng		50.00		77.50 - 122.50	yes
1,1-Dichloroethene	ng	49.4	50.00	98.78	77.50 - 122.50	yes
1,2-Dichloroethene(cis)	ng		50.00		77.50 - 122.50	yes
1,2-Dichloroethene(trans)	ng		50.00		77.50 - 122.50	yes
1,2-Dichloropropane	ng		50.00		77.50 - 122.50	yes
1,3-Dichloropropene(cis)	ng		100.00		77.50 - 122.50	yes
1,3-Dichloropropene(trans)	ng		100.00		77.50 - 122.50	yes
Ethylbenzene	ng	53.5	50.00	106.92	77.50 - 122.50	yes
Methylene Chloride	ng		50.00		77.50 - 122.50	yes
Styrene	ng		200.00		77.50 - 122.50	yes
1,1,2,2-Tetrachloroethane	ng		50.00		77.50 - 122.50	yes

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Quality Control

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID:	**625610**
Control Number:	
Date Received:	Jun 18, 2008
Date Reported:	Jul 5, 2008
Report Number:	1128535

VOC Screen - Soil - Continued

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
Tetrachloroethene	ng		50.00		77.50 - 122.50	yes
Toluene	ng	56.9	50.00	113.85	77.50 - 122.50	yes
1,1,1-Trichloroethane	ng		50.00		77.50 - 122.50	yes
1,1,2-Trichloroethane	ng		50.00		77.50 - 122.50	yes
Trichloroethene	ng		50.00		77.50 - 122.50	yes
Trichlorofluoromethane	ng		50.00		77.50 - 122.50	yes
Vinyl Chloride	ng	54.1	50.00	108.28	77.50 - 122.50	yes
Total Xylenes (m,p,o)	ng		150.00		77.50 - 122.50	yes

Material Used: Standard - VOCs
Date Acquired: June 24, 2008
Acquired By: Chandra Negi

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Benzene	mg/kg	<0.01	<0.01	30.00	0.02	yes
Bromodichloromethane	mg/kg	<0.01	<0.01	30.00	0.02	yes
Bromoform	mg/kg	<0.01	<0.01	30.00	0.02	yes
Bromomethane	mg/kg	<0.1	<0.1	30.00	0.20	yes
Carbon Disulfide	mg/kg	0.03	0.03	30.00	0.02	yes
Carbon Tetrachloride	mg/kg	<0.01	<0.01	30.00	0.02	yes
Chlorobenzene	mg/kg	<0.01	<0.01	30.00	0.02	yes
Chloroethane	mg/kg	<0.1	<0.1	30.00	0.20	yes
2-Chloroethyl Vinyl Ether	mg/kg	<0.01	<0.01	30.00	0.02	yes
Chloroform	mg/kg	<0.01	<0.01	30.00	0.02	yes
Chloromethane	mg/kg	<0.1	<0.1	30.00	0.20	yes
Dibromochloromethane	mg/kg	<0.01	<0.01	30.00	0.02	yes
1,2-Dichlorobenzene	mg/kg	<0.01	<0.01	30.00	0.02	yes
1,3-Dichlorobenzene	mg/kg	<0.01	<0.01	30.00	0.02	yes
1,4-Dichlorobenzene	mg/kg	<0.01	<0.01	30.00	0.02	yes
1,1-Dichloroethane	mg/kg	<0.01	<0.01	30.00	0.02	yes
1,2-Dichloroethane	mg/kg	<0.01	<0.01	30.00	0.02	yes
1,1-Dichloroethene	mg/kg	<0.01	<0.01	30.00	0.02	yes
1,2-Dichloroethene(cis)	mg/kg	<0.01	<0.01	30.00	0.02	yes
1,2-Dichloroethene(trans)	mg/kg	<0.01	<0.01	30.00	0.02	yes
1,2-Dichloropropane	mg/kg	<0.01	<0.01	30.00	0.02	yes
1,3-Dichloropropene(cis)	mg/kg	<0.01	<0.01	30.00	0.02	yes
1,3-Dichloropropene(trans)	mg/kg	<0.01	<0.01	30.00	0.02	yes
Ethylbenzene	mg/kg	<0.01	<0.01	30.00	0.02	yes
Methylene Chloride	mg/kg	<0.1	<0.1	30.00	0.20	yes
Styrene	mg/kg	<0.01	<0.01	30.00	0.02	yes
1,1,2,2-Tetrachloroethane	mg/kg	<0.01	<0.01	30.00	0.02	yes
Tetrachloroethene	mg/kg	<0.01	<0.01	30.00	0.02	yes
Toluene	mg/kg	<0.01	<0.01	30.00	0.02	yes
1,1,1-Trichloroethane	mg/kg	<0.01	<0.01	30.00	0.02	yes

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Quality Control

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID:	**625610**
Control Number:	
Date Received:	Jun 18, 2008
Date Reported:	Jul 5, 2008
Report Number:	1128535

VOC Screen - Soil - Continued

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
1,1,2-Trichloroethane	mg/kg	<0.01	<0.01	30.00	0.02	yes
Trichloroethene	mg/kg	<0.01	<0.01	30.00	0.02	yes
Trichlorofluoromethane	mg/kg	<0.01	<0.01	30.00	0.02	yes
Vinyl Chloride	mg/kg	<0.1	<0.1	30.00	0.20	yes
Total Xylenes (m,p,o)	mg/kg	0.02	0.02	30.00	0.02	yes

Material Used: Duplicate - Run 2 - VO
Date Acquired: June 24, 2008
Acquired By: Chandra Negi

VOC - Soil - Surrogate Recovery

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Dibromofluoromethane	%	86	100	85	115	yes
Toluene-d8	%	99	100	85	115	yes
Bromofluorobenzene	%	110	100	85	115	yes

Material Used: Method Blank - VO
Date Acquired: June 24, 2008
Acquired By: Chandra Negi

Bodycote TESTING GROUP

Methodology and Notes

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	Metafina
	Unit 6, 151 Industrial Road	Location:	
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	D. Wilson		
Company:	EBA		

Lot ID:	**625610**
Control Number:	
Date Received:	Jun 18, 2008
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Report Number:	1128535

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
BTEX-VPH - Soil	BCELM	*	Volatile Hydrocarbons in Solids by GC/FID, VH Solids	19-Jun-08	BTG Calgary
BTEX-VPH - Water (MS)	BCELM	*	Volatile Hydrocarbons in Water by GC/FID, VH Water	24-Jun-08	BTG Calgary
EPH - Soil	BCELM	*	Extractable Petroleum Hydrocarbons (EPH) in Solids by GC/FID, EPH Solids	19-Jun-08	BTG Calgary
EPH - Water	BCELM	*	Extractable Petroleum Hydrocarbons (EPH) in Water by GC/FID, EPH Water	19-Jun-08	BTG Calgary
PAH - Soil	US EPA	*	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry, 8270	19-Jun-08	BTG Calgary
PAH - Water	US EPA	*	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry, 8270	20-Jun-08	BTG Calgary
VOC - Soil	US EPA	*	US EPA method, 8260B/5030B	24-Jun-08	BTG Calgary

** Bodycote method(s) based on reference method*

References

BCELM	B.C. Environmental Laboratory Manual
US EPA	US Environmental Protection Agency Test Methods

Comments:

- BTEX analysis cancelled due to insufficient sample volume.
- >130 - The surrogate recovery is higher than the rang 23-130% on sample #3,5 due to other sample material interfering with this surrogate.

Bodycote TESTING GROUP

Control Number A015620

Sample Information Sheet

NOTE: Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Bodycote location and proper sampling protocol

Billing Address:

Company: EBA Engineering Consulting Ltd.
Address: Calcite Business Center
Unit 6, 151 Industrial Road
Whitehorse, YT Y1A 2V3
QA/QC Report ☐
Attention: DON WILSON
Phone:
Fax: (867) 668-2071
Cell: (867) 668-4349
e-mail: dwilson@eba.ca

Report Results: Fax ☒ Mail ☒ Courier ☐ e-mail ☒ e-Service ☐

Copy of Report To: **Copy of Invoice:** ☐

Company EBA Engineering Ltd
Address: #1-4376 Boban Dr.
Nanaimo BC V9T 6A7
Mail Invoice to this address for approval ☐
Attention: DON WILSON & MIKE GALLO
Phone: DON: (867)-668-2071 MIKE (250) 756-2256
Fax: DON: (867) 668-4349 MIKE: (250) 756-2686
Cell:
e-mail: dwilson@eba.ca & mgallo@eba.ca

Report Results: Fax ☒ Mail ☒ Courier ☐ e-mail ☒ e-Service ☐

Information to be included on Report and Invoice

Project ID: W2310116I
Project Name: Metafina
Project Location: Faro
Legal Location:
PO#:
Proj. Acct. Code:
Agreement ID:

Rush Please contact the laboratory to confirm rush dates and times before submitting samples.

Upon filling out this section, client accepts that surcharges will be attached to this analysis

RUSH required on: ☐ All analysis ☐ **or** As indicated

Date Required: _____
Signature: _____
Bodycote Authorization: _____

Sample Custody (Please Print)
Sampled by: Mike Gallo
Company EBA Signature MGallo

I authorize Bodycote to proceed with the work indicated on this form:
Date: Oct 8/08 Initial: MG

Received by: | Sample Temp. °C
Waybill # | Date
Company | Time

Special Instructions / Comments

FOR LAB USE ONLY
Condition of containers / coolers upon arrival at lab

☐ Check here if Bodycote is required to report results directly to a regulatory body (Please include contact information)

☐ Check here if you're testing POTABLE WATER for **HUMAN CONSUMPTION.**

Please indicate which regulations you are required to meet: YUKON CSR PARKLAND

	Sample Identification	Location	Depth IN CM M	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	CTEH-10	VOC2	Carbon Disulphide	VHS	HOLD	Enter tests above (✓ relevant samples below)
1	TP08-1-1		-	10/06/08	SOIL		1				X		
2	TP08-1-2		-	10/06/08			1	X		X			
3	TP08-1-3		-	10/06/08			1				X		
4	TP08-2-1		-	10/06/08			1				X		
5	TP08-2-2		-	10/06/08			1	X		X			
6	TP08-2-3		-	10/06/08			1				X		
7	TP08-3-1		-	10/06/08			1				X		
8	TP08-3-2		-	10/06/08			1	X		X			
9	TP08-3-3		-	10/06/08			1				X		
10	TP08-4-1		-	10/07/08			1				X		
11	TP08-4-2		-	10/07/08			1	X					
12	TP08-4-3		-	10/07/08			1				X		
13	TP08-4-4		-	10/07/08			1				X		
14	TP08-5-1		-	10/07/08			1	X		X			
15	TP08-5-2		-	10/07/08			1				X		

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Form No. 0006 (Rev. 04/07)

Bodycote TESTING GROUP

Control Number A015621

Sample Information Sheet

NOTE: Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Bodycote location and proper sampling protocol

Billing Address:			**Copy of Report To:**		**Copy of Invoice:** ☐
Company:	EBA Engineering Consulting Ltd.		Company: EBA ENGINEERING LTD.		Mail Invoice to this address for approval ☐
Address:	Calcite Business Center Unit 6, 151 Industrial Road Whitehorse, YT Y1A 2V3	QA/QC Report ☐	Address: #1-4376 Boban Dr. Nanaimo BC V9T 6A7		
		Report Results:			**Report Results:**
Attention:	Don Wilson	Fax ☒	Attention: DON WILSON & MIKE GALLO		Fax ☒
Phone:		Mail ☒	Phone: DON (867) 668-2071	MIKE: (250) 755-2256	Mail ☒
Fax:	(867) 668-2071	Courier ☐	Fax: DON: (867) 668-4349	MIKE: (250) 755-2686	Courier ☐
Cell:	(867) 668-4349	e-mail ☒	Cell:		e-mail ☒
e-mail:	dwilson@eba.ca	e-Service ☐	e-mail: dwilson@eba.ca and mgallo@eba.ca		e-Service ☐

Information to be included on Report and Invoice	**Rush** Please contact the laboratory to confirm rush dates and times before submitting samples.	Sample Custody (Please Print)
Project ID: W23101161	Upon filling out this section, client accepts that surcharges will be attached to this analysis	Sampled by: MIKE GALLO
Project Name: Metafina, Metafina	RUSH required on: ☐ All analysis ☐ **or** As indicated	Company EBA Signature MKGallo
Project Location: Faro	Date Required: _____	I authorize Bodycote to proceed with the work indicated on this form:
Legal Location:	Signature: _____	Date: Oct 9/08 Initial: MG
PO#:	Bodycote Authorization: _____	Received by: Sample Temp. °C
Proj. Acct. Code:		Waybill # Date
Agreement ID:		Company Time

Special Instructions / Comments

FOR LAB USE ONLY
Condition of containers / coolers upon arrival at lab

☐ Check here if Bodycote is required to report results directly to a regulatory body (Please include contact information)

☐ Check here if you're testing POTABLE WATER for **HUMAN CONSUMPTION.**

Please indicate which regulations you are required to meet: YUKON CSR PARKLAND

	Sample Identification	Location	Depth IN CM M	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	CTEH-10	VOC-3	Carbon Disulphide	HOLD	Enter tests above (✓ relevant samples below)
1	TP08-5-3		-	10/07/08	Soil		1	X				
2	TP08-6-1		-				1	X			X	
3	TP08-6-2		-				1	X				
4	TP08-6-3		-				1				X	
5	TP08-7-1		-				1	X			X	
6	TP08-7-2		-				1	X				
7	TP08-7-3		-				1				X	
8	TP08-8-1		-				1	X		X		
9	TP08-8-2		-				1		X			
10	TP08-8-3		-				1	X				
11	TP08-9-1		-				1	X		X		
12	TP08-9-2		-				1		X			
13	TP08-9-3		-				1				X	
14	TP08-10-1		-				1	X				
15	TP08-10-2		-				1				X	

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Form No. UU06 (Rev. U4/U7)

Bodycote TESTING GROUP

Control Number A015622

Sample Information Sheet

NOTE: Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Bodycote location and proper sampling protocol

Billing Address:		**Copy of Report To:**	**Copy of Invoice:** ☐
Company: EBA Engineering Consulting Ltd.	QA/QC Report ☐	Company: EBA Engineering Ltd.	Mail Invoice to this address for approval ☐
Address: Calcite Business Center, Unit 6, 151 Industrial Road, Whitehorse, YT Y1A 2V3		Address: #1-4376 Boban Dr. Nanaimo BC V9T 6A7	
	Report Results:		**Report Results:**
Attention: Don Wilson	Fax ☒	Attention: Mike Gallo	Fax ☒
Phone:	Mail ☒	Phone: (250) 756-2256	Mail ☒
Fax: (867) 668-2071	Courier ☐	Fax: (250) 756-2686	Courier ☐
Cell: (867) 668-4349	e-mail ☒	Cell:	e-mail ☒
e-mail: dwilson@eba.ca	e-Service ☐	e-mail: mgallo@eba.ca	e-Service ☐

Information to be included on Report and Invoice

Project ID: W23101161
Project Name: Metafina
Project Location: Faro
Legal Location:
PO#:
Proj. Acct. Code:
Agreement ID:

Rush Please contact the laboratory to confirm rush dates and times before submitting samples.

Upon filling out this section, client accepts that surcharges will be attached to this analysis

RUSH required on: All analysis ☐ **or** As indicated ☐

Date Required: ____

Signature: ____

Bodycote Authorization: ____

Sample Custody (Please Print) Sampled by: MIKE GALLO

Company EBA Signature M. Gallo

I authorize Bodycote to proceed with the work indicated on this form:

Date: Oct 9/08 Initial: MG

Received by:	Sample Temp. °C
Waybill #	Date
Company	Time

Special Instructions / Comments

FOR LAB USE ONLY
Condition of containers / coolers upon arrival at lab

☐ Check here if Bodycote is required to report results directly to a regulatory body (Please include contact information)

☐ Check here if you're testing POTABLE WATER for **HUMAN CONSUMPTION.**

Please indicate which regulations you are required to meet: YUKON CSR PARKLAND

	Sample Identification	Location	Depth IN CM M	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	CTEH 10	VOCs	CARBON DISULPHIDE	HOLD						
1	TP08-10-3		-	10/07/08	Soil		1				X						
2	TP08-11-1		-	10/07/08	↓		1	X	X	X							
3	TP08-11-2		-	10/07/08	↓		1				X						
4	TP08-11-3		-	10/07/08	↓		1	X									
5	TP08-11-4		-	10/07/08	↓		1	X									
6	UST 1		-	10/06/08	↓		1	X									
7			-														
8			-														
9			-														
10			-														
11			-														
12			-														
13			-														
14			-														
15			-														

Enter tests above (✔ relevant samples below)

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Form No. 0006 (Rev. 04/07)

Bodycote TESTING GROUP

Control Number A015623

Sample Information Sheet

NOTE: Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Bodycote location and proper sampling protocol

Billing Address:

Company: EBA Engineering Consulting Ltd.
Address: Calcite Business Center
Unit 6, 151 Industrial Road
Whitehorse, YT Y1A 2V3
QA/QC Report ☐

Attention: DON WILSON
Phone:
Fax: (867) 668-2071
Cell: (867) 668-4349
e-mail: ~~Mgallo~~ dwilson@eba.ca

Report Results:
Fax ☒
Mail ☒
Courier ☐
e-mail ☒
e-Service ☐

Copy of Report To: **Copy of Invoice:** ☐

Company: EBA ENGINEERING LTD
Address: #1-4376 Boban Dr.
Nanaimo BC V9T 6A7
Mail Invoice to this address for approval ☐

Attention: Mike Gallo
Phone: (250) 756 2256
Fax: (250) 756 2585
Cell:
e-mail: Mgallo@eba.ca

Report Results:
Fax ☒
Mail ☒
Courier ☐
e-mail ☒
e-Service ☐

Information to be included on Report and Invoice

Project ID: W2310116I
Project Name: Metafina
Project Location: Faro
Legal Location:
PO#:
Proj. Acct. Code:
Agreement ID:

Rush Please contact the laboratory to confirm rush dates and times before submitting samples.

Upon filling out this section, client accepts that surcharges will be attached to this analysis

RUSH required on: All analysis ☐ or As indicated ☐

Date Required: _____
Signature: _____
Bodycote Authorization: _____

Sample Custody (Please Print)
Sampled by: Mike Gallo
Company EBA Signature [signature]

I authorize Bodycote to proceed with the work indicated on this form:
Date: OCT 8/08 Initial: MG

Received by: | Sample Temp. °C
Waybill # | Date
Company | Time

Special Instructions / Comments

HOLD VOC VIALS FOR MW2 & MW4

FOR LAB USE ONLY
Condition of containers / coolers upon arrival at lab

Please indicate which regulations you are required to meet: YUKON CSR PARKLAND

☐ Check here if Bodycote is required to report results directly to a regulatory body (Please include contact information)

☐ Check here if you're testing POTABLE WATER for **HUMAN CONSUMPTION.**

	Sample Identification	Location	Depth IN CM M	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	CTEH IOW	VOCs W	CARBON DISULPHIDE	HOLD	Enter tests above (✔ relevant samples below)
1	MW2		-	10/08/08	GW		4	X				
2	MW3		-	10/08/08	GW		4	X	X	X		
3	MW4		-	10/08/08	GW		4	X				
4			-									
5			-									
6			-									
7			-									
8			-									
9			-									
10			-									
11			-									
12			-									
13			-									
14			-									
15			-									

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Page 4 of 4

FRM. 0006 (Rev. 04/07)

Report Transmission Cover Page

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Approval Status:	Approved
Invoice Frequency:	by Lot
COD Status:	
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

Contact	Company	Address
Donald Wilson	EBA Engineering Consulting Lt	Calcite Business Centre, Unit 6, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-2071 Fax: (867) 668-4349 Email: dwilson@eba.ca

	Copies	Delivery	Format
M	1	Post	
	1	Email - Single Report	PDF

_____ PAGES IN THIS TRANSMISSION

Notes To Clients:

- Please also e-mail and fax a copy of results to Mike Gallo at (250)756-2686 and mgallo@eba.ca

Reports associated with this Lot

Id/Format/Report Date	Id/Format/Report Date	Id/Format/Report Date

Bodycote TESTING GROUP

Sample Custody

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

Sample Disposal Date: November 19, 2008

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the bottom of this page.

☐ Extend Sample Storage Until _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for 1 to 5 samples per month	$ 10.00
Storage for 6 to 20 samples per month	$ 15.00
Storage for 21 to 50 samples per month	$ 30.00
Storage for 51 to 200 samples per month	$ 60.00
Storage for more than 200 samples per month	$ 110.00

☐ Return Sample, collect, to the address below via:

- ☐ Greyhound
- ☐ Loomis
- ☐ Purolator
- ☐ Other (specify) _____

Name _____

Company _____

Address _____

_____

Phone _____

Fax _____

Signature _____

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

	Reference Number	648055-2	648055-5	648055-8	
	Sample Date	Oct 06, 2008	Oct 06, 2008	Oct 06, 2008	
	Sample Location				
	Sample Description	TP08-1-2	TP08-2-2	TP08-3-2	
	Matrix	Soil	Soil	Soil	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	ug/g	<0.02	<0.02	<0.02	0.02
Toluene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Ethylbenzene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Total Xylenes (m,p,o)	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Styrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Methyl t-Butyl Ether	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Volatile Petroleum Hydrocarbons - Soil						
VHs6-10	Dry Weight	ug/g	<50	<50	<50	50
VPHs (VHs6-10 minus BTEX)	Dry Weight	ug/g	<50	<50	<50	50
Extractable Petroleum Hydrocarbons - Soil						
LEPHs	Dry Weight	ug/g	<20	<20	<20	20
HEPHs	Dry Weight	ug/g	35	<20	<20	20
Polycyclic Aromatic Hydrocarbons - Soil						
Acenaphthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Acenaphthylene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(a)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(a)pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(b)fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(g,h,i)perylene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(k)fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Chrysene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Dibenzo(a,h)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Fluorene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Indeno(1,2,3-c,d)pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Naphthalene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Phenanthrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
PAH - Soil - Surrogate Recovery						
2-Fluorobiphenyl	PAH - Surrogate	%	92	91	90	40-130
Nitrobenzene-d5	PAH - Surrogate	%	98	95	100	40-130
p-Terphenyl-d14	PAH - Surrogate	%	103	97	100	40-130
VOC Screen - Soil						
Carbon Disulfide	Dry Weight	mg/kg	<0.01	<0.01	<0.01	0.01
VOC - Soil - Surrogate Recovery						
Dibromofluoromethane	EPA Surrogate	%	99	105	101	80-120

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

		Reference Number	648055-2	648055-5	648055-8
		Sample Date	Oct 06, 2008	Oct 06, 2008	Oct 06, 2008
		Sample Location			
		Sample Description	TP08-1-2	TP08-2-2	TP08-3-2
		Matrix	Soil	Soil	Soil
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
VOC - Soil - Surrogate Recovery - Continued						
Toluene-d8	EPA Surrogate	%	96	87	89	81-117
Bromofluorobenzene	EPA Surrogate	%	97	101	98	74-121

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

	Reference Number	648055-11	648055-14	648055-16	
	Sample Date	Oct 07, 2008	Oct 07, 2008	Oct 07, 2008	
	Sample Location				
	Sample Description	TP08-4-2	TP08-5-1	TP08-5-3	
	Matrix	Soil	Soil	Soil	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	ug/g	<0.02	<0.02	<0.02	0.02
Toluene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Ethylbenzene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Total Xylenes (m,p,o)	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Styrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Methyl t-Butyl Ether	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Volatile Petroleum Hydrocarbons - Soil						
VHs6-10	Dry Weight	ug/g	<50	<50	<50	50
VPHs (VHs6-10 minus BTEX)	Dry Weight	ug/g	<50	<50	<50	50
Extractable Petroleum Hydrocarbons - Soil						
LEPHs	Dry Weight	ug/g	<20	<20	<20	20
HEPHs	Dry Weight	ug/g	<20	<20	<20	20
Polycyclic Aromatic Hydrocarbons - Soil						
Acenaphthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Acenaphthylene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(a)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(a)pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(b)fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(g,h,i)perylene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(k)fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Chrysene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Dibenzo(a,h)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Fluorene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Indeno(1,2,3-c,d)pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Naphthalene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Phenanthrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
PAH - Soil - Surrogate Recovery						
2-Fluorobiphenyl	PAH - Surrogate	%	89	97	94	40-130
Nitrobenzene-d5	PAH - Surrogate	%	96	105	98	40-130
p-Terphenyl-d14	PAH - Surrogate	%	100	107	102	40-130

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

Reference Number		648055-14	648055-23	648055-24
Sample Date		Oct 07, 2008	Oct 07, 2008	Oct 07, 2008
Sample Location				
Sample Description		TP08-5-1	TP08-8-1	TP08-8-2
Matrix		Soil	Soil	Soil

Analyte		Units	Results	Results	Results	Nominal Detection Limit
VOC Screen - Soil						
Benzene	Dry Weight	mg/kg			<0.01	0.01
Bromodichloromethane	Dry Weight	mg/kg			<0.01	0.01
Bromoform	Dry Weight	mg/kg			<0.01	0.01
Bromomethane	Dry Weight	mg/kg			<0.1	0.10
Carbon Disulfide	Dry Weight	mg/kg	<0.01	<0.01		0.01
Carbon Tetrachloride	Dry Weight	mg/kg			<0.01	0.01
Chlorobenzene	Dry Weight	mg/kg			<0.01	0.01
Chloroethane	Dry Weight	mg/kg			<0.1	0.10
2-Chloroethyl Vinyl Ether	Dry Weight	mg/kg			<0.01	0.01
Chloroform	Dry Weight	mg/kg			<0.01	0.01
Chloromethane	Dry Weight	mg/kg			<0.1	0.10
Dibromochloromethane	Dry Weight	mg/kg			<0.01	0.01
1,2-Dichlorobenzene	Dry Weight	mg/kg			<0.01	0.01
1,3-Dichlorobenzene	Dry Weight	mg/kg			<0.01	0.01
1,4-Dichlorobenzene	Dry Weight	mg/kg			<0.01	0.01
1,1-Dichloroethane	Dry Weight	mg/kg			<0.01	0.01
1,2-Dichloroethane	Dry Weight	mg/kg			<0.01	0.01
1,1-Dichloroethene	Dry Weight	mg/kg			<0.01	0.01
1,2-Dichloroethene(cis)	Dry Weight	mg/kg			<0.01	0.01
1,2-Dichloroethene(trans)	Dry Weight	mg/kg			<0.01	0.01
1,2-Dichloropropane	Dry Weight	mg/kg			<0.01	0.01
1,3-Dichloropropene(cis)	Dry Weight	mg/kg			<0.01	0.01
1,3-Dichloropropene(trans)	Dry Weight	mg/kg			<0.01	0.01
Ethylbenzene	Dry Weight	mg/kg			<0.01	0.01
Methylene Chloride	Dry Weight	mg/kg			<0.1	0.10
Styrene	Dry Weight	mg/kg			<0.01	0.01
1,1,2,2-Tetrachloroethane	Dry Weight	mg/kg			<0.01	0.01
Tetrachloroethene	Dry Weight	mg/kg			<0.01	0.01
Toluene	Dry Weight	mg/kg			<0.01	0.01
1,1,1-Trichloroethane	Dry Weight	mg/kg			<0.01	0.01
1,1,2-Trichloroethane	Dry Weight	mg/kg			<0.01	0.01
Trichloroethene	Dry Weight	mg/kg			<0.01	0.01
Trichlorofluoromethane	Dry Weight	mg/kg			<0.01	0.01
Vinyl Chloride	Dry Weight	mg/kg			<0.1	0.10
Total Xylenes (m,p,o)	Dry Weight	mg/kg			<0.01	0.01
VOC - Soil - Surrogate Recovery						
Dibromofluoromethane	EPA Surrogate	%	109	101	108	80-120
Toluene-d8	EPA Surrogate	%	88	88	87	81-117

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

	Reference Number	648055-14	648055-23	648055-24	
	Sample Date	Oct 07, 2008	Oct 07, 2008	Oct 07, 2008	
	Sample Location				
	Sample Description	TP08-5-1	TP08-8-1	TP08-8-2	
	Matrix	Soil	Soil	Soil	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
VOC - Soil - Surrogate Recovery - Continued						
Bromofluorobenzene	EPA Surrogate	%	99	98	96	74-121

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

	Reference Number	648055-18	648055-21	648055-23	
	Sample Date	Oct 07, 2008	Oct 07, 2008	Oct 07, 2008	
	Sample Location				
	Sample Description	TP08-6-2	TP08-7-2	TP08-8-1	
	Matrix	Soil	Soil	Soil	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	ug/g	<0.02	<0.02	<0.02	0.02
Toluene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Ethylbenzene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Total Xylenes (m,p,o)	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Styrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Methyl t-Butyl Ether	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Volatile Petroleum Hydrocarbons - Soil						
VHs6-10	Dry Weight	ug/g	<50	<50	<50	50
VPHs (VHs6-10 minus BTEX)	Dry Weight	ug/g	<50	<50	<50	50
Extractable Petroleum Hydrocarbons - Soil						
LEPHs	Dry Weight	ug/g	<20	66	<20	20
HEPHs	Dry Weight	ug/g	<20	29	42	20
Polycyclic Aromatic Hydrocarbons - Soil						
Acenaphthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Acenaphthylene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(a)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(a)pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(b)fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(g,h,i)perylene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(k)fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Chrysene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Dibenzo(a,h)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Fluorene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Indeno(1,2,3-c,d)pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Naphthalene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Phenanthrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
PAH - Soil - Surrogate Recovery						
2-Fluorobiphenyl	PAH - Surrogate	%	100	86	94	40-130
Nitrobenzene-d5	PAH - Surrogate	%	101	88	101	40-130
p-Terphenyl-d14	PAH - Surrogate	%	114	99	108	40-130

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

	Reference Number	648055-25	648055-26	648055-29	
	Sample Date	Oct 07, 2008	Oct 07, 2008	Oct 07, 2008	
	Sample Location				
	Sample Description	TP08-8-3	TP08-9-1	TP08-10-1	
	Matrix	Soil	Soil	Soil	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	ug/g	<0.02	<0.02	<0.02	0.02
Toluene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Ethylbenzene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Total Xylenes (m,p,o)	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Styrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Methyl t-Butyl Ether	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Volatile Petroleum Hydrocarbons - Soil						
VHs6-10	Dry Weight	ug/g	<50	<50	<50	50
VPHs (VHs6-10 minus BTEX)	Dry Weight	ug/g	<50	<50	<50	50
Extractable Petroleum Hydrocarbons - Soil						
LEPHs	Dry Weight	ug/g	21	<20	<20	20
HEPHs	Dry Weight	ug/g	59	35	74	20
Polycyclic Aromatic Hydrocarbons - Soil						
Acenaphthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Acenaphthylene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(a)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(a)pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(b)fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(g,h,i)perylene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(k)fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Chrysene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Dibenzo(a,h)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Fluorene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Indeno(1,2,3-c,d)pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Naphthalene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Phenanthrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
PAH - Soil - Surrogate Recovery						
2-Fluorobiphenyl	PAH - Surrogate	%	94	94	91	40-130
Nitrobenzene-d5	PAH - Surrogate	%	102	101	103	40-130
p-Terphenyl-d14	PAH - Surrogate	%	108	107	103	40-130

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

Reference Number		648055-26	648055-27	648055-32
Sample Date		Oct 07, 2008	Oct 07, 2008	Oct 07, 2008
Sample Location				
Sample Description		TP08-9-1	TP08-9-2	TP08-11-1
Matrix		Soil	Soil	Soil

Analyte		Units	Results	Results	Results	Nominal Detection Limit
VOC Screen - Soil						
Benzene	Dry Weight	mg/kg		<0.01	<0.01	0.01
Bromodichloromethane	Dry Weight	mg/kg		<0.01	<0.01	0.01
Bromoform	Dry Weight	mg/kg		<0.01	<0.01	0.01
Bromomethane	Dry Weight	mg/kg		<0.1	<0.1	0.10
Carbon Disulfide	Dry Weight	mg/kg	<0.01		0.02	0.01
Carbon Tetrachloride	Dry Weight	mg/kg		<0.01	<0.01	0.01
Chlorobenzene	Dry Weight	mg/kg		<0.01	<0.01	0.01
Chloroethane	Dry Weight	mg/kg		<0.1	<0.1	0.10
2-Chloroethyl Vinyl Ether	Dry Weight	mg/kg		<0.01	<0.01	0.01
Chloroform	Dry Weight	mg/kg		<0.01	<0.01	0.01
Chloromethane	Dry Weight	mg/kg		<0.1	<0.1	0.10
Dibromochloromethane	Dry Weight	mg/kg		<0.01	<0.01	0.01
1,2-Dichlorobenzene	Dry Weight	mg/kg		<0.01	<0.01	0.01
1,3-Dichlorobenzene	Dry Weight	mg/kg		<0.01	<0.01	0.01
1,4-Dichlorobenzene	Dry Weight	mg/kg		<0.01	<0.01	0.01
1,1-Dichloroethane	Dry Weight	mg/kg		<0.01	<0.01	0.01
1,2-Dichloroethane	Dry Weight	mg/kg		<0.01	<0.01	0.01
1,1-Dichloroethene	Dry Weight	mg/kg		<0.01	<0.01	0.01
1,2-Dichloroethene(cis)	Dry Weight	mg/kg		<0.01	<0.01	0.01
1,2-Dichloroethene(trans)	Dry Weight	mg/kg		<0.01	<0.01	0.01
1,2-Dichloropropane	Dry Weight	mg/kg		<0.01	<0.01	0.01
1,3-Dichloropropene(cis)	Dry Weight	mg/kg		<0.01	<0.01	0.01
1,3-Dichloropropene(trans)	Dry Weight	mg/kg		<0.01	<0.01	0.01
Ethylbenzene	Dry Weight	mg/kg		<0.01	<0.01	0.01
Methylene Chloride	Dry Weight	mg/kg		<0.1	<0.1	0.10
Styrene	Dry Weight	mg/kg		<0.01	<0.01	0.01
1,1,2,2-Tetrachloroethane	Dry Weight	mg/kg		<0.01	<0.01	0.01
Tetrachloroethene	Dry Weight	mg/kg		<0.01	<0.01	0.01
Toluene	Dry Weight	mg/kg		<0.01	<0.01	0.01
1,1,1-Trichloroethane	Dry Weight	mg/kg		<0.01	<0.01	0.01
1,1,2-Trichloroethane	Dry Weight	mg/kg		<0.01	<0.01	0.01
Trichloroethene	Dry Weight	mg/kg		<0.01	<0.01	0.01
Trichlorofluoromethane	Dry Weight	mg/kg		<0.01	<0.01	0.01
Vinyl Chloride	Dry Weight	mg/kg		<0.1	<0.1	0.10
Total Xylenes (m,p,o)	Dry Weight	mg/kg		<0.01	<0.01	0.01
VOC - Soil - Surrogate Recovery						
Dibromofluoromethane	EPA Surrogate	%	112	110	113	80-120
Toluene-d8	EPA Surrogate	%	88	88	90	81-117

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

	Reference Number	648055-26	648055-27	648055-32	
	Sample Date	Oct 07, 2008	Oct 07, 2008	Oct 07, 2008	
	Sample Location				
	Sample Description	TP08-9-1	TP08-9-2	TP08-11-1	
	Matrix	Soil	Soil	Soil	
Analyte	**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
VOC - Soil - Surrogate Recovery - Continued					
Bromofluorobenzene EPA Surrogate	%	97	102	104	74-121

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

	Reference Number	648055-32	648055-34	648055-35	
	Sample Date	Oct 07, 2008	Oct 07, 2008	Oct 07, 2008	
	Sample Location				
	Sample Description	TP08-11-1	TP08-11-3	TP08-11-4	
	Matrix	Soil	Soil	Soil	
Analyte		**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	ug/g	<0.02	<0.02	<0.02	0.02
Toluene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Ethylbenzene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Total Xylenes (m,p,o)	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Styrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Methyl t-Butyl Ether	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Volatile Petroleum Hydrocarbons - Soil						
VHs6-10	Dry Weight	ug/g	<50	<50	<50	50
VPHs (VHs6-10 minus BTEX)	Dry Weight	ug/g	<50	<50	<50	50
Extractable Petroleum Hydrocarbons - Soil						
LEPHs	Dry Weight	ug/g	<20	<20	<20	20
HEPHs	Dry Weight	ug/g	<20	<20	<20	20
Polycyclic Aromatic Hydrocarbons - Soil						
Acenaphthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Acenaphthylene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(a)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(a)pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(b)fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(g,h,i)perylene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(k)fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Chrysene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Dibenzo(a,h)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Fluorene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Indeno(1,2,3-c,d)pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Naphthalene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Phenanthrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
PAH - Soil - Surrogate Recovery						
2-Fluorobiphenyl	PAH - Surrogate	%	91	89	93	40-130
Nitrobenzene-d5	PAH - Surrogate	%	98	92	101	40-130
p-Terphenyl-d14	PAH - Surrogate	%	92	94	94	40-130

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

Reference Number	648055-36
Sample Date	Oct 06, 2008
Sample Location	
Sample Description	UST-1
Matrix	Soil

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Mono-Aromatic Hydrocarbons - Soil						
Benzene	Dry Weight	ug/g	<0.02			0.02
Toluene	Dry Weight	ug/g	<0.05			0.05
Ethylbenzene	Dry Weight	ug/g	<0.05			0.05
Total Xylenes (m,p,o)	Dry Weight	ug/g	<0.05			0.05
Styrene	Dry Weight	ug/g	<0.05			0.05
Methyl t-Butyl Ether	Dry Weight	ug/g	<0.05			0.05
Volatile Petroleum Hydrocarbons - Soil						
VHs6-10	Dry Weight	ug/g	<50			50
VPHs (VHs6-10 minus BTEX)	Dry Weight	ug/g	<50			50
Extractable Petroleum Hydrocarbons - Soil						
LEPHs	Dry Weight	ug/g	<20			20
HEPHs	Dry Weight	ug/g	<20			20
Polycyclic Aromatic Hydrocarbons - Soil						
Acenaphthene	Dry Weight	ug/g	<0.05			0.05
Acenaphthylene	Dry Weight	ug/g	<0.05			0.05
Anthracene	Dry Weight	ug/g	<0.05			0.05
Benzo(a)anthracene	Dry Weight	ug/g	<0.05			0.05
Benzo(a)pyrene	Dry Weight	ug/g	<0.05			0.05
Benzo(b)fluoranthene	Dry Weight	ug/g	<0.05			0.05
Benzo(g,h,i)perylene	Dry Weight	ug/g	<0.05			0.05
Benzo(k)fluoranthene	Dry Weight	ug/g	<0.05			0.05
Chrysene	Dry Weight	ug/g	<0.05			0.05
Dibenzo(a,h)anthracene	Dry Weight	ug/g	<0.05			0.05
Fluoranthene	Dry Weight	ug/g	<0.05			0.05
Fluorene	Dry Weight	ug/g	<0.05			0.05
Indeno(1,2,3-c,d)pyrene	Dry Weight	ug/g	<0.05			0.05
Naphthalene	Dry Weight	ug/g	<0.05			0.05
Phenanthrene	Dry Weight	ug/g	<0.05			0.05
Pyrene	Dry Weight	ug/g	<0.05			0.05
PAH - Soil - Surrogate Recovery						
2-Fluorobiphenyl	PAH - Surrogate	%	105			40-130
Nitrobenzene-d5	PAH - Surrogate	%	111			40-130
p-Terphenyl-d14	PAH - Surrogate	%	107			40-130

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

Reference Number		648055-37	648055-38	648055-39	
Sample Date		Oct 08, 2008	Oct 08, 2008	Oct 08, 2008	
Sample Location					
Sample Description		MW2	MW3	MW4	
Matrix		Water	Water	Water	
Analyte	**Units**	**Results**	**Results**	**Results**	Nominal Detection Limit
Mono-Aromatic Hydrocarbons - Water					
Benzene	ug/L	<1	<1	<1	1
Ethylbenzene	ug/L	<1	<1	<1	1
Methyl t-Butyl Ether	ug/L	<1	<1	<1	1
Styrene	ug/L	<1	<1	<1	1
Toluene	ug/L	<1	<1	<1	1
Total Xylenes (m,p,o)	ug/L	<1	<1	<1	1
Volatile Petroleum Hydrocarbons - Water					
VPHw (VHw6-10 minus BTEX)	ug/L	<50	<50	<50	50
VHw6-10	ug/L	<50	<50	<50	50
Extractable Petroleum Hydrocarbons - Water					
LEPHw	ug/L	<100	200	<100	100
HEPHw	ug/L	<100	200	<100	100
Polycyclic Aromatic Hydrocarbons - Water					
Acenaphthene	ug/L	<0.1	<0.1	<0.1	0.1
Acenaphthylene	ug/L	<0.1	0.4	<0.1	0.1
Acridine	ug/L	<0.05	<0.05	<0.05	0.05
Anthracene	ug/L	<0.1	<0.1	<0.1	0.1
Benzo(a)anthracene	ug/L	<0.01	<0.01	<0.01	0.01
Benzo(a)pyrene	ug/L	<0.01	<0.01	<0.01	0.01
Benzo(b)fluoranthene	ug/L	<0.01	<0.01	<0.01	0.01
Benzo(g,h,i)perylene	ug/L	<0.1	<0.1	<0.1	0.1
Benzo(k)fluoranthene	ug/L	<0.02	<0.02	<0.02	0.02
Chrysene	ug/L	<0.1	<0.1	<0.1	0.1
Dibenzo(a,h)anthracene	ug/L	<0.01	<0.01	<0.01	0.01
Fluoranthene	ug/L	<0.1	<0.1	<0.1	0.1
Fluorene	ug/L	<0.1	<0.1	<0.1	0.1
Indeno(1,2,3-c,d)pyrene	ug/L	<0.1	<0.1	<0.1	0.1
Naphthalene	ug/L	<0.1	<0.1	<0.1	0.1
Phenanthrene	ug/L	<0.1	<0.1	<0.1	0.1
Pyrene	ug/L	<0.02	<0.02	<0.02	0.02
Quinoline	ug/L	<3.4	<3.4	<3.4	3.4
PAH - Water - Surrogate Recovery					
2-Fluorobiphenyl PAH - Surrogate	%	96	68	90	30-130
Nitrobenzene-d5 PAH - Surrogate	%	106	100	102	23-130
p-Terphenyl-d14 PAH - Surrogate	%	99	78	93	18-137

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

Reference Number	648055-38
Sample Date	Oct 08, 2008
Sample Location	
Sample Description	MW3
Matrix	Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
VOC Screen - Water					
Acetone	ug/L	<25			25
Acetonitrile	ug/L	<25			25
Acrylonitrile	ug/L	<25			25
Allyl Chloride	ug/L	<25			25
Benzene	ug/L	<1			1
Bromobenzene	ug/L	<1			1
Bromochloromethane	ug/L	<1			1
Bromodichloromethane	ug/L	<1			1
Bromoform	ug/L	<1			1
Bromomethane	ug/L	<10			10
2-Butanone (MEK)	ug/L	<25			25
n-Butylbenzene	ug/L	<1			1
sec-Butylbenzene	ug/L	<1			1
tert-Butylbenzene	ug/L	<1			1
Carbon Disulfide	ug/L	<1			1
Carbon Tetrachloride	ug/L	<1			1
Chlorobenzene	ug/L	<1			1
Chloroethane	ug/L	<10			10
2-Chloroethyl Vinyl Ether	ug/L	<1			1
Chloroform	ug/L	<1			1
Chloromethane	ug/L	<10			10
2-Chlorotoluene	ug/L	<1			1
4-Chlorotoluene	ug/L	<1			1
Dibromochloromethane	ug/L	<1			1
1,2-Dibromo-3-Chloropropane	ug/L	<1			1
1,2-Dibromoethane	ug/L	<1			1
Dibromomethane	ug/L	<1			1
1,4-Dichloro-2-Butene(cis)	ug/L	<25			25
1,4-Dichloro-2-Butene(trans)	ug/L	<25			25
1,2-Dichlorobenzene	ug/L	<1			1
1,3-Dichlorobenzene	ug/L	<1			1
1,4-Dichlorobenzene	ug/L	<1			1
1,1-Dichloroethane	ug/L	<1			1
1,2-Dichloroethane	ug/L	<1			1
1,1-Dichloroethene	ug/L	<1			1
1,2-Dichloroethene(cis)	ug/L	<1			1
1,2-Dichloroethene(trans)	ug/L	<1			1

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

Reference Number	648055-38
Sample Date	Oct 08, 2008
Sample Location	
Sample Description	MW3
Matrix	Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
VOC Screen - Water - Continued					
Dichlorodifluoromethane	ug/L	<10			10
1,2-Dichloropropane	ug/L	<1			1
1,3-Dichloropropane	ug/L	<1			1
2,2-Dichloropropane	ug/L	<10			10
1,1-Dichloropropene	ug/L	<1			1
1,3-Dichloropropene(cis)	ug/L	<1			1
1,3-Dichloropropene(trans)	ug/L	<1			1
Ethylbenzene	ug/L	<1			1
Ethyl Methacrylate	ug/L	<25			25
Hexachlorobutadiene	ug/L	<1			1
Hexachloroethane	ug/L	<1			1
2-Hexanone	ug/L	<25			25
Iodomethane	ug/L	<1			1
p-Isopropyltoluene	ug/L	<1			1
Methacrylonitrile	ug/L	<25			25
Methylene Chloride	ug/L	<5			5
Methyl Methacrylate	ug/L	<25			25
4-Methyl-2-Pentanone (MIBK)	ug/L	<25			25
Methyl t-Butyl Ether	ug/L	<1			1
Naphthalene	ug/L	<5			5
Pentachloroethane	ug/L	<1			1
Propionitrile	ug/L	<25			25
iso-Propylbenzene	ug/L	<1			1
n-Propylbenzene	ug/L	<1			1
Styrene	ug/L	<1			1
1,1,1,2-Tetrachloroethane	ug/L	<1			1
1,1,2,2-Tetrachloroethane	ug/L	<1			1
Tetrachloroethene	ug/L	<1			1
Toluene	ug/L	<1			1
1,2,3-Trichlorobenzene	ug/L	<1			1
1,2,4-Trichlorobenzene	ug/L	<1			1
1,1,1-Trichloroethane	ug/L	<1			1
1,1,2-Trichloroethane	ug/L	<1			1
Trichloroethene	ug/L	<1			1
Trichlorofluoromethane	ug/L	<1			1
1,2,3-Trichloropropane	ug/L	<1			1
1,2,4-Trimethylbenzene	ug/L	<1			1

Bodycote TESTING GROUP

Analytical Report

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

Reference Number	648055-38
Sample Date	Oct 08, 2008
Sample Location	
Sample Description	MW3
Matrix	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
VOC Screen - Water - Continued						
1,3,5-Trimethylbenzene		ug/L	<1			1
Vinyl Chloride		ug/L	<2			2
Total Xylenes (m,p,o)		ug/L	<1			1
VOC - Water - Surrogate Recovery						
Dibromofluoromethane	EPA Surrogate	%	91			86-118
Toluene-d8	EPA Surrogate	%	99			85-115
Bromofluorobenzene	EPA Surrogate	%	<86			86-115

Approved by:

Andrew Garrard, BSc
Operations Manager

Bodycote TESTING GROUP

Methodology and Notes

Bill To:	EBA Engineering Consulting Lt	Project:	
Report To:	EBA Engineering Consulting Lt	ID:	W23101161
	Calcite Business Centre	Name:	MetaFina
	Unit 6, 151 Industrial Road	Location:	Faro
	Whitehorse, YT, Canada	LSD:	
	Y1A 2V3	P.O.:	
Attn:	Donald Wilson	Acct code:	
Sampled By:	Mike Gallo		
Company:	EBA		

Lot ID:	**648055**
Control Number:	A015620/1/
Date Received:	Oct 9, 2008
Date Reported:	Oct 20, 2008
Report Number:	1159514

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
BTEX-VPH - Soil	BCELM	*	Volatile Hydrocarbons in Solids by GC/FID, VH Solids	10-Oct-08	BTG Surrey
BTEX-VPH - Water (MS)	BCELM	*	Volatile Hydrocarbons in Water by GC/FID, VH Water	11-Oct-08	BTG Surrey
EPH - Soil	BCELM	*	Extractable Petroleum Hydrocarbons (EPH) in Solids by GC/FID, EPH Solids	10-Oct-08	BTG Surrey
EPH - Water	BCELM	*	Extractable Petroleum Hydrocarbons (EPH) in Water by GC/FID, EPH Water	11-Oct-08	BTG Surrey
PAH - Soil (Surrey)	BCELM	*	Polycyclic Aromatic Hydrocarbons (PAHs) In Solids by GC/MS/SIM, PAH Solids	10-Oct-08	BTG Surrey
PAH - Soil (Surrey)	US EPA	*	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry, 8270	10-Oct-08	BTG Surrey
PAH - Water (Surrey)	BCELM	*	Polycyclic Aromatic Hydrocarbons in Water by GC/MS - PBM, PAH Water	11-Oct-08	BTG Surrey
VOC - Soil	US EPA	*	US EPA method, 8260B/5030B	14-Oct-08	BTG Calgary
VOC - Water	US EPA	*	US EPA method, 8260B/5030B	15-Oct-08	BTG Calgary

** Bodycote method(s) based on reference method*

References

BCELM	B.C. Environmental Laboratory Manual
US EPA	US Environmental Protection Agency Test Methods

Comments:

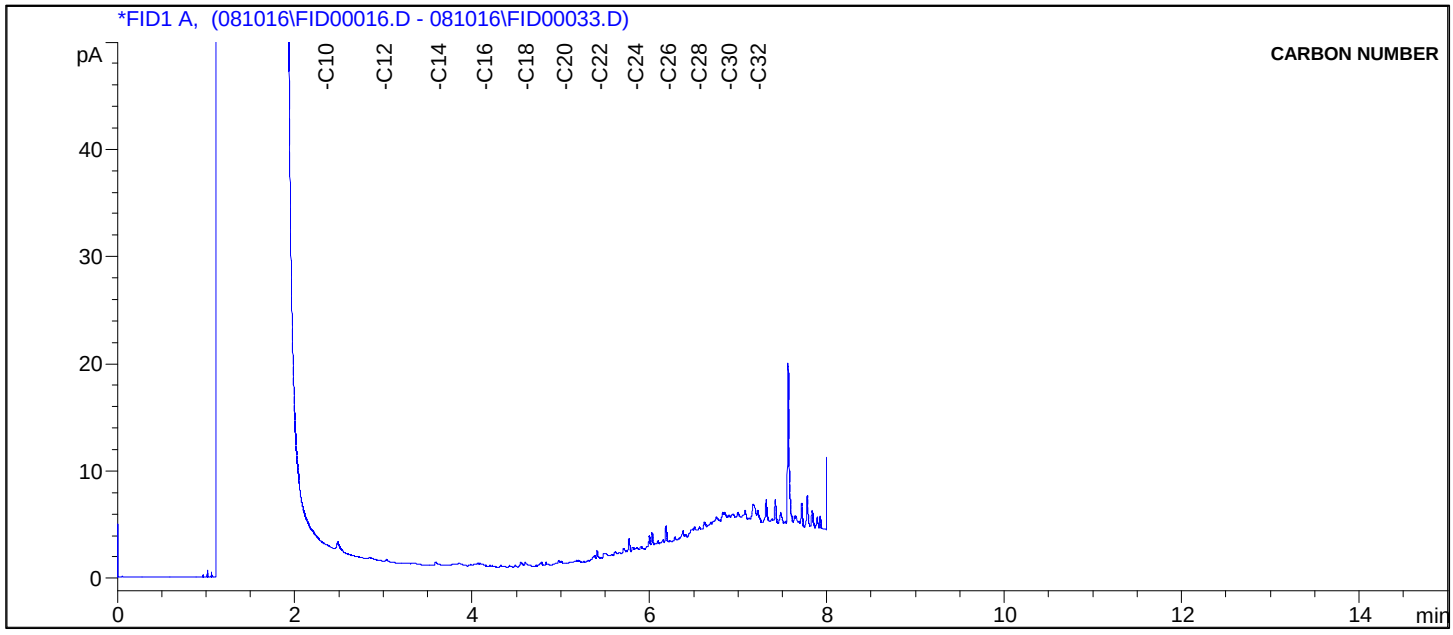
Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.

Bodycote TESTING GROUP

Hydrocarbon Chromatogram

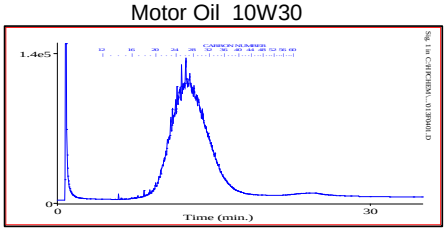
Bill To:	EBA Engineering - Edmonton	Project ID:	W23101161	Lot ID:	**648055**
Report To:	EBA Engineering - Edmonton	Name:	MetaFina	Control Number:	A015620/1/
	Calcite Business Centre	Location:	Faro	Date Received:	Oct 9, 2008
	Unit 6, 151 Industrial Road	LSD:		Date Reported:	
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-2 Sample Description: TP08-1-2
Sample Date: Oct 6, 2008

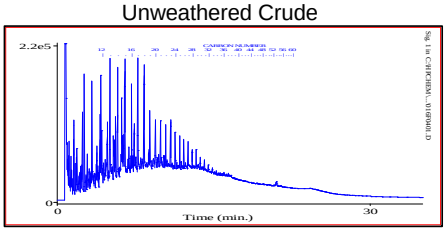


TYPICAL PRODUCT CHROMATOGRAMS

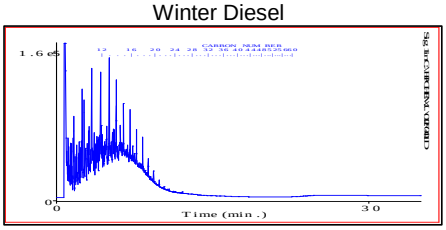
Motor Oil 10W30



Unweathered Crude



Winter Diesel



Product Carbon Number Ranges

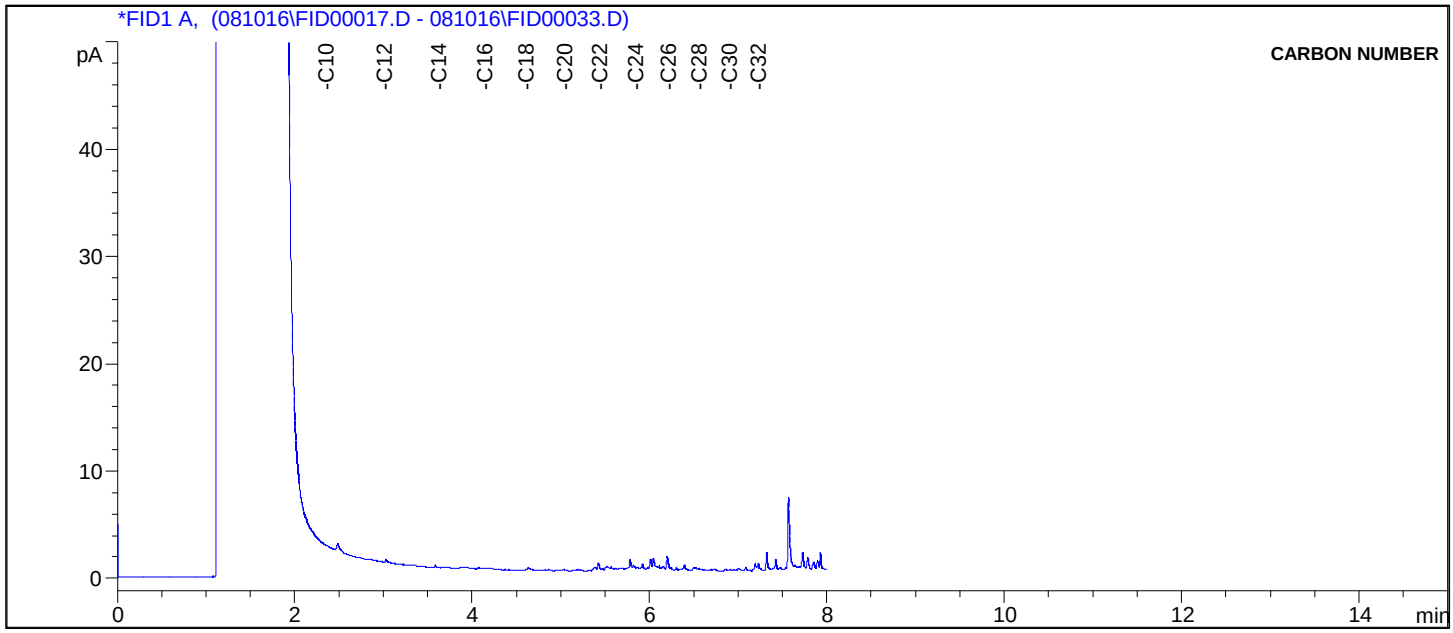
Gasoline	C4-C12	Kerosene	C7-C16	Lubricating Oils	C20-C40
Varsol	C8-C12	Diesel	C8-C22	Crude Oils	C3-C60+

Bodycote TESTING GROUP

Hydrocarbon Chromatogram

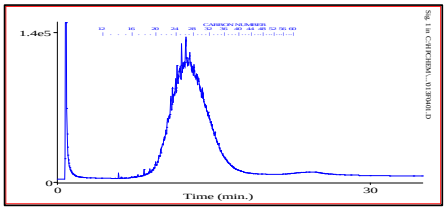
Bill To:	EBA Engineering - Edmonton	Project ID:	W23101161	Lot ID:	**648055**
Report To:	EBA Engineering - Edmonton	Name:	MetaFina	Control Number:	A015620/1/
	Calcite Business Centre	Location:	Faro	Date Received:	Oct 9, 2008
	Unit 6, 151 Industrial Road	LSD:		Date Reported:	
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-5 Sample Description: TP08-2-2
Sample Date: Oct 6, 2008

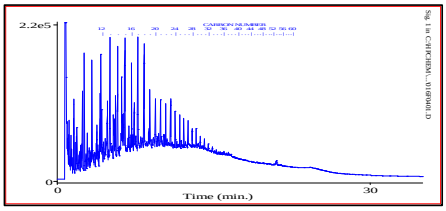


TYPICAL PRODUCT CHROMATOGRAMS

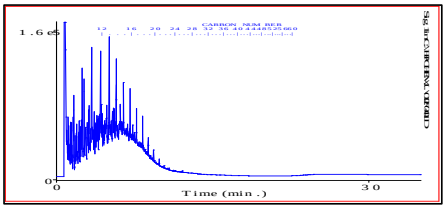
Motor Oil 10W30



Unweathered Crude



Winter Diesel



Product Carbon Number Ranges

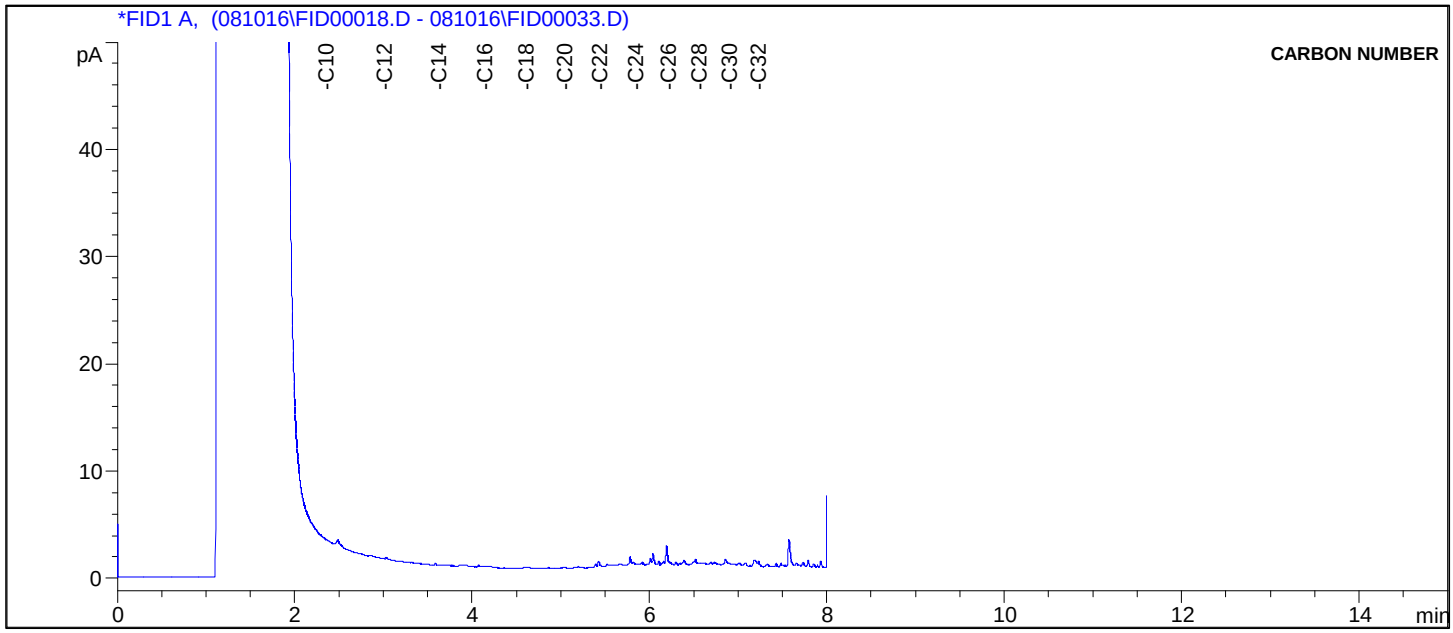
Gasoline	C4-C12	Kerosene	C7-C16	Lubricating Oils	C20-C40
Varsol	C8-C12	Diesel	C8-C22	Crude Oils	C3-C60+

Bodycote TESTING GROUP

Hydrocarbon Chromatogram

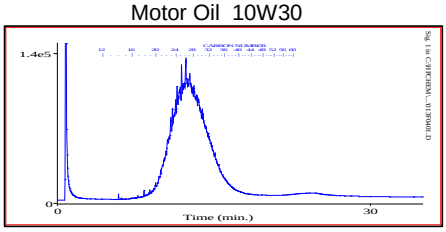
Bill To:	EBA Engineering - Edmonton	Project ID:	W23101161	Lot ID:	**648055**
Report To:	EBA Engineering - Edmonton	Name:	MetaFina	Control Number:	A015620/1/
	Calcite Business Centre	Location:	Faro	Date Received:	Oct 9, 2008
	Unit 6, 151 Industrial Road	LSD:		Date Reported:	
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-8 Sample Description: TP08-3-2
Sample Date: Oct 6, 2008

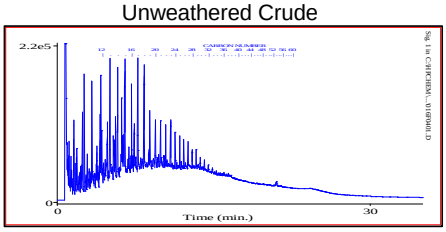


TYPICAL PRODUCT CHROMATOGRAMS

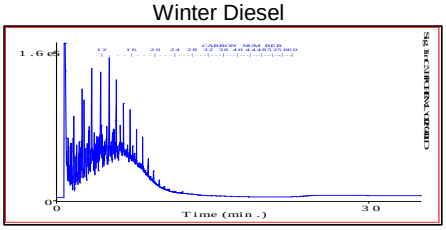
Motor Oil 10W30



Unweathered Crude



Winter Diesel



Product Carbon Number Ranges

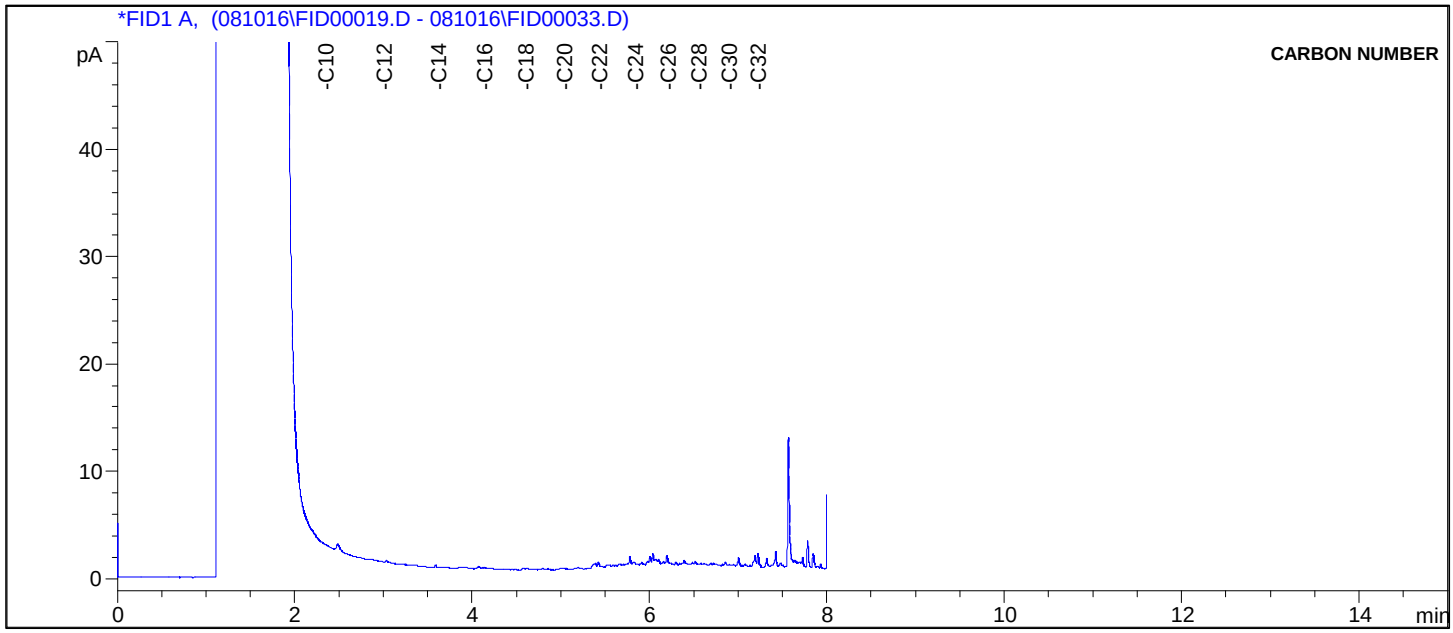
Gasoline	C4-C12	Kerosene	C7-C16	Lubricating Oils	C20-C40
Varsol	C8-C12	Diesel	C8-C22	Crude Oils	C3-C60+

Bodycote TESTING GROUP

Hydrocarbon Chromatogram

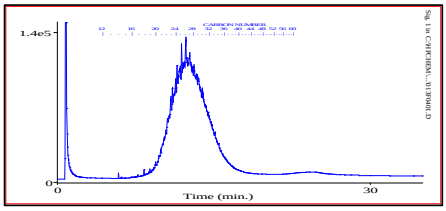
Bill To:	EBA Engineering - Edmonton	Project ID:	W23101161	Lot ID:	**648055**
Report To:	EBA Engineering - Edmonton	Name:	MetaFina	Control Number:	A015620/1/
	Calcite Business Centre	Location:	Faro	Date Received:	Oct 9, 2008
	Unit 6, 151 Industrial Road	LSD:		Date Reported:	
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-11 Sample Description: TP08-4-2
Sample Date: Oct 7, 2008

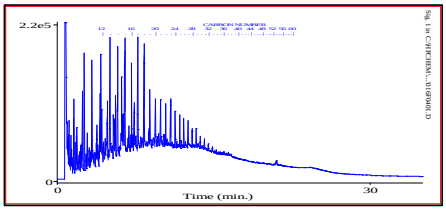


TYPICAL PRODUCT CHROMATOGRAMS

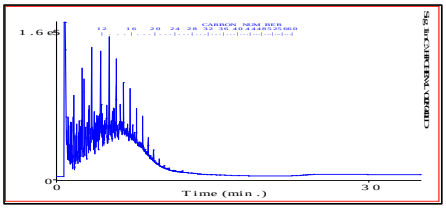
Motor Oil 10W30



Unweathered Crude



Winter Diesel



Product Carbon Number Ranges

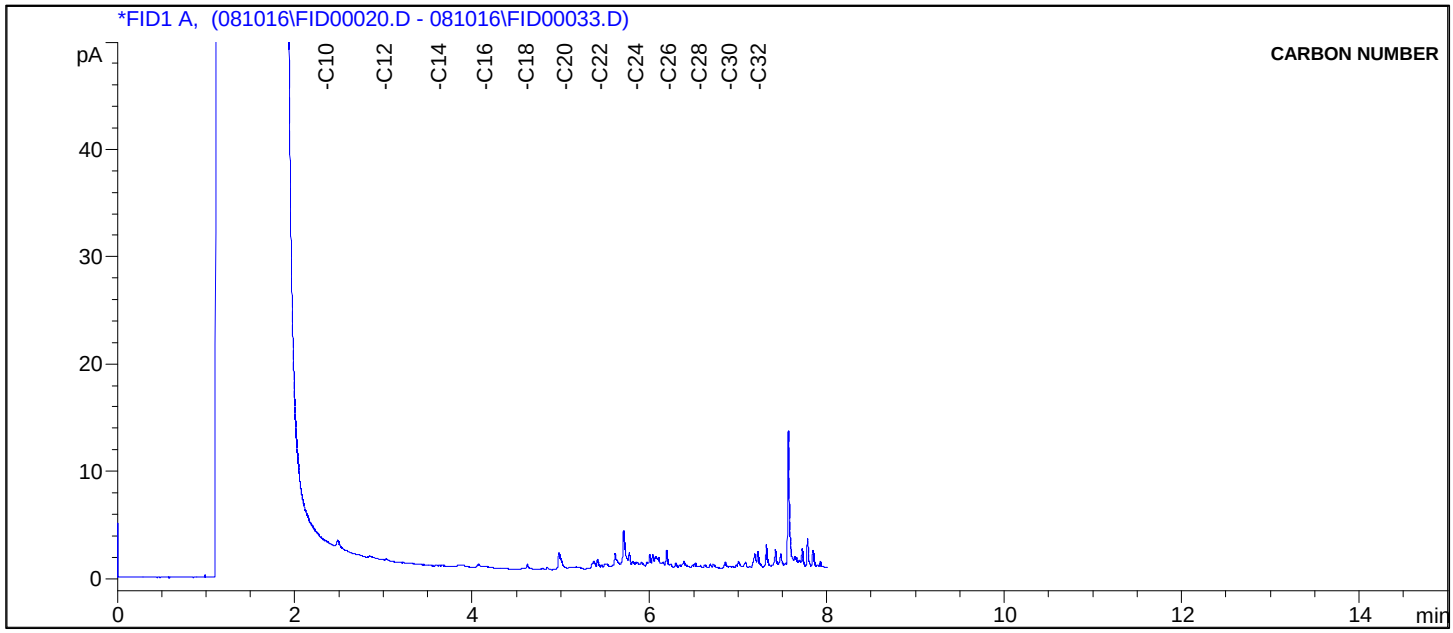
Gasoline	C4-C12	Kerosene	C7-C16	Lubricating Oils	C20-C40
Varsol	C8-C12	Diesel	C8-C22	Crude Oils	C3-C60+

Bodycote TESTING GROUP

Hydrocarbon Chromatogram

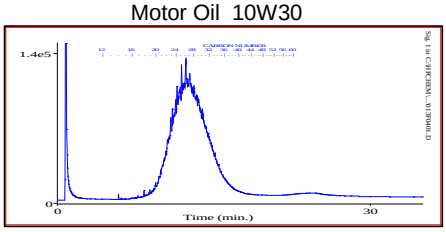
Bill To:	EBA Engineering - Edmonton	Project ID:	W23101161	Lot ID:	**648055**
Report To:	EBA Engineering - Edmonton	Name:	MetaFina	Control Number:	A015620/1/
	Calcite Business Centre	Location:	Faro	Date Received:	Oct 9, 2008
	Unit 6, 151 Industrial Road	LSD:		Date Reported:	
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-14 Sample Description: TP08-5-1
Sample Date: Oct 7, 2008

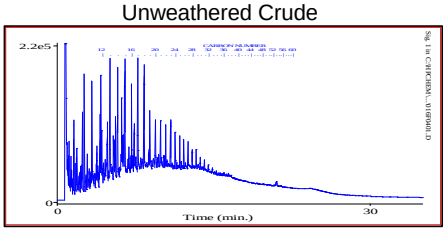


TYPICAL PRODUCT CHROMATOGRAMS

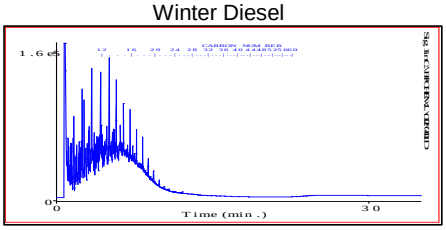
Motor Oil 10W30



Unweathered Crude



Winter Diesel



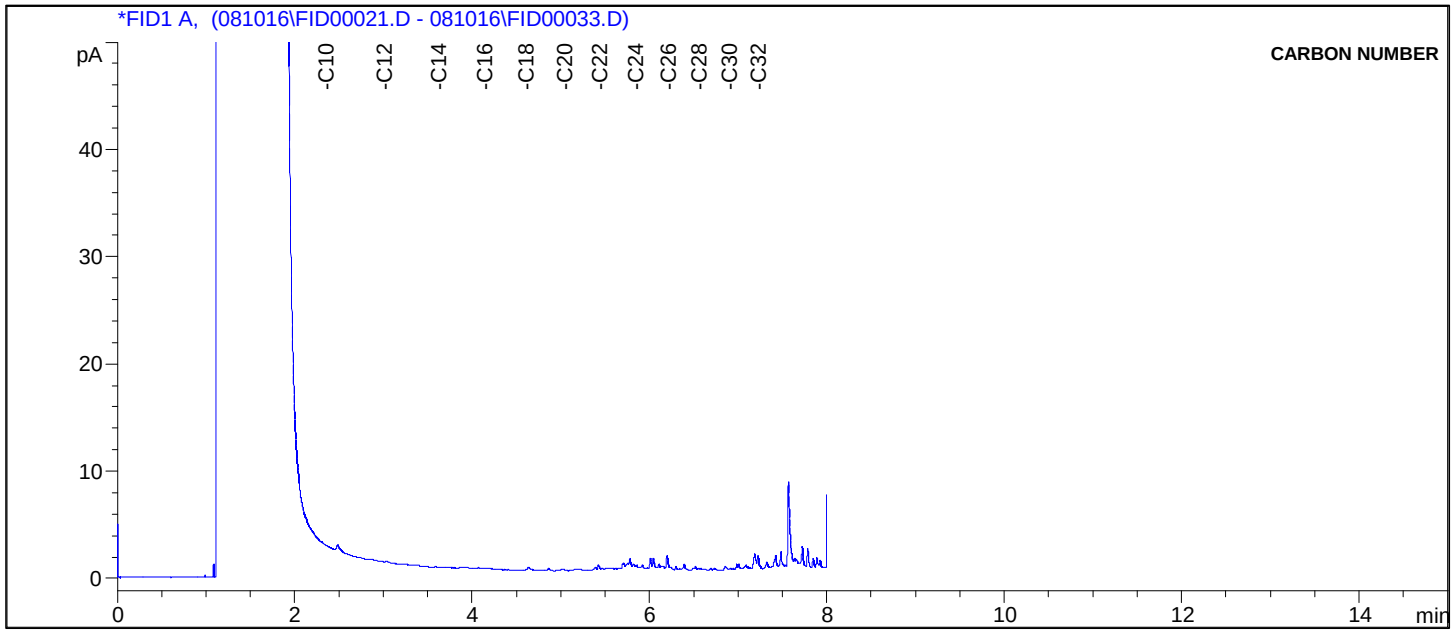
Product Carbon Number Ranges

Gasoline	C4-C12	Kerosene	C7-C16	Lubricating Oils	C20-C40
Varsol	C8-C12	Diesel	C8-C22	Crude Oils	C3-C60+

Hydrocarbon Chromatogram

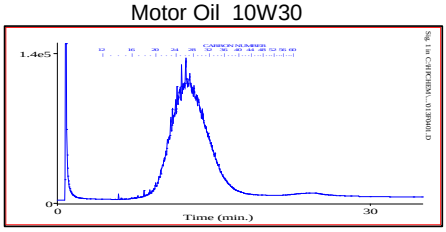
Bill To:	EBA Engineering - Edmonton	Project ID:	W23101161	Lot ID:	**648055**
Report To:	EBA Engineering - Edmonton	Name:	MetaFina	Control Number:	A015620/1/
	Calcite Business Centre	Location:	Faro	Date Received:	Oct 9, 2008
	Unit 6, 151 Industrial Road	LSD:		Date Reported:	
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-16 Sample Description: TP08-5-3
Sample Date: Oct 7, 2008

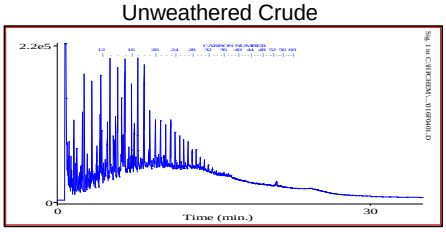


TYPICAL PRODUCT CHROMATOGRAMS

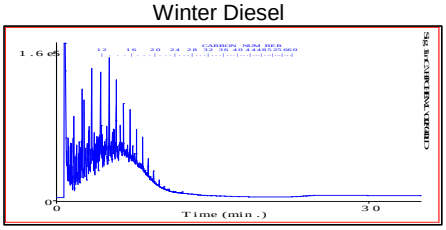
Motor Oil 10W30



Unweathered Crude



Winter Diesel



Product Carbon Number Ranges

Gasoline	C4-C12	Kerosene	C7-C16	Lubricating Oils	C20-C40
Varsol	C8-C12	Diesel	C8-C22	Crude Oils	C3-C60+

Bodycote TESTING GROUP

Hydrocarbon Chromatogram

Bill To:	EBA Engineering - Edmonton	Project ID:	W23101161	Lot ID:	**648055**
Report To:	EBA Engineering - Edmonton	Name:	MetaFina	Control Number:	A015620/1/
	Calcite Business Centre	Location:	Faro	Date Received:	Oct 9, 2008
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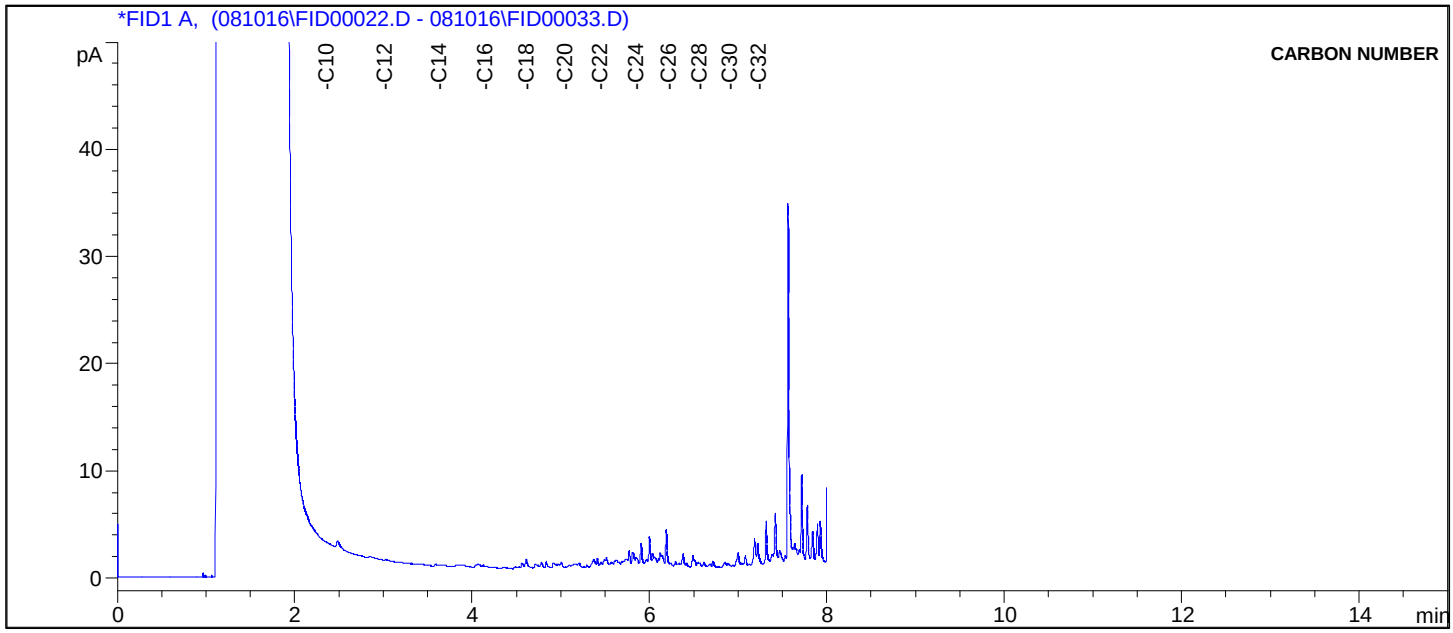
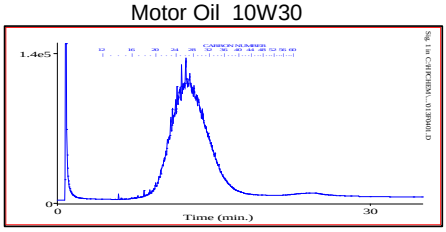
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-18 Sample Description: TP08-6-2
Sample Date: Oct 7, 2008



TYPICAL PRODUCT CHROMATOGRAMS

Motor Oil 10W30



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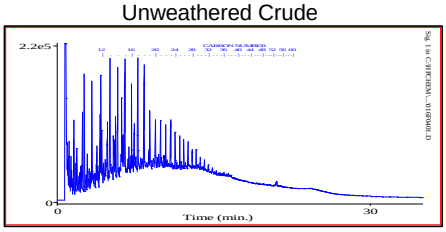
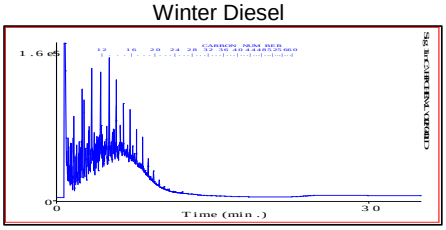


Winter Diesel



Product Carbon Number Ranges

Gasoline	C4-C12	Kerosene	C7-C16	Lubricating Oils	C20-C40
Varsol	C8-C12	Diesel	C8-C22	Crude Oils	C3-C60+

Bodycote TESTING GROUP

Hydrocarbon Chromatogram

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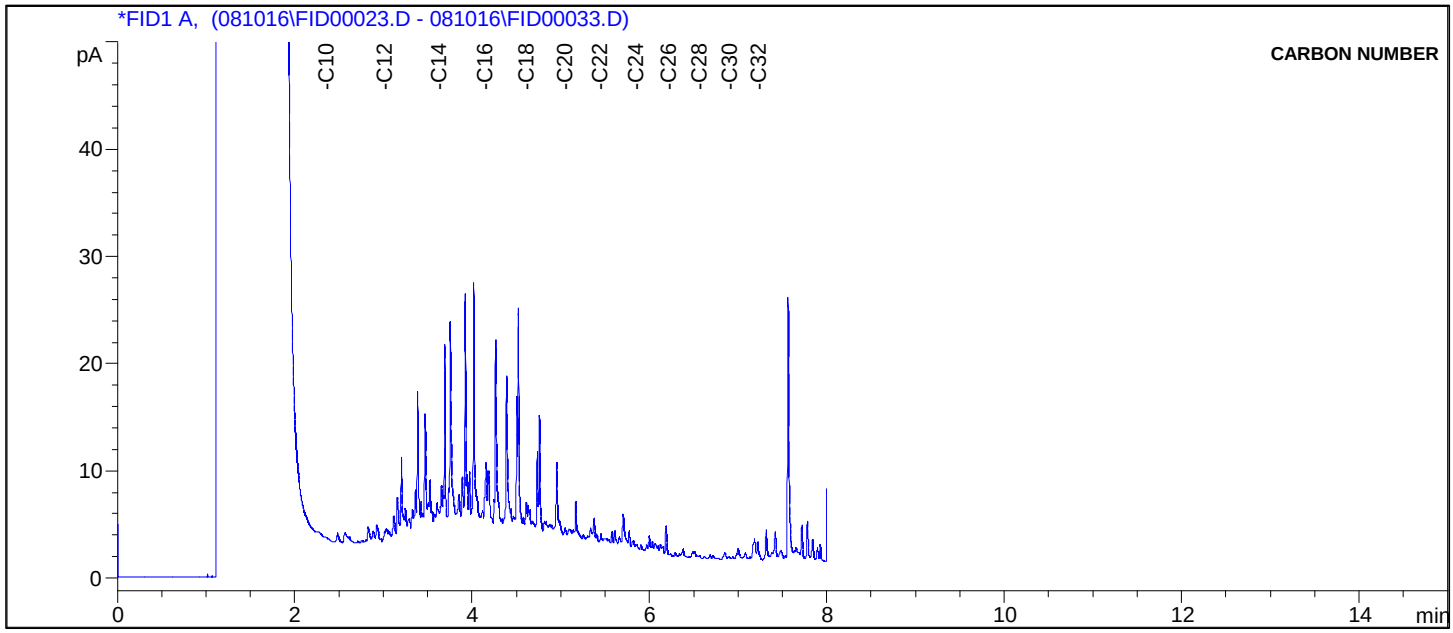
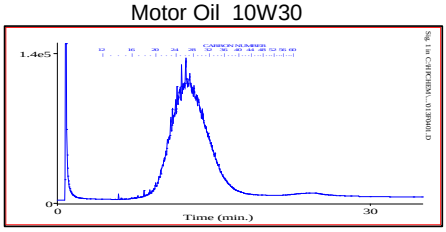
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-21 Sample Description: TP08-7-2
Sample Date: Oct 7, 2008

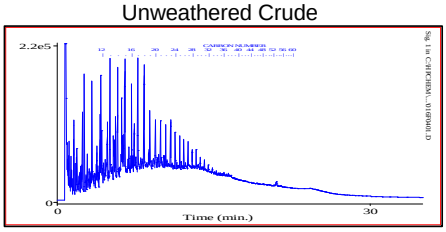


TYPICAL PRODUCT CHROMATOGRAMS

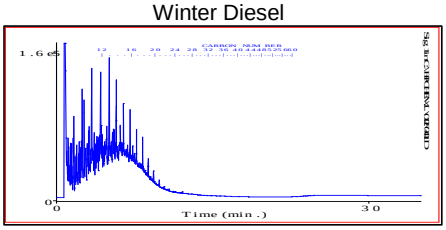
Motor Oil 10W30



Unweathered Crude



Winter Diesel



Product Carbon Number Ranges

Gasoline	C4-C12	Kerosene	C7-C16	Lubricating Oils	C20-C40
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Hydrocarbon Chromatogram

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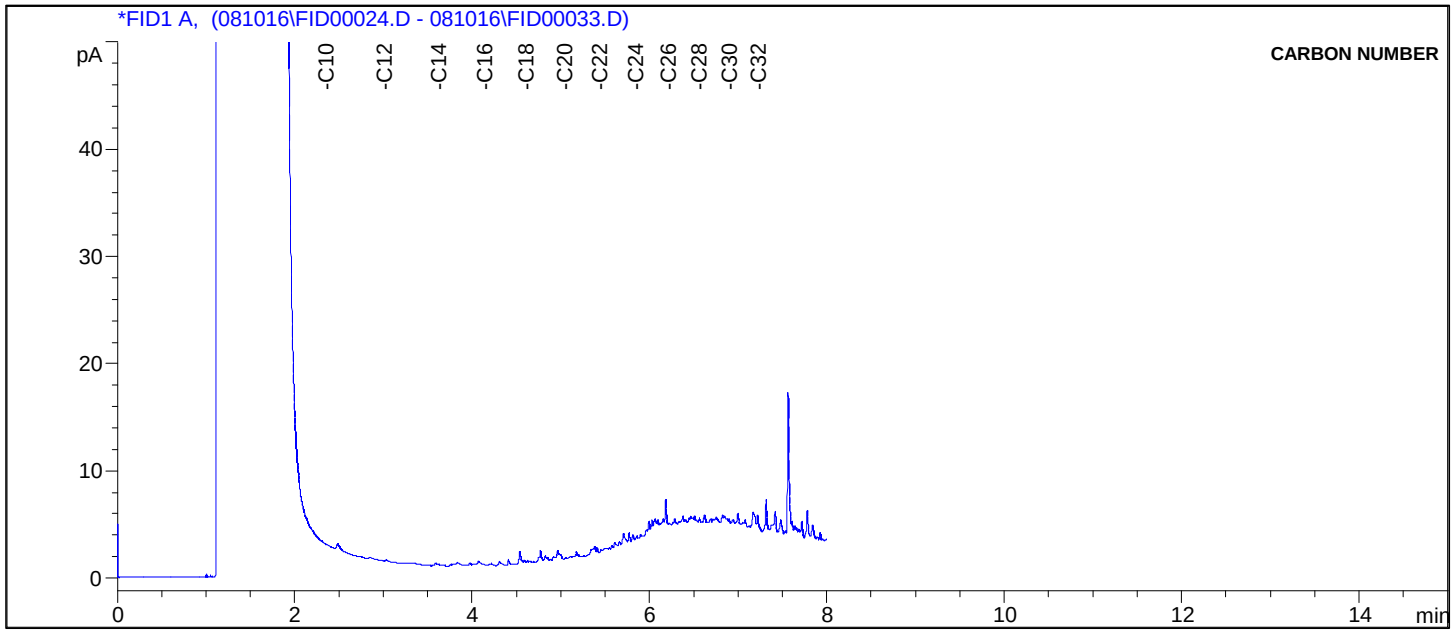
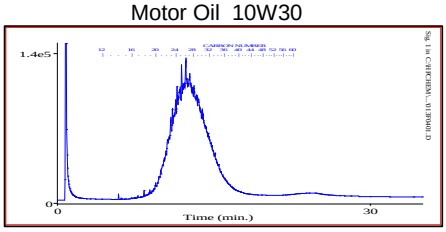
Report To:	EBA Engineering - Edmonton	Name:	MetaFina	Control Number:	A015620/1/
	Calcite Business Centre	Location:	Faro	Date Received:	Oct 9, 2008
	Unit 6, 151 Industrial Road	LSD:		Date Reported:	
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-23 Sample Description: TP08-8-1
Sample Date: Oct 7, 2008

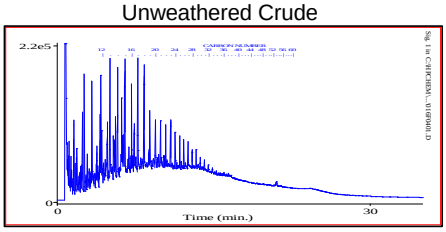


TYPICAL PRODUCT CHROMATOGRAMS

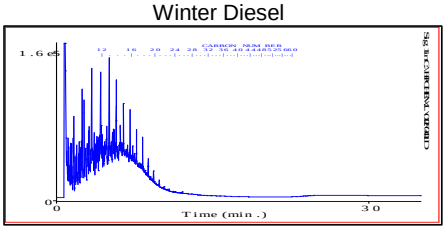
Motor Oil 10W30



Unweathered Crude



Winter Diesel



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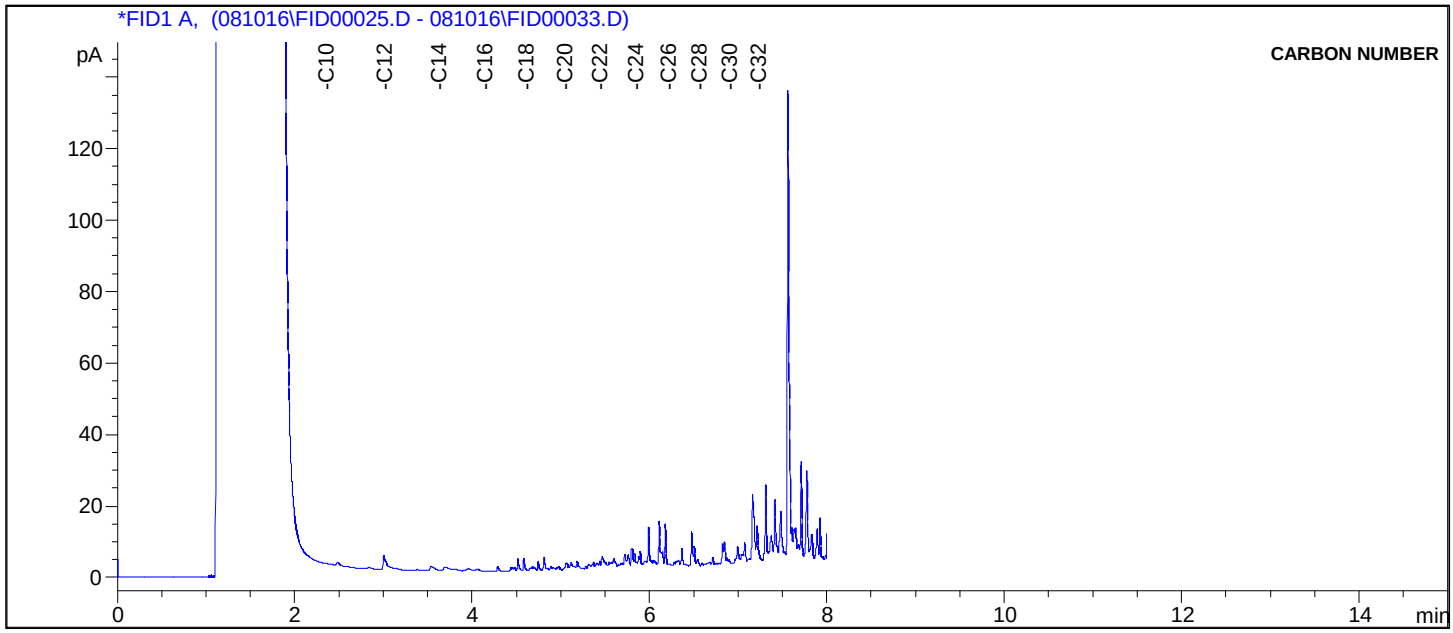
Varsol	C8-C12	Diesel	C8-C22	Crude Oils	C3-C60+

Bodycote TESTING GROUP

Hydrocarbon Chromatogram

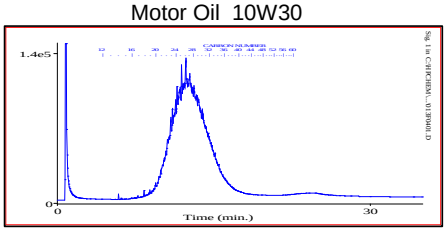
Bill To:	EBA Engineering - Edmonton	Project ID:	W23101161	Lot ID:	**648055**
Report To:	EBA Engineering - Edmonton	Name:	MetaFina	Control Number:	A015620/1/
	Calcite Business Centre	Location:	Faro	Date Received:	Oct 9, 2008
	Unit 6, 151 Industrial Road	LSD:		Date Reported:	
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-25 Sample Description: TP08-8-3
Sample Date: Oct 7, 2008

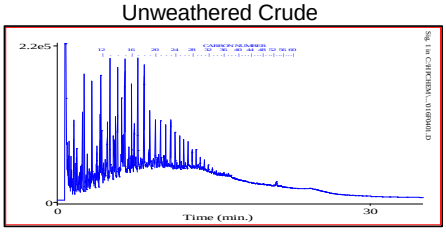


TYPICAL PRODUCT CHROMATOGRAMS

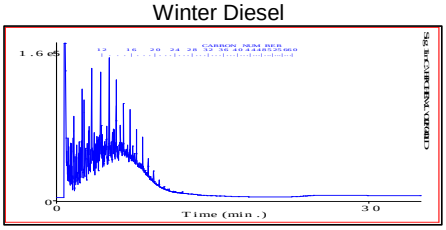
Motor Oil 10W30



Unweathered Crude



Winter Diesel



Product Carbon Number Ranges

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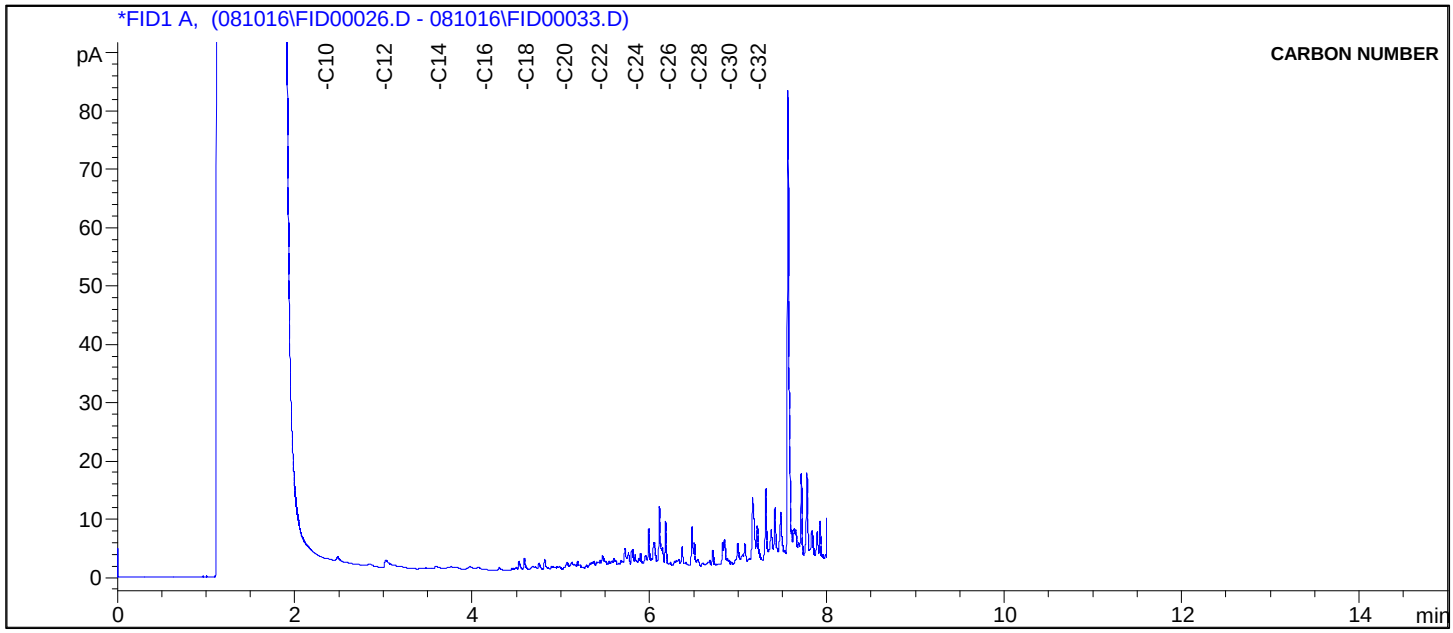
Bodycote TESTING GROUP

Hydrocarbon Chromatogram

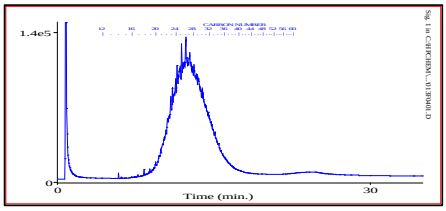
Bill To:	EBA Engineering - Edmonton	Project ID:	W23101161	Lot ID:	**648055**
Report To:	EBA Engineering - Edmonton	Name:	MetaFina	Control Number:	A015620/1/
	Calcite Business Centre	Location:	Faro	Date Received:	Oct 9, 2008
	Unit 6, 151 Industrial Road	LSD:		Date Reported:	
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-26 Sample Description: TP08-9-1
Sample Date: Oct 7, 2008



TYPICAL PRODUCT CHROMATOGRAMS

Motor Oil 10W30



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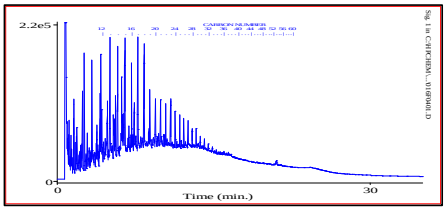
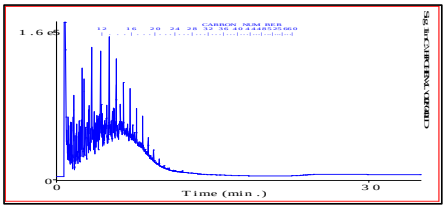


Winter Diesel



Product Carbon Number Ranges

Gasoline	C4-C12	Kerosene	C7-C16	Lubricating Oils	C20-C40
Varsol	C8-C12	Diesel	C8-C22	Crude Oils	C3-C60+

Bodycote TESTING GROUP

Hydrocarbon Chromatogram

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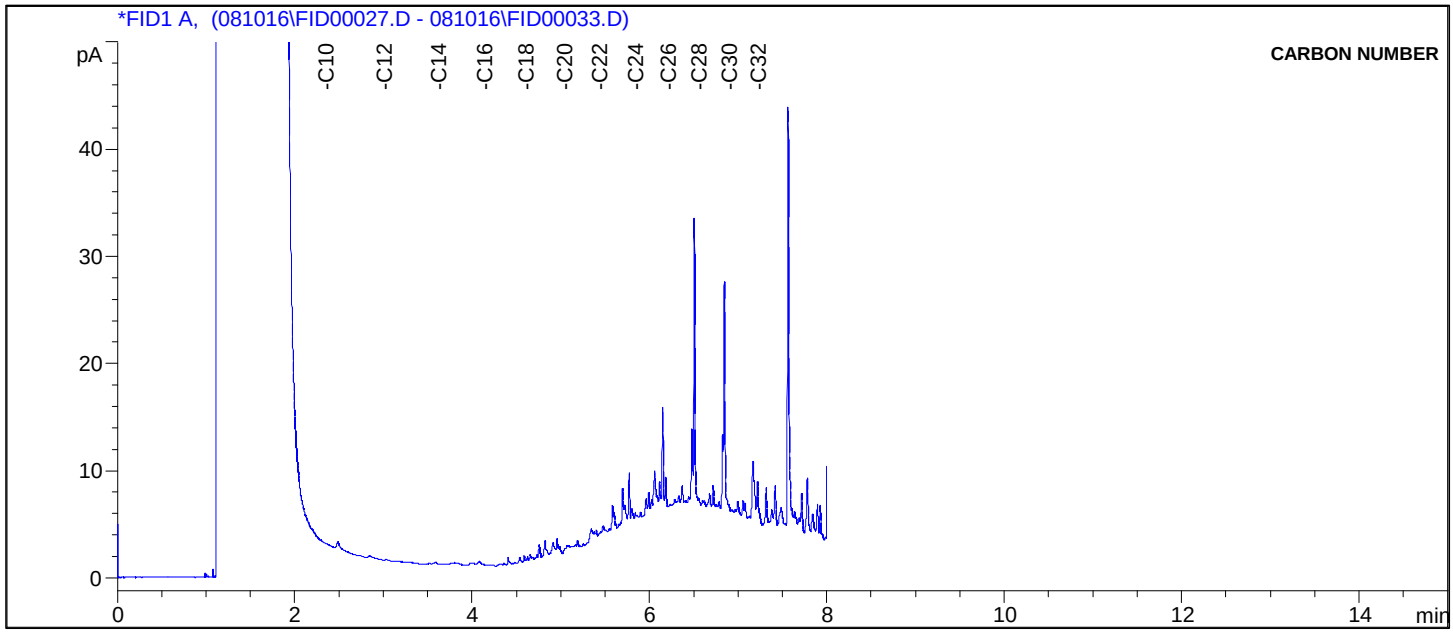
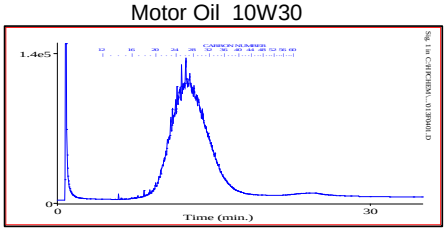
Report To:	EBA Engineering - Edmonton	Name:	MetaFina	Control Number:	A015620/1/
	Calcite Business Centre	Location:	Faro	Date Received:	Oct 9, 2008
	Unit 6, 151 Industrial Road	LSD:		Date Reported:	
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-29 Sample Description: TP08-10-1
Sample Date: Oct 7, 2008

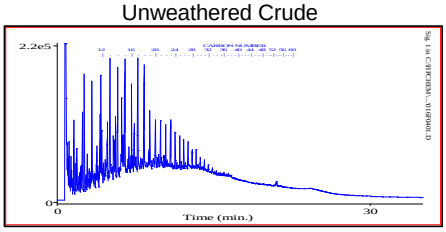


TYPICAL PRODUCT CHROMATOGRAMS

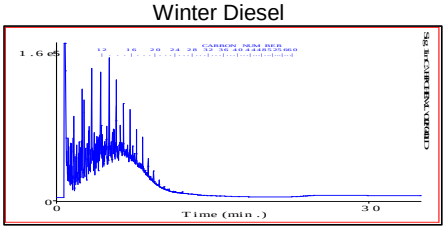
Motor Oil 10W30



Unweathered Crude



Winter Diesel



Product Carbon Number Ranges

Gasoline	C4-C12	Kerosene	C7-C16	Lubricating Oils	C20-C40
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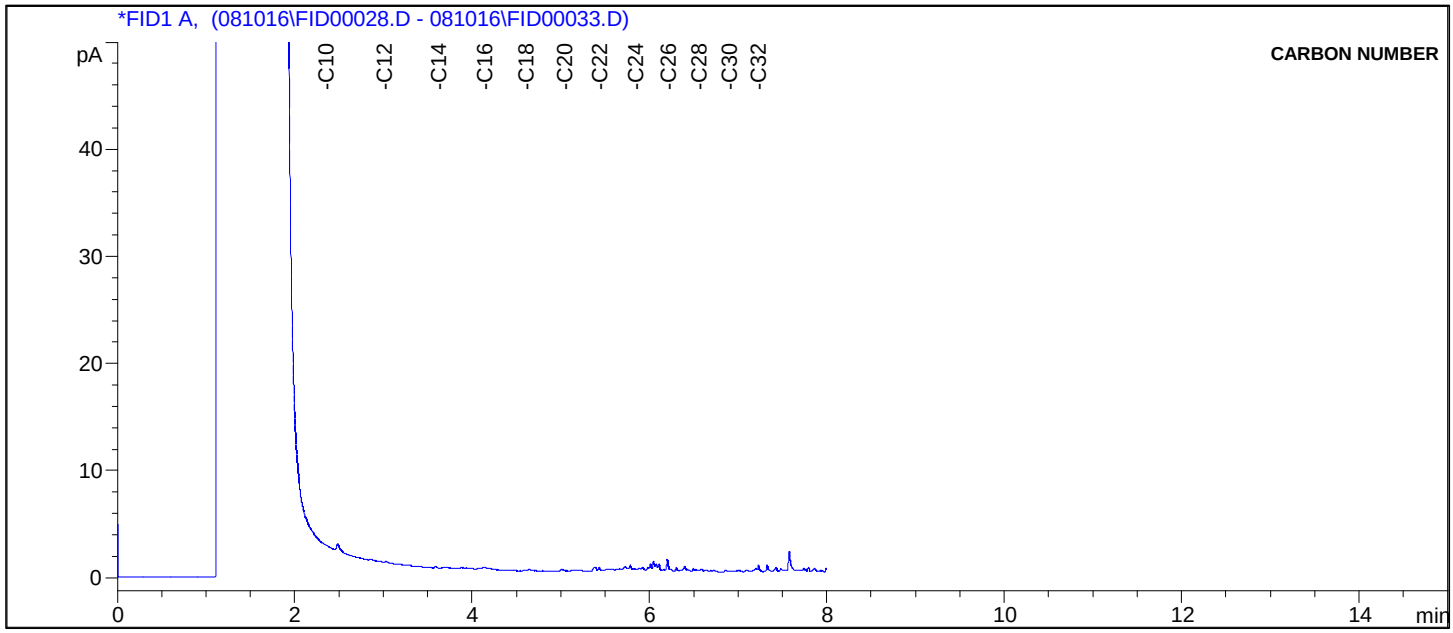
Bodycote TESTING GROUP

Hydrocarbon Chromatogram

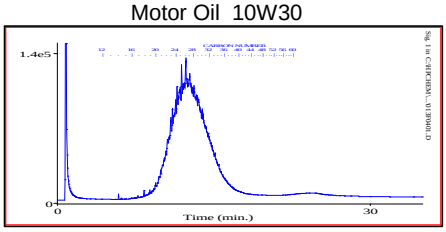
Bill To:	EBA Engineering - Edmonton	Project ID:	W23101161	Lot ID:	**648055**
Report To:	EBA Engineering - Edmonton	Name:	MetaFina	Control Number:	A015620/1/
	Calcite Business Centre	Location:	Faro	Date Received:	Oct 9, 2008
	Unit 6, 151 Industrial Road	LSD:		Date Reported:	
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-32 Sample Description: TP08-11-1
Sample Date: Oct 7, 2008

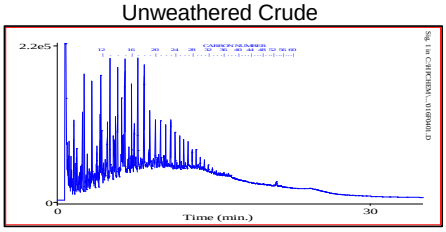


TYPICAL PRODUCT CHROMATOGRAMS

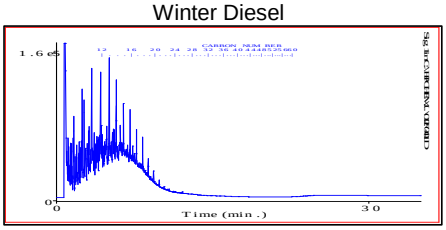
Motor Oil 10W30



Unweathered Crude



Winter Diesel



Product Carbon Number Ranges

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Bodycote TESTING GROUP

Hydrocarbon Chromatogram

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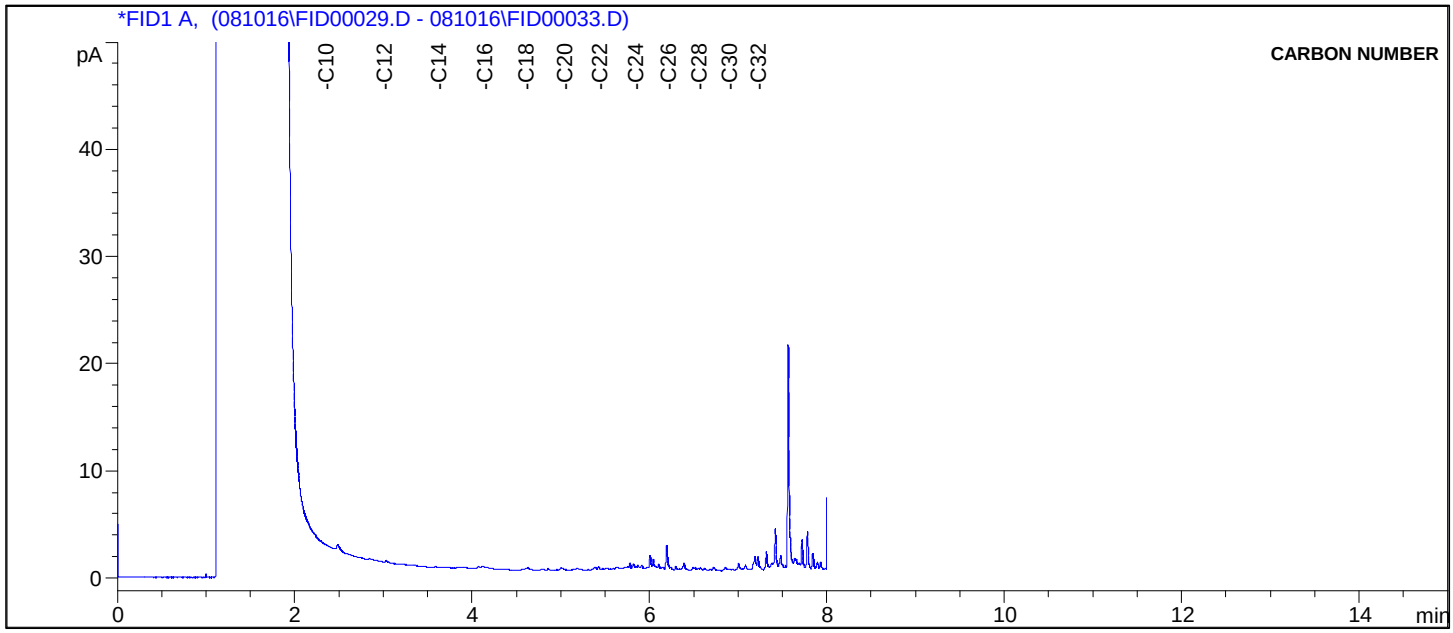
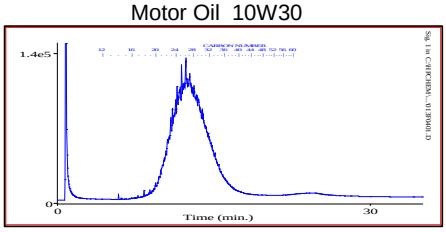
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-34 Sample Description: TP08-11-3
Sample Date: Oct 7, 2008

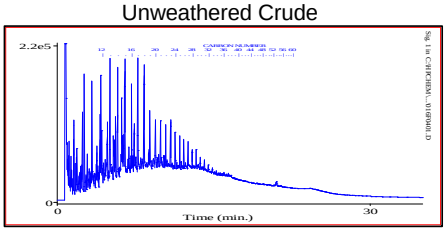


TYPICAL PRODUCT CHROMATOGRAMS

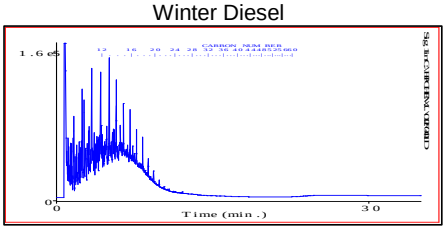
Motor Oil 10W30



Unweathered Crude



Winter Diesel



Product Carbon Number Ranges

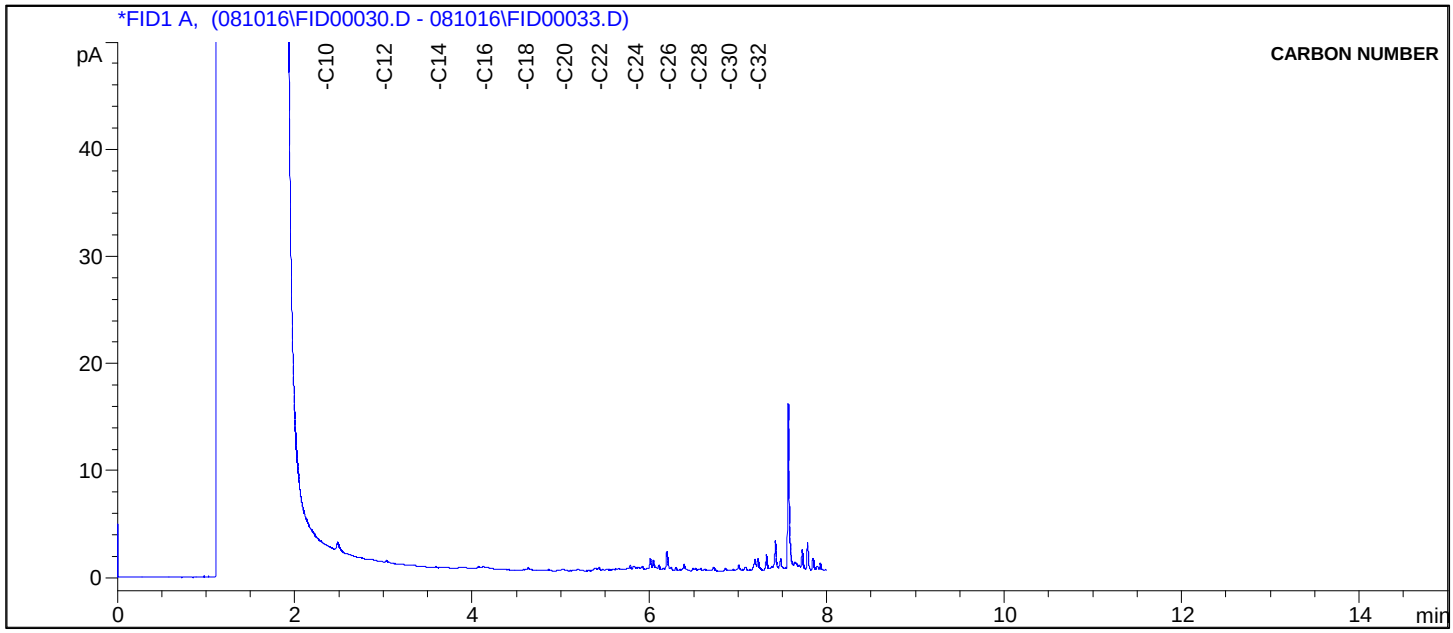
Gasoline	C4-C12	Kerosene	C7-C16	Lubricating Oils	C20-C40
Varsol	C8-C12	Diesel	C8-C22	Crude Oils	C3-C60+

Bodycote TESTING GROUP

Hydrocarbon Chromatogram

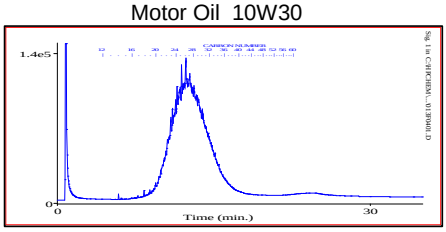
Bill To:	EBA Engineering - Edmonton	Project ID:	W23101161	Lot ID:	**648055**
Report To:	EBA Engineering - Edmonton	Name:	MetaFina	Control Number:	A015620/1/
	Calcite Business Centre	Location:	Faro	Date Received:	Oct 9, 2008
	Unit 6, 151 Industrial Road	LSD:		Date Reported:	
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-35 Sample Description: TP08-11-4
Sample Date: Oct 7, 2008

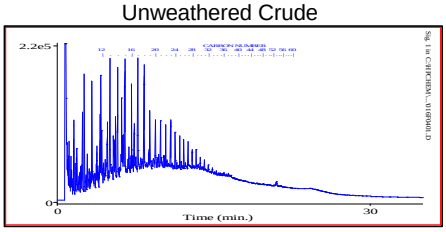


TYPICAL PRODUCT CHROMATOGRAMS

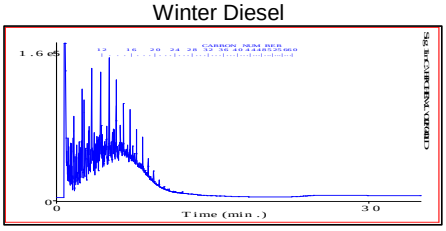
Motor Oil 10W30



Unweathered Crude



Winter Diesel



Product Carbon Number Ranges

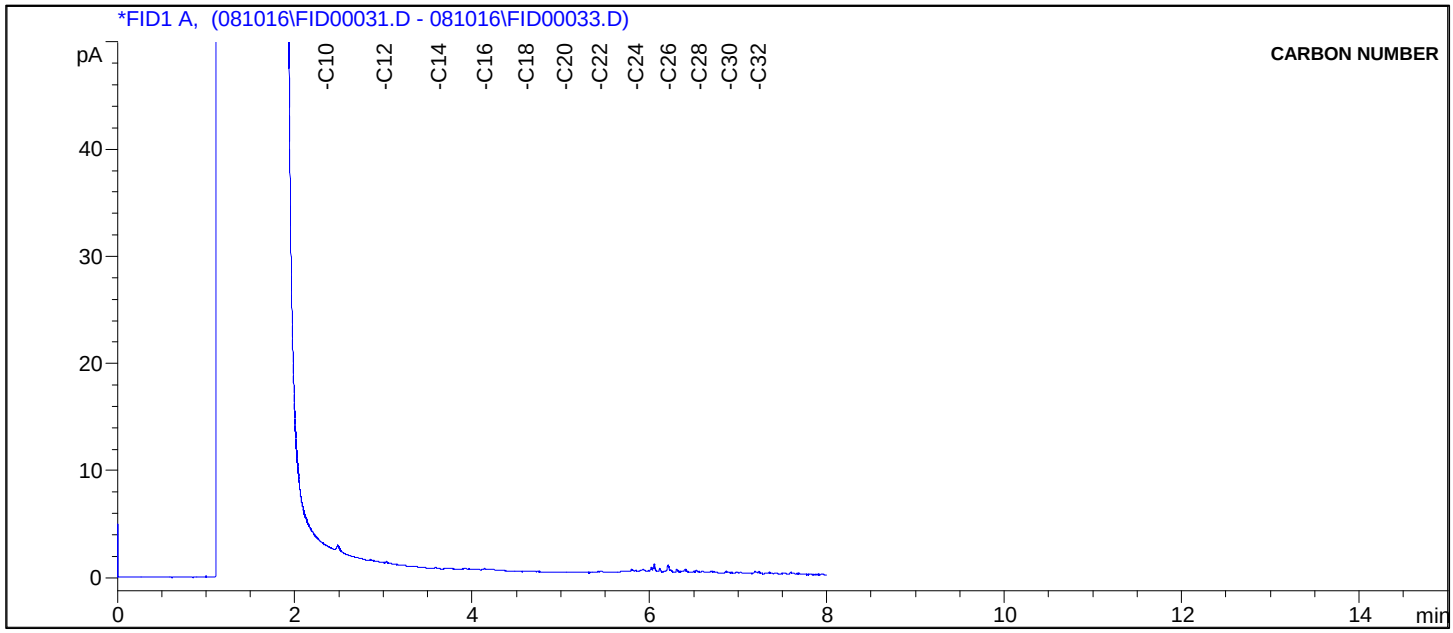
Gasoline	C4-C12	Kerosene	C7-C16	Lubricating Oils	C20-C40
Varsol	C8-C12	Diesel	C8-C22	Crude Oils	C3-C60+

Bodycote TESTING GROUP

Hydrocarbon Chromatogram

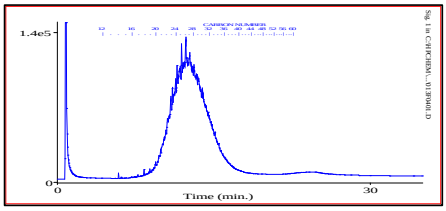
Bill To:	EBA Engineering - Edmonton	Project ID:	W23101161	Lot ID:	**648055**
Report To:	EBA Engineering - Edmonton	Name:	MetaFina	Control Number:	A015620/1/
	Calcite Business Centre	Location:	Faro	Date Received:	Oct 9, 2008
	Unit 6, 151 Industrial Road	LSD:		Date Reported:	
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-36 Sample Description: UST-1
Sample Date: Oct 6, 2008

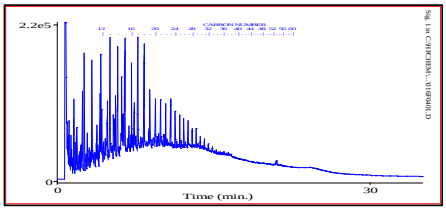


TYPICAL PRODUCT CHROMATOGRAMS

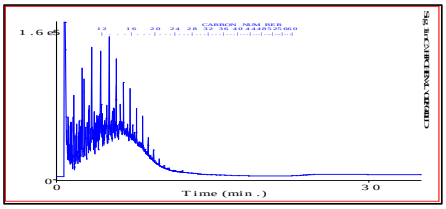
Motor Oil 10W30



Unweathered Crude



Winter Diesel



Product Carbon Number Ranges

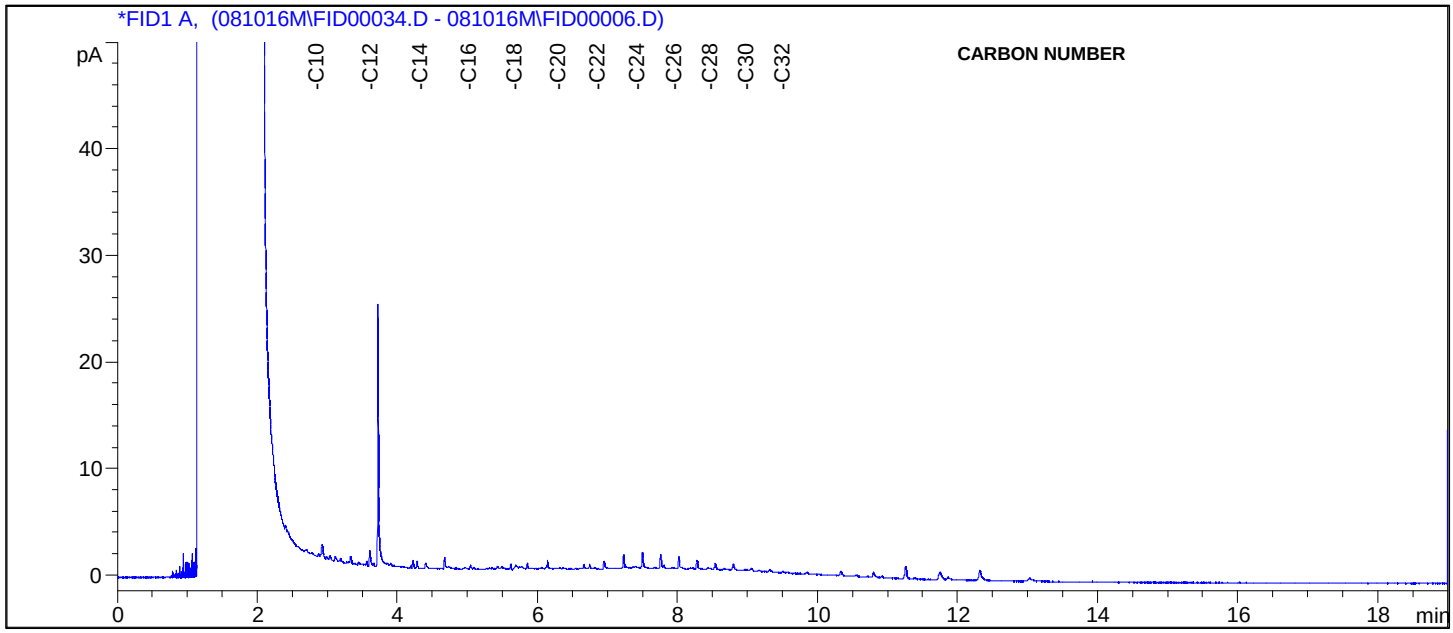
Gasoline	C4-C12	Kerosene	C7-C16	Lubricating Oils	C20-C40
Varsol	C8-C12	Diesel	C8-C22	Crude Oils	C3-C60+

Bodycote TESTING GROUP

Hydrocarbon Chromatogram

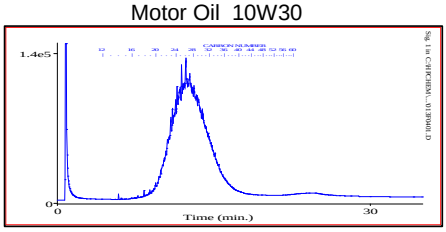
Bill To:	EBA Engineering - Edmonton	Project ID:	W23101161	Lot ID:	**648055**
Report To:	EBA Engineering - Edmonton	Name:	MetaFina	Control Number:	A015620/1/
	Calcite Business Centre	Location:	Faro	Date Received:	Oct 9, 2008
	Unit 6, 151 Industrial Road	LSD:		Date Reported:	
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-37 Sample Description: MW2
Sample Date: Oct 8, 2008

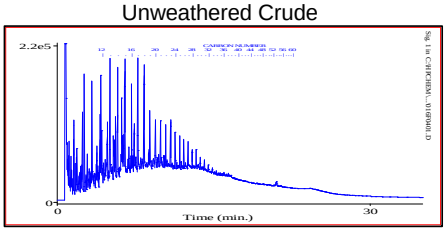


TYPICAL PRODUCT CHROMATOGRAMS

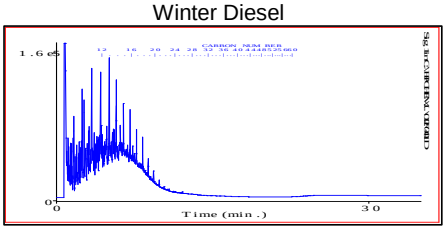
Motor Oil 10W30



Unweathered Crude



Winter Diesel



Product Carbon Number Ranges

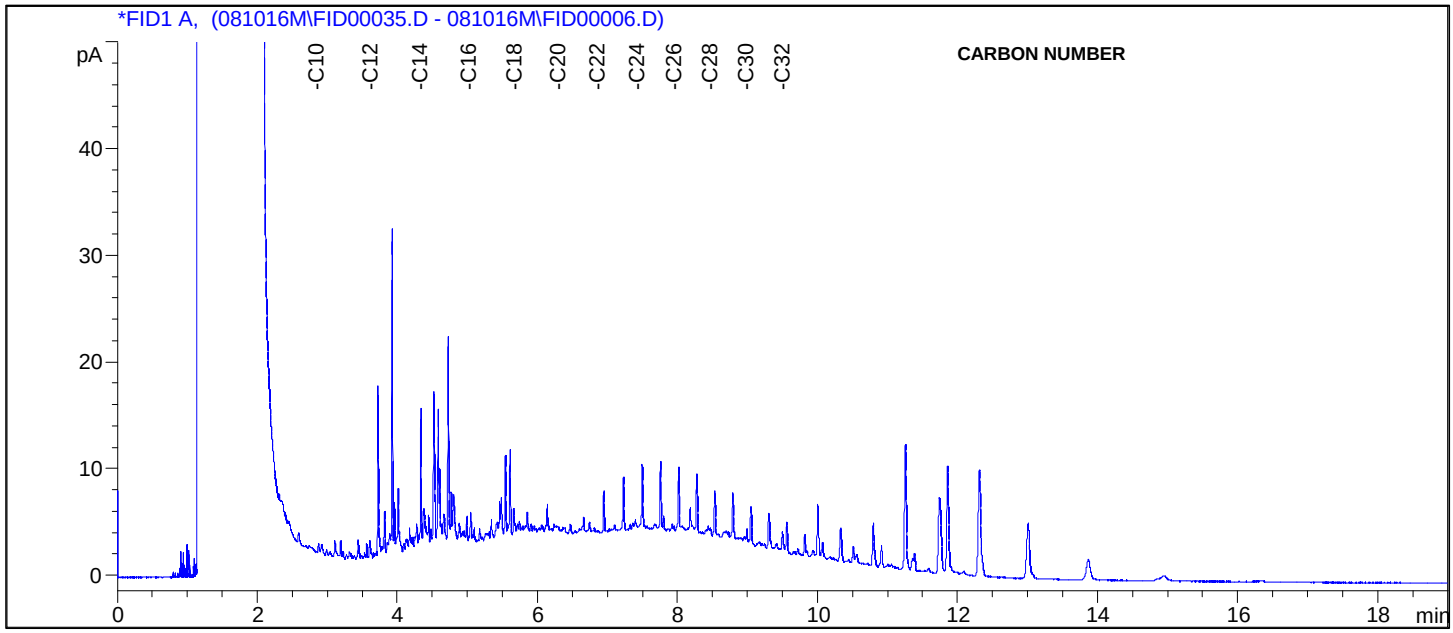
Gasoline	C4-C12	Kerosene	C7-C16	Lubricating Oils	C20-C40
Varsol	C8-C12	Diesel	C8-C22	Crude Oils	C3-C60+

Bodycote TESTING GROUP

Hydrocarbon Chromatogram

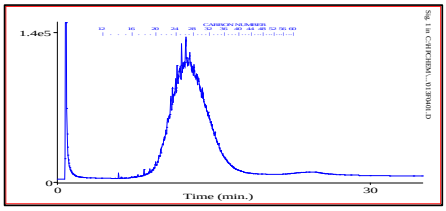
Bill To:	EBA Engineering - Edmonton	Project ID:	W23101161	Lot ID:	**648055**
Report To:	EBA Engineering - Edmonton	Name:	MetaFina	Control Number:	A015620/1/
	Calcite Business Centre	Location:	Faro	Date Received:	Oct 9, 2008
	Unit 6, 151 Industrial Road	LSD:		Date Reported:	
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-38 Sample Description: MW3
Sample Date: Oct 8, 2008

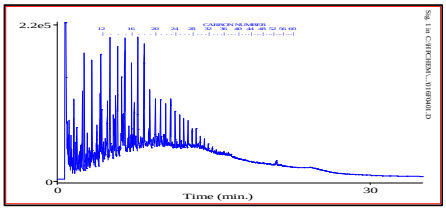


TYPICAL PRODUCT CHROMATOGRAMS

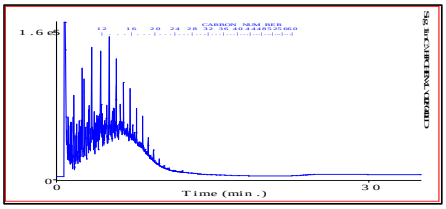
Motor Oil 10W30



Unweathered Crude



Winter Diesel



Product Carbon Number Ranges

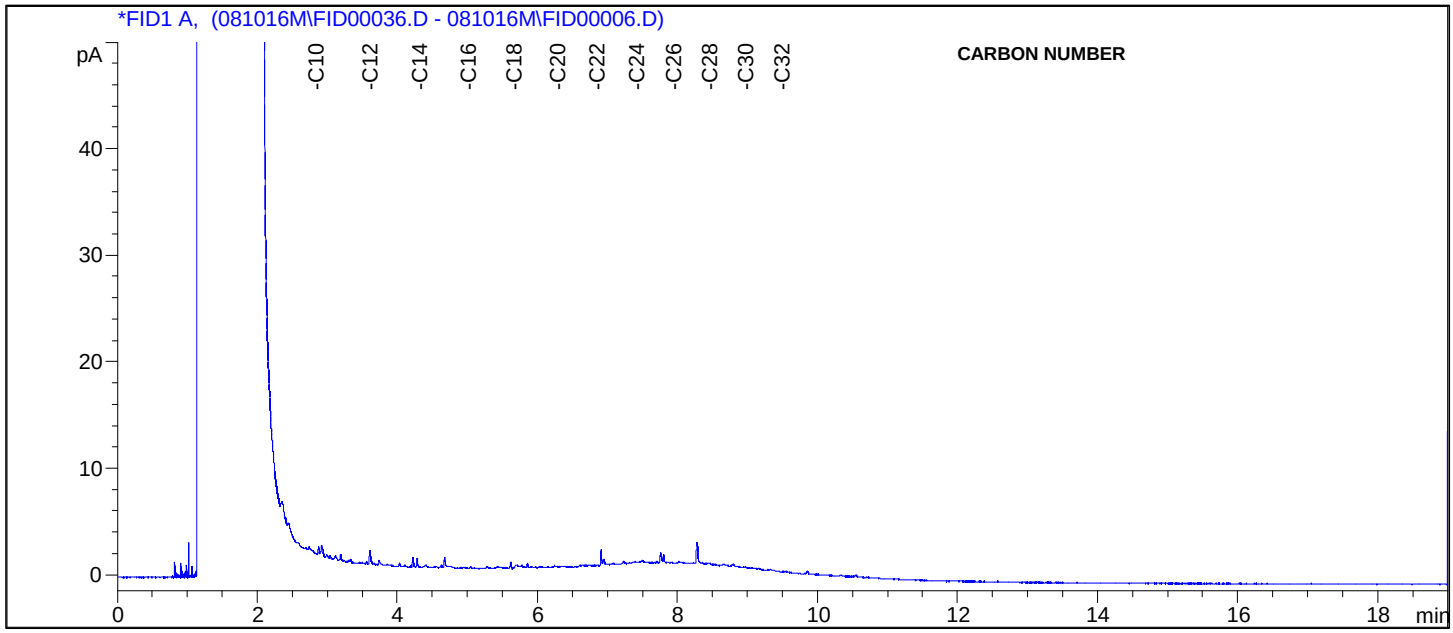
Gasoline	C4-C12	Kerosene	C7-C16	Lubricating Oils	C20-C40
Varsol	C8-C12	Diesel	C8-C22	Crude Oils	C3-C60+

Bodycote TESTING GROUP

Hydrocarbon Chromatogram

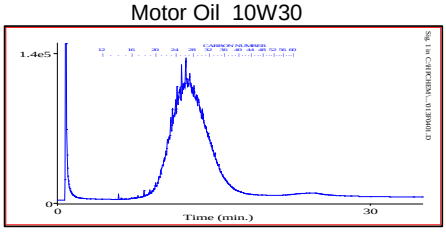
Bill To:	EBA Engineering - Edmonton	Project ID:	W23101161	Lot ID:	**648055**
Report To:	EBA Engineering - Edmonton	Name:	MetaFina	Control Number:	A015620/1/
	Calcite Business Centre	Location:	Faro	Date Received:	Oct 9, 2008
	Unit 6, 151 Industrial Road	LSD:		Date Reported:	
	Whitehorse, YT, Canada	P.O.:		Report Number:	
	Y1A 2V3				
Attn:	Donald Wilson				
Sampled by:	Mike Gallo				
Company:	EBA				

NWL Number: 648055-39 Sample Description: MW4
Sample Date: Oct 8, 2008

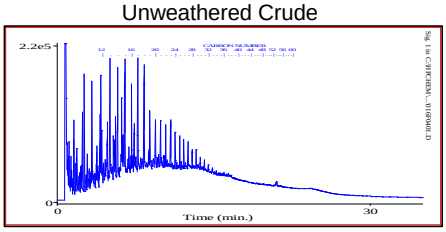


TYPICAL PRODUCT CHROMATOGRAMS

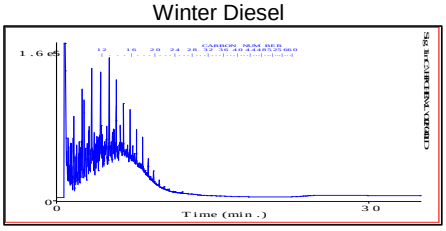
Motor Oil 10W30



Unweathered Crude



Winter Diesel



Product Carbon Number Ranges

Gasoline	C4-C12	Kerosene	C7-C16	Lubricating Oils	C20-C40
Varsol	C8-C12	Diesel	C8-C22	Crude Oils	C3-C60+