

2006 August 21

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Project No.: 95001-43-06
Powertech Reference No.: 06310
Your Reference: 317118

Petro Barrier Systems

Attention: Iain Muir

Dear Mr. Muir:

Re: Results of Analysis: PetroBarrier - PCB Removal Verification

Number of Samples: 14
Sample Type: Water
Analysis Required: EPHW, PCBW
Date Received: 2006 July 14
Date Reported: 2006 August 21

METHODOLOGY

Extractable Petroleum Hydrocarbons

The samples were extracted with dichloromethane. The extracts were then concentrated and analysed using capillary Gas Chromatography with Flame Ionization Detection (FID) in accordance with BCMoE Method for EPH in Waters by GC/FID (Rev. December 31, 2000). EPH results include hydrocarbons with boiling points ranging from 174 °C (C10) to 465 °C (C32) and are not corrected for PAH compounds which elute in this range.

PCB in Water

The analyses were carried out in accordance with U. S. EPA Methods 3510/8082 (EPA/SW-846, Environmental Protection Agency, Washington, D.C.). The samples were extracted with dichloromethane using separatory funnel liquid-liquid extraction techniques. The extracts were concentrated, cleaned-up and analysed by gas chromatography using electron capture detection.

RESULTS

The Results of Analysis are attached.

Prepared by: _____ Approved by: _____
Melissa Dudgeon Carol M. McDonald
Chemical Technician Sr. Project Specialist
Applied Chemistry

2006 July 27

RESULTS OF ANALYSIS

| Lab Ref. No. | Sample I.D. | Initial EPH Concentration (mg/L) | Extractable Petroleum Hydrocarbons (EPH _{W10-19}) | Extractable Petroleum Hydrocarbons (EPH _{W19-32}) | EPH Spike Removal % |
|------------------------|---|----------------------------------|---|---|-----------------------------|
| 06310-681 | #1 – A1260 in V35 | 53.8 | 0.9 | 0.9 | 96.5 |
| 06310-683 | #3 – A1260 in V35 | 56.2 | 1.9 | 1.5 | 94.5 |
| 06310-687 | #1 – A1242 in V35 | 58.9 | 0.2 | 0.2 | 99.2 |
| 06310-689 | #3 – A1242 in V35 | 64.6 | 0.5 | 0.4 | 98.5 |
| Quality Control | | | | | EPH Spike Recovery % |
| 06310-691 | #5 – A1242 in V35 Not through Column | 67.3 | 38.2 | 20.1 | 86.5 |
| 06310-693 | Blank | 0 | 0.8 * | < 0.2 | n/a |
| 06310-705 | #8 – A1260 in V35 Not through Column | 157.6 | 76.9 | 62.5 | 87.9 |

< = less than the Detection Limit indicated
Results are reported in milligrams per litre of sample.

n/a = not applicable

* Small amount of blank contamination present does not appear to be V35.

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RESULTS OF ANALYSIS

| Lab Ref. No. | Sample I.D. | Initial PCB Concentration (mg/L) | PCB Concentration After Column (mg/L) | PCB Surrogate Recovery % | Type | PCB Spike Removal % |
|------------------------|---|----------------------------------|---------------------------------------|--------------------------|-------|-----------------------------|
| 06310-772 | #1 – A1260 in V35 | 0.130 | 0.0011 | 57.5 | A1260 | 99.1 |
| 06310-773 | #2 – A1260 in V35 | 0.179 | 0.0003 | 66.0 | A1260 | 99.8 |
| 06310-776 | #1 – A1242 in V35 | 0.135 | < 0.0002 | 66.9 | - | 100 |
| 06310-777 | #2 – A1242 in V35 | 0.222 | < 0.0002 | 69.6 | - | 100 |
| Quality Control | | | | | | PCB Spike Recovery % |
| 06310-774 | #3 – A1260 in V35 Not through Column | 0.196 | 0.155 | 83.9 | A1260 | 78.8 |
| 06310-775 | Blank | 0 | < 0.0002 | 60.3 | - | n/a |
| 06310-778 | #3 – A1242 in V35 Not through Column | 0.0222 | 0.0172 | 52.4 | A1242 | 77.2 |

< = less than the Detection Limit indicated
Results are reported in milligrams per litre of sample.

n/a = not applicable